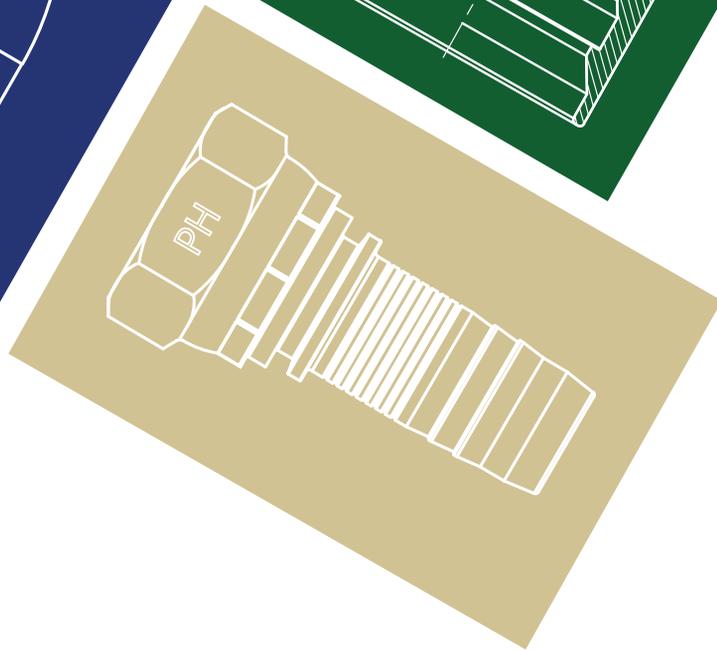
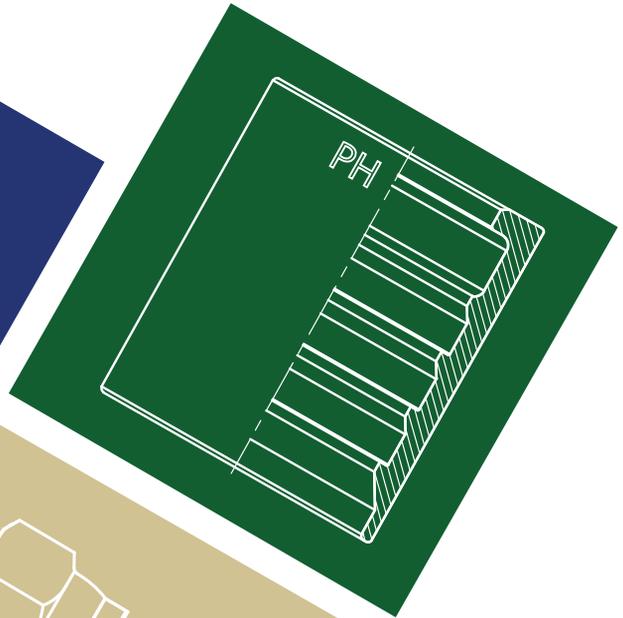
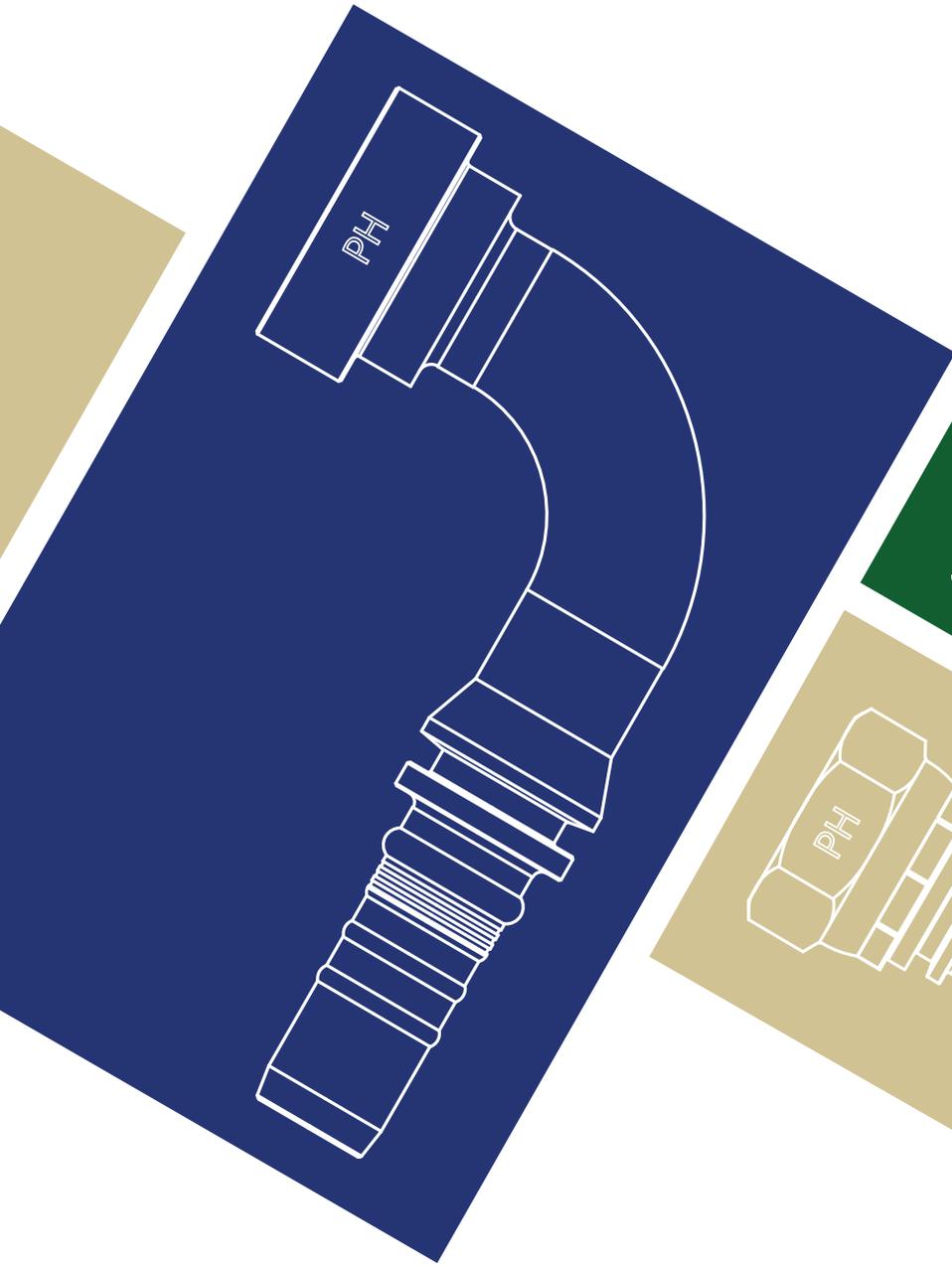


Polyhose®

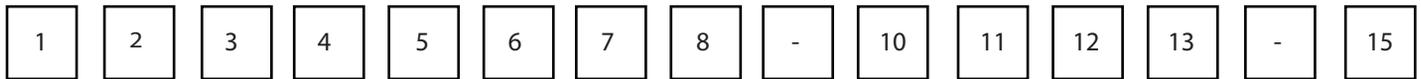
Providing Flexible Solutions Globally



HYDRAULIC FITTINGS



HYDRAULIC FITTING CODIFICATION - INSERTS / 1 PIECE FITTINGS



1 COMPONENT TYPE

CODE	DESCR
1	INSERT - 1P/2P
2	FERRULE - 1P/2P
3	1P FITTING

2 **3** INSERT TYPE

CODE	DESCR
10	2P - MT-HH
15	2P - HH-PH
25	2P - HH-TP
28	2P - HH-TP-JACK
30	2P - MS
40	2P - IL
47	2P - IL-WB
50	1P - HHWB
55	1P - HHWS - 4SP-R12
60	1P - HHWS - 4SH/R13 /R15
97	RU-R18
98	RU-R5
99	RU-1SN/2SN

4 **5** TERMINATION CODE

CODE	DESCR
01	BSPP
02	BSPP ORING
03	BSPP FLAT F
04	BSPT
08	BSP BANJO
11	JIC 37
12	SAE ORB
13	SAE 45 FLARE
14	SAE 45 INV F
21	NPT
22	NPS
23	NPTF
24	NPSM
31	ORFS
32	ORFS SH
41	SAE FL61
42	SAE FL62
51	M-SP
52	M-FS
53	M-CEL
54	M-CES

CODE	DESCR
55	M-DKOL
56	M-DKOS
57	M BANJO
60	M-60 CONE
65	JIS-TYPE C
66	JIS-TYPE F
67	JIS-PF
68	JIS-PT
71	KOM-M
72	KOM-FL
73	CAT-FL
81	SL
82	SSL
91	PW
92	HH
93	BR
94	SW
95	BW

6 TOPOLOGY

CODE	DESCR
0	00.0 DEGREE
2	22.5 DEGREE
3	30.0 DEGREE
4	45.0 DEGREE
6	60.0 DEGREE
7	67.5 DEGREE
9	90.0 DEGREE
A	110 DEGREE
C	135 DEGREE

7 OTHER SPECIFICATION

CODE	DESCR
0	NORMAL
S	SHORT DROP
L	LONG DROP
B	BULKHEAD
K	KNOCKING COLLAR
H	DOUBLE HEX
C	COMPACT
1	4 BOLT FLANGE
2	SPLIT FLANGE

8 HEAD TYPE

CODE	DESCR
0	N/A
1	FS-CN
2	FS-SN
3	FS-TN
4	FF

CODE	DESCR
5	M
6	MCS
7	M OR-RR
8	MS
A	BJ
B	BJB

9 DASH

10 **11** HOSE SIZE

12 **13** THREAD SIZE

14 FINISH GOODS

CODE	DESCR
0	FINISHED GOODS

15 MATERIAL TYPE

CODE	DESCR
0	CARBON STEEL
1	SS304
2	SS316
3	SS304 INS - CS NUT
4	SS316 INS - CS NUT

HYDRAULIC FITTING CODIFICATION - INSERTS / 1 PIECE FITTINGS

TERMINATION CODE

CODE	SHORT DESCR	DESCRIPTION
01	BSPP	BRITISH STANDARD PIPE
02	BSPP ORING	BRITISH STANDARD PIPE ORING
03	BSPP FLAT F	BRITISH STANDARD PIPE FLAT FACE
04	BSPT	BRITISH STANDARD PIPE TAPERED
08	BSP BANJO	BRITISH STANDARD PIPE BANJO
11	JIC 37	JIC 37° CONE
12	SAE ORB	SAE ORING BOSS
13	SAE 45 FLARE	SAE 45° FLARE
14	SAE 45 INV F	SAE 45° INVERTED FLARE
21	NPT	NATIONAL PIPE TAPER
22	NPS	NATIONAL PIPE STRAIGHT
23	NPTF	NATIONAL PIPE TAPER FUEL
24	NPSM	NATIONAL PIPE STRAIGHT MECHANICAL
31	ORFS	ORING FACE SEAL
32	ORFS SH	ORING FACE SEAL SINGLE HEXAGON
41	SAE FL61	SAE FLANGE 3000 PSI CODE 61
42	SAE FL62	SAE FLANGE 6000 PSI CODE 62
51	M-SP	METRIC STAND PIPE
52	M-FS	METRIC FLAT SEAT
53	M-CEL	METRIC - CEL
54	M-CES	METRIC - CES
55	M-DKOL	METRIC 24° CONE - ORING - LIGHT
56	M-DKOS	METRIC 24° CONE - ORING - HEAVY
57	M BANJO	METRIC BANJO
60	M-60 CONE	METRIC 60° CONE
65	JIS-TYPE C	JIS TYPE C
66	JIS-TYPE F	JIS TYPE F
67	JIS-PF	JIS PARALLEL PIPE THREAD
68	JIS-PT	JIS TAPER PIPE THREAD
71	KOM-M	KOMATSU METRIC
72	KOM-FL	KOMATSU FLANGE
73	CAT-FL	CAT FLANGE
81	SL	STAPLE LOCK
82	SSL	SUPER STAPLE LOCK
91	PW	POWER WASH
92	HH	HOSE TO HOSE - HOSE MENDER
93	BR	BRAZE ON
94	SW	SOCKET WELD
95	BW	BUTT WELD

HEAD TYPE

CODE	SHORT DESCR	DESCRIPTION
0	N/A	NOT APPLICABLE
1	FS-CN	FEMALE SWIVEL CRIMP NUT
2	FS-SN	FEMALE SWIVEL SLIP ON NUT
3	FS-TN	FEMALE SWIVEL THRUST WIRE NUT
4	FF	FEMALE FIXED
5	M	MALE
6	MCS	MALE CAPTIVE SEAL
7	M OR-RR	MALE ORING AND RETAINING RING
8	MS	MALE SWIVEL
A	BJ	BANJO
B	BJB	BANJO BOLT

HYDRAULIC FITTING CODIFICATION - FERRULES



1 COMPONENT TYPE

CODE	DESCR
1	INSERT - 1P/2P
2	FERRULE - 1P/2P
3	1P FITTING

2 3 FERRULE TYPE

CODE	DESCR
10	2P - MT-HH
15	2P - HH-PH
25	2P - HH-TP
28	2P - HH-TP-JACK
30	2P - MS
40	2P - IL
47	2P - IL-WB
50	1P - HHWB
55	1P - HHWS - 4SP-R12
60	1P - HHWS - 4SH/R13 /R15
97	RU-R18
98	RU-R5
99	RU-1SN/2SN

4 5 6 7 8 SERIES TYPE

CODE	DESCR
10050	NS - 1SC (DN06, DN08, DN10)
10150	NS - 1SC (DN12, DN16, DN19, DN25)
	NS - 2SC/1SN
10200	NS - 2SN
10210	NS - 1SN/2SC/2SN
10300	NS - R3/3TE
10400	NS - R12
10700	NS - R18
10750	NS - R7
	NS - R8 (DN06, DN08, DN10, DN12)
10780	NS - JACK HOSE
10800	NS - PLT
10900	NS - PTFE

20100	SK - 1SN (DN31, DN38, DN51)
20250	SK - 1SN (DN06 to DN25)
	SK - 2SN/2SC
	SK - R12 (DN16, DN19, DN25)
20400	SK - 4SP (DN06, DN10, DN12, DN16, DN19)
	SK - R12 (DN10, DN12)
20405	SK - 4SP/4SH/R13/R15
20410	SK - 4SH

30420	IL - 4SH/R13/R15 (DN19, DN25)
30430	IL - 4SH (DN31, DN38, DN50)
30600	IL - R13/R15 (DN31, DN38, DN51)
30650	IL - WATERBLAST

15150	NS - 1P - 1SC/1SN/2SC/2SN/R17
15400	NS - 1P - 4SP-R12
15500	NS - 1P - 4SH-R13

9 DASH

10 11 HOSE SIZE

- - NOT IN USE

14 FINISH GOODS

CODE	DESCR
0	FINISHED GOODS

15 MATERIAL TYPE

CODE	DESCR
0	CARBON STEEL
1	SS304
2	SS316
3	SS304 INS - CS NUT
4	SS316 INS - CS NUT

FERRULES - MULTITYPE - 210 SERIES

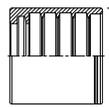
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21010050
1SC/R17



21010150
1SC/R17/1SN/R1AT/
2SC/R16



21010200
2SN/R2AT



21010210
1SN/R1AT/2SC/
R16/2SN/R2AT/R17



21020250
R6/2TE



21010300
R3/3TE/R4/R5



21010400
R12



21010750
R7/R8



21010800
PLT



21010900
PTFE

SKIVE - FE2P-MT



21020100
1SN/R1AT



21020250
1SN/R1AT/2SC/
R16/2SN/R2AT/R12/R17



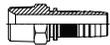
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4SP/R12



21020405
4SP/4SH/R13/R15

INSERTS - MULTITYPE - 110 SERIES

BSP - HF2P-MT



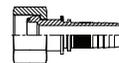
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BSPT M



11001005
BSPP M



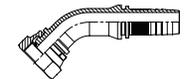
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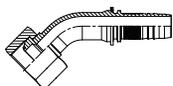
11002002
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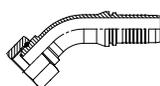
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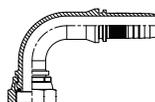
11002401
BSPP OR FS 45
(CRN)



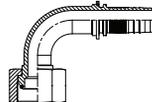
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BSPP OR FS 45 (SON)



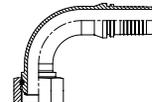
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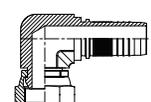
11002901
BSPP OR FS 90 (CRN)



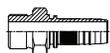
11002902
BSPP OR FS 90 (SON)



11002903
BSPP OR FS 90 (TWN)



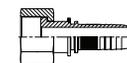
110029C1
BSPP FS 90 CP
(CRN)



11003005
BSPP FSEAT M



11003001
BSPP FSEAT FS (CRN)



11003002
BSPP FSEAT FS (SON)

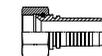
JIC 37° - HF2P-MT



11011005
JIC M



11011001
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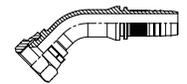
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110110H1
JIC FS DH (CRN)



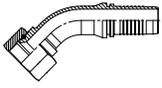
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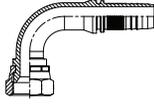
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JIC FS 45 (CRN)

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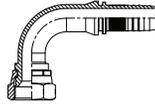
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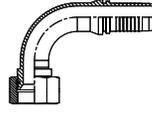
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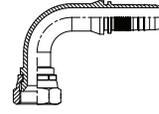
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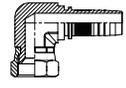
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11011903
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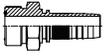


110119L1
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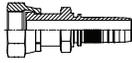


110119C1
JIC FS 90 CP
(CRN)

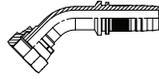
ORFS - HF2P-MT



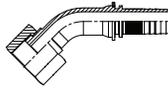
11031005
ORFS M



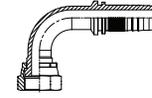
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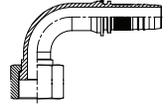
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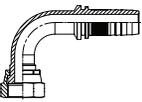
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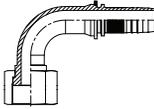
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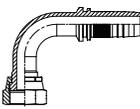
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(SON)



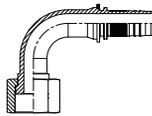
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ORFS FS 90 (CRN)



11031902
ORFS FS 90 (SON)

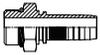


110319L1
ORFS FS 90 LD (CRN)



110319L2
ORFS FS 90 LD (SON)

SAE - HF2P-MT



11012005
SAE ORB M



11013001
SAE 45 SEAT FS (CRN)



110130H1
SAE 45 SEAT DH FS (CRN)

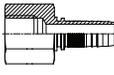
NPTF - HF2P-MT



11023005
NPTF M



11023008
NPTF MS

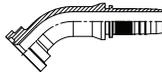


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NPTF FF

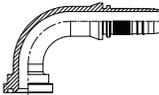
SAE FLANGE - HF2P-MT



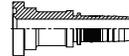
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SAE 61 3K FL



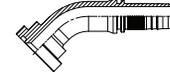
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SAE 61 3K FL 45



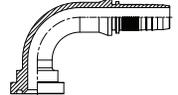
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11042000
SAE 62 6K FL

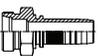


11042400
SAE 62 6K FL 45



11042900
SAE 62 6K FL 90

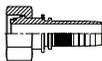
METRIC - HF2P-MT



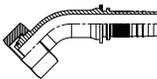
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M24 CEL M



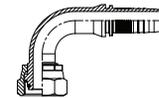
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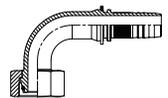
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11055402
M24 DKOL FS 45 (SON)

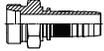


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M24 DKOL FS 90 (CRN)

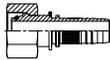


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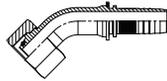
METRIC - HF2P-MT



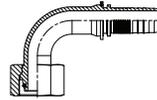
11054005
M24 CES M



11056002
M24 DKOS FS (SON)



11056402
M24 DKOS FS 45 (SON)



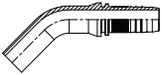
11056902
M24 DKOS FS 90 (SON)



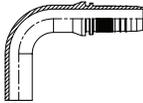
11060001
METRIC 60C FS (CRN)



11051000
MSP

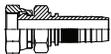


11051400
MSP 45



11051900
MSP 90

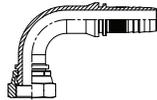
JIS - HF2P-MT



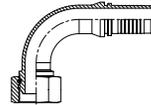
11065001
JIS C FS (CRN)



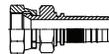
11065003
JIS C FS (TWN)



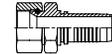
11065901
JIS C FS 90 (CRN)



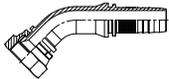
11065903
JIS C FS 90 (TWN)



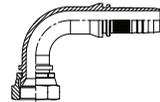
11066001
JIS F FS (CRN)



11066003
JIS F FS (TWN)



11066401
JIS F FS 45 (CRN)

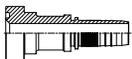


11066901
JIS F FS 90 (CRN)

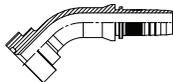


11071001
KOMATSU FS (CRN)

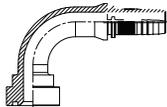
OEM - HF2P-MT



11073000
SCAT 9K FL



11073400
SCAT 9K FL 45



11073900
SCAT 9K FL 90

BANJO - HF2P-MT



110010A0
BSPP BANJO



110570A0
METRIC BANJO

REFERENCE CHART

ACCESSORIES - HF2P-MT



11092000
H-H



11093000
BRAZE TAIL



110010B0
BSPP BANJO BOLT



110570B0
METRIC BANJO BOLT

FERRULES - MULTISPIRAL - 230 SERIES

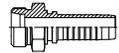
SKIVE - FE2P-MS



23020410
4SH

INSERTS - MULTISPIRAL - 130 SERIES

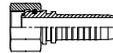
BSP - HF2P-MS



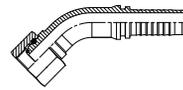
13004005
BSPT M



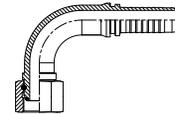
13001005
BSPP M



13002003
BSPP OR FS (TWN)



13002403
BSPP OR FS 45 (TWN)

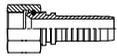


13002903
BSPP OR FS 90 (TWN)

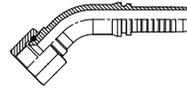
JIC 37° - HF2P-MS



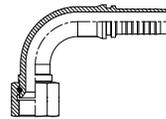
13011005
JIC M



13011003
JIC FS (TWN)

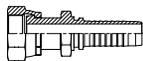


13011403
JIC FS 45 (TWN)

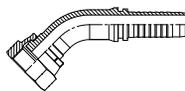


13011903
JIC FS 90 (TWN)

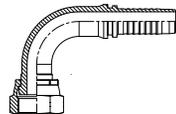
ORFS - HF2P-MS



13031001
ORFS FS (CRN)

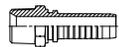


13031401
ORFS FS 45 (CRN)



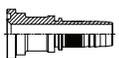
13031901
ORFS FS 90 (CRN)

NPTF - HF2P-MS

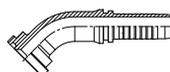


13023005
NPTF M

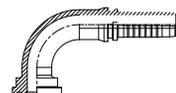
SAE FLANGE - HF2P-MS



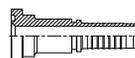
13041000
SAE 61 3K FL



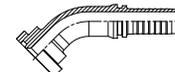
13041400
SAE 61 3K FL 45



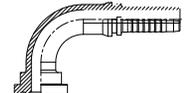
13041900
SAE 61 3K FL 90



13042000
SAE 62 6K FL

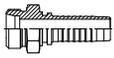


13042400
SAE 62 6K FL 45

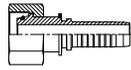


13042900
SAE 62 6K FL 90

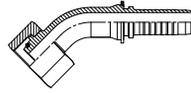
METRIC - HF2P-MS



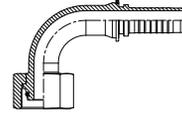
13054005
M24 CES M



13056002
M24 DKOS FS (SON)



13056402
M24 DKOS FS 45 (SON)

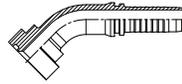


13056902
M24 DKOS FS 90 (SON)

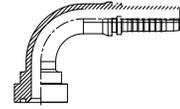
OEM - HF2P-MS



13073000
SCAT 9K FL



13073400
SCAT 9K FL 45



13073900
SCAT 9K FL 90

FERRULES - INTERLOCK - 240 SERIES

INTERLOCK - FE2P-IL



24030420
4SH/R13/R15



24030430
4SH



24030600
R13/R15

INSERTS - INTERLOCK - 140 SERIES

BSP - HF2P-IL



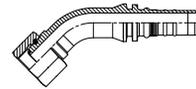
14004005
BSPT M



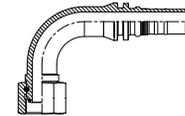
14001005
BSPP M



14002003
BSPP OR FS (TWN)



14002403
BSPP OR FS 45 (TWN)



14002903
BSPP OR FS 90 (TWN)

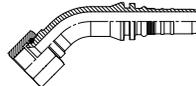
JIC 37° - HF2P-IL



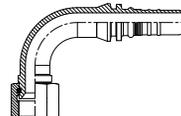
14011005
JIC M



14011003
JIC FS (TWN)

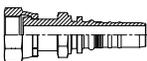


14011403
JIC FS 45 (TWN)

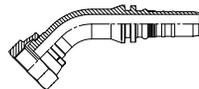


14011903
JIC FS 90 (TWN)

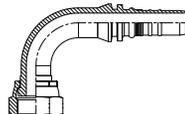
ORFS - HF2P-IL



14031001
ORFS FS (CRN)



14031401
ORFS FS 45 (CRN)



14031901
ORFS FS 90 (CRN)

NPTF - HF2P-IL



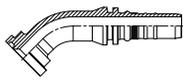
14023005
NPTF M

REFERENCE CHART

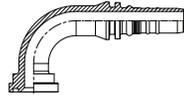
SAE FLANGE - HF2P-IL



14041000
SAE 61 3K FL



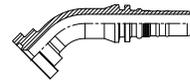
14041400
SAE 61 3K FL 45



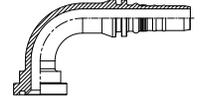
14041900
SAE 61 3K FL 90



14042000
SAE 62 6K FL

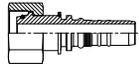


14042400
SAE 62 6K FL 45

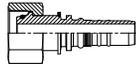


14042900
SAE 62 6K FL 90

METRIC- HF2P-IL



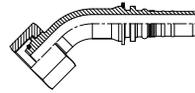
14054005
M24 CES M



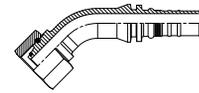
14056002
M24 DKOS FS (SON)



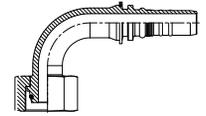
14056003
M24 DKOS FS (TWN)



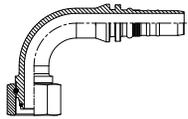
14056402
M24 DKOS FS 45 (SON)



14056403
M24 DKOS FS 45 (TWN)



14056902
M24 DKOS FS 90 (SON)

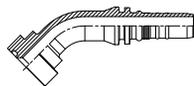


14056903
M24 DKOS FS 90 (TWN)

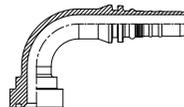
OEM - HF2P-IL



14073000
SCAT 9K FL



14073400
SCAT 9K FL 45



14073900
SCAT 9K FL 90

ACCESSORIES

FLANGE CLAMP



11041020
SAE 61 3K SFL



11042020
SAE 62 6K SFL



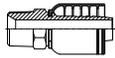
11041010
SAE 61 3K 4FL



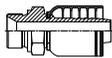
11042010
SAE 62 6K 4FL

ONE PIECE - WB - 1SC / R17 / 1SN / R1AT / 2SC / R16 / 2SN / R2AT - R12 - 20 - 24 - 350 SERIES

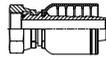
BSP - HF1P-WB



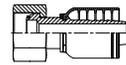
35004005
BSPT M



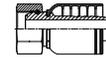
35001005
BSPP M



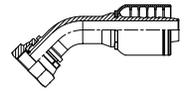
35002001
BSPP OR FS (CRN)



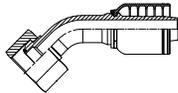
35002002
BSPP OR FS (SON)



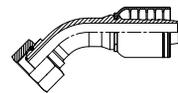
35002003
BSPP OR FS (TWN)



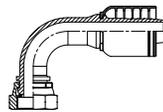
35002401
BSPP OR FS 45 (CRN)



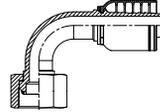
35002402
BSPP OR FS 45 (SON)



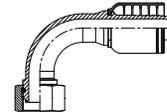
35002403
BSPP OR FS 45 (TWN)



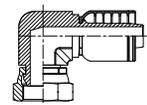
35002901
BSPP OR FS 90 (CRN)



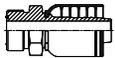
35002902
BSPP OR FS 90 (SON)



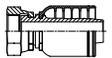
35002903
BSPP OR FS 90 (TWN)



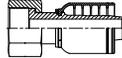
350029C1
BSPP OR FS 90 CP (CRN)



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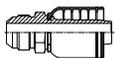


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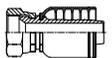


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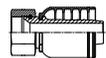
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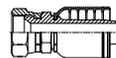
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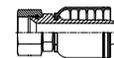
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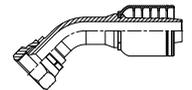
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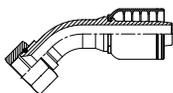
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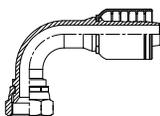
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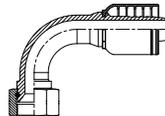
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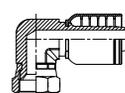
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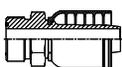


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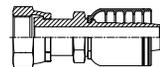


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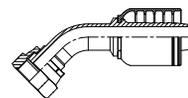
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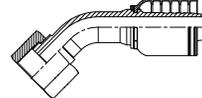
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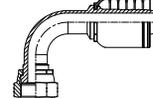
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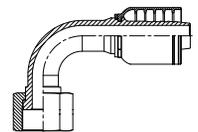
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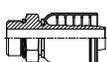


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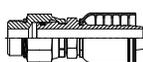


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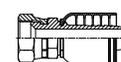
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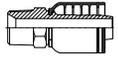
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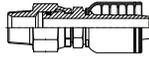
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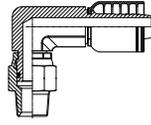
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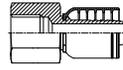
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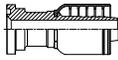


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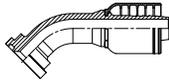


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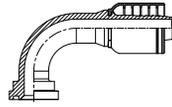
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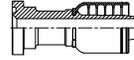
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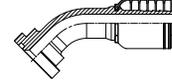
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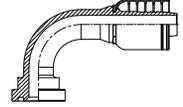
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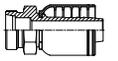


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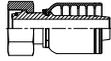


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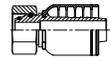
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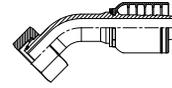
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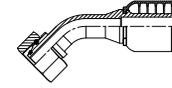
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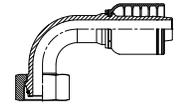
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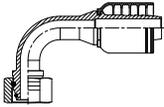
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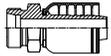
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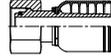
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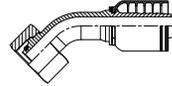
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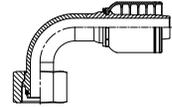
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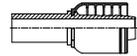
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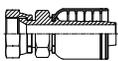


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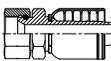


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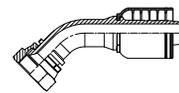
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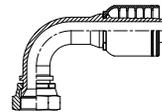
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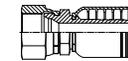
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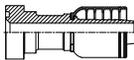


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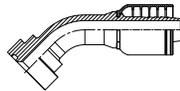


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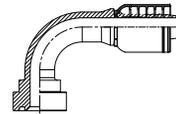
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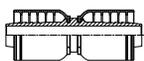


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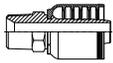
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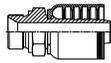
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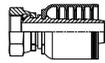
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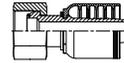
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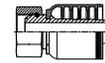
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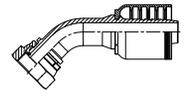
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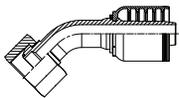
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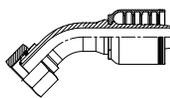
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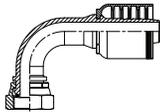
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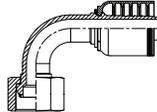
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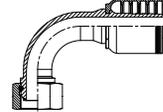
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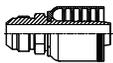


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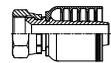


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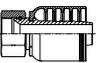
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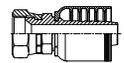
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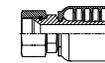
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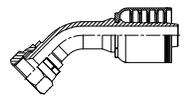
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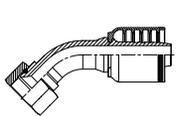
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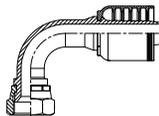
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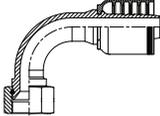
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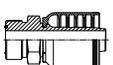


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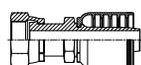


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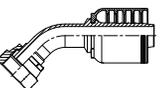
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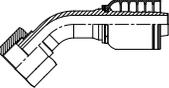
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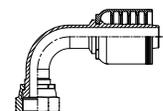
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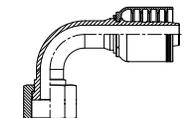
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35531402
ORFS FS 45 (SON)



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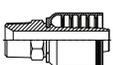
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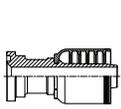
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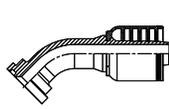
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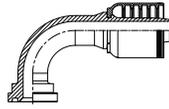
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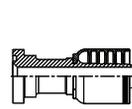
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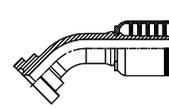
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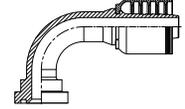
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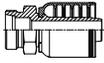


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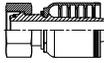


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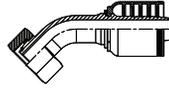
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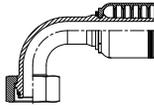
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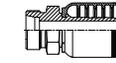
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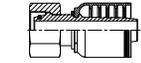
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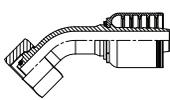
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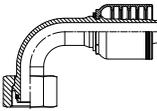
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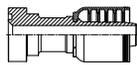


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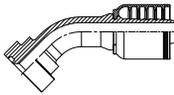


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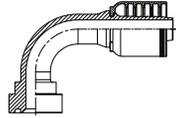
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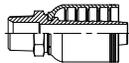
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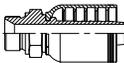
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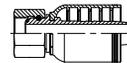
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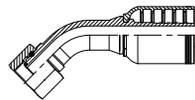
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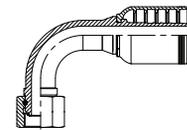
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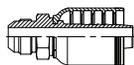


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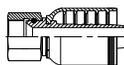


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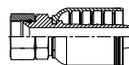
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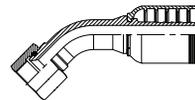
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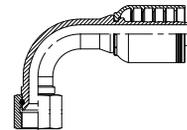
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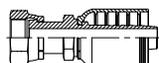


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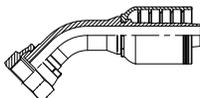


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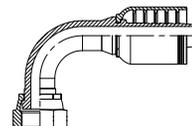
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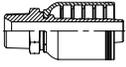


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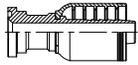
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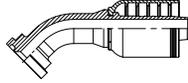


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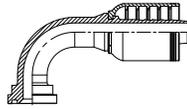
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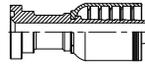
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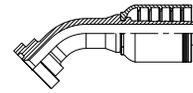
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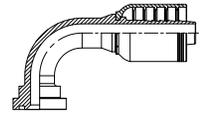
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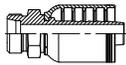


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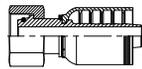


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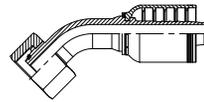
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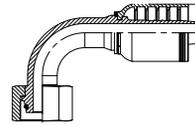
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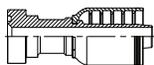


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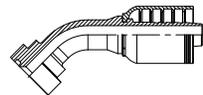


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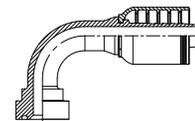
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INDEX

REFERENCE	PAGE	REFERENCE	PAGE	REFERENCE	PAGE
11001005	29	11042020	86	13054005	71
110010A0	58	11042400	47	13056002	71
110010B0	59	11042900	47	13056402	71
11002001	30	11051000	53	13056902	71
11002002	30	11051400	54	13073000	72
11002003	30	11051900	54	13073400	72
11002401	31	11053005	48	13073900	72
11002402	31	11054005	50	14001005	74
11002403	31	11055001	49	14002003	74
11002901	31	11055002	49	14002403	75
11002902	31	11055402	49	14002903	75
11002903	31	11055901	50	14004005	74
110029C1	32	11055902	50	14011003	76
11003001	32	11056002	51	14011005	76
11003002	32	11056402	51	14011403	76
11003005	32	11056902	52	14011903	77
11004005	29	110570A0	58	14023005	79
11011001	34	110570B0	60	14031001	78
11011003	34	11060001	52	14031401	78
11011005	33	11065001	55	14031901	78
110110H1	35	11065003	55	14041000	80
110110H3	35	11065901	55	14041400	80
11011401	36	11065903	55	14041900	80
11011403	36	11066001	55	14042000	81
11011901	37	11066003	55	14042400	81
11011903	37	11066401	56	14042900	82
110119L1	37	11066901	56	14054005	83
110119C1	38	11071001	56	14056002	83
110119S1	36	11073000	57	14056003	83
11012005	42	11073400	57	14056402	83
11013001	42	11073900	57	14056403	83
110130H1	42	11092000	59	14056902	84
11023004	44	11093000	59	14056903	84
11023005	43	13001005	62	14073000	85
11023008	43	13002003	62	14073400	85
11031001	39	13002403	63	14073900	85
11031005	39	13002903	63	21010050	24
11031401	40	13004005	62	21010150	24
11031402	40	13011005	64	21010200	24
11031901	41	13011003	64	21010210	25
11031902	41	13011403	65	21010300	25
110319L1	41	13011903	65	21010400	26
110319L2	41	13023005	67	21010750	26
110319S1	40	13031001	66	21010800	26
110319S2	40	13031401	66	21010900	27
11041000	45	13031901	66	21020100	28
11041010	86	13041000	68	21020250	25
11041020	86	13041400	68	21020250	28
11041400	45	13041900	68	21020400	28
11041900	46	13042000	69	21020405	28
11042000	46	13042400	69	23020410	61
11042010	87	13042900	70	24030420	73

REFERENCE	PAGE	REFERENCE	PAGE	REFERENCE	PAGE
24030430	73	35042900	105	35541900	124
24030600	73	35051000	109	35542000	125
35001005	89	35053005	106	35542400	125
35002001	90	35054005	107	35542900	125
35002002	90	35055002	106	35553005	126
35002003	90	35055003	106	35555002	126
35002401	90	35055402	106	35555402	126
35002402	90	35055403	106	35555902	127
35002403	90	35055902	107	35554005	127
35002901	91	35055903	107	35556002	127
35002902	91	35056002	107	35556402	128
35002903	91	35056402	108	35556902	128
350029C1	91	35056902	108	35573000	129
35003001	92	35066001	110	35573400	129
35003002	92	35066003	110	35573900	129
35003005	92	35066401	110	36001005	130
35004005	89	35066901	110	36002003	130
35011001	93	35071001	111	36002403	131
35011003	93	35073000	112	36002903	131
35011005	93	35073400	112	36004005	130
350110H1	94	35073900	112	36011003	132
350110H3	94	35092000	113	36011005	132
35011401	94	35501005	114	360110H3	133
35011403	94	35502001	115	36011403	133
35011901	96	35502002	115	36011903	133
35011903	96	35502003	115	36023005	133
350119S1	95	35502401	115	36031001	134
350119L1	95	35502402	115	36031401	134
350119C1	96	35502403	115	36031901	134
35012005	100	35502901	116	36041000	136
35012008	100	35502902	116	36041400	136
35013001	100	35502903	116	36041900	136
350130H1	101	35504005	114	36042000	137
35023004	103	35511001	117	36042400	137
35023005	102	35511003	117	36042900	138
35023008	102	35511005	117	36054005	139
350239C8	103	355110H1	118	36056002	139
35031001	97	355110H3	118	36056402	139
35031005	97	35511401	118	36056902	139
35031401	98	35511403	118	36073000	140
35031402	98	35511901	119	36073400	140
350319S1	98	35511903	119	36073900	140
350319S2	98	35512005	122		
35031901	99	35523005	123		
35031902	99	35531005	120		
350319L1	99	35531001	120		
350319L2	99	35531401	120		
35041000	104	35531402	120		
35041400	104	35531901	121		
35041900	104	35531902	121		
35042000	105	35541000	124		
35042400	105	35541400	124		

INSERT AND FERRULE SELECTION CHART

TWO PIECE FITTINGS

HOSE TYPE				WIRE BRAID						
FITTING TYPE	INSERT SERIES	ASSEMBLY TYPE	FERRULE SERIES	EN 857 1SC	EN 853 1SN SAE 100 R1AT	EN 857 2SC SAE 100 R16	EN 853 2SN SAE 100 R2AT	SAE 100 R17	PILOT	SAE 100 R5
MT	110	NO SKIVE	21010050	-04 → -06 DN 06 → DN 10 1/4" → 3/8"						
MT	110	NO SKIVE	21010150	-04 → -16 DN 06 → DN 25 1/4" → 1"	-03 → -32 DN 04 → DN 51 3/16" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"		-04 → -08 DN 06 → DN 12 1/4" → 1/2"		
MT	110	NO SKIVE	21010200				-03 → -32 DN 04 → DN 51 3/16" → 2"			
MT	110	NO SKIVE	21010210		-03 → -32 DN 04 → DN 51 3/16" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"	-03 → -32 DN 04 → DN 51 3/16" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"		
MT	110	NO SKIVE	21020250							
MT	110	NO SKIVE	21010300							3/16" → 5/8"
MT	110	NO SKIVE	21010400							
MT	110	NO SKIVE	21010750							
MT	110	NO SKIVE	21010800						-04 → -08 DN 06 → DN 12 1/4" → 1/2"	
MT	110	NO SKIVE	21010900							
MT	110	SKIVE	21020100		-20 → -32 DN 31 → DN 51 1 1/4" → 2"					
MT	110	SKIVE	21020250		-03 → -16 DN 05 → DN 25 3/16" → 1"	-04 → -16 DN 06 → DN 25 1/4" → 1"	-03 → -32 DN 04 → DN 51 3/16" → 2"	-10 → -16 DN 16 → DN 25 5/8" → 1"		
MT	110	SKIVE	21020400							
MT	110	SKIVE	21020405							
MS	130	SKIVE	23020410							
IL	140	INTERLOCK	24030420							
IL	140	INTERLOCK	24030430							
IL	140	INTERLOCK	24030600							

ONE PIECE FITTINGS

1P-WB	350	NO SKIVE		-04 → -16 DN 06 → DN 25 1/4" → 1"	-04 → -32 DN 06 → DN 51 1/4" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"	-04 → -32 DN 06 → DN 51 1/4" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"		
1P-WS 4SP-R12-4SH	355	NO SKIVE								
1P-WS 4SH-R13-R15	360	NO SKIVE								

INSERT AND FERRULE SELECTION CHART

TWO PIECE FITTINGS

HOSE TYPE				THERMOPLASTIC		PTFE
FITTING TYPE	INSERT SERIES	ASSEMBLY TYPE	FERRULE SERIES	EN 855 R7 SAE 100 R7	EN 855 R8 SAE 100 R8	PTFE
MT	110	NO SKIVE	21010050			
MT	110	NO SKIVE	21010150			
MT	110	NO SKIVE	21010200			
MT	110	NO SKIVE	21010210			
MT	110	NO SKIVE	21020250			
MT	110	NO SKIVE	21010300			
MT	110	NO SKIVE	21010400			
MT	110	NO SKIVE	21010750	-04 → -16 DN 06 → DN 25 1/4" → 1"	-04 → -16 DN 06 → DN 25 1/4" → 1"	
MT	110	NO SKIVE	21010800			
MT	110	NO SKIVE	21010900			-04 → -32 DN 06 → DN 51 1/4" → 2"
MT	110	SKIVE	21020100			
MT	110	SKIVE	21020250			
MT	110	SKIVE	21020400			
MT	110	SKIVE	21020405			
MS	130	SKIVE	23020410			
IL	140	INTERLOCK	24030420			
IL	140	INTERLOCK	24030430			
IL	140	INTERLOCK	24030600			

TWO PIECE FITTINGS

FERRULES	-	MULTITYPE	-	210 SERIES	.....	24
INSERTS	-	MULTITYPE	-	110 SERIES	.....	29
FERRULES	-	MULTISPIRAL	-	230 SERIES	.....	61
INSERTS	-	MULTISPIRAL	-	130 SERIES	.....	62
FERRULES	-	INTERLOCK	-	240 SERIES	.....	73
INSERTS	-	INTERLOCK	-	140 SERIES	.....	74
ACCESSORIES	.....					86

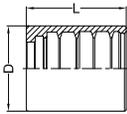
FERRULES - MULTITYPE - 210 SERIES

FERRULE - MULTITYPE - NO SKIVE

FERRULE - NO SKIVE

FE2P-MT-NS 1SC/R17

21010050

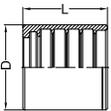


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010050-040000	1SC/R17	-04	DN 06	1/4"	26.3	1.04	19.0	0.75
21010050-050000	1SC/R17	-05	DN 08	5/16"	26.3	1.04	21.0	0.83
21010050-060000	1SC/R17	-06	DN 10	3/8"	27.2	1.04	23.0	0.91

FERRULE - NO SKIVE

FE2P-MT-NS 1SC/R17/1SN/R1AT/2SC/R16

21010150

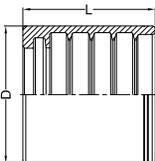


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010150-030000	1SN/R1AT	-03	DN 05	3/16"	19.5	0.77	19.0	0.75
21010150-040000	1SC/R17/R1AT/2SC/R16	-04	DN 06	1/4"	24.7	0.97	21.0	0.83
21010150-050000	1SC/R1AT/2SC/R16	-05	DN 08	5/16"	24.7	0.97	23.0	0.91
21010150-060000	1SC/R17/R1AT/2SC/R16	-06	DN 10	3/8"	29.7	1.17	26.0	1.02
21010150-080000	1SC/R17/R1AT/2SC/R16	-08	DN 12	1/2"	30.5	1.20	29.0	1.14
21010150-100000	1SC/R1AT/2SC/R16	-10	DN 16	5/8"	30.5	1.20	32.0	1.26
21010150-120000	1SC/R1AT/2SC/R16	-12	DN 19	3/4"	36.0	1.42	36.0	1.42
21010150-160000	1SC/R1AT/2SC/R16	-16	DN 25	1"	36.7	1.44	44.0	1.73
21010150-200000	1SN/R1AT	-20	DN 32	1.1/4"	48.6	1.91	53.0	2.09
21010150-240000	1SN/R1AT	-24	DN 38	1.1/2"	48.6	1.91	61.0	2.40
21010150-320000	1SN/R1AT	-32	DN 51	2"	48.6	1.91	75.0	2.95
21010150-400000	1SN/R1AT	-40	DN 63	2.1/2"	86.3	3.40	91.4	3.60
21010150-480000	1SN/R1AT	-48	DN 76	3"	86.3	3.40	105.0	4.13

FERRULE - NO SKIVE

FE2P-MT-NS 2SN/R2AT

21010200



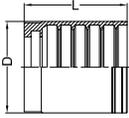
ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010200-030000	2SN/R2AT	-03	DN 05	3/16"	24.0	0.94	21.0	0.83
21010200-040000	2SN/R2AT	-04	DN 06	1/4"	24.7	0.97	22.0	1.87
21010200-050000	2SN/R2AT	-05	DN 08	5/16"	24.7	0.97	25.0	1.98
21010200-060000	2SN/R2AT	-06	DN 10	3/8"	29.7	1.17	27.0	1.06
21010200-080000	2SN/R2AT	-08	DN 12	1/2"	30.5	1.20	30.0	1.08
21010200-100000	2SN/R2AT	-10	DN 16	5/8"	30.5	1.20	33.4	1.31
21010200-120000	2SN/R2AT	-12	DN 19	3/4"	36.0	1.42	37.4	1.47
21010200-160000	2SN/R2AT	-16	DN 25	1"	36.7	1.44	46.0	1.81
21010200-200000	2SN/R2AT	-20	DN 32	1.1/4"	48.6	1.91	57.6	2.27
21010200-240000	2SN/R2AT	-24	DN 38	1.1/2"	48.5	1.91	64.4	2.54
21010200-320000	2SN/R2AT	-32	DN 51	2"	48.6	1.91	78.8	3.10
21010200-400000	2SN/R2AT	-40	DN 63	2.1/2"	86.3	3.40	93.4	3.68
21010200-480000	2SN/R2AT	-48	DN 76	3"	86.3	3.40	109.0	4.29

FERRULES - MULTITYPE - 210 SERIES

FERRULE - NO SKIVE

FE2P-MT-NS 1SN/R1AT/2SC/R16/2SN/R2AT

21010210

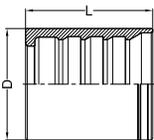


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010210-030000	1SN/R1AT/2SN/R2AT	-03	DN 05	3/16"	23.0	0.91	21.0	0.83
21010210-040000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-04	DN 06	1/4"	30.5	1.20	23.0	0.91
21010210-050000	1SN/R1AT/2SC/R16/2SN/R2AT	-05	DN 08	5/16"	30.0	1.18	24.0	0.94
21010210-060000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-06	DN 10	3/8"	32.0	1.26	26.0	1.02
21010210-080000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-08	DN 12	1/2"	34.0	1.34	29.0	1.14
21010210-100000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-10	DN 16	5/8"	37.0	1.46	33.0	1.30
21010210-120000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-12	DN 19	3/4"	42.0	1.65	37.0	1.46
21010210-160000	R17/1SN/R1AT/2SC/R16/2SN/R2AT	-16	DN 25	1"	51.0	2.01	46.7	1.84
21010210-200000	1SN/R1AT/2SN/R2AT	-20	DN 32	1.1/4"	58.6	2.31	59.0	2.32
21010210-240000	1SN/R1AT/2SN/R2AT	-24	DN 38	1.1/2"	66.6	2.62	67.0	2.64
21010210-320000	1SN/R1AT/2SN/R2AT	-32	DN 51	2"	71.6	2.82	80.0	3.15

FERRULE - NO SKIVE

FE2P-MT-NS R6/2TE

21020250

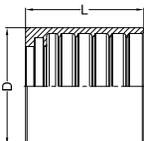


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020250-040000	R6/2TE	-04	DN 06	1/4"	26.3	1.04	21.0	0.83
21020250-050000	R6/2TE	-05	DN 08	5/16"	26.5	1.04	22.0	0.87
21020250-060000	R6/2TE	-06	DN 10	3/8"	28.5	1.12	25.0	0.98
21020250-080000	R6/2TE	-08	DN 12	1/2"	34.7	1.37	29.0	1.14
21020250-100000	R6/2TE	-10	DN 16	5/8"	37.5	1.48	32.0	1.26
21020250-120000	R6/2TE	-12	DN 19	3/4"	41.5	1.63	36.0	1.42
21020250-160000	R6/2TE	-16	DN 25	1"	47.8	1.88	45.0	1.77

FERRULE - NO SKIVE

FE2P-MT-NS R3/3TE/R4/R5

21010300



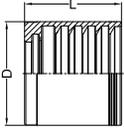
ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010300-030000	R5	-03	DN 05	3/16"	24.0	0.96	20.0	0.79
21010300-040000	R3/3TE/R5	-04	DN 06	1/4"	26.3	1.04	22.0	0.87
21010300-050000	R3/3TE/R5	-05	DN 08	5/16"	26.3	1.04	25.0	0.98
21010300-060000	R3/3TE/R5	-06	DN 10	3/8"	27.2	1.07	25.0	0.98
21010300-080000	R3/3TE/R5	-08	DN 12	1/2"	32.8	1.29	39.0	1.14
21010300-100000	R3/3TE/R5	-10	DN 16	5/8"	35.6	1.40	34.0	1.34
21010300-120000	R3/3TE/R4	-12	DN 19	3/4"	38.6	1.52	38.0	1.50
21010300-160000	R3/3TE/R4	-16	DN 25	1"	45.4	1.79	50.0	1.97
21010300-200000	3TE/R4	-20	DN 32	1.1/4"	49.0	1.93	51.0	2.01
21010300-240000	3TE/R4	-24	DN 38	1.1/2"	56.0	2.20	60.0	2.36
21010300-320000	R4	-32	DN 51	2"	69.0	2.72	76.1	3.00
21010300-400000	R4	-40	DN 63	2.1/2"	85.0	3.35	88.9	3.50
21010300-480000	R4	-48	DN 76	3"	87.0	3.43	104.0	4.09
21010300-560000	R4	-56	DN 89	3.1/2"	98.0	3.86	117.0	4.61
21010300-640000	R4	-64	DN 102	4"	109.0	4.29	131.0	5.16

FERRULES - MULTITYPE - 210 SERIES

FERRULE - NO SKIVE

FE2P-MT-NS R12

21010400

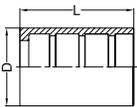


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010400-060000	R12	-06	DN 10	3/8"	28.0	1.10	30.0	1.18
21010400-080000	R12	-08	DN 12	1/2"	33.9	1.33	34.0	1.34
21010400-100000	R12	-10	DN 16	5/8"	36.6	1.44	38.0	1.50
21010400-120000	R12	-12	DN 19	3/4"	39.5	1.56	42.0	1.65
21010400-160000	R12	-16	DN 25	1"	47.5	1.87	50.0	1.97
21010400-200000	R12	-20	DN 32	1.1/4"	50.2	1.98	61.0	2.40

FERRULE - NO SKIVE

FE2P-MT-NS R7/R8

21010750

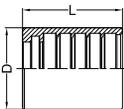


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010750-020000	R7	-02	DN 04	1/8"	27.0	1.06	12.7	0.50
21010750-030000	R7	-03	DN 05	3/16"	27.0	1.06	14.0	0.55
21010750-040000	R7/R8	-04	DN 06	1/4"	29.0	1.14	17.0	0.67
21010750-050000	R7/R8	-05	DN 08	5/16"	30.0	1.18	19.0	0.75
21010750-060000	R7/R8	-06	DN 10	3/8"	31.0	1.22	21.0	0.83
21010750-080000	R7/R8	-08	DN 12	1/2"	34.0	1.34	25.5	1.00
21010750-100000	R7/R8	-10	DN 16	5/8"	36.0	1.42	31.5	1.24
21010750-120000	R7/R8	-12	DN 19	3/4"	43.0	1.69	33.0	1.30
21010750-160000	R7/R8	-16	DN 25	1"	49.6	1.95	41.5	1.63

FERRULE - NO SKIVE

FE2P-MT-NS PLT

21010800



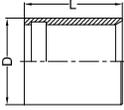
ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010800-040000	PLT	-04	DN 06	1/4"	26.3	1.04	19.0	0.75
21010800-050000	PLT	-05	DN 08	5/16"	26.3	1.04	21.0	0.83
21010800-060000	PLT	-06	DN 10	3/8"	27.2	1.07	22.0	0.87
21010800-080000	PLT	-08	DN 12	1/2"	32.8	1.29	25.0	0.98

FERRULES - MULTITYPE - 210 SERIES

FERRULE - NO SKIVE

FE2P-MT-NS PTFE

21010900



ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010900-030000	PTFE	-03	DN 05	3/16"	25.0	0.98	14.0	0.55
21010900-040000	PTFE	-04	DN 06	1/4"	29.0	1.14	15.0	0.59
21010900-050000	PTFE	-05	DN 08	5/16"	30.0	1.18	17.0	0.67
21010900-060000	PTFE	-06	DN 10	3/8"	31.0	1.22	22.0	0.87
21010900-080000	PTFE	-08	DN 12	1/2"	34.0	1.34	25.0	0.98
21010900-100000	PTFE	-10	DN 16	5/8"	36.0	1.42	30.0	1.18
21010900-120000	PTFE	-12	DN 19	3/4"	40.0	1.57	35.0	1.38
21010900-160000	PTFE	-16	DN 25	1"	46.0	1.81	42.0	1.65
21010900-200000	PTFE	-20	DN 32	1.1/4"	53.0	2.09	50.3	1.98
21010900-240000	PTFE	-24	DN 38	1.1/2"	60.0	2.36	57.0	2.24
21010900-320000	PTFE	-32	DN 51	2"	73.0	2.87	73.0	2.87

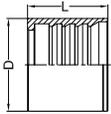
FERRULES - MULTITYPE - 220 SERIES

FERRULE - MULTITYPE - SKIVE

FERRULE SKIVE

FE2P-MT-SK 1SN/R1AT/1ST/R1A

21020100

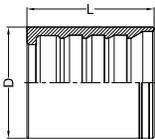


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020100-200000	1SN/R1AT/1ST/R1A	-20	DN 32	1.1/4"	43.8	1.72	20.0	1.97
21020100-240000	1SN/R1AT/1ST/R1A	-24	DN 38	1.1/2"	49.2	1.94	57.0	2.24
21020100-320000	1SN/R1AT/1ST/R1A	-32	DN 51	2"	63.7	2.51	71.0	2.80

FERRULE SKIVE

FE2P-MT-SK R17/1SN/R1AT/2SC/R16/2SN/R2AT/R12

21020250

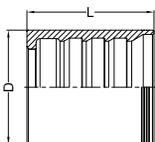


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020250-030000	1SN/R1AT/2SN/R2AT	-03	DN 05	3/16"	24.3	0.96	20.0	0.79
21020250-040000	1SN/R1AT/2SC/R16/2SN/R2AT	-04	DN 06	1/4"	26.3	1.04	21.0	0.83
21020250-050000	1SN/R1AT/2SC/R16/2SN/R2AT	-05	DN 08	5/16"	26.5	1.04	22.0	0.87
21020250-060000	1SN/R1AT/2SC/R16/2SN/R2AT	-06	DN 10	3/8"	28.5	1.12	25.0	0.98
21020250-080000	1SN/R1AT/2SC/R16/2SN/R2AT	-08	DN 12	1/2"	34.7	1.37	29.0	1.14
21020250-100000	R17/1SN/R1AT/2SC/R16/2SN/R2AT/R12	-10	DN 16	5/8"	37.5	1.48	32.0	1.26
21020250-120000	R17/1SN/R1AT/2SC/R16/2SN/R2AT/R12	-12	DN 19	3/4"	41.5	1.63	36.0	1.42
21020250-160000	R17/1SN/R1AT/2SC/R16/2SN/R2AT/R12	-16	DN 25	1"	47.8	1.88	45.0	1.77
21020250-200000	1SN/R1AT/2SN/R2AT/R12	-20	DN 32	1.1/4"	54.7	2.15	28.0	2.28
21020250-240000	1SN/R1AT/2SN/R2AT/R12	-24	DN 38	1.1/2"	61.2	2.41	67.0	2.64
21020250-320000	1SN/R1AT/2SN/R2AT/R12	-32	DN 51	2"	75.2	2.96	82.0	3.23

FERRULE SKIVE

FE2P-MT-SK 4SP/R12

21020400

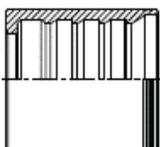


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020400-040000	4SP	-04	DN 06	1/4"	26.3	1.04	22.0	0.87
21020400-060000	4SP/R12	-06	DN 10	3/8"	28.5	1.12	25.0	0.98
21020400-080000	4SP/R12	-08	DN 12	1/2"	34.7	1.37	29.0	1.14
21020400-100000	4SP	-10	DN 16	5/8"	37.5	1.48	33.0	1.30
21020400-120000	4SP	-12	DN 19	3/4"	41.5	1.63	37.0	1.46
21020400-160000	4SP	-16	DN 25	1"	47.8	1.88	45.0	1.77

FERRULE SKIVE

FE2P-MT-SK 4SP/4SH/R13/R15

21020405



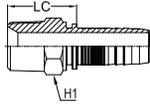
ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020405-120000	4SP/4SH/R13/R15	-12	DN 19	3/4"	40.3	1.59	38.0	1.50
21020405-160000	4SP/4SH/R13/R15	-16	DN 25	1"	47.8	1.88	45.0	2.77
21020405-200000	4SH	-20	DN 32	1 1/4"	60.0	2.36	57.0	2.24

BSPT MALE

ISO 7

HF2P-MT - BSPT M

11004005



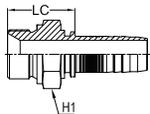
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11004005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	21.8	0.86	-	-	12	-
11004005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.3	0.88	-	-	12	-
11004005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.8	1.06	-	-	17	-
11004005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	28.3	1.11	-	-	19	-
11004005-050400	-05	DN 08	5/16"	-04	1/4"	1/4" X 19	26.8	1.06	-	-	17	-
11004005-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	28.3	1.11	-	-	19	-
11004005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 19	26.8	1.06	-	-	17	-
11004005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.3	1.11	-	-	19	-
11004005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.3	1.31	-	-	22	-
11004005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	29.1	1.15	-	-	19	-
11004005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	34.1	1.34	-	-	22	-
11004005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	35.1	1.38	-	-	27	-
11004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.6	1.40	-	-	27	-
11004005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	45.1	1.78	-	-	36	-
11004005-161200	-16	DN 25	1"	-12	3/4"	3/4" X 14	37.4	1.47	-	-	32	-
11004005-161600	-16	DN 25	1"	-16	1"	1" X 11	45.9	1.81	-	-	36	-
11004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	50.5	1.99	-	-	46	-
11004005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	51.5	2.03	-	-	50	-
11004005-323200	-32	DN 51	2"	-32	2"	2" X 11	57.0	2.24	-	-	65	-

BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF2P-MT - BSPP M

11001005



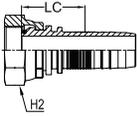
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11001005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	21.3	0.84	-	-	14	-
11001005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	21.7	0.85	-	-	14	-
11001005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.3	1.04	-	-	19	-
11001005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	27.8	1.09	-	-	22	-
11001005-040800	-04	DN 06	1/4"	-08	1/2"	1/2" X 14	31.3	1.23	-	-	27	-
11001005-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	27.8	1.09	-	-	22	-
11001005-050800	-05	DN 08	5/16"	-08	1/2"	1/2" X 14	31.3	1.23	-	-	27	-
11001005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	27.8	1.09	-	-	22	-
11001005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.3	1.23	-	-	27	-
11001005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	28.6	1.13	-	-	22	-
11001005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	32.1	1.26	-	-	27	-
11001005-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	36.1	1.42	-	-	30	-
11001005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	36.1	1.42	-	-	32	-
11001005-100800	-10	DN 16	5/8"	-08	1/2"	1/2" X 14	32.1	1.26	-	-	27	-
11001005-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	36.1	1.42	-	-	30	-
11001005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	36.1	1.42	-	-	32	-
11001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.6	1.44	-	-	32	-
11001005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	41.6	1.64	-	-	41	-
11001005-161600	-16	DN 25	1"	-16	1"	1" X 11	42.4	1.67	-	-	41	-
11001005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	46.4	1.83	-	-	50	-
11001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	48.0	1.89	-	-	50	-
11001005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	51.0	2.01	-	-	55	-
11001005-323200	-32	DN 51	2"	-32	2"	2" X 11	56.5	2.22	-	-	70	-

BSPP 60° CONE O-RING FEMALE SWIVEL

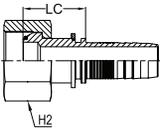
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS

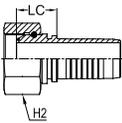
11002001



11002002



11002003



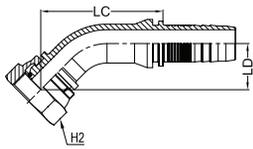
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11002001-020400	-02	DN 04	1/8"	-04	1/4"	1/4" X 19	17.0	0.67	-	-	-	19
11001001-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	14.8	0.58	-	-	-	14
11002001-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 19	16.8	0.66	-	-	-	19
11001001-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	15.3	0.60	-	-	-	14
11002001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.3	0.68	-	-	-	19
11002002-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	23.3	0.92	-	-	-	22
11002001-050400	-05	DN 08	5/16"	-04	1/4"	1/4" X 19	17.3	0.68	-	-	-	19
11002002-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	23.3	0.92	-	-	-	22
11002001-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 19	17.3	0.68	-	-	-	19
11002002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	23.3	0.92	-	-	-	22
11002002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	24.3	0.96	-	-	-	27
11002001-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	18.6	0.73	-	-	-	22
11002002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	25.1	0.99	-	-	-	27
11002002-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	28.4	1.12	-	-	-	27
11002002-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	29.0	1.14	-	-	-	32
11002001-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	18.1	0.71	-	-	-	27
11002002-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	29.0	1.14	-	-	-	32
11002001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	21.6	0.85	-	-	-	32
11002002-121600	-12	DN 19	3/4"	-16	1"	1" X 11	34.0	1.34	-	-	-	38
11002001-161600	-16	DN 25	1"	-16	1"	1" X 11	24.4	0.96	-	-	-	38
11002002-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	39.4	1.55	-	-	-	50
11002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	33.0	1.30	-	-	-	50
11002002-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	41.9	1.65	-	-	-	55
11002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	34.8	1.37	-	-	-	55
11002002-243200	-24	DN 38	1.1/2"	-32	2"	2" X 11	47.0	1.85	-	-	-	70
11002003-283200	-28	DN 45	1.3/4"	-32	2"	2" X 11	35.0	1.38	-	-	-	70
11002003-323200	-32	DN 51	2"	-32	2"	2" X 11	35.0	1.38	-	-	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

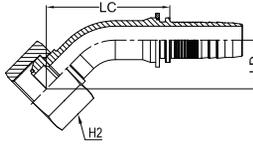
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS 45

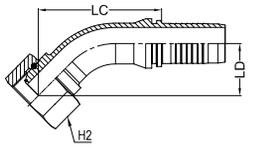
11002401



11002402



11002403



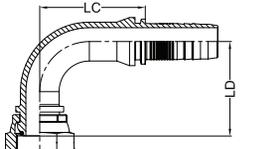
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11002401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	40.1	1.58	17.2	0.68	-	19
11002402-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	43.8	1.72	19.4	0.76	-	22
11002402-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	44.7	1.76	19.7	0.78	-	22
11002402-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	44.5	1.75	19.7	0.78	-	22
11002402-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	44.2	1.74	19.4	0.76	-	27
11002401-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	47.5	1.87	20.9	0.82	-	22
11002402-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	49.6	1.95	21.6	0.85	-	27
11002402-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	51.8	2.04	23.4	0.92	-	27
11002402-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	50.5	1.99	21.9	0.86	-	32
11002401-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	57.4	2.26	22.2	0.87	-	27
11002402-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	60.7	2.39	24.2	0.95	-	32
11002401-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	67.9	2.67	26.3	1.04	-	32
11002402-121600	-12	DN 19	3/4"	-16	1"	1" X 11	67.5	2.66	26.6	1.05	-	38
11002401-161600	-16	DN 25	1"	-16	1"	1" X 11	80.4	3.17	31.5	1.24	-	38
11002402-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	81.7	3.22	33.6	1.32	-	50
11002403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	100.5	3.96	42.2	1.66	-	50
11002402-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	95.6	3.76	38.0	1.50	-	55
11002403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	117.7	4.63	47.8	1.88	-	55
11002402-243200	-24	DN 38	1.1/2"	-32	2"	2" X 11	110.0	4.33	42.3	1.67	-	70
11002403-323200	-32	DN 51	2"	-32	2"	2" X 11	136.6	5.38	54.7	2.15	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

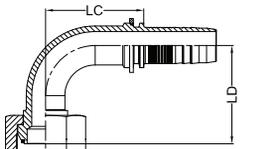
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS 90

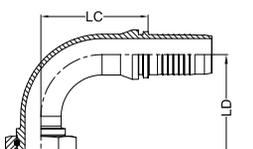
11002901



11002902



11002903



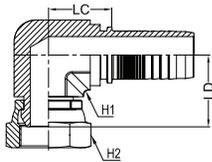
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11001901-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	27.7	1.09	28.0	1.10	-	14
11002901-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 19	27.7	1.09	32.0	1.26	-	19
11002901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.4	1.20	32.0	1.26	-	19
11002902-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	32.1	1.26	35.0	1.38	-	22
11002902-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	33.3	1.31	36.0	1.42	-	22
11002902-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	33.0	1.30	36.0	1.42	-	22
11002902-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.1	1.30	35.5	1.40	-	27
11002902-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	38.0	1.50	40.5	1.59	-	27
11002902-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	38.4	1.51	43.0	1.69	-	27
11002902-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	38.5	1.52	40.9	1.61	-	32
11002901-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	49.8	1.96	46.0	1.81	-	27
11002902-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	51.1	2.01	48.9	1.93	-	32
11002901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	57.5	2.26	53.0	2.09	-	32
11002902-121600	-12	DN 19	3/4"	-16	1"	1" X 11	56.7	2.23	53.4	2.10	-	38
11002901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.3	2.85	68.0	2.68	-	38
11002902-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	71.5	2.81	71.0	2.80	-	50
11002903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	87.6	3.45	89.0	3.50	-	50
11002902-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	86.9	3.42	83.0	3.27	-	55
11002903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	105.0	4.13	102.8	4.05	-	55
11002902-243200	-24	DN 38	1.1/2"	-32	2"	2" X 11	102.9	4.05	95.0	3.74	-	70
11002903-323200	-32	DN 51	2"	-32	2"	2" X 11	127.6	5.02	123.0	4.84	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 90° - COMPACT

BS5200 / ISO 12151-6

HF2P-MT - BSPP FS 90 CP

110029C1

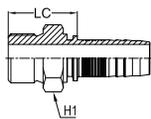


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110029C1-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.5	0.69	18.5	0.73	11	19
110029C1-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	20.0	0.79	24.0	0.94	16	22
110029C1-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	23.5	0.93	28.5	1.12	19	27
110029C1-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	23.5	0.93	28.5	1.12	19	27
110029C1-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	27.5	1.08	33.0	1.30	27	32
110029C1-161600	-16	DN 25	1"	-16	1"	1" X 11	43.0	1.69	38.5	1.52	33	38

BSP FLAT SEAT MALE

HF2P-MT - BSPP FSEAT M

11003005

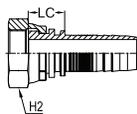


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11003005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.3	1.04	-	-	19	-
11003005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	27.8	1.09	-	-	22	-
11003005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.3	1.23	-	-	27	-
11003005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	32.1	1.26	-	-	27	-
11003005-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	36.1	1.42	-	-	30	-
11003005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.6	1.44	-	-	32	-
11003005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	41.6	1.64	-	-	41	-
11003005-161600	-16	DN 25	1"	-16	1"	1" X 11	42.4	1.67	-	-	41	-

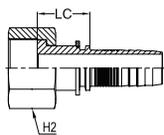
BSPP FLAT SEAT FEMALE SWIVEL

HF2P-MT - BSPP FSEAT FS

11003001



11003002



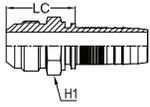
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11003002-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.3	0.68	-	-	19	-
11003002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	19.8	0.78	-	-	22	-
11003002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	19.8	0.78	-	-	27	-
11003002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	20.6	0.81	-	-	27	-
11003002-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	25.1	0.99	-	-	32	-
11003001-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	17.8	0.70	-	-	27	-
11003001-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	18.6	0.73	-	-	32	-
11003001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	19.1	0.75	-	-	32	-
11003001-121600	-12	DN 19	3/4"	-16	1"	1" X 11	19.6	0.77	-	-	38	-
11003001-161600	-16	DN 25	1"	-16	1"	1" X 11	20.4	0.80	-	-	38	-

JIC 37° CONE MALE

SAE J516 / ISO 12151-5

HF2P-MT - JIC M

11011005



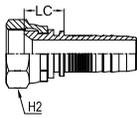
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011005-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	24.8	0.98	-	-	12	-
11011005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	25.3	1.00	-	-	12	-
11011005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	25.3	1.00	-	-	14	-
11011005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	26.3	1.04	-	-	17	-
11011005-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	25.3	1.00	-	-	14	-
11011005-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	26.3	1.04	-	-	17	-
11011005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	26.3	1.04	-	-	17	-
11011005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	29.8	1.17	-	-	19	-
11011005-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	33.8	1.33	-	-	24	-
11011005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	30.6	1.20	-	-	19	-
11011005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	34.6	1.36	-	-	24	-
11011005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	37.1	1.46	-	-	27	-
11011005-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	34.6	1.36	-	-	24	-
11011005-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	37.1	1.46	-	-	27	-
11011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	37.6	1.48	-	-	27	-
11011005-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	40.1	1.58	-	-	32	-
11011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	42.6	1.68	-	-	36	-
11011005-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	40.4	1.59	-	-	32	-
11011005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	43.4	1.71	-	-	36	-
11011005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	46.9	1.85	-	-	46	-
11011005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	48.5	1.91	-	-	46	-
11011005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	52.5	2.07	-	-	50	-
11011005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	52.5	2.07	-	-	50	-
11011005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	62.0	2.44	-	-	65	-

JIC 37° CONE SEAT FEMALE SWIVEL

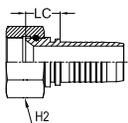
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS

11011001



11011003



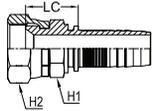
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011001-020400	-02	DN 04	1/8"	-04	1/4"	7/16" X 20	14.5	0.57	-	-	-	15
11011001-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	14.3	0.56	-	-	-	15
11011001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.8	0.58	-	-	-	15
11011001-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	15.3	0.60	-	-	-	17
11011001-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	15.3	0.60	-	-	-	19
11011001-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	15.3	0.60	-	-	-	17
11011001-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	15.3	0.60	-	-	-	19
11011001-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	15.3	0.60	-	-	-	19
11011001-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	17.8	0.70	-	-	-	25
11011001-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	19.8	0.78	-	-	-	27
11011001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	18.6	0.73	-	-	-	25
11011001-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	20.6	0.81	-	-	-	27
11011001-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	21.1	0.83	-	-	-	32
11011001-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	20.6	0.81	-	-	-	27
11011001-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	21.1	0.83	-	-	-	32
11011001-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	21.1	0.83	-	-	-	27
11011001-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	21.6	0.85	-	-	-	32
11011001-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	20.9	0.82	-	-	-	36
11011001-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	23.1	0.91	-	-	-	38
11011001-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	22.4	0.88	-	-	-	32
11011001-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	23.9	0.94	-	-	-	38
11011003-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	26.5	1.04	-	-	-	50
11011003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	28.1	1.11	-	-	-	50
11011003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	30.4	1.20	-	-	-	55
11011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	30.4	1.20	-	-	-	55
11011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	33.0	1.30	-	-	-	70

JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

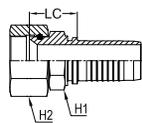
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS DH

110110H1



110110H3



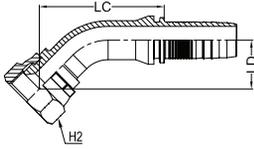
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110110H1-020400	-02	DN 04	1/8"	-04	1/4"	7/16" X 20	19.5	0.77	-	-	12	15
110110H1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	19.3	0.76	-	-	12	15
110110H1-030600	-03	DN 05	3/16"	-06	3/8"	9/16" X 18	19.8	0.78	-	-	14	19
110110H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.8	0.78	-	-	14	15
110110H1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	20.3	0.80	-	-	14	17
110110H1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	20.3	0.80	-	-	14	19
110110H1-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	20.3	0.80	-	-	14	17
110110H1-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	20.3	0.80	-	-	14	19
110110H1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	21.3	0.84	-	-	17	19
110110H1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	20.5	0.81	-	-	19	25
110110H1-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	25.8	1.02	-	-	22	27
110110H1-080600	-08	DN 12	1/2"	-06	3/8"	9/16" X 18	23.1	0.91	-	-	19	19
110110H1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	25.6	1.01	-	-	19	25
110110H1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	26.6	1.05	-	-	22	27
110110H1-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	28.1	1.11	-	-	25	32
110110H1-100600	-10	DN 16	5/8"	-06	3/8"	9/16" X 18	24.1	0.95	-	-	24	19
110110H1-100800	-10	DN 16	5/8"	-08	1/2"	3/4" X 16	26.6	1.05	-	-	24	25
110110H1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	27.6	1.09	-	-	24	27
110110H1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	28.1	1.11	-	-	25	32
110110H1-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	28.1	1.11	-	-	27	27
110110H1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	28.6	1.13	-	-	27	32
110110H1-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	29.9	1.18	-	-	32	36
110110H1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	32.1	1.26	-	-	32	38
110110H1-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	31.4	1.24	-	-	32	32
110110H1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	32.9	1.30	-	-	32	38
110110H1-201600	-20	DN 32	1.1/4"	-16	1"	1.5/16" X 12	37.5	1.48	-	-	41	38
110110H3-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	37.5	1.48	-	-	41	50
110110H3-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	39.1	1.54	-	-	41	50
110110H3-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	43.4	1.71	-	-	50	55
110110H3-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	43.4	1.71	-	-	50	55
110110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	49.0	1.93	-	-	65	70

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

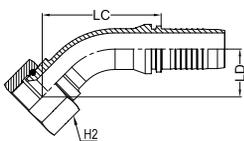
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 45

11011401



11011403



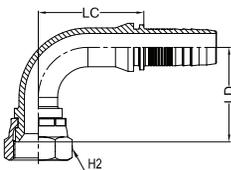
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011401-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	36.1	1.42	10.0	0.39	-	15
11011401-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	38.3	1.51	10.0	0.39	-	15
11011401-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	38.7	1.52	10.0	0.39	-	17
11011401-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	38.7	1.52	11.0	0.43	-	19
11011401-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	39.4	1.55	10.0	0.39	-	17
11011401-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	39.4	1.55	11.0	0.43	-	19
11011401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.7	1.56	11.0	0.43	-	19
11011401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.2	1.66	15.0	0.59	-	25
11011401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	47.5	1.87	15.0	0.59	-	25
11011401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	48.2	1.90	16.0	0.63	-	27
11011401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	50.0	1.97	21.0	0.83	-	32
11011401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	59.1	2.33	16.0	0.63	-	27
11011401-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	60.9	2.40	21.0	0.83	-	32
11011401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.9	2.67	25.8	0.83	-	32
11011401-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	67.4	2.65	24.0	1.02	-	36
11011401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	69.0	2.72	24.0	0.94	-	38
11011401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	80.0	3.15	25.0	0.94	-	38
11011403-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.3	3.28	25.0	0.98	-	50
11011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	97.1	3.82	25.0	0.98	-	50
11011403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	100.1	3.94	27.0	1.06	-	55
11011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	114.6	4.51	27.0	1.06	-	55
11011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	135.2	5.32	34.0	1.34	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - SHORT DROP

SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90 SD

110119S1



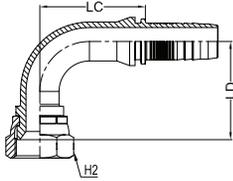
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119S1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	26.7	1.05	21.0	0.83	-	15
110119S1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	27.4	1.08	21.0	0.83	-	15
110119S1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	27.4	1.08	21.0	0.83	-	17
110119S1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	27.4	1.08	24.5	0.96	-	19
110119S1-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	29.8	1.17	23.0	0.91	-	19
110119S1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.7	1.25	23.0	0.91	-	19
110119S1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.7	1.25	29.0	1.14	-	25
110119S1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	36.5	1.44	29.0	1.14	-	25
110119S1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	32.0	1.26	-	27
110119S1-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	36.5	1.44	48.0	1.89	-	32
110119S1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	44.8	1.76	32.0	1.26	-	27
110119S1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	44.8	1.76	48.0	1.89	-	32
110119S1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	52.5	2.07	48.0	1.89	-	32
110119S1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	52.5	2.07	56.0	2.20	-	38
110119S1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	67.3	2.65	56.0	2.20	-	38

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

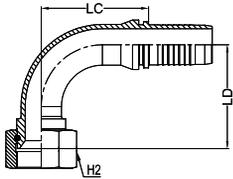
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90

11011901



11011903



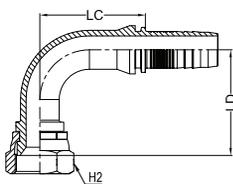
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011901-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	27.7	1.09	32.0	1.26	-	15
11011901-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.4	1.20	32.0	1.26	-	15
11011901-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	30.4	1.20	32.0	1.26	-	17
11011901-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	30.4	1.20	38.0	1.50	-	19
11011901-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	31.4	1.24	31.0	1.26	-	17
11011901-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	31.4	1.24	38.0	1.50	-	19
11011901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.7	1.25	38.0	1.50	-	19
11011901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.7	1.25	41.0	1.61	-	25
11011901-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	47.0	1.85	-	27
11011901-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.8	1.96	48.5	1.85	-	27
11011901-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	49.8	1.96	58.0	2.28	-	32
11011901-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.5	2.26	58.0	2.28	-	32
11011901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	57.5	2.26	71.0	2.80	-	38
11011901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.3	2.85	71.0	2.80	-	38
11011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.3	2.85	78.0	3.07	-	50
11011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	87.6	3.45	78.0	3.07	-	50
11011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	87.6	3.45	86.0	3.39	-	55
11011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	105.0	4.13	86.0	3.39	-	55
11011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	127.6	5.02	140.0	5.51	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - LONG DROP

SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90 LD

110119L1



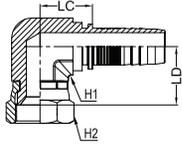
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119L1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	27.7	1.09	46.0	1.81	-	15
110119L1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.4	1.20	46.0	1.81	-	15
110119L1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	30.4	1.20	46.0	1.81	-	17
110119L1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	30.4	1.20	54.0	2.13	-	19
110119L1-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	31.4	1.24	54.0	2.13	-	19
110119L1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.7	1.25	54.0	2.13	-	19
110119L1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.7	1.25	64.0	2.52	-	25
110119L1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	36.5	1.44	64.0	2.52	-	25
110119L1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	70.0	2.76	-	27
110119L1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.8	1.96	70.0	2.76	-	27
110119L1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	49.8	1.96	95.0	3.78	-	32
110119L1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.5	2.26	95.0	3.78	-	32
110119L1-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	57.5	2.26	95.0	3.74	-	36
110119L1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	57.5	2.26	114.0	4.49	-	38
110119L1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.3	2.85	114.0	4.49	-	38

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - COMPACT

SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90 CP

110119C1



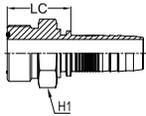
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119C1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	17.5	0.69	16.0	0.63	11	15
110119C1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	20.0	0.79	21.5	0.85	16	19
110119C1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	20.0	0.79	21.5	0.85	16	19
110119C1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	23.5	0.93	27.5	1.08	19	25
110119C1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	23.5	0.93	27.5	1.08	19	25
110119C1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	24.5	0.96	30.5	1.20	22	27
110119C1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	27.5	1.08	33.0	1.30	27	32
110119C1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	43.0	1.69	38.0	1.50	33	38

ORFS MALE

HF2P-MT - ORFS M

SAE J516 / ISO 12151-1

11031005



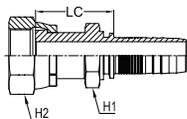
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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11031005-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	22.3	0.88	-	-	17	-
11031005-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	24.3	0.96	-	-	19	-
11031005-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	24.3	0.96	-	-	19	-
11031005-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	26.3	1.04	-	-	22	-
11031005-061000	-06	DN 10	3/8"	-10	5/8"	1" X 14	29.8	1.17	-	-	27	-
11031005-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	27.1	1.07	-	-	22	-
11031005-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	30.6	1.20	-	-	27	-
11031005-081200	-08	DN 12	1/2"	-12	3/4"	1.3/16" X 12	34.1	1.34	-	-	32	-
11031005-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	30.6	1.20	-	-	27	-
11031005-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	34.1	1.34	-	-	32	-
11031005-121000	-12	DN 19	3/4"	-10	5/8"	1" X 14	31.1	1.22	-	-	27	-
11031005-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	34.6	1.36	-	-	32	-
11031005-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	38.1	1.50	-	-	38	-
11031005-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	37.9	1.49	-	-	38	-
11031005-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	39.9	1.57	-	-	46	-
11031005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	41.5	1.63	-	-	46	-

ORFS FEMALE SWIVEL

HF2P-MT - ORFS FS

SAE J516 / ISO 12151-1

11031001



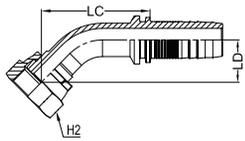
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031001-030400	-03	DN 05	3/16"	-04	1/4"	9/16" X 18	26.8	1.06	-	-	14	17
11031001-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	27.3	1.07	-	-	14	17
11031001-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	30.3	1.19	-	-	17	22
11031001-040800	-04	DN 06	1/4"	-08	1/2"	13/16" X 16	35.3	1.39	-	-	22	24
11031001-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	30.3	1.19	-	-	17	22
11031001-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	30.3	1.19	-	-	17	22
11031001-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	35.3	1.39	-	-	22	24
11031001-080600	-08	DN 12	1/2"	-06	3/8"	11/16" X 16	32.1	1.26	-	-	19	22
11031001-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	36.1	1.42	-	-	22	24
11031001-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	39.6	1.56	-	-	24	30
11031001-081200	-08	DN 12	1/2"	-12	3/4"	1.3/16" X 12	42.1	1.66	-	-	30	36
11031001-100800	-10	DN 16	5/8"	-08	1/2"	13/16" X 16	37.1	1.46	-	-	24	24
11031001-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	39.6	1.56	-	-	24	30
11031001-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	42.1	1.66	-	-	30	36
11031001-121000	-12	DN 19	3/4"	-10	5/8"	1" X 14	40.1	1.58	-	-	27	30
11031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	42.6	1.68	-	-	30	36
11031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	48.6	1.91	-	-	36	41
11031001-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	45.4	1.79	-	-	32	36
11031001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	49.4	1.94	-	-	36	41
11031001-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	50.4	1.98	-	-	41	50
11031001-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	52.0	2.05	-	-	41	50
11031001-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	56.5	2.22	-	-	50	60

ORFS FEMALE SWIVEL - 45°

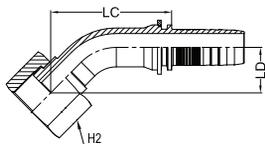
SAE J516 / ISO 12151-1

HF2P-MT - ORFS FS 45

11031401



11031402



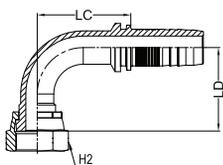
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031402-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	37.8	1.49	10.0	0.39	-	17
11031402-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	39.6	1.56	11.0	0.43	-	22
11031402-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	40.5	1.59	11.0	0.43	-	22
11031402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.3	1.59	11.0	0.43	-	22
11031402-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	41.0	1.61	16.2	0.64	-	24
11031401-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	45.0	1.77	15.0	0.59	-	24
11031402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	49.1	1.93	16.0	0.63	-	30
11031402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	59.3	2.33	16.0	0.63	-	30
11031402-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	60.3	2.37	21.0	0.83	-	36
11031402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.8	2.59	21.0	0.83	-	36
11031402-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	66.2	2.61	24.9	0.98	-	41
11031402-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	76.8	3.02	24.0	0.94	-	41
11031402-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	76.8	3.02	25.0	0.98	-	50
11031402-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	89.6	3.53	25.0	0.98	-	50
11031402-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	89.6	3.53	27.0	1.06	-	60
11031402-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	101.6	4.00	27.0	1.06	-	60

ORFS FEMALE SWIVEL - 90° - SHORT DROP

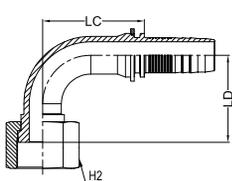
SAE J516 / ISO 12151-1

HF2P-MT - ORFS FS 90 SD

110319S1



110319S2



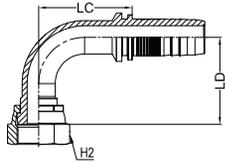
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110319S2-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	29.1	1.15	21.0	0.83	-	17
110319S2-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	29.1	1.15	23.5	0.93	-	22
110319S2-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	32.3	1.27	24.0	0.94	-	22
110319S1-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.1	1.30	23.0	0.91	-	22
110319S1-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.1	1.30	28.0	1.10	-	24
110319S1-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	36.5	1.44	29.0	1.14	-	24
110319S2-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	40.5	1.59	32.0	1.26	-	30
110319S1-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	46.1	1.81	32.0	1.26	-	30
110319S2-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	46.1	1.81	48.0	1.89	-	36
110319S1-121000	-12	DN 19	3/4"	-10	5/8"	1" X 14	45.9	1.81	32.0	1.26	-	30
110319S1-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	52.1	2.05	48.0	1.89	-	36
110319S2-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	52.1	2.05	56.0	2.20	-	41
110319S1-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	56.9	2.24	48.0	1.89	-	36
110319S2-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	66.5	2.62	57.0	2.24	-	41
110319S2-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	66.5	2.62	64.0	2.52	-	50
110319S2-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	80.9	3.19	64.0	2.52	-	50
110319S2-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	80.9	3.19	69.0	2.72	-	60
110319S2-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	93.8	3.69	69.0	2.72	-	60

ORFS FEMALE SWIVEL - 90°

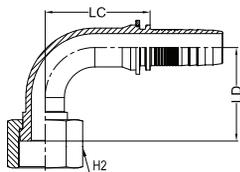
HF2P-MT - ORFS FS 90

SAE J516 / ISO 12151-1

11031901



11031902



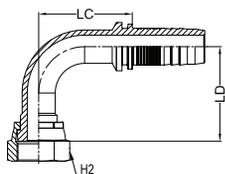
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031902-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.1	1.26	32.0	1.26	-	17
11031902-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.1	1.26	38.0	1.50	-	22
11031902-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	33.3	1.31	38.0	1.50	-	22
11031902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.1	1.30	38.0	1.50	-	22
11031902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.1	1.30	41.0	1.61	-	24
11031901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	36.5	1.44	41.0	1.61	-	24
11031902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	38.5	1.52	47.0	1.85	-	30
11031902-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	51.1	2.01	47.0	1.85	-	30
11031902-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	57.1	2.25	58.0	2.28	-	36
11031902-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	57.1	2.25	58.0	2.28	-	36
11031902-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	71.5	2.81	71.0	2.80	-	41
11031902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.5	2.81	71.0	2.80	-	41
11031902-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	71.5	2.81	78.0	3.07	-	50
11031902-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.9	3.38	78.0	3.07	-	50
11031902-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	85.9	3.38	86.0	3.39	-	60
11031902-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	100.8	3.97	86.0	3.39	-	60

ORFS FEMALE SWIVEL - 90° - LONG DROP

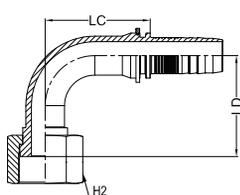
HF2P-MT - ORFS FS 90 LD

SAE J516 / ISO 12151-1

110319L1



110319L2



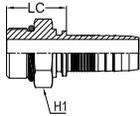
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110319L2-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.1	1.26	46.0	1.81	-	17
110319L2-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.1	1.26	54.0	2.13	-	22
110319L2-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	33.3	1.31	54.0	2.13	-	22
110319L2-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.1	1.30	54.0	2.13	-	22
110319L2-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.1	1.30	64.0	2.52	-	24
110319L1-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	36.5	1.44	64.0	2.52	-	24
110319L2-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	38.5	1.52	70.0	2.76	-	30
110319L2-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	51.1	2.01	70.0	2.76	-	30
110319L2-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	57.1	2.25	96.0	3.78	-	36
110319L2-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.5	2.81	114.0	4.49	-	41
110319L2-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	71.5	2.81	129.0	5.08	-	50
110319L2-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.9	3.38	129.0	5.08	-	50
110319L2-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	85.9	3.38	141.0	5.55	-	60
110319L2-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	100.8	3.97	141.0	5.55	-	60

SAE O-RING BOSS MALE

SAE J516 / ISO 11926

HF2P-MT - SAE ORB M

11012005



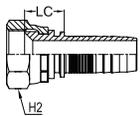
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11012005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	20.3	0.80	-	-	14	-
11012005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	21.3	0.84	-	-	16	-
11012005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	22.3	0.88	-	-	17	-
11012005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	23.3	0.92	-	-	19	-
11012005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	24.3	0.96	-	-	22	-
11012005-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	26.8	1.06	-	-	27	-
11012005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	25.1	0.99	-	-	22	-
11012005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	27.6	1.09	-	-	27	-
11012005-100800	-10	DN 16	5/8"	-08	1/2"	3/4" X 16	25.1	0.99	-	-	22	-
11012005-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	27.6	1.09	-	-	27	-
11012005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	32.1	1.26	-	-	32	-
11012005-081200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	32.1	1.26	-	-	32	-
11012005-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	28.1	1.11	-	-	27	-
11012005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	32.6	1.28	-	-	32	-
11012005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	34.6	1.36	-	-	38	-
11012005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	35.4	1.39	-	-	38	-
11012005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	39.0	1.54	-	-	46	-
11012005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	40.0	1.57	-	-	50	-

SAE 45° SEAT FEMALE SWIVEL

SAE J516 / ISO 11926

HF2P-MT - SAE 45 SEAT FS

11013001



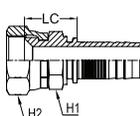
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11013001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.8	0.58	-	-	-	15
11013001-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	16.3	0.64	-	-	-	22
11013001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	18.6	0.73	-	-	-	25
11013001-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	20.6	0.81	-	-	-	27
11013001-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 14	21.6	0.85	-	-	-	32

SAE 45° SEAT FEMALE SWIVEL DOUBLE HEXAGON

SAE J516 / ISO 11926

HF2P-MT - SAE 45 SEAT DH FS

110130H1



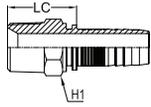
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110130H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.8	0.78	-	-	14	15
110130H1-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	22.3	0.88	-	-	17	22
110130H1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	25.6	1.01	-	-	19	25
110130H1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 14	28.1	1.11	-	-	27	32

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF2P-MT - NPTF M

11023005



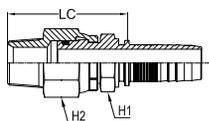
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023005-020400	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	27.0	1.06	-	-	17	-
11023005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 27	21.3	0.84	-	-	12	-
11023005-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 18	26.8	1.06	-	-	17	-
11023005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	21.8	0.86	-	-	12	-
11023005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	27.3	1.07	-	-	17	-
11023005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	29.3	1.15	-	-	19	-
11023005-040800	-04	DN 06	1/4"	-08	1/2"	1/2" X 14	32.8	1.29	-	-	22	-
11023005-050400	-05	DN 08	5/16"	-04	1/4"	1/4" X 18	27.3	1.07	-	-	17	-
11023005-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 18	29.3	1.15	-	-	19	-
11023005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	27.3	1.07	-	-	17	-
11023005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	29.3	1.15	-	-	19	-
11023005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	32.8	1.29	-	-	22	-
11023005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 18	30.1	1.19	-	-	19	-
11023005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	33.6	1.32	-	-	22	-
11023005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	34.6	1.36	-	-	27	-
11023005-100800	-10	DN 16	5/8"	-08	1/2"	1/2" X 14	34.6	1.36	-	-	24	-
11023005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	34.6	1.36	-	-	27	-
11023005-120800	-12	DN 19	3/4"	-08	1/2"	1/2" X 14	35.1	1.38	-	-	27	-
11023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.1	1.38	-	-	27	-
11023005-121600	-12	DN 19	3/4"	-16	1"	1" X 11.5	45.1	1.78	-	-	36	-
11023005-161200	-16	DN 25	1"	-12	3/4"	3/4" X 14	39.9	1.57	-	-	36	-
11023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	45.9	1.81	-	-	36	-
11023005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11.5	48.9	1.93	-	-	46	-
11023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	50.5	1.99	-	-	46	-
11023005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11.5	52.5	2.07	-	-	50	-
11023005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	52.5	2.07	-	-	50	-
11023005-243200	-24	DN 38	1.1/2"	-32	2"	2" X 11.5	55.5	2.19	-	-	65	-
11023005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	55.5	2.19	-	-	65	-

NPTF 60° CONE SEAT MALE SWIVEL

SAE J516 / J514

HF2P-MT - NPTF MS

11023008



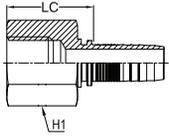
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023008-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	51.9	2.04	-	-	12	19
11023008-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	56.8	2.24	-	-	17	22
11023008-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	52.9	2.08	-	-	17	19
11023008-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	56.8	2.24	-	-	17	22
11023008-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	60.8	2.39	-	-	22	27
11023008-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 18	58.6	2.31	-	-	19	22
11023008-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	61.6	2.43	-	-	22	27
11023008-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	66.2	2.61	-	-	27	32
11023008-161600	-16	DN 25	1"	-16	1"	1" X 11.5	71.4	2.81	-	-	36	41

NPTF 60° CONE FEMALE FIXED

SAE J516 / J514

HF2P-MT - NPTF FF

11023004



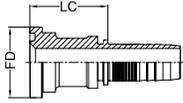
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023004-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	22.3	0.88	-	-	17	-
11023004-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	26.8	1.06	-	-	19	-
11023004-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	28.3	1.11	-	-	24	-
11023004-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	35.1	1.38	-	-	30	-
11023004-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.5	1.44	-	-	36	-
11023004-161600	-16	DN 25	1"	-16	1"	1" X 11.5	43.6	1.72	-	-	41	-

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF2P-MT - SAE 61 3K FL

11041000



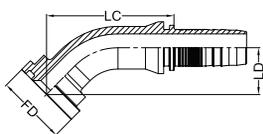
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041000-080800	-08	DN 12	1/2"	-08	1/2"		41.0	1.61	-	-	30.18	1.19
11041000-081200	-08	DN 12	1/2"	-12	3/4"		42.0	1.65	-	-	38.10	1.50
11041000-101200	-10	DN 16	5/8"	-12	3/4"		42.2	1.66	-	-	38.10	1.50
11041000-101600	-10	DN 16	5/8"	-16	1"		50.1	1.97	-	-	44.45	1.75
11041000-121200	-12	DN 19	3/4"	-12	3/4"		42.5	1.67	-	-	38.10	1.50
11041000-121600	-12	DN 19	3/4"	-16	1"		50.5	1.99	-	-	44.45	1.75
11041000-122000	-12	DN 19	3/4"	-20	1.1/4"		53.9	2.12	-	-	50.80	2.00
11041000-161600	-16	DN 25	1"	-16	1"		51.4	2.02	-	-	44.45	1.75
11041000-162000	-16	DN 25	1"	-20	1.1/4"		53.9	2.12	-	-	50.80	2.00
11041000-162400	-16	DN 25	1"	-24	1.1/2"		58.5	2.30	-	-	60.33	2.38
11041000-201600	-20	DN 32	1.1/4"	-16	1"		53.0	2.09	-	-	44.45	1.75
11041000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		55.5	2.19	-	-	50.80	2.00
11041000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		58.5	2.30	-	-	60.33	2.38
11041000-242000	-24	DN 38	1.1/2"	-20	1.1/4"		71.0	2.80	-	-	50.80	2.00
11041000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		58.5	2.30	-	-	60.33	2.38
11041000-243200	-24	DN 38	1.1/2"	-32	2"		70.0	2.76	-	-	71.42	2.81
11041000-322400	-32	DN 51	2"	-24	1.1/2"		66.0	2.60	-	-	60.33	2.38
11041000-323200	-32	DN 51	2"	-32	2"		70.0	2.76	-	-	71.42	2.81
11041000-324000	-32	DN 51	2"	-40	2.1/2"		83.0	3.27	-	-	84.12	3.31
11041000-403200	-40	DN 63	2.1/2"	-32	2"		86.5	3.41	-	-	71.42	2.81
11041000-404000	-40	DN 63	2.1/2"	-40	2.1/2"		57.0	2.24	-	-	84.12	3.31
11041000-404800	-40	DN 63	2.1/2"	-48	3"		49.0	1.93	-	-	101.60	4.00
11041000-484800	-48	DN 76	3"	-48	3"		75.0	2.95	-	-	101.60	4.00
11041000-646400	-64	DN 102	4"	-64	4"		150.0	5.91	-	-	127.00	5.00

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF2P-MT - SAE 61 3K FL 45

11041400



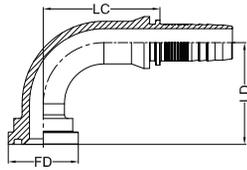
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041400-080800	-08	DN 12	1/2"	-08	1/2"		51.1	2.01	21.9	0.86	30.18	1.19
11041400-081200	-08	DN 12	1/2"	-12	3/4"		51.8	2.04	22.6	0.89	38.10	1.50
11041400-101200	-10	DN 16	5/8"	-12	3/4"		58.1	2.29	22.9	0.90	38.10	1.50
11041400-121200	-12	DN 19	3/4"	-12	3/4"		69.4	2.73	25.2	0.99	38.10	1.50
11041400-121600	-12	DN 19	3/4"	-16	1"		69.4	2.73	25.2	0.99	44.45	1.75
11041400-122000	-12	DN 19	3/4"	-20	1.1/4"		69.4	2.73	25.2	0.99	50.80	2.00
11041400-161600	-16	DN 25	1"	-16	1"		80.2	3.16	27.3	1.07	44.45	1.75
11041400-162000	-16	DN 25	1"	-20	1.1/4"		80.2	3.16	27.3	1.07	50.80	2.00
11041400-201600	-20	DN 32	1.1/4"	-16	1"		89.9	3.54	31.6	1.24	44.45	1.75
11041400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		89.9	3.54	31.6	1.24	50.80	2.00
11041400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		91.4	3.60	33.0	1.30	60.33	2.38
11041400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		107.2	4.22	37.4	1.47	60.33	2.38
11041400-243200	-24	DN 38	1.1/2"	-32	2"		107.2	4.22	37.4	1.47	71.42	2.81
11041400-322400	-32	DN 51	2"	-24	1.1/2"		116.3	4.58	37.4	1.47	60.33	2.38
11041400-323200	-32	DN 51	2"	-32	2"		128.1	5.04	45.4	1.79	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

HF2P-MT - SAE 61 3K FL 90

11041900



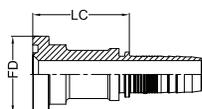
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041900-080800	-08	DN 12	1/2"	-08	1/2"		43.3	1.70	45.0	1.77	30.18	1.19
11041900-081200	-08	DN 12	1/2"	-12	3/4"		43.3	1.70	46.0	1.81	38.10	1.50
11041900-101200	-10	DN 16	5/8"	-12	3/4"		49.8	1.96	47.0	1.85	38.10	1.50
11041900-101600	-10	DN 16	5/8"	-16	1"		63.5	2.50	55.0	2.17	44.45	1.75
11041900-121200	-12	DN 19	3/4"	-12	3/4"		63.5	2.50	55.0	2.17	38.10	1.50
11041900-121600	-12	DN 19	3/4"	-16	1"		63.5	2.50	55.0	2.17	44.45	1.75
11041900-122000	-12	DN 19	3/4"	-20	1.1/4"		76.4	3.01	62.0	2.44	50.80	2.00
11041900-161600	-16	DN 25	1"	-16	1"		76.4	3.01	62.0	2.44	44.45	1.75
11041900-162000	-16	DN 25	1"	-20	1.1/4"		76.4	3.01	62.0	2.44	50.80	2.00
11041900-162400	-16	DN 25	1"	-24	1.1/2"		76.4	3.01	62.0	2.44	60.33	2.38
11041900-201600	-20	DN 32	1.1/4"	-16	1"		79.3	3.12	62.0	2.44	44.45	1.75
11041900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.6	3.45	74.0	2.91	50.80	2.00
11041900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		87.6	3.45	76.0	2.99	60.33	2.38
11041900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		91.0	3.58	74.0	2.91	50.80	2.00
11041900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		105.0	4.13	88.0	3.46	60.33	2.38
11041900-243200	-24	DN 38	1.1/2"	-32	2"		105.0	4.13	88.0	3.46	71.42	2.81
11041900-322400	-32	DN 51	2"	-24	1.1/2"		114.0	4.49	88.0	3.46	60.33	2.38
11041900-323200	-32	DN 51	2"	-32	2"		129.6	5.10	111.0	4.37	71.42	2.81
11041900-324000	-32	DN 51	2"	-40	2.1/2"		129.6	5.10	113.0	4.45	84.12	3.31

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF2P-MT - SAE 62 6K FL

11042000



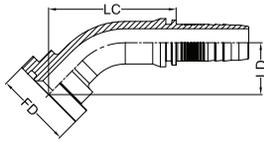
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	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11042000-080800	-08	DN 12	1/2"	-08	1/2"		47.0	1.85	-	-	31.75	1.25
11042000-081200	-08	DN 12	1/2"	-12	3/4"		52.0	2.05	-	-	41.28	1.63
11042000-101200	-10	DN 16	5/8"	-12	3/4"		52.0	2.05	-	-	41.28	1.63
11042000-121200	-12	DN 19	3/4"	-12	3/4"		52.5	2.07	-	-	41.28	1.63
11042000-121600	-12	DN 19	3/4"	-16	1"		55.5	2.19	-	-	47.63	1.88
11042000-161600	-16	DN 25	1"	-16	1"		56.4	2.22	-	-	47.63	1.88
11042000-162000	-16	DN 25	1"	-20	1.1/4"		63.4	2.50	-	-	53.98	2.13
11042000-201600	-20	DN 32	1.1/4"	-16	1"		56.4	2.22	-	-	47.63	1.88
11042000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		65.0	2.56	-	-	53.98	2.13
11042000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		71.0	2.80	-	-	63.50	2.50
11042000-242000	-24	DN 38	1.1/2"	-20	1.1/4"		65.0	2.56	-	-	53.98	2.13
11042000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		74.0	2.91	-	-	63.50	2.50
11042000-243200	-24	DN 38	1.1/2"	-32	2"		76.0	2.99	-	-	79.38	3.13
11042000-323200	-32	DN 51	2"	-32	2"		76.0	2.99	-	-	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 45°

SAE J516 / ISO 12151-3

HF2P-MT - SAE 62 6K FL 45

11042400



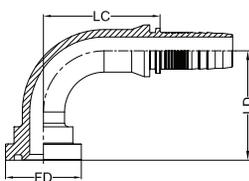
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11042400-080800	-08	DN 12	1/2"	-08	1/2"		51.8	2.04	22.6	0.89	31.75	1.25
11042400-081200	-08	DN 12	1/2"	-12	3/4"		54.6	2.15	25.4	1.00	41.28	1.63
11042400-101200	-10	DN 16	5/8"	-12	3/4"		72.2	2.84	28.1	1.11	41.28	1.63
11042400-101600	-10	DN 16	5/8"	-16	1"		74.3	2.93	30.2	1.19	47.63	1.88
11042400-121200	-12	DN 19	3/4"	-12	3/4"		72.2	2.84	28.1	1.11	41.28	1.63
11042400-121600	-12	DN 19	3/4"	-16	1"		74.3	2.93	30.2	1.19	47.63	1.88
11042400-161600	-16	DN 25	1"	-16	1"		85.2	3.35	32.2	1.27	47.63	1.88
11042400-162000	-16	DN 25	1"	-20	1.1/4"		88.0	3.46	35.1	1.38	53.98	2.13
11042400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		97.7	3.85	39.4	1.55	53.98	2.13
11042400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		101.3	3.99	42.9	1.69	63.50	2.50
11042400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		115.7	4.56	45.9	1.81	63.50	2.50
11042400-243200	-24	DN 38	1.1/2"	-32	2"		121.4	4.78	51.5	2.03	79.38	3.13
11042400-323200	-32	DN 51	2"	-32	2"		141.5	5.57	58.8	2.31	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 90°

SAE J516 / ISO 12151-3

HF2P-MT - SAE 62 6K FL 90

11042900



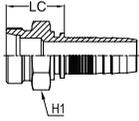
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11042900-080800	-08	DN 12	1/2"	-08	1/2"		43.3	1.70	46.0	1.81	31.75	1.25
11042900-081200	-08	DN 12	1/2"	-12	3/4"		43.3	1.70	50.0	1.97	41.28	1.63
11042900-100800	-10	DN 16	5/8"	-08	1/2"		44.4	1.75	46.0	1.81	31.75	1.25
11042900-101200	-10	DN 16	5/8"	-12	3/4"		49.8	1.96	51.0	2.01	41.28	1.63
11042900-101600	-10	DN 16	5/8"	-16	1"		63.5	2.50	62.0	2.44	47.63	1.88
11042900-121200	-12	DN 19	3/4"	-12	3/4"		63.5	2.50	59.0	2.32	41.28	1.63
11042900-121600	-12	DN 19	3/4"	-16	1"		63.5	2.50	62.0	2.44	47.63	1.88
11042900-161600	-16	DN 25	1"	-16	1"		76.4	3.01	69.0	2.72	47.63	1.88
11042900-162000	-16	DN 25	1"	-20	1.1/4"		76.4	3.01	73.0	2.87	53.98	2.13
11042900-201600	-20	DN 32	1.1/4"	-16	1"		76.4	3.01	69.0	2.72	47.63	1.88
11042900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.6	3.45	85.0	3.35	53.98	2.13
11042900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		87.6	3.45	95.0	3.74	63.50	2.50
11042900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		105.0	4.13	100.0	3.94	63.50	2.50
11042900-243200	-24	DN 38	1.1/2"	-32	2"		105.0	4.13	108.0	4.25	79.38	3.13
11042900-323200	-32	DN 51	2"	-32	2"		129.6	5.10	130.0	5.12	79.38	3.13

METRIC 24° CONE SEAT MALE LIGHT DUTY - CEL

DIN 20066 / ISO 12151-2

HF2P-MT - M24 CEL M

11053005



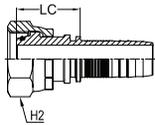
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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11053005-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	20.3	0.80	-	-	14	-
11053005-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	21.3	0.84	-	-	14	-
11053005-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	23.3	0.92	-	-	17	-
11053005-051400	-05	DN 08	5/16"	-14	8	M14 X 1.5	21.3	0.84	-	-	14	-
11053005-051600	-05	DN 08	5/16"	-16	10	M16 X 1.5	23.3	0.92	-	-	17	-
11053005-051800	-05	DN 08	5/16"	-18	12	M18 X 1.5	24.3	0.96	-	-	19	-
11053005-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	23.3	0.92	-	-	17	-
11053005-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	24.3	0.96	-	-	19	-
11053005-062200	-06	DN 10	3/8"	-22	15	M22 X 1.5	25.3	1.00	-	-	22	-
11053005-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	26.1	1.03	-	-	22	-
11053005-082600	-08	DN 12	1/2"	-26	18	M26 X 1.5	27.1	1.07	-	-	27	-
11053005-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	27.1	1.07	-	-	27	-
11053005-122600	-12	DN 19	3/4"	-26	18	M26 X 1.5	27.6	1.09	-	-	27	-
11053005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	31.6	1.24	-	-	32	-
11053005-163600	-16	DN 25	1"	-36	28	M36 X 2	34.4	1.35	-	-	36	-
11053005-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	40.0	1.57	-	-	46	-
11053005-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	42.0	1.65	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL

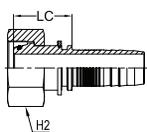
DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOL FS

11055001



11055002



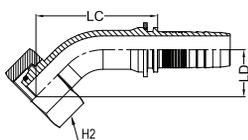
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11055002-021400	-03	DN 05	3/16"	-14	8	M14 X 1.5	24.1	0.95	-	-	-	17
11055001-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	24.3	0.96	-	-	-	14
11055002-031400	-03	DN 05	3/16"	-14	8	M14 X 1.5	23.9	0.94	-	-	-	17
11055001-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	24.8	0.98	-	-	-	14
11055002-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	24.4	0.96	-	-	-	17
11055002-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	25.4	1.00	-	-	-	19
11055002-041800	-04	DN 06	1/4"	-18	12	M18 X 1.5	25.4	1.00	-	-	-	22
11055002-051600	-05	DN 08	5/16"	-16	10	M16 X 1.5	25.4	1.00	-	-	-	19
11055002-051800	-05	DN 08	5/16"	-18	12	M18 X 1.5	25.4	1.00	-	-	-	22
11055001-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	27.3	1.07	-	-	-	22
11055002-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	25.4	1.00	-	-	-	22
11055002-062200	-06	DN 10	3/8"	-22	15	M22 X 1.5	27.4	1.08	-	-	-	27
11055001-081800	-08	DN 12	1/2"	-18	12	M18 X 1.5	27.6	1.09	-	-	-	22
11055002-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	28.2	1.11	-	-	-	27
11055002-082600	-08	DN 12	1/2"	-26	18	M26 X 1.5	29.2	1.15	-	-	-	32
11055002-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	29.2	1.15	-	-	-	32
11055001-122600	-12	DN 19	3/4"	-26	18	M26 X 1.5	35.1	1.38	-	-	-	32
11055002-123000	-12	DN 19	3/4"	-30	22	M30 X 2	31.7	1.25	-	-	-	36
11055002-123600	-12	DN 19	3/4"	-36	28	M36 X 2	33.6	1.32	-	-	-	41
11055001-163000	-16	DN 25	1"	-30	22	M30 X 2	35.6	1.40	-	-	-	36
11055002-163600	-16	DN 25	1"	-36	28	M36 X 2	33.6	1.32	-	-	-	41
11055002-164500	-16	DN 25	1"	-45	35	M45 X 2	38.5	1.52	-	-	-	50
11055001-203600	-20	DN 32	1.1/4"	-36	28	M36 X 2	41.0	1.61	-	-	-	41
11055002-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	40.1	1.58	-	-	-	50
11055002-205200	-20	DN 32	1.1/4"	-52	42	M52 X 2	40.5	1.59	-	-	-	60
11055002-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	40.5	1.59	-	-	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 45°

DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOL FS 45

11055402



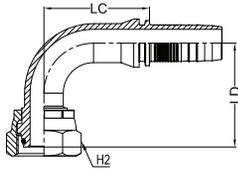
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11055401-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	38.3	1.51	17.0	0.67	-	14
11055401-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	40.4	1.59	17.6	0.69	-	14
11055402-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	41.7	1.64	17.6	0.69	-	17
11055402-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	42.3	1.67	17.8	0.70	-	19
11055402-051600	-05	DN 08	5/16"	-16	10	M16 X 1.5	42.6	1.68	18.1	0.71	-	19
11055402-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	43.3	1.70	18.5	0.73	-	22
11055402-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	49.2	1.94	21.2	0.83	-	27
11055402-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	60.3	2.37	24.2	0.95	-	32
11055402-123000	-12	DN 19	3/4"	-30	22	M30 X 2	66.3	2.61	25.4	1.00	-	36
11055402-163600	-16	DN 25	1"	-36	28	M36 X 2	77.3	3.04	29.2	1.15	-	41
11055402-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	93.3	3.67	36.7	1.44	-	50
11055402-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	105.6	4.16	40.0	1.57	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 90°

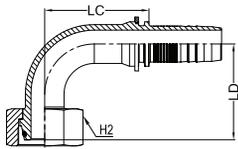
DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOL FS 90

11055901



11055902



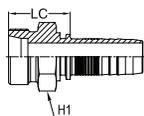
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11055901-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	27.7	1.09	30.5	1.20	-	14
11055901-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	30.4	1.20	32.5	1.28	-	14
11055902-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	31.7	1.25	32.5	1.28	-	17
11055902-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	32.1	1.26	32.8	1.29	-	19
11055902-041800	-04	DN 06	1/4"	-18	12	M18 X 1.5	32.1	1.26	33.3	1.31	-	22
11055902-051600	-05	DN 08	5/16"	-16	10	M16 X 1.5	32.7	1.29	33.8	1.33	-	19
11055902-051800	-05	DN 08	5/16"	-18	12	M18 X 1.5	33.3	1.31	34.3	1.35	-	22
11055901-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	31.7	1.25	33.8	1.33	-	22
11055902-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	33.0	1.30	34.3	1.35	-	22
11055902-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	38.0	1.50	39.9	1.57	-	27
11055902-082600	-08	DN 12	1/2"	-26	18	M26 X 1.5	38.5	1.52	40.9	1.61	-	32
11055902-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	50.7	2.00	48.9	1.93	-	32
11055901-122600	-12	DN 19	3/4"	-26	18	M26 X 1.5	45.9	1.81	52.5	2.07	-	32
11055902-123000	-12	DN 19	3/4"	-30	22	M30 X 2	56.7	2.23	51.7	2.04	-	36
11055902-123600	-12	DN 19	3/4"	-36	28	M36 X 2	71.5	2.81	64.7	2.55	-	41
11055901-163000	-16	DN 25	1"	-30	22	M30 X 2	55.6	2.19	56.0	2.20	-	36
11055902-163600	-16	DN 25	1"	-36	28	M36 X 2	71.5	2.81	64.7	2.55	-	41
11055901-203600	-20	DN 32	1.1/4"	-36	28	M36 X 2	79.3	3.12	71.0	2.80	-	41
11055902-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	85.9	3.38	81.2	3.20	-	50
11055902-205200	-20	DN 32	1.1/4"	-52	42	M52 X 2	85.9	3.38	81.7	3.22	-	60
11055902-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	100.8	3.97	91.7	3.61	-	60

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF2P-MT - M24 CES M

11054005



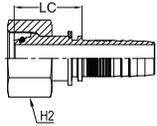
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11054005-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	24.3	0.96	-	-	17	-
11054005-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	25.3	1.00	-	-	19	-
11054005-052000	-05	DN 08	5/16"	-20	12	M20 X 1.5	25.3	1.00	-	-	22	-
11054005-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	25.3	1.00	-	-	22	-
11054005-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.3	1.07	-	-	22	-
11054005-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	29.1	1.15	-	-	24	-
11054005-083000	-08	DN 12	1/2"	-30	20	M30 X 2	33.1	1.30	-	-	32	-
11054005-103000	-10	DN 16	5/8"	-30	20	M30 X 2	33.1	1.30	-	-	32	-
11054005-123000	-12	DN 19	3/4"	-30	20	M30 X 2	33.6	1.32	-	-	32	-
11054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	37.6	1.48	-	-	36	-
11054005-163600	-16	DN 25	1"	-36	25	M36 X 2	38.4	1.51	-	-	36	-
11054005-164200	-16	DN 25	1"	-42	30	M42 X 2	42.4	1.67	-	-	46	-
11054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.0	1.89	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS

DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOS FS

11056002



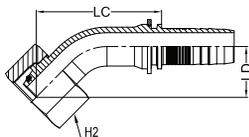
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056002-021600	-04	DN 06	1/4"	-16	8	M16 X 1.5	27.4	1.08	-	-	-	19
11056002-031600	-03	DN 05	3/16"	-16	8	M16 X 1.5	27.2	1.07	-	-	-	19
11056002-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	26.4	1.04	-	-	-	17
11056002-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	27.7	1.09	-	-	-	19
11056002-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	27.6	1.09	-	-	-	22
11056002-051800	-05	DN 08	5/16"	-18	10	M18 X 1.5	27.6	1.09	-	-	-	22
11056002-052000	-05	DN 08	5/16"	-20	12	M20 X 1.5	27.6	1.09	-	-	-	24
11056002-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	27.6	1.09	-	-	-	24
11056002-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	28.3	1.11	-	-	-	27
11056002-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	31.7	1.25	-	-	-	30
11056002-103000	-10	DN 16	5/8"	-30	20	M30 X 2	36.5	1.44	-	-	-	36
11056002-123000	-12	DN 19	3/4"	-30	20	M30 X 2	37.0	1.46	-	-	-	36
11056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	40.2	1.58	-	-	-	46
11056002-124200	-12	DN 19	3/4"	-42	30	M42 X 2	42.3	1.67	-	-	-	50
11056002-163600	-16	DN 25	1"	-36	25	M36 X 2	41.0	1.61	-	-	-	46
11056002-164200	-16	DN 25	1"	-42	30	M42 X 2	43.1	1.70	-	-	-	50
11056002-204200	-20	DN 32	1.1/4"	-42	30	M42 X 2	44.7	1.76	-	-	-	50
11056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.1	1.89	-	-	-	60
11056002-245200	-24	DN 38	1.1/2"	-52	38	M52 X 2	48.1	1.89	-	-	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOS FS 45

11056402



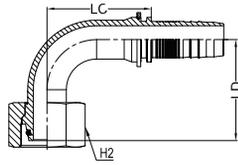
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056402-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	41.7	1.64	17.6	0.69	-	17
11056402-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	42.2	1.66	17.8	0.70	-	19
11056402-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	42.2	1.66	17.7	0.70	-	22
11056402-052000	-05	DN 08	5/16"	-20	12	M20 X 1.5	43.8	1.72	18.7	0.74	-	24
11056402-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	43.7	1.72	18.8	0.74	-	24
11056402-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	44.6	1.76	19.7	0.78	-	27
11056402-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	50.1	1.97	21.9	0.86	-	30
11056402-103000	-10	DN 16	5/8"	-30	20	M30 X 2	63.2	2.49	26.8	1.06	-	36
11056402-123000	-12	DN 19	3/4"	-30	20	M30 X 2	68.3	2.69	27.4	1.08	-	36
11056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	69.4	2.73	28.1	1.11	-	46
11056402-163600	-16	DN 25	1"	-36	25	M36 X 2	80.0	3.15	31.9	1.26	-	46
11056402-164200	-16	DN 25	1"	-42	30	M42 X 2	82.4	3.24	34.3	1.35	-	50
11056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	97.4	3.83	40.8	1.61	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOS FS 90

11056902

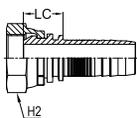


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056902-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	31.7	1.25	32.5	1.28	-	17
11056902-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	32.0	1.26	32.8	1.29	-	19
11056902-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	32.1	1.26	32.7	1.29	-	22
11056902-052000	-05	DN 08	5/16"	-20	12	M20 X 1.5	33.3	1.31	34.7	1.37	-	24
11056902-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	33.1	1.30	34.7	1.37	-	24
11056902-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	33.1	1.30	36.0	1.42	-	27
11056902-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	38.1	1.50	41.0	1.61	-	30
11056902-083000	-08	DN 12	1/2"	-30	20	M30 X 2	38.3	1.51	44.5	1.75	-	36
11056902-103000	-10	DN 16	5/8"	-30	20	M30 X 2	51.1	2.01	52.5	2.07	-	36
11056902-123000	-12	DN 19	3/4"	-30	20	M30 X 2	56.7	2.23	54.5	2.15	-	36
11056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	57.1	2.25	55.5	2.19	-	46
11056902-124200	-12	DN 19	3/4"	-42	30	M42 X 2	71.5	2.81	72.0	2.83	-	50
11056902-163600	-16	DN 25	1"	-36	25	M36 X 2	71.5	2.81	68.5	2.70	-	46
11056902-164200	-16	DN 25	1"	-42	30	M42 X 2	71.5	2.81	72.0	2.83	-	50
11056902-204200	-20	DN 32	1.1/4"	-42	30	M42 X 2	85.5	3.37	84.0	3.31	-	50
11056902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	85.9	3.38	87.0	3.43	-	60

METRIC 60 CONE FEMALE SWIVEL

HF2P-MT - METRIC 60C FS

11060001



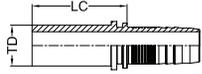
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11060001-041400	-04	DN 06	1/4"	-14	-	M14 X 1.5	17.8	0.70	-	-	-	19
11060001-061600	-06	DN 10	3/8"	-16	-	M16 X 1.5	18.3	0.72	-	-	-	22
11060001-082200	-08	DN 12	1/2"	-22	-	M22 X 1.5	22.6	0.89	-	-	-	27
11060001-123000	-12	DN 19	3/4"	-30	-	M30 X 1.5	26.1	1.03	-	-	-	36
11060002-163900	-16	DN 25	1"	-39	-	M39 X 2.0	30.0	1.18	-	-	-	46

METRIC STANDPIPE

DIN 2353 / ISO 8434-1

HF2P-MT - MSP

11051000



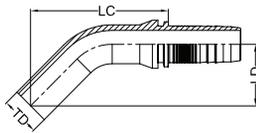
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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11051000-030600	-03	DN 05	3/16"	-06	06	-	27.7	1.09	-	-	-	06
11051000-030800	-03	DN 05	3/16"	-08	08	-	29.7	1.17	-	-	-	08
11051000-040600	-04	DN 06	1/4"	-06	06	-	28.3	1.11	-	-	-	06
11051000-040800	-04	DN 06	1/4"	-08	08	-	30.3	1.19	-	-	-	08
11051000-041000	-04	DN 06	1/4"	-10	10	-	32.3	1.27	-	-	-	10
11051000-041200	-04	DN 06	1/4"	-12	12	-	32.3	1.27	-	-	-	12
11051000-051000	-05	DN 08	5/16"	-10	10	-	29.3	1.15	-	-	-	10
11051000-051200	-05	DN 08	5/16"	-12	12	-	32.3	1.27	-	-	-	12
11051000-061000	-06	DN 10	3/8"	-10	10	-	29.3	1.15	-	-	-	10
11051000-061200	-06	DN 10	3/8"	-12	12	-	29.3	1.15	-	-	-	12
11051000-061400	-06	DN 10	3/8"	-14	14	-	35.3	1.39	-	-	-	14
11051000-061500	-06	DN 10	3/8"	-15	15	-	31.3	1.23	-	-	-	15
11051000-081000	-08	DN 12	1/2"	-10	10	-	30.1	1.19	-	-	-	10
11051000-081200	-08	DN 12	1/2"	-12	12	-	30.1	1.19	-	-	-	12
11051000-081400	-08	DN 12	1/2"	-14	14	-	36.1	1.42	-	-	-	14
11051000-081500	-08	DN 12	1/2"	-15	15	-	32.1	1.26	-	-	-	15
11051000-081600	-08	DN 12	1/2"	-16	16	-	37.1	1.46	-	-	-	16
11051000-081800	-08	DN 12	1/2"	-18	18	-	33.1	1.30	-	-	-	18
11051000-101800	-10	DN 16	5/8"	-18	18	-	34.1	1.34	-	-	-	18
11051000-102000	-10	DN 16	5/8"	-20	20	-	44.1	1.74	-	-	-	20
11051000-102200	-10	DN 16	5/8"	-22	22	-	36.1	1.42	-	-	-	22
11051000-122000	-12	DN 19	3/4"	-20	20	-	44.6	1.76	-	-	-	20
11051000-122200	-12	DN 19	3/4"	-22	22	-	36.6	1.44	-	-	-	22
11051000-122500	-12	DN 19	3/4"	-25	25	-	48.6	1.91	-	-	-	25
11051000-162200	-16	DN 25	1"	-22	22	-	37.4	1.47	-	-	-	22
11051000-162500	-16	DN 25	1"	-25	25	-	49.4	1.94	-	-	-	25
11051000-162800	-16	DN 25	1"	-28	28	-	39.4	1.55	-	-	-	28
11051000-163000	-16	DN 25	1"	-30	30	-	53.4	2.10	-	-	-	30
11051000-163800	-16	DN 25	1"	-38	38	-	59.4	2.34	-	-	-	38
11051000-203000	-20	DN 32	1.1/4"	-30	30	-	56.0	2.20	-	-	-	30
11051000-203500	-20	DN 32	1.1/4"	-35	35	-	48.0	1.89	-	-	-	35
11051000-203800	-20	DN 32	1.1/4"	-38	38	-	62.0	2.44	-	-	-	38
11051000-243800	-24	DN 38	1.1/2"	-38	38	-	62.0	2.44	-	-	-	38
11051000-244200	-24	DN 38	1.1/2"	-42	42	-	52.0	2.05	-	-	-	42

METRIC STANDPIPE - 45°

DIN 2353 / ISO 8434-1

HF2P-MT - MSP 45

11051400



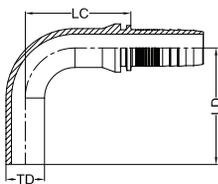
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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11051400-040600	-04	DN 06	1/4"	-06	06	-	46.4	1.83	23.6	0.93	-	06
11051400-040800	-04	DN 06	1/4"	-08	08	-	47.8	1.88	25.0	0.98	-	08
11051400-041000	-04	DN 06	1/4"	-10	10	-	49.3	1.94	26.4	1.04	-	10
11051400-051000	-05	DN 08	5/16"	-10	10	-	47.9	1.89	24.6	0.97	-	10
11051400-051200	-05	DN 08	5/16"	-12	12	-	50.0	1.97	26.7	1.05	-	12
11051400-061000	-06	DN 10	3/8"	-10	10	-	48.2	1.90	24.7	0.97	-	10
11051400-061200	-06	DN 10	3/8"	-12	12	-	48.2	1.90	24.7	0.97	-	12
11051400-061400	-06	DN 10	3/8"	-14	14	-	52.4	2.06	28.9	1.14	-	14
11051400-081500	-08	DN 12	1/2"	-15	15	-	54.9	2.16	28.3	1.11	-	15
11051400-081600	-08	DN 12	1/2"	-16	16	-	58.4	2.30	31.8	1.25	-	16
11051400-081800	-08	DN 12	1/2"	-18	18	-	55.6	2.19	29.0	1.14	-	18
11051400-102200	-10	DN 16	5/8"	-22	22	-	68.0	2.68	32.8	1.29	-	22
11051400-122200	-12	DN 19	3/4"	-22	22	-	75.0	2.95	33.4	1.31	-	22
11051400-122500	-12	DN 19	3/4"	-25	25	-	83.5	3.29	41.8	1.65	-	25
11051400-163000	-160	DN 25	1"	-30	30	-	97.3	3.83	48.5	1.91	-	30

METRIC STANDPIPE - 90°

DIN 2353 / ISO 8434-1

HF2P-MT - MSP 90

11051900



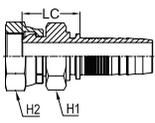
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11051900-030600	-03	DN 05	3/16"	-06	06	-	27.7	1.09	39.0	1.54	-	06
11051900-040600	-04	DN 06	1/4"	-06	06	-	30.4	1.20	41.0	1.61	-	06
11051900-040800	-04	DN 06	1/4"	-08	08	-	30.4	1.20	43.0	1.69	-	08
11051900-041000	-04	DN 06	1/4"	-10	10	-	30.4	1.20	45.0	1.77	-	10
11051900-041200	-04	DN 06	1/4"	-12	12	-	30.4	1.20	45.0	1.77	-	12
11051900-051000	-05	DN 08	5/16"	-10	10	-	31.4	1.24	43.0	1.69	-	10
11051900-051200	-05	DN 08	5/16"	-12	12	-	31.4	1.24	46.0	1.81	-	12
11051900-061000	-06	DN 10	3/8"	-10	10	-	31.7	1.25	43.0	1.69	-	10
11051900-061200	-06	DN 10	3/8"	-12	12	-	31.7	1.25	43.0	1.69	-	12
11051900-081400	-08	DN 12	1/2"	-14	14	-	36.5	1.44	54.0	2.13	-	14
11051900-081500	-08	DN 12	1/2"	-15	15	-	36.5	1.44	50.0	1.97	-	15
11051900-081600	-08	DN 12	1/2"	-16	16	-	36.5	1.44	55.0	2.17	-	16
11051900-081800	-08	DN 12	1/2"	-18	18	-	36.5	1.44	51.0	2.01	-	18
11051900-101800	-10	DN 16	5/8"	-18	18	-	49.8	1.96	59.0	2.32	-	18
11051900-102000	-10	DN 16	5/8"	-20	20	-	49.8	1.96	69.0	2.72	-	20
11051900-102200	-10	DN 16	5/8"	-22	22	-	49.8	1.96	61.0	2.40	-	22
11051900-122000	-12	DN 19	3/4"	-20	20	-	57.5	2.26	71.0	2.80	-	20
11051900-122200	-12	DN 19	3/4"	-22	22	-	57.5	2.26	63.0	2.48	-	22
11051900-162500	-16	DN 25	1"	-25	25	-	72.3	2.85	88.0	3.46	-	25
11051900-162800	-16	DN 25	1"	-28	28	-	72.3	2.85	78.0	3.07	-	28
11051900-163000	-16	DN 25	1"	-30	30	-	72.3	2.85	92.0	3.62	-	30
11051900-203500	-20	DN 32	1.1/4"	-35	35	-	87.6	3.45	96.0	3.78	-	35

JIS TYPE C FEMALE SWIVEL

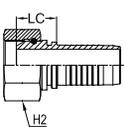
JIS B 8363

HF2P-MT - JIS C FS

11065001



11065003



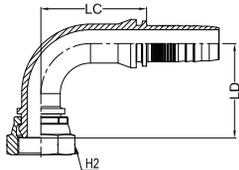
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11065001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	24.3	0.96	-	-	19	19
11065001-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	25.5	1.00	-	-	22	22
11065001-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	28.6	1.13	-	-	27	27
11065001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.1	1.42	-	-	36	36
11065001-161600	-16	DN 25	1"	-16	1"	1" X 11	37.9	1.49	-	-	41	41
11065003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	44.0	1.73	-	-	50	50
11065003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	46.5	1.83	-	-	55	55
11065003-323200	-32	DN 51	2"	-32	2"	2" X 11	53.0	2.09	-	-	70	70

JIS TYPE C FEMALE SWIVEL - 90°

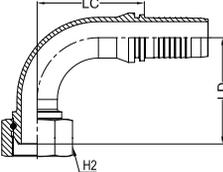
JIS B 8363

HF2P-MT - JIS C FS 90

11065901



11065903



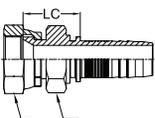
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11065901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.4	1.20	32.0	1.26	-	19
11065901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.7	1.25	34.2	1.35	-	22
11065901-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	36.5	1.44	41.5	1.63	-	27
11065901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	51.9	2.04	56.5	2.22	-	36
11065901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.3	2.85	69.5	2.74	-	41
11065903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	87.6	3.45	87.0	3.43	-	50
11065903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	105.0	4.13	100.5	3.96	-	55
11065903-323200	-32	DN 51	2"	-32	2"	2" X 11	127.6	5.02	124.0	4.88	-	70

JIS TYPE F FEMALE SWIVEL

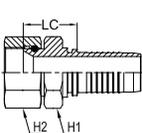
JIS B 8363

HF2P-MT - JIS F FS

11066001



11066003



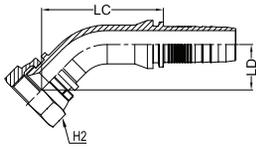
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	21.3	0.84	-	-	19	19
11066001-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	22.8	0.90	-	-	22	22
11066001-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	25.6	1.01	-	-	27	27
11066001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	32.1	1.26	-	-	36	36
11066001-161600	-16	DN 25	1"	-16	1"	1" X 11	34.9	1.37	-	-	41	41
11066003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	41.0	1.61	-	-	50	50
11066003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	42.5	1.67	-	-	55	55

JIS TYPE F FEMALE SWIVEL - 45°

JIS B 8363

HF2P-MT - JIS F FS 45

11066401



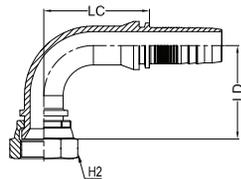
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	38.0	1.50	15.1	0.59	-	19
11066401-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	40.1	1.58	16.5	0.65	-	22
11066401-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	46.8	1.84	20.2	0.80	-	27
11066401-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	67.6	2.66	25.9	1.02	-	36
11066401-161600	-16	DN 25	1"	-16	1"	1" X 11	79.3	3.12	30.5	1.20	-	41

JIS TYPE F FEMALE SWIVEL - 90°

JIS B 8363

HF2P-MT - JIS F FS 90

11066901

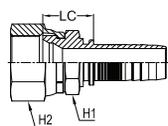


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.4	1.20	29.0	1.14	-	19
11066901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.7	1.25	31.5	1.24	-	22
11066901-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	36.5	1.44	38.5	1.52	-	27
11066901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	57.5	2.26	52.5	2.07	-	36
11066901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.3	2.85	66.5	2.62	-	41

KOMATSU FEMALE SWIVEL

HF2P-MT - KOMATSU FS

11071001

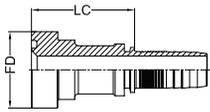


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11071001-041400	-04	DN 06	1/4"	-14	-	M14 X 1.5	20.8	0.82	-	-	17	19
11071001-061400	-06	DN 10	3/8"	-14	-	M14 X 1.5	20.8	0.82	-	-	17	19
11071001-061800	-06	DN 10	3/8"	-18	-	M18 X 1.5	22.1	0.87	-	-	19	22
11071001-082200	-08	DN 12	1/2"	-22	-	M22 X 1.5	23.6	0.93	-	-	22	27
11071001-102400	-10	DN 16	5/8"	-24	-	M24 X 1.5	27.1	1.07	-	-	30	32
11071001-123000	-12	DN 19	3/4"	-30	-	M30 X 1.5	27.6	1.09	-	-	30	36
11071001-163300	-16	DN 25	1"	-33	-	M33 X 1.5	35.7	1.41	-	-	36	41
11071001-203600	-20	DN 32	1.1/4"	-36	-	M36 X 1.5	41.5	1.63	-	-	46	46
11071001-244200	-24	DN 38	1.1/2"	-42	-	M42 X 1.5	44.0	1.73	-	-	55	55

SUPERCAT FLANGE

HF2P-MT - SCAT 9K FL

11073000

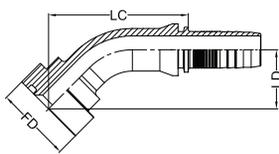


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073000-121200	-12	DN 19	3/4"	-12	3/4"		56.1	2.21	-	-	41.28	1.63
11073000-121600	-12	DN 19	3/4"	-16	1"		60.6	2.39	-	-	47.63	1.88
11073000-161200	-16	DN 25	1"	-12	3/4"		56.9	2.24	-	-	41.28	1.63
11073000-161600	-16	DN 25	1"	-16	1"		61.4	2.42	-	-	47.63	1.88
11073000-162000	-16	DN 25	1"	-20	1.1/4"		68.4	2.69	-	-	53.98	2.13
11073000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		70.0	2.76	-	-	53.98	2.13
11073000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		77.0	3.03	-	-	63.50	2.50
11073000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		77.0	3.03	-	-	63.50	2.50
11073000-243200	-24	DN 38	1.1/2"	-32	2"		98.0	3.86			79.37	3.12

SUPERCAT FLANGE - 45°

HF2P-MT - SCAT 9K FL 45

11073400

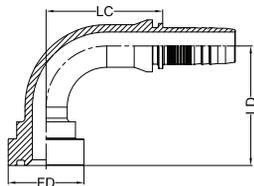


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073400-121200	-12	DN 19	3/4"	-12	3/4"		76.1	3.00	31.9	1.26	41.28	1.63
11073400-121600	-12	DN 19	3/4"	-16	1"		77.1	3.04	33.0	1.30	47.63	1.88
11073400-161600	-16	DN 25	1"	-16	1"		88.0	3.46	35.0	1.38	47.63	1.88
11073400-162000	-16	DN 25	1"	-20	1.1/4"		90.1	3.55	37.2	1.46	53.98	2.13
11073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		99.8	3.93	41.5	1.63	53.98	2.13
11073400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		102.7	4.04	44.3	1.74	63.50	2.50
11073400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		117.1	4.61	47.3	1.86	63.50	2.50

SUPERCAT FLANGE - 90°

HF2P-MT - SCAT 9K FL 90

11073900

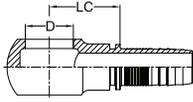


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073900-121600	-12	DN 19	3/4"	-16	1"		63.5	2.50	66.0	2.60	47.63	1.88
11073900-162000	-16	DN 25	1"	-20	1.1/4"		76.4	3.01	76.0	2.99	53.98	2.13
11073900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.6	3.45	88.0	3.46	53.98	2.13
11073900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		87.6	3.45	92.0	3.62	63.50	2.50
11073900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		105.0	4.13	102.0	4.02	63.50	2.50

BSPP BANJO

HF2P-MT - BSPP BANJO

110010A0



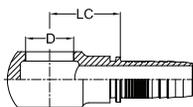
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110010A0-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	20.0	0.79	-	-	-	9.9
110010A0-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.5	1.04	-	-	-	13.3
110010A0-050600	-05	DN 08	5/16"	-06	3/8"	3/8" X 19	30.5	1.20	-	-	-	16.7
110010A0-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	30.5	1.20	-	-	-	16.7
110010A0-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	34.5	1.36	-	-	-	21.0
110010A0-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	35.0	1.38	-	-	-	21.0
110010A0-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	38.0	1.50	-	-	-	23.0
110010A0-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	41.5	1.63	-	-	-	26.5
110010A0-161600	-16	DN 25	1"	-16	1"	1" X 11	50.5	1.99	-	-	-	33.3

METRIC BANJO

HF2P-MT - METRIC BANJO

DIN 7642

110570A0

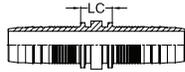


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110570A0-031000	-03	DN 05	3/16"	-10	-	M10 X 1.5	24.0	0.94	-	-	-	10.1
110570A0-041000	-04	DN 06	1/4"	-10	-	M10 X 1.5	25.0	0.98	-	-	-	10.1
110570A0-041200	-04	DN 06	1/4"	-12	-	M12 X 1.5	28.5	1.12	-	-	-	12.1
110570A0-041400	-04	DN 06	1/4"	-14	-	M14 X 1.5	27.5	1.08	-	-	-	14.1
110570A0-051200	-05	DN 08	5/16"	-12	-	M12 X 1.5	28.5	1.12	-	-	-	12.1
110570A0-051400	-05	DN 08	5/16"	-14	-	M14 X 1.5	27.5	1.08	-	-	-	14.1
110570A0-051600	-05	DN 08	5/16"	-16	-	M16 X 1.5	28.5	1.12	-	-	-	16.1
110570A0-061400	-06	DN 10	3/8"	-14	-	M14 X 1.5	27.5	1.08	-	-	-	14.1
110570A0-061600	-06	DN 10	3/8"	-16	-	M16 X 1.5	30.5	1.20	-	-	-	16.1
110570A0-061800	-06	DN 10	3/8"	-18	-	M18 X 1.5	31.5	1.24	-	-	-	18.1
110570A0-081800	-08	DN 12	1/2"	-18	-	M18 X 1.5	32.0	1.26	-	-	-	18.1
110570A0-082200	-08	DN 12	1/2"	-22	-	M22 X 1.5	35.0	1.38	-	-	-	22.1
110570A0-102200	-10	DN 16	5/8"	-22	-	M22 X 1.5	35.0	1.38	-	-	-	22.1
110570A0-122600	-12	DN 19	3/4"	-26	-	M26 X 1.5	38.5	1.52	-	-	-	26.1
110570A0-163000	-16	DN 25	1"	-30	-	M30 X 2	42.5	1.67	-	-	-	30.1

HOSE TO HOSE

HF2P-MT - H-H

11092000

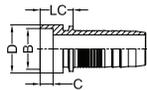


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	DN	INCH	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11092000-040400	-04	DN 06	1/4"	-04	DN 06	1/4"	12.6	0.50	-	-	-	-
11092000-050500	-05	DN 08	5/16"	-05	DN 08	5/16"	12.6	0.50	-	-	-	-
11092000-060600	-06	DN 10	3/8"	-06	DN 10	3/8"	12.6	0.50	-	-	-	-
11092000-080800	-08	DN 12	1/2"	-08	DN 12	1/2"	14.2	0.56	-	-	-	-
11092000-101000	-10	DN 16	5/8"	-10	DN 16	5/8"	16.2	0.64	-	-	-	-
11092000-121200	-12	DN 19	3/4"	-12	DN 19	3/4"	17.2	0.68	-	-	-	-
11092000-161600	-16	DN 25	1"	-16	DN 25	1"	18.8	0.74	-	-	-	-
11092000-202000	-20	DN 32	1.1/4"	-20	DN 32	1.1/4"	24.0	0.94	-	-	-	-
11092000-242400	-24	DN 38	1.1/2"	-24	DN 38	1.1/2"	24.0	0.94	-	-	-	-
11092000-323200	-32	DN 51	2"	-32	DN 51	2"	24.0	0.94	-	-	-	-

BRAZE TAIL

HF2P-MT - BRAZE TAIL

11093000

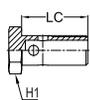


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	MM	LC MM	LC INCH	B MM	B INCH	C MM	D MM
11093000-040800	-04	DN 06	1/4"	-04	1/4"	-12.7	13.0	0.51	8.0	0.31	5.0	12.7
11093000-051000	-05	DN 08	5/16"	-05	5/16"	-14.0	14.0	0.55	10.0	0.39	6.0	14.0
11093000-061200	-06	DN 10	3/8"	-06	3/8"	-16.0	14.5	0.57	12.0	0.47	6.0	16.0
11093000-081500	-08	DN 12	1/2"	-08	1/2"	-19.0	15.0	0.59	15.0	0.59	6.0	19.0
11093000-101800	-10	DN 16	5/8"	-10	5/8"	-23.0	16.5	0.65	18.0	0.71	7.0	23.0
11093000-122200	-12	DN 19	3/4"	-12	3/4"	-26.0	18.0	0.71	22.0	0.87	7.0	26.0
11093000-162800	-16	DN 25	1"	-16	1"	-32.0	20.0	0.79	28.0	1.10	8.0	32.0
11093000-203500	-20	DN 32	1.1/4"	-20	1.1/4"	-44.0	24.0	0.94	35.0	1.38	9.0	44.0
11093000-244000	-24	DN 38	1.1/2"	-24	1.1/2"	-46.0	24.0	0.94	40.0	1.57	9.0	46.0
11093000-325000	-32	DN 51	2"	-32	2"	-61.0	25.0	0.98	50.0	1.97	10.0	61.0

BSPP BANJO BOLT

HF2P-MT - BSPP BB

110010B0



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110010B0-040000	-	-	-	-04	1/4"	1/4" X 19	28.5	1.12	-	-	19	-
110010B0-060000	-	-	-	-06	3/8"	3/8" X 19	38.5	1.52	-	-	22	-
110010B0-080000	-	-	-	-08	1/2"	1/2" X 14	44.0	1.73	-	-	27	-
110010B0-100000	-	-	-	-10	5/8"	5/8" X 14	48.5	1.91	-	-	30	-
110010B0-120000	-	-	-	-12	3/4"	3/4" X 14	56.0	2.20	-	-	32	-
110010B0-160000	-	-	-	-16	1"	1" X 11	68.5	2.70	-	-	41	-

METRIC BANJO BOLT

DIN 7643

HF2P-MT - METRIC BB

110570B0



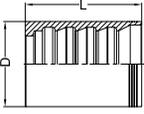
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110570B0-100000	-	-	-	-10	-	M10 X 1.5	19.0	0.75	-	-	14	-
110570B0-120000	-	-	-	-12	-	M12 X 1.5	24.0	0.94	-	-	17	-
110570B0-140000	-	-	-	-14	-	M14 X 1.5	26.0	1.02	-	-	19	-
110570B0-160000	-	-	-	-16	-	M16 X 1.5	28.0	1.10	-	-	22	-
110570B0-180000	-	-	-	-18	-	M18 X 1.5	32.0	1.26	-	-	24	-
110570B0-220000	-	-	-	-22	-	M22 X 1.5	39.0	1.54	-	-	27	-
110570B0-260000	-	-	-	-26	-	M26 X 1.5	45.0	1.77	-	-	32	-
110570B0-300000	-	-	-	-30	-	M30 X 1.5	51.0	2.01	-	-	38	-

FERRULES - MULTISPIRAL - 230 SERIES

FERRULE - SKIVE

FE2P-MS-SK - 4SH

23020410



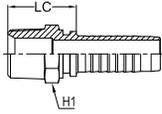
ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
23020410-120000	4SH	-12	DN 19	3/4"	51.0	2.01	37.0	1.46
23020410-160000	4SH	-16	DN 25	1"	61.5	2.42	46.5	0.65
23020410-200000	4SH	-20	DN 32	1.1/4"	67.5	2.66	53.0	2.09
23020410-240000	4SH	-24	DN 38	1.1/2"	75.0	2.95	61.0	2.40
23020410-320000	4SH	-32	DN 51	2"	79.0	3.11	77.0	3.03

BSPT MALE

ISO 7

HF2P-MS - BSPT M

13004005



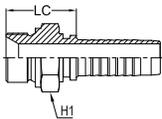
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	37.3	1.47	-	-	27	-
13004005-161600	-16	DN 25	1"	-16	1"	1" X 11	47.5	1.87	-	-	36	-
13004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	51.0	2.01	-	-	46	-
13004005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	51.5	2.03	-	-	50	-
13004005-323200	-32	DN 51	2"	-32	2"	2" X 11	60.0	2.36	-	-	65	-

BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF2P-MS - BSPP M

13001005



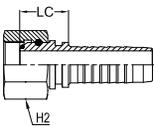
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	38.3	1.51	-	-	32	-
13001005-161600	-16	DN 25	1"	-16	1"	1" X 11	44.0	1.73	-	-	41	-
13001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	48.5	1.91	-	-	50	-
13001005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	51.0	2.01	-	-	55	-
13001005-323200	-32	DN 51	2"	-32	2"	2" X 11	57.5	2.26	-	-	70	-

BSPP 60° CONE O-RING FEMALE SWIVEL

BS5200 / ISO 12151-6

HF2P-MS - BSPP OR FS

13002003



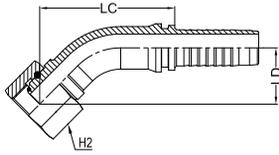
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002003-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	26.6	1.05	-	-	-	32
13002003-161600	-16	DN 25	1"	-16	1"	1" X 11	29.5	1.16	-	-	-	38
13002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	33.5	1.32	-	-	-	50
13002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	34.8	1.37	-	-	-	55
13002003-323200	-32	DN 51	2"	-32	2"	2" X 11	36.0	1.42	-	-	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

BS5200 / ISO 12151-6

HF2P-MS - BSPP OR FS 45

13002403



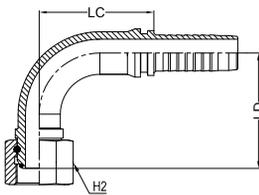
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002403-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	73.5	2.89	30.4	1.20	-	32
13002403-161600	-16	DN 25	1"	-16	1"	1" X 11	84.4	3.32	34.0	1.34	-	38
13002403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	101.1	3.98	42.2	1.66	-	50
13002403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	113.6	4.47	47.8	1.88	-	55
13002403-323200	-32	DN 51	2"	-32	2"	2" X 11	134.8	5.31	54.7	2.15	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

BS5200 / ISO 12151-6

HF2P-MS - BSPP OR FS 90

13002903



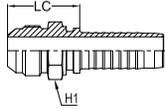
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002903-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	62.4	2.46	62.3	2.45	-	32
13002903-161600	-16	DN 25	1"	-16	1"	1" X 11	73.9	2.91	71.5	2.81	-	38
13002903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	88.1	3.47	89.0	3.50	-	50
13002903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	100.9	3.97	102.8	4.05	-	55
13002903-323200	-32	DN 51	2"	-32	2"	2" X 11	125.9	4.96	123.0	4.84	-	70

JIC 37° CONE MALE

HF2P-MS - JIC M

SAE J516 / ISO 12151-5

13011005



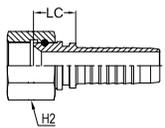
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	39.3	1.55	-	-	27	-
13011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	44.3	1.74	-	-	36	-
13011005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	45.0	1.77	-	-	36	-
13011005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	48.5	1.91	-	-	46	-
13011005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	49.0	1.93	-	-	46	-
13011005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	53.0	2.09	-	-	50	-
13011005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	52.5	2.07	-	-	50	-
13011005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	63.0	2.48	-	-	65	-

JIC 37° CONE SEAT FEMALE SWIVEL

HF2P-MS - JIC FS

SAE J516 / ISO 12151-5

13011003



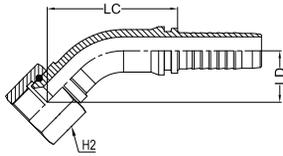
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13011003-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	23.0	0.91	-	-	-	32
13011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	24.8	0.98	-	-	-	38
13011003-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	25.5	1.00	-	-	-	38
13011003-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	28.1	1.11	-	-	-	50
13011003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	28.6	1.13	-	-	-	50
13011003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	30.9	1.22	-	-	-	55
13011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	30.4	1.20	-	-	-	55
13011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	34.0	1.34	-	-	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

HF2P-MS - JIC FS 45

SAE J516 / ISO 12151-5

13011403



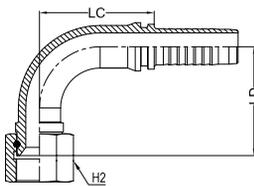
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011403-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	70.9	2.79	21.0	0.83	-	32
13011403-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	72.2	2.84	24.0	0.94	-	38
13011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	81.6	3.21	24.0	0.94	-	38
13011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	97.6	3.84	25.0	0.98	-	50
13011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	100.4	3.95	27.0	1.06	-	55
13011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	133.4	5.25	34.0	1.34	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

HF2P-MS - JIC FS 90

SAE J516 / ISO 12151-5

13011903



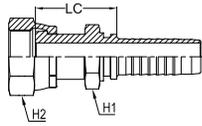
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011903-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	62.4	2.46	58.7	2.31	-	32
13011903-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	62.4	2.46	71.0	2.80	-	38
13011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	73.9	2.91	71.0	2.80	-	38
13011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	73.9	2.91	78.0	3.07	-	50
13011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	88.1	3.47	78.0	3.07	-	50
13011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	88.1	3.47	86.0	3.39	-	55
13011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	100.9	3.97	86.0	3.39	-	55
13011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	125.9	4.96	140.0	5.51	-	70

ORFS FEMALE SWIVEL

SAE J516 / ISO 12151-1

HF2P-MS - ORFS FS

13031001



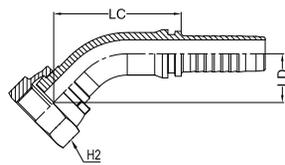
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	44.3	1.74	-	-	30	36
13031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	50.3	1.98	-	-	36	41
13031001-161000	-16	DN 25	1"	-10	5/8"	1" X 14	43.5	1.71	-	-	32	30
13031001-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	46.0	1.81	-	-	32	36
13031001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	51.0	2.01	-	-	36	41
13031001-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	52.0	2.05	-	-	41	50
13031001-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	52.5	2.07	-	-	41	50
13031001-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	56.5	2.22	-	-	50	60

ORFS FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-1

HF2P-MS - ORFS FS 45

13031401



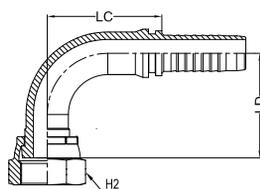
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	69.4	2.73	21.0	0.83	-	36
13031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	69.7	2.74	24.0	0.94	-	41
13031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	79.1	3.11	24.0	0.94	-	41
13031401-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	79.1	3.11	25.0	0.98	-	50
13031401-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	91.9	3.62	25.0	0.98	-	50

ORFS FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-1

HF2P-MS - ORFS FS 90

13031901



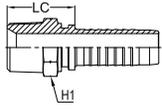
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	62.4	2.46	56.5	2.22	-	36
13031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	62.4	2.46	71.0	2.80	-	41
13031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	73.9	2.91	71.0	2.80	-	41
13031901-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	73.9	2.91	78.0	3.07	-	50
13031901-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	88.1	3.47	78.0	3.07	-	50

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF2P-MS - NPTF M

13023005



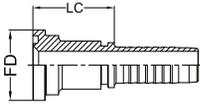
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.8	1.45	-	-	27	-
13023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	47.5	1.87	-	-	36	-
13023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	51.0	2.01	-	-	46	-
13023005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	52.5	2.07	-	-	50	-
13023005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	56.5	2.22	-	-	65	-

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF2P-MS - SAE 61 3K FL

13041000



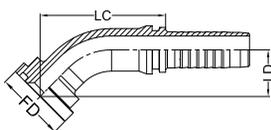
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041000-121200	-12	DN 19	3/4"	-12	3/4"		44.3	1.74	-	-	38.10	1.50
13041000-121600	-12	DN 19	3/4"	-16	1"		52.3	2.06	-	-	44.45	1.75
13041000-161600	-16	DN 25	1"	-16	1"		53.0	2.09	-	-	44.45	1.75
13041000-162000	-16	DN 25	1"	-20	1.1/4"		55.5	2.19	-	-	50.80	2.00
13041000-201600	-20	DN 32	1.1/4"	-16	1"		66.5	2.62	-	-	44.45	1.75
13041000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		56.0	2.20	-	-	50.80	2.00
13041000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		59.0	2.32	-	-	60.33	2.38
13041000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		58.5	2.30	-	-	60.33	2.38
13041000-243200	-24	DN 38	1.1/2"	-32	2"		70.0	2.76	-	-	71.42	2.81
13041000-323200	-32	DN 51	2"	-32	2"		71.0	2.80	-	-	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF2P-MS - SAE 61 3K FL 45

13041400



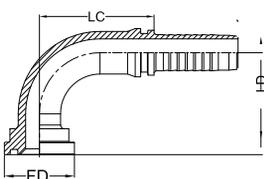
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041400-121200	-12	DN 19	3/4"	-12	3/4"		68.3	2.69	25.2	0.99	38.10	1.50
13041400-121600	-12	DN 19	3/4"	-16	1"		68.3	2.69	25.2	0.99	44.45	1.75
13041400-161600	-16	DN 25	1"	-16	1"		77.7	3.06	27.3	1.07	44.45	1.75
13041400-162000	-16	DN 25	1"	-20	1.1/4"		77.7	3.06	27.3	1.07	50.80	2.00
13041400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		90.4	3.56	31.6	1.24	50.80	2.00
13041400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		91.9	3.62	33.0	1.30	60.33	2.38
13041400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		103.1	4.06	37.4	1.47	60.33	2.38
13041400-243200	-24	DN 38	1.1/2"	-32	2"		103.1	4.06	37.4	1.47	71.42	2.81
13041400-323200	-32	DN 51	2"	-32	2"		123.6	4.87	45.4	1.79	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

HF2P-MS - SAE 61 3K FL 90

13041900



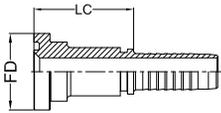
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	55.0	2.17	38.10	1.50
13041900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	55.0	2.17	44.45	1.75
13041900-161600	-16	DN 25	1"	-16	1"		73.9	2.91	62.0	2.44	44.45	1.75
13041900-162000	-16	DN 25	1"	-20	1.1/4"		73.9	2.91	62.0	2.44	50.80	2.00
13041900-201600	-20	DN 32	1.1/4"	-16	1"		79.8	3.14	64.0	2.52	44.45	1.75
13041900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		88.1	3.47	74.0	2.91	50.80	2.00
13041900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		88.1	3.47	76.0	2.99	60.33	2.38
13041900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		94.5	3.72	74.0	2.91	50.80	2.00
13041900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		100.9	3.97	88.0	3.46	60.33	2.38
13041900-243200	-24	DN 38	1.1/2"	-32	2"		100.9	3.97	88.0	3.46	71.42	2.81
13041900-323200	-32	DN 51	2"	-32	2"		125.1	4.93	111.0	4.37	71.42	2.81

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF2P-MS - SAE 62 6K FL

13042000



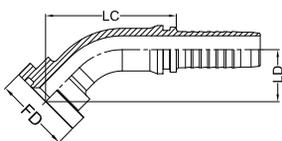
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042000-121200	-12	DN 19	3/4"	-12	3/4"		54.3	2.14	-	-	41.28	1.63
13042000-121600	-12	DN 19	3/4"	-16	1"		57.3	2.26	-	-	47.63	1.88
13042000-161200	-16	DN 25	1"	-12	3/4"		55.0	2.17	-	-	41.28	1.63
13042000-161600	-16	DN 25	1"	-16	1"		58.0	2.28	-	-	47.63	1.88
13042000-162000	-16	DN 25	1"	-20	1.1/4"		65.0	2.56	-	-	53.98	2.13
13042000-201600	-20	DN 32	1.1/4"	-16	1"		58.5	2.30	-	-	47.63	1.88
13042000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		65.5	2.58	-	-	53.98	2.13
13042000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		71.5	2.81	-	-	63.50	2.50
13042000-242000	-24	DN 38	1.1/2"	-20	1.1/4"		65.0	2.56	-	-	53.98	2.13
13042000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		74.0	2.91	-	-	63.50	2.50
13042000-243200	-24	DN 38	1.1/2"	-32	2"		88.0	3.46	-	-	79.38	3.13
13042000-323200	-32	DN 51	2"	-32	2"		89.0	3.50	-	-	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 45°

SAE J516 / ISO 12151-3

HF2P-MS - SAE 62 6K FL 45

13042400



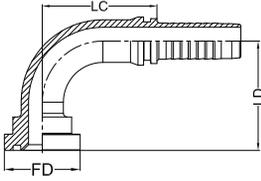
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042400-121200	-12	DN 19	3/4"	-12	3/4"		71.1	2.80	28.1	1.11	41.28	1.63
13042400-121600	-12	DN 19	3/4"	-16	1"		73.3	2.89	30.2	1.19	47.63	1.88
13042400-161200	-16	DN 25	1"	-12	3/4"		81.1	3.19	28.1	1.11	41.28	1.63
13042400-161600	-16	DN 25	1"	-16	1"		82.7	3.26	32.2	1.27	47.63	1.88
13042400-162000	-16	DN 25	1"	-20	1.1/4"		85.5	3.37	35.1	1.38	53.98	2.13
13042400-201600	-20	DN 32	1.1/4"	-16	1"		88.5	3.48	32.2	1.27	47.63	1.88
13042400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		98.2	3.87	39.4	1.55	53.98	2.13
13042400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		101.8	4.01	42.9	1.69	63.50	2.50
13042400-242000	-24	DN 38	1.1/2"	-20	1.1/4"		105.6	4.16	39.4	1.55	53.98	2.13
13042400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		111.6	4.39	45.9	1.81	63.50	2.50
13042400-243200	-24	DN 38	1.1/2"	-32	2"		117.2	4.61	51.5	2.03	79.38	3.13
13042400-322400	-32	DN 51	2"	-24	1.1/2"		121.3	4.78	45.9	1.81	63.50	2.50
13042400-323200	-32	DN 51	2"	-32	2"		137.0	5.39	58.8	2.31	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 90°

SAE J516 / ISO 12151-3

HF2P-MS - SAE 62 6K FL 90

13042900

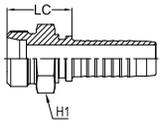


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	59.0	2.32	41.28	1.63
13042900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	62.0	2.44	47.63	1.88
13042900-161200	-16	DN 25	1"	-12	3/4"		72.4	2.85	59.0	2.32	41.28	1.63
13042900-161600	-16	DN 25	1"	-16	1"		73.9	2.91	69.0	2.72	47.63	1.88
13042900-162000	-16	DN 25	1"	-20	1.1/4"		73.9	2.91	73.0	2.87	53.98	2.13
13042900-201600	-20	DN 32	1.1/4"	-16	1"		79.8	3.14	69.0	2.72	47.63	1.88
13042900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		88.1	3.47	85.0	3.35	53.98	2.13
13042900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		88.1	3.47	90.0	3.54	63.50	2.50
13042900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		95.5	3.76	85.0	3.35	53.98	2.13
13042900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		100.9	3.97	100.0	3.94	63.50	2.50
13042900-243200	-24	DN 38	1.1/2"	-32	2"		100.9	3.97	108.0	4.25	79.38	3.13
13042900-323200	-32	DN 51	2"	-32	2"		125.1	4.93	130.0	5.12	79.38	3.13

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES
HF2P-MS - M24 CES M

DIN 20066 / ISO 12151-2

13054005

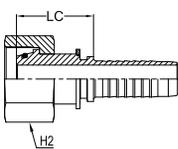


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13054005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	35.3	1.39	-	-	32	-
13054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.3	1.55	-	-	36	-
13054005-164200	-16	DN 25	1"	-42	30	M42 X 2	44.0	1.73	-	-	46	-
13054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.5	1.91	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS
HF2P-MS - M24 DKOS FS

DIN 20066 / ISO 12151-2

13056002

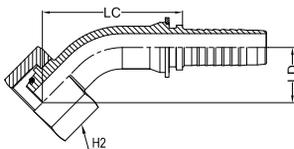


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	41.9	1.65	-	-	-	46
13056002-164200	-16	DN 25	1"	-42	30	M42 X 2	44.7	1.76	-	-	-	50
13056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.6	1.91	-	-	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°
HF2P-MS - M24 DKOS FS 45

DIN 20066 / ISO 12151-2

13056402

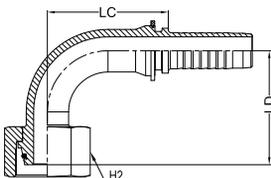


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	76.3	3.00	29.8	1.17	-	46
13056402-164200	-16	DN 25	1"	-42	30	M42 X 2	86.8	3.42	34.3	1.35	-	50
13056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	87.4	3.44	87.0	3.43	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°
HF2P-MS - M24 DKOS FS 90

DIN 20066 / ISO 12151-2

13056902

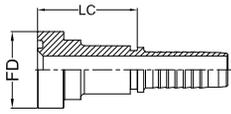


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	65.8	2.59	61.5	2.42	-	46
13056902-164200	-16	DN 25	1"	-42	30	M42 X 2	75.9	2.99	72.0	2.83	-	50
13056902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	87.4	3.44	87.0	3.43	-	60

SUPERCAT FLANGE

HF2P-MS - SCAT 9K FL

13073000

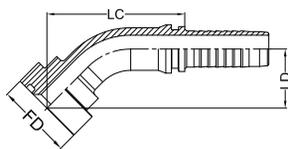


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073000-121200	-12	DN 19	3/4"	-12	3/4"		57.8	2.28	-	-	41.28	1.63
13073000-121600	-12	DN 19	3/4"	-16	1"		62.3	2.45	-	-	47.63	1.88
13073000-161600	-16	DN 25	1"	-16	1"		63.0	2.48	-	-	47.63	1.88
13073000-162000	-16	DN 25	1"	-20	1.1/4"		70.0	2.76	-	-	53.98	2.13
13073000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		70.5	2.78	-	-	53.98	2.13
13073000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		77.5	3.05	-	-	63.50	2.50

SUPERCAT FLANGE - 45°

HF2P-MS - SCAT 9K FL 45

13073400

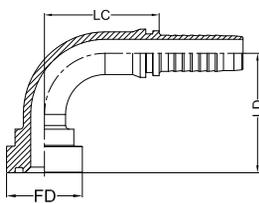


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073400-121200	-12	DN 19	3/4"	-12	3/4"		75.0	2.95	31.9	1.26	41.28	1.63
13073400-121600	-12	DN 19	3/4"	-16	1"		76.1	3.00	33.0	1.30	47.63	1.88
13073400-161600	-16	DN 25	1"	-16	1"		85.5	3.37	35.0	1.38	47.63	1.88
13073400-162000	-16	DN 25	1"	-20	1.1/4"		87.6	3.45	37.2	1.46	53.98	2.13
13073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		100.3	3.95	41.5	1.63	53.98	2.13
13073400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		103.2	4.06	44.3	1.74	63.50	2.50

SUPERCAT FLANGE - 90°

HF2P-MS - SCAT 9K FL 90

13073900



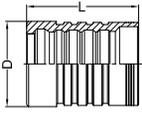
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073400-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	64.5	2.54	41.28	1.63
13073400-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	66.0	2.60	47.63	1.88
13073400-161600	-16	DN 25	1"	-16	1"		73.9	2.91	73.0	2.87	47.63	1.88
13073400-162000	-16	DN 25	1"	-20	1.1/4"		73.9	2.91	76.0	2.99	53.98	2.13
13073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		88.1	3.47	88.0	3.46	53.98	2.13
13073400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		88.1	3.47	92.0	3.62	63.50	2.50

FERRULES - INTERLOCK - 240 SERIES

FERRULE - INTERLOCK

FE2P-IL - 4SH/R13/R15

24030420

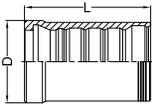


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030420-120000	4SH/R13/R15	-12	DN 19	3/4"	53.0	2.09	40.0	1.57
24030420-160000	4SH/R13/R15	-16	DN 25	1"	66.0	2.60	49.0	1.93

FERRULE - INTERLOCK

FE2P-IL - 4SH

24030430

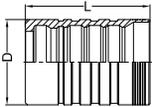


ITEM CODE	HOSE TYPE	HOSE TYPE			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030430-200000	4SH	-20	DN 32	1.1/4"	88.0	3.46	57.0	2.24
24030430-240000	4SH	-24	DN 38	1.1/2"	102.2	4.02	64.3	2.53
24030430-320000	4SH	-32	DN 51	2"	108.0	4.25	83.5	3.29

FERRULE - INTERLOCK

FE2P-IL - R13/R15

24030600



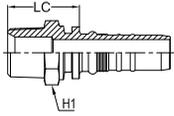
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		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030600-200000	R13/R15	-20	DN 32	1.1/4"	88.5	3.48	60.0	2.36
24030600-240000	R13/R15	-24	DN 38	1.1/2"	102.0	4.02	69.4	2.73
24030600-320000	R13/R15	-32	DN 51	2"	108.0	4.25	86.5	3.41

BSPT MALE

ISO 7

HF2P-IL - BSPT M

14004005



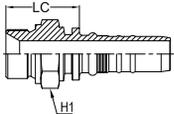
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14004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	39.0	1.54	-	-	30	-
14004005-161600	-16	DN 25	1"	-16	1"	1" X 11	49.9	1.96	-	-	38	-
14004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	56.3	2.22	-	-	46	-
14004005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	57.2	2.25	-	-	50	-
14004005-323200	-32	DN 51	2"	-32	2"	2" X 11	62.5	2.46	-	-	65	-

BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF2P-IL - BSPP M

14001005



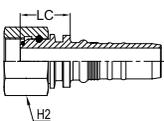
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	40.0	1.57	-	-	32	-
14001005-161600	-16	DN 25	1"	-16	1"	1" X 11	46.4	1.83	-	-	41	-
14001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	53.8	2.12	-	-	50	-
14001005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	56.7	2.23	-	-	55	-
14001005-323200	-32	DN 51	2"	-32	2"	2" X 11	62.0	2.44	-	-	70	-

BSPP 60° CONE O-RING FEMALE SWIVEL

BS5200 / ISO 12151-6

HF2P-IL - BSPP OR FS

14002003



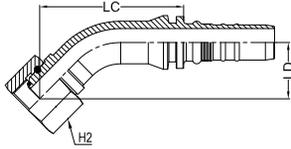
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002003-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	27.3	1.07	-	-	-	32
14002003-121600	-12	DN 19	3/4"	-16	1"	1" X 11	29.5	1.16	-	-	-	38
14002003-161600	-16	DN 25	1"	-16	1"	1" X 11	30.9	1.22	-	-	-	38
14002003-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	34.4	1.35	-	-	-	50
14002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	36.8	1.45	-	-	-	50
14002003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	38.6	1.52	-	-	-	60
14002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	38.5	1.52	-	-	-	60
14002003-323200	-32	DN 51	2"	-32	2"	2" X 11	38.5	1.52	-	-	-	75

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

BS5200 / ISO 12151-6

HF2P-IL - BSPP OR FS 45

14002403



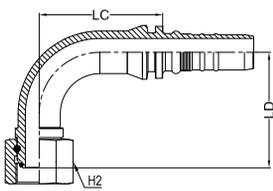
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002403-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	78.3	3.08	30.4	1.20	-	32
14002403-161600	-16	DN 25	1"	-16	1"	1" X 11	94.1	3.70	34.0	1.34	-	38
14002403-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	98.0	3.86	37.9	1.49	-	50
14002403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	109.8	4.32	42.2	1.66	-	50
14002403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	124.1	4.89	47.8	1.88	-	60
14002403-323200	-32	DN 51	2"	-32	2"	2" X 11	147.0	5.79	54.7	2.15	-	75

BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

BS5200 / ISO 12151-6

HF2P-IL - BSPP OR FS 90

14002903



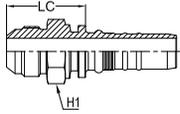
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002903-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	67.2	2.65	62.3	2.45	-	32
14002903-161600	-16	DN 25	1"	-16	1"	1" X 11	83.5	3.29	71.5	2.81	-	38
14002903-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	83.5	3.29	77.0	3.03	-	50
14002903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	96.9	3.81	89.0	3.50	-	50
14002903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	111.4	4.39	102.8	4.05	-	60
14002903-323200	-32	DN 51	2"	-32	2"	2" X 11	138.0	5.43	123.0	4.84	-	75

JIC 37° CONE MALE

HF2P-IL - JIC M

SAE J516 / ISO 12151-5

14011005



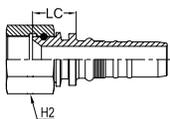
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	43.0	1.69	-	-	30	-
14011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	46.0	1.81	-	-	36	-
14011005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	47.4	1.87	-	-	38	-
14011005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	50.9	2.00	-	-	46	-
14011005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	54.3	2.14	-	-	46	-
14011005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	58.3	2.30	-	-	50	-
14011005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	58.2	2.29	-	-	50	-
14011005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	67.5	2.66	-	-	65	-

JIC 37° CONE SEAT FEMALE SWIVEL

HF2P-IL - JIC FS

SAE J516 / ISO 12151-5

14011003



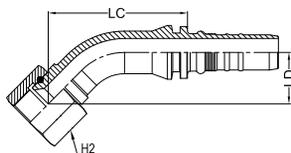
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011003-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	23.7	0.93	-	-	32	-
14011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	25.5	1.00	-	-	38	-
14011003-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	26.9	1.06	-	-	38	-
14011003-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	29.5	1.16	-	-	50	-
14011003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	31.9	1.26	-	-	50	-
14011003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	34.2	1.35	-	-	60	-
14011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	34.1	1.34	-	-	60	-
14011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	36.5	1.44	-	-	75	-

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

HF2P-IL - JIC FS 45

SAE J516 / ISO 12151-5

14011403



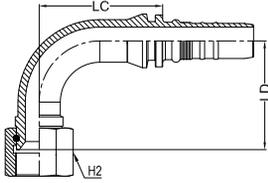
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14011403-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	75.7	2.98	21.0	0.83	-	32
14011403-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	77.0	3.03	24.0	0.94	-	38
14011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	91.3	3.59	24.0	0.94	-	38
14011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	106.4	4.19	25.0	0.98	-	50
14011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	121.0	4.76	27.0	1.06	-	60
14011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	145.5	5.73	34.0	1.34	-	75

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-5

HF2P-IL - JIC FS 90

14011903



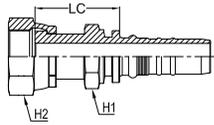
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14011903-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.2	2.65	58.7	2.31	-	32
14011903-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	67.2	2.65	71.0	2.80	-	38
14011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	83.5	3.29	71.0	2.80	-	38
14011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.5	3.29	78.0	2.07	-	50
14011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	96.9	3.81	78.0	3.07	-	50
14011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	96.9	3.81	86.0	3.39	-	60
14011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	111.4	4.39	86.0	3.39	-	60
14011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	138.0	5.43	140.0	5.51	-	75

ORFS FEMALE SWIVEL

SAE J516 / ISO 12151-1

HF2P-IL - ORFS FS

14031001



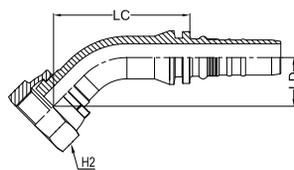
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14031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	46.0	1.81	-	-	30	36
14031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	52.0	2.05	-	-	36	41
14031001-161000	-16	DN 25	1"	-10	5/8"	1" X 14	48.9	1.93	-	-	38	30
14031001-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	51.4	2.02	-	-	38	36
14031001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	53.4	2.10	-	-	38	41
14031001-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	54.4	2.14	-	-	41	50
14031001-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	58.8	2.31	-	-	46	50
14031001-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	62.2	2.45	-	-	50	60

ORFS FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-5

HF2P-IL - ORFS FS 45

14031401



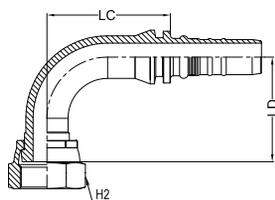
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14031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	74.2	2.92	21.0	0.83	-	36
14031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	74.5	2.93	24.0	0.94	-	41
14031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	88.8	3.50	24.0	0.94	-	41
14031401-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	88.8	3.50	25.0	0.98	-	50
14031401-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	100.7	3.96	25.0	0.98	-	50
14031401-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	112.2	4.42	27.0	1.06	-	60

ORFS FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-1

HF2P-IL - ORFS FS 90

14031901



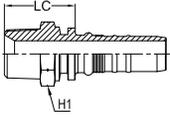
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	67.2	2.65	56.5	2.22	-	36
14031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	67.2	2.65	71.0	2.80	-	41
14031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	83.5	3.29	71.0	2.80	-	41
14031901-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	83.5	3.29	78.0	3.07	-	50
14031901-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	96.9	3.81	78.0	3.07	-	50

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF2P-IL - NPTF M

14023005



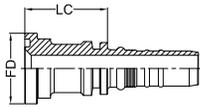
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	38.5	1.52	-	-	30	-
14023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	49.9	1.96	-	-	38	-
14023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	56.3	2.22	-	-	46	-
14023005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	58.2	2.29	-	-	50	-
14023005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	61.0	2.40	-	-	65	-

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF2P-IL - SAE 61 3K FL

14041000



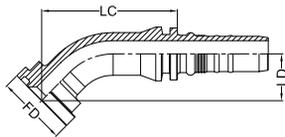
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	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041000-120800	-12	DN 19	3/4"	-08	1/2"		48.0	1.89	-	-	30.18	1.19
14041000-121200	-12	DN 19	3/4"	-12	3/4"		45.0	1.77	-	-	38.10	1.50
14041000-121600	-12	DN 19	3/4"	-16	1"		53.0	2.09	-	-	44.45	1.75
14041000-161600	-16	DN 25	1"	-16	1"		54.4	2.14	-	-	44.45	1.75
14041000-162000	-16	DN 25	1"	-20	1.1/4"		56.9	2.24	-	-	50.80	2.00
14041000-201600	-20	DN 32	1.1/4"	-16	1"		69.8	2.75	-	-	44.45	1.75
14041000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		59.3	2.33	-	-	50.80	2.00
14041000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		62.3	2.45	-	-	60.33	2.38
14041000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		62.2	2.45	-	-	60.33	2.38
14041000-243200	-24	DN 38	1.1/2"	-32	2"		73.7	2.90	-	-	71.42	2.81
14041000-323200	-32	DN 51	2"	-32	2"		73.5	2.89	-	-	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF2P-IL - SAE 61 3K FL 45

14041400



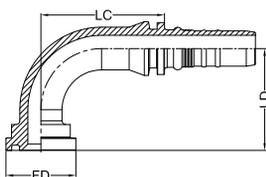
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041400-121200	-12	DN 19	3/4"	-12	3/4"		73.1	2.88	25.2	0.99	38.10	1.50
14041400-121600	-12	DN 19	3/4"	-16	1"		73.1	2.88	25.2	0.99	44.45	1.75
14041400-161600	-16	DN 25	1"	-16	1"		87.4	3.44	27.3	1.07	44.45	1.75
14041400-162000	-16	DN 25	1"	-20	1.1/4"		87.4	3.44	27.3	1.07	50.80	2.00
14041400-201600	-20	DN 32	1.1/4"	-16	1"		87.4	3.44	27.3	1.07	44.45	1.75
14041400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		99.2	3.91	31.6	1.24	50.80	2.00
14041400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		100.6	3.96	33.0	1.30	60.33	2.38
14041400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		113.7	4.48	37.4	1.47	60.33	2.38
14041400-243200	-24	DN 38	1.1/2"	-32	2"		113.7	4.48	37.4	1.47	71.42	2.81
14041400-323200	-32	DN 51	2"	-32	2"		135.7	5.34	45.4	1.79	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

HF2P-IL - SAE 61 3K FL 90

14041900



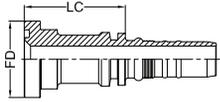
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	55.0	2.17	38.10	1.50
14041900-121600	-12	DN 19	3/4"	-16	1"		67.2	2.65	55.0	2.17	44.45	1.75
14041900-161600	-16	DN 25	1"	-16	1"		83.5	3.29	62.0	2.44	44.45	1.75
14041900-162000	-16	DN 25	1"	-20	1.1/4"		83.5	3.29	62.0	2.44	50.80	2.00
14041900-201600	-20	DN 32	1.1/4"	-16	1"		86.5	3.41	64.0	2.52	44.45	1.75
14041900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		96.9	3.81	74.0	2.91	50.80	2.00
14041900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		96.9	3.81	76.0	2.99	60.33	2.38
14041900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		97.4	3.83	74.0	2.91	50.80	2.00
14041900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		111.4	4.39	88.0	3.46	60.33	2.38
14041900-243200	-24	DN 38	1.1/2"	-32	2"		111.4	4.39	88.0	3.46	71.42	2.81
14041900-323200	-32	DN 51	2"	-32	2"		137.2	5.40	111.0	4.37	71.42	2.81

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF2P-IL - SAE 62 6K FL

14042000



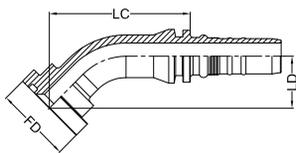
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	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14042000-121200	-12	DN 19	3/4"	-12	3/4"		55.0	2.17	-	-	41.28	1.63
14042000-121600	-12	DN 19	3/4"	-16	1"		58.0	2.28	-	-	47.63	1.88
14042000-161200	-16	DN 25	1"	-12	3/4"		56.4	2.22	-	-	41.28	1.63
14042000-161600	-16	DN 25	1"	-16	1"		59.4	2.34	-	-	47.63	1.88
14042000-162000	-16	DN 25	1"	-20	1.1/4"		66.4	2.61	-	-	53.98	2.13
14042000-201600	-20	DN 32	1.1/4"	-16	1"		61.8	2.43	-	-	47.63	1.88
14042000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		68.8	2.71	-	-	53.98	2.13
14042000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		74.8	2.94	-	-	63.50	2.50
14042000-242000	-24	DN 38	1.1/2"	-20	1.1/4"		68.7	2.70	-	-	53.98	2.13
14042000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		77.7	3.06	-	-	63.50	2.50
14042000-243200	-24	DN 38	1.1/2"	-32	2"		91.7	3.61	-	-	79.38	3.13
14042000-323200	-32	DN 51	2"	-32	2"		91.5	3.60	-	-	79.38	3.13

SAE FLANGE CODE 62 6000 PSI 45°

SAE J516 / ISO 12151-3

HF2P-IL - SAE 62 6K FL 45

14042400



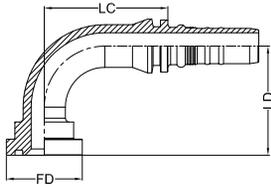
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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14042400-121200	-12	DN 19	3/4"	-12	3/4"		76.7	3.02	28.1	1.11	41.28	1.63
14042400-121600	-12	DN 19	3/4"	-16	1"		78.1	3.07	30.2	1.19	47.63	1.88
14042400-161200	-16	DN 25	1"	-12	3/4"		83.1	3.27	28.1	1.11	41.28	1.63
14042400-161600	-16	DN 25	1"	-16	1"		92.3	3.63	32.2	1.27	47.63	1.88
14042400-162000	-16	DN 25	1"	-20	1.1/4"		95.1	3.74	35.1	1.38	53.98	2.13
14042400-201600	-20	DN 32	1.1/4"	-16	1"		95.3	3.75	32.2	1.27	47.63	1.88
14042400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		107.0	4.21	39.4	1.55	53.98	2.13
14042400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		110.5	4.35	42.9	1.69	63.50	2.50
14042400-242000	-24	DN 38	1.1/2"	-20	1.1/4"		106.5	4.19	39.4	1.55	53.98	2.13
14042400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		121.1	4.77	45.9	1.81	63.50	2.50
14042400-243200	-24	DN 38	1.1/2"	-32	2"		127.8	5.03	51.5	2.03	79.38	3.13
14042400-322400	-32	DN 51	2"	-24	1.1/2"		129.9	5.11	45.9	1.81	63.50	2.50
14042400-323200	-32	DN 51	2"	-32	2"		149.2	5.87	58.8	2.31	79.38	3.13

SAE FLANGE CODE 62 6000 PSI 90°

SAE J516 / ISO 12151-3

HF2P-IL - SAE 62 6K FL 90

14042900



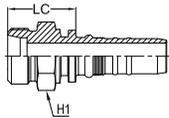
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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14042900-120800	-12	DN 19	3/4"	-08	1/2"		56.2	2.21	47.0	1.85	31.75	1.25
14042900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	59.0	2.32	41.28	1.63
14042900-121600	-12	DN 19	3/4"	-16	1"		67.2	2.65	62.0	2.44	47.63	1.88
14042900-161200	-16	DN 25	1"	-12	3/4"		74.4	2.93	59.0	2.32	41.28	1.63
14042900-161600	-16	DN 25	1"	-16	1"		83.5	3.29	69.0	2.72	47.63	1.88
14042900-162000	-16	DN 25	1"	-20	1.1/4"		83.5	3.29	73.0	2.87	53.98	2.13
14042900-201600	-20	DN 32	1.1/4"	-16	1"		86.5	3.41	69.0	2.72	47.63	1.88
14042900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		96.9	3.81	85.0	3.35	53.98	2.13
14042900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		96.9	3.81	90.0	3.54	63.50	2.50
14042900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		97.4	3.83	85.0	3.35	53.98	2.13
14042900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		110.4	4.35	100.0	3.94	63.50	2.50
14042900-243200	-24	DN 38	1.1/2"	-32	2"		111.4	4.39	108.0	4.25	79.38	3.13
14042900-323200	-32	DN 51	2"	-32	2"		137.2	5.40	130.0	5.12	79.38	3.13

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF2P-IL - M24 CES M

14054005



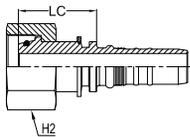
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14054005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	36.0	1.42	-	-	32	-
14054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	40.0	1.57	-	-	36	-
14054005-164200	-16	DN 25	1"	-42	30	M42 X 2	45.4	1.79	-	-	46	-
14054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.8	2.04	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS

DIN 20066 / ISO 12151-2

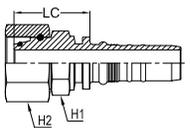
HF2P-IL - M24 DKOS FS

14056002



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	42.6	1.68	-	-	-	46
14056003-163600	-16	DN 25	1"	-36	25	M36 X 2	46.9	1.85	-	-	38	46
14056003-164200	-16	DN 25	1"	-42	30	M42 X 2	49.4	1.94	-	-	41	50
14056003-204200	-20	DN 32	1.1/4"	-42	30	M42 X 2	51.8	2.04	-	-	46	50
14056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.9	2.04	-	-	-	60
14056003-245200	-24	DN 38	1.1/2"	-52	38	M52 X 2	56.7	2.23	-	-	55	60

14056003

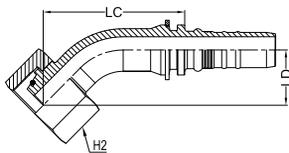


METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

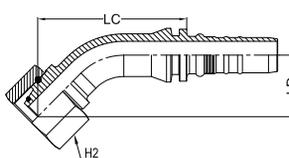
HF2P-IL - M24 DKOS FS 45

14056402



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	77.0	3.03	29.8	1.17	-	46
14056403-163600	-16	DN 25	1"	-36	25	M36 X 2	97.6	3.84	37.5	1.48	-	46
14056403-164200	-16	DN 25	1"	-42	30	M42 X 2	98.0	3.86	37.9	1.49	-	50
14056403-204200	-20	DN 32	1.1/4"	-42	30	M42 X 2	109.8	4.32	42.2	1.66	-	50
14056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	109.1	4.30	40.8	1.61	-	60
14056403-245200	-24	DN 38	1.1/2"	-52	38	M52 X 2	128.5	5.06	52.2	2.06	-	60

14056403

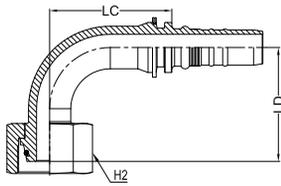


METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

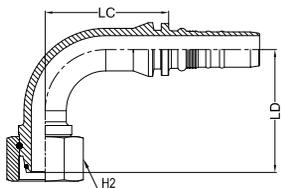
DIN 20066 / ISO 12151-2

HF2P-IL - M24 DKOS FS 90

14056902



14056903

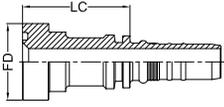


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	66.5	2.62	61.5	2.42	-	46
14056903-163600	-16	DN 25	1"	-36	25	M36 X 2	83.5	3.29	76.5	3.01	-	46
14056903-164200	-16	DN 25	1"	-42	30	M42 X 2	83.5	3.29	77.0	3.03	-	50
14056903-204200	-20	DN 32	1.1/4"	-42	30	M42 X 2	96.9	3.81	89.0	3.50	-	50
14056902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	97.5	3.84	87.0	3.43	-	60
14056903-245200	-24	DN 38	1.1/2"	-52	38	M52 X 2	111.4	4.39	109.0	4.29	-	60

SUPERCAT FLANGE

HF2P-IL - SCAT 9K FL

14073000

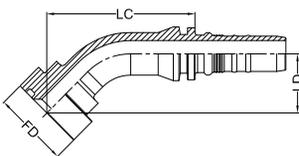


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073000-121200	-12	DN 19	3/4"	-12	3/4"		58.5	2.30	-	-	41.28	1.63
14073000-121600	-12	DN 19	3/4"	-16	1"		63.0	2.48	-	-	47.63	1.88
14073000-161600	-16	DN 25	1"	-16	1"		64.4	2.54	-	-	47.63	1.88
14073000-162000	-16	DN 25	1"	-20	1.1/4"		71.4	2.81	-	-	53.98	2.13
14073000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		73.8	2.91	-	-	53.98	2.13
14073000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		80.8	3.18	-	-	63.50	2.50
14073000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		80.7	3.18	-	-	63.50	2.50
14073000-323200	-32	DN 51	2"	-32	2"		96.5	3.80	-	-	79.37	3.12

SUPERCAT FLANGE - 45°

HF2P-MS - SCAT 9K FL 45

14073400

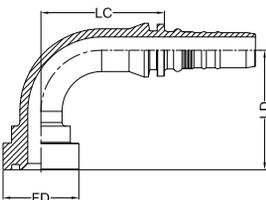


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073400-121200	-12	DN 19	3/4"	-12	3/4"		80.6	3.17	31.9	1.26	41.28	1.63
14073400-121600	-12	DN 19	3/4"	-16	1"		80.9	3.19	33.0	1.30	47.63	1.88
14073400-161600	-16	DN 25	1"	-16	1"		95.1	3.74	35.0	1.38	47.63	1.88
14073400-162000	-16	DN 25	1"	-20	1.1/4"		97.3	3.83	37.2	1.46	53.98	2.13
14073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		109.1	4.30	41.5	1.63	53.98	2.13
14073400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		112.0	4.41	44.3	1.74	63.50	2.50
14073400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		122.6	4.83	47.3	1.86	63.50	2.50

SUPERCAT FLANGE - 90°

HF2P-MS - SCAT 9K FL 90

14073900



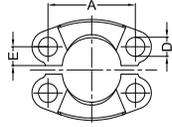
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	64.5	2.54	41.28	1.63
14073900-121600	-12	DN 19	3/4"	-16	1"		67.2	2.65	66.0	2.60	47.63	1.88
14073900-161600	-16	DN 25	1"	-16	1"		83.5	3.29	73.0	2.87	47.63	1.88
14073900-162000	-16	DN 25	1"	-20	1.1/4"		83.5	3.29	76.0	2.99	53.98	2.13
14073900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		96.9	3.81	88.0	3.46	53.98	2.13
14073900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		96.9	3.81	92.0	3.62	63.50	2.50
14073900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		110.4	4.35	102.0	4.02	63.50	2.50

SAE CODE 61 3000 PSI SPLIT FLANGE CLAMP

SAEJ 518 / ISO 6162-2

HF2P-MT - SAE 61 3K SFL

11041020



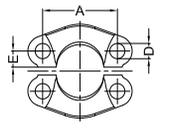
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11041020-080000	-			-08	1/2"		38.1	1.50	7.74	0.30	8.74	0.34
11041020-120000	-			-12	3/4"		47.6	1.87	10.13	0.40	10.31	0.41
11041020-160000	-			-16	1"		52.4	2.06	12.08	0.48	10.31	0.41
11041020-200000	-			-20	1.1/4"		58.7	2.31	14.09	0.55	11.91	0.47
11041020-240000	-			-24	1.1/2"		69.9	2.75	16.86	0.66	13.49	0.53
11041020-320000	-			-32	2"		77.8	3.06	20.44	0.80	13.49	0.53
11041020-400000	-			-40	2.1/2"		88.9	3.50	24.40	0.96	13.49	0.53
11041020-480000	-			-48	3"		106.4	4.19	29.96	1.18	16.66	0.66
11041020-560000	-			-56	3.1/2"		120.7	4.75	33.93	1.34	16.66	0.66
11041020-640000	-			-64	4"		130.2	5.13	37.89	1.49	16.66	0.66
11041020-800000	-			-80	5"		152.4	6.00	45.02	1.77	16.66	0.66

SAE CODE 62 6000 PSI SPLIT FLANGE CLAMP

SAE J518 / ISO 6162-2

HF2P-MT - SAE 62 6K SFL

11042020



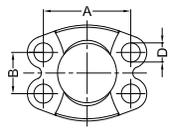
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11042020-080000	-	-	-	-08	1/2"	-	40.5	1.59	8.12	0.32	8.74	0.34
11042020-120000	-	-	-	-12	3/4"	-	50.8	2.00	10.91	0.43	10.31	0.41
11042020-160000	-	-	-	-16	1"	-	57.2	2.25	12.89	0.51	12.75	0.50
11042020-200000	-	-	-	-20	1.1/4"	-	66.7	2.63	14.89	0.59	14.75	0.58
11042020-240000	-	-	-	-24	1.1/2"	-	79.4	3.13	17.26	0.68	16.66	0.66
11042020-320000	-	-	-	-32	2"	-	96.8	3.81	21.23	0.84	21.00	0.83

SAE CODE 61 3000 PSI FOUR BOLT FLANGE CLAMP

SAE J518 / ISO 6162-2

HF2P-MT - SAE 61 3K 4FL

11041010



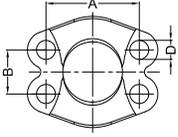
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11041010-120000	-	-	-	-12	3/4"	-	47.6	1.87	22.23	0.88	10.31	0.41
11041010-160000	-	-	-	-16	1"	-	52.4	2.06	26.19	1.03	10.31	0.41
11041010-200000	-	-	-	-20	1.1/4"	-	58.7	2.31	30.18	1.19	11.91	0.47
11041010-240000	-	-	-	-24	1.1/2"	-	69.9	2.75	35.71	1.41	13.49	0.53
11041010-320000	-	-	-	-32	2"	-	77.8	3.06	42.88	1.69	13.49	0.53
11041010-400000	-	-	-	-40	2.1/2"	-	88.9	3.50	50.80	2.00	13.49	0.53
11041010-480000	-	-	-	-48	3"	-	106.4	4.19	61.93	2.44	16.66	0.66
11041010-560000	-	-	-	-56	3.1/2"	-	120.7	4.75	69.85	2.75	16.66	0.66
11041010-640000	-	-	-	-64	4"	-	130.2	5.13	77.77	3.06	16.66	0.66
11041010-800000	-	-	-	-80	5"	-	152.4	6.00	92.08	3.63	16.66	0.66

SAE CODE 62 6000 PSI FOUR BOLT FLANGE CLAMP

SAE J518 / ISO 6162-2

HF2P-MT - SAE 62 6K 4FL

11042010



ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11042010-080000	-	-	-	-08	1/2"	-	40.5	1.59	18.24	0.72	8.74	0.34
11042010-120000	-	-	-	-12	3/4"	-	50.8	2.00	23.80	0.94	10.31	0.41
11042010-160000	-	-	-	-16	1"	-	57.2	2.25	27.76	1.09	12.75	0.50
11042010-200000	-	-	-	-20	1.1/4"	-	66.7	2.63	31.75	1.25	14.75	0.58
11042010-240000	-	-	-	-24	1.1/2"	-	79.4	3.13	36.50	1.44	16.66	0.66
11042010-320000	-	-	-	-32	2"	-	96.8	3.81	44.45	1.75	21.00	0.83
11042010-400000	-	-	-	-40	2.1/2"	-	123.8	4.87	58.70	2.31	25.00	0.98

ONE PIECE FITTINGS

ONE PIECE - WIRE BRAID - 1SC / R17 / 1SN / R1AT / 2SC / R16 / 2SN /
R2AT - R12 -20 -24
350 SERIES 89

ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16
355 SERIES 112

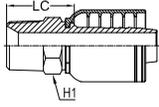
ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15* - 4SP -12 -16
360 SERIES 128

BSPT MALE

ISO 7

HF1P-WB - BSPT M
HF1P-R12 -20 -24 - BSPT M

35004005



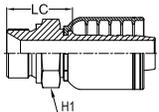
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35004005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.2	0.87	-	-	12	-
35004005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.7	1.05	-	-	17	-
35004005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	28.2	1.11	-	-	19	-
35004005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 19	27.0	1.06	-	-	17	-
35004005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.5	1.12	-	-	19	-
35004005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.5	1.32	-	-	22	-
35004005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	28.5	1.12	-	-	19	-
35004005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	33.5	1.32	-	-	22	-
35004005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	34.5	1.36	-	-	27	-
35004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	34.8	1.37	-	-	27	-
35004005-161600	-16	DN 25	1"	-16	1"	1" X 11	46.0	1.81	-	-	36	-
35004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	50.5	1.99	-	-	46	-
35004005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	53.0	2.09	-	-	50	-
35004005-323200	-32	DN 51	2"	-32	2"	2" X 11	58.5	2.30	-	-	65	-

BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF1P-WB - BSPP M
HF1P-R12 -20 -24 - BSPP M

35001005



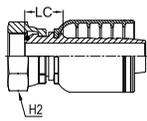
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35001005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.4	0.88	-	-	14	-
35001005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.2	1.03	-	-	19	-
35001005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	27.7	1.09	-	-	22	-
35001005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.0	1.10	-	-	22	-
35001005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.5	1.24	-	-	27	-
35001005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	28.0	1.10	-	-	22	-
35001005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	31.5	1.24	-	-	27	-
35001005-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	35.5	1.40	-	-	30	-
35001005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	35.5	1.40	-	-	32	-
35001005-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	35.7	1.41	-	-	30	-
35001005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	35.8	1.41	-	-	32	-
35001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.8	1.41	-	-	32	-
35001005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	40.8	1.61	-	-	41	-
35001005-161600	-16	DN 25	1"	-16	1"	1" X 11	42.5	1.67	-	-	41	-
35001005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	46.5	1.83	-	-	50	-
35001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	48.0	1.89	-	-	50	-
35001005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	52.5	2.07	-	-	55	-
35001005-323200	-32	DN 51	2"	-32	2"	2" X 11	58.0	2.28	-	-	70	-

BSPP 60° CONE O-RING FEMALE SWIVEL

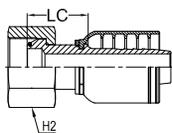
BS5200 / ISO 12151-6

HF1P-WB - BSPP OR FS
HF1P-R12 -20 -24 - BSPP OR FS

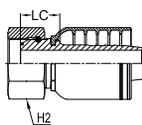
35002001



35002002



35002003



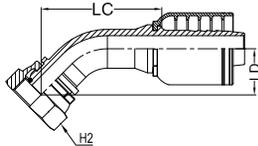
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35001001-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	15.2	0.60	-	-	-	14
35002001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.2	0.68	-	-	-	19
35002002-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	23.2	0.91	-	-	-	22
35002001-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 19	17.5	0.69	-	-	-	19
35002002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	23.5	0.93	-	-	-	22
35002002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	24.5	0.96	-	-	-	27
35002001-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	18.0	0.71	-	-	-	22
35002002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	24.5	0.96	-	-	-	27
35002002-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	27.8	1.09	-	-	-	27
35002002-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	28.4	1.12	-	-	-	32
35002001-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	17.7	0.70	-	-	-	27
35002001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	20.8	0.82	-	-	-	32
35002001-161600	-16	DN 25	1"	-16	1"	1" X 11	24.5	0.96	-	-	-	38
35002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	33.0	1.30	-	-	-	50
35002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	36.3	1.43	-	-	-	55
35002003-323200	-32	DN 51	2"	-32	2"	2" X 11	36.5	1.44	-	-	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

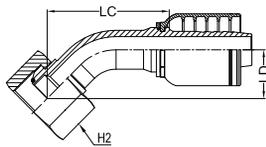
BS5200 / ISO 12151-6

HF1P-WB - BSPP OR FS 45
HF1P-R12 -20 -24 - BSPP OR FS 45

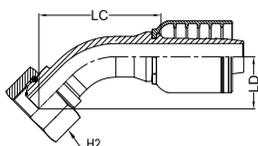
35002401



35002402



35002403



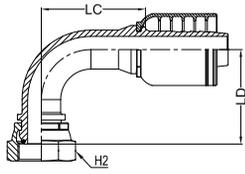
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35002401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	40.0	1.57	17.2	0.68	-	19
35002402-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	43.7	1.72	19.4	0.76	-	22
35002402-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	44.7	1.76	19.7	0.78	-	22
35002402-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	44.3	1.74	19.4	0.76	-	27
35002402-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	49.1	1.93	21.6	0.85	-	27
35002402-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	51.2	2.02	23.4	0.92	-	27
35002402-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	49.9	1.96	21.9	0.86	-	32
35002401-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	57.0	2.24	22.2	0.87	-	27
35002401-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	67.1	2.64	26.3	1.04	-	32
35002401-161600	-16	DN 25	1"	-16	1"	1" X 11	80.5	3.17	31.5	1.24	-	38
35002403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	106.0	4.17	42.2	1.66	-	50
35002403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	120.6	4.75	47.8	1.88	-	55
35002403-323200	-32	DN 51	2"	-32	2"	2" X 11	140.8	5.54	54.7	2.15	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

BS5200 / ISO 12151-6

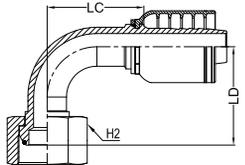
HF1P-WB - BSPP OR FS 90
 HF1P-R12 -20 -24 - BSPP OR FS 90

35002901

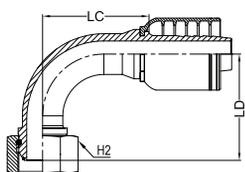


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35002901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.3	1.19	32.0	1.26	-	19
35002902-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	32.0	1.26	35.0	1.38	-	22
35002902-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	33.2	1.31	36.0	1.42	-	22
35002902-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.2	1.31	35.5	1.40	-	27
35002902-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	37.4	1.47	40.5	1.59	-	27
35002902-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	37.8	1.49	43.0	1.69	-	27
35002902-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	37.9	1.49	40.9	1.61	-	32
35002901-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	49.4	1.94	46.0	1.81	-	27
35002901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	56.7	2.23	53.0	2.09	-	32
35002901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.4	2.85	68.0	2.68	-	38
35002903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	93.1	3.67	89.0	3.50	-	50
35002903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	107.9	4.25	102.8	4.05	-	55
35002903-323200	-32	DN 51	2"	-32	2"	2" X 11	131.9	5.19	123.0	4.84	-	70

35002902



35002903

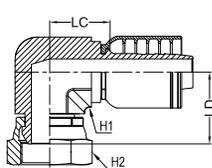


BSPP 60° CONE O-RING FEMALE SWIVEL - 90° - COMPACT

BS5200 / ISO 12151-6

HF1P-WB - BSPP FS 90 CP
 HF1P-R12 -20 -24 - BSPP FS 90 CP

350029C1



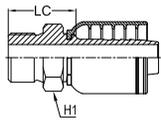
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350029C1-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.5	0.69	18.5	0.73	11	19
350029C1-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	20.0	0.79	24.0	0.94	16	22
350029C1-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	20.0	0.79	24.0	0.94	16	22
350029C1-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	23.5	0.93	28.5	1.12	19	27
350029C1-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	23.5	0.93	28.5	1.12	19	27
350029C1-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	24.5	0.96	30.5	1.20	22	27
350029C1-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	27.5	1.08	33.0	1.30	27	32
350029C1-161600	-16	DN 25	1"	-16	1"	1" X 11	43.0	1.69	38.5	1.52	33	38

BSP FLAT SEAT MALE

HF1P-WB - BSPP FSEAT M

HF1P-R12 -20 -24 - BSPP FSEAT M

35003005



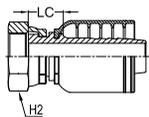
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35003005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.2	1.03	-	-	19	-
35003005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.0	1.10	-	-	22	-
35003005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.5	1.24	-	-	27	-
35003005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	31.5	1.24	-	-	27	-
35003005-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	35.7	1.41	-	-	30	-
35003005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.8	1.41	-	-	32	-
35003005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	40.8	1.61	-	-	41	-
35003005-161600	-16	DN 25	1"	-16	1"	1" X 11	42.5	1.67	-	-	41	-

BSPP FLAT SEAT FEMALE SWIVEL

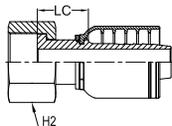
HF1P-WB - BSPP FSEAT FS

HF1P-R12 -20 -24 - BSPP FSEAT FS

35003001



35003002



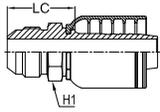
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35003002-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.2	0.68	-	-	-	19
35003002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	20.0	0.79	-	-	-	22
35003002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	20.0	0.79	-	-	-	27
35003002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	20.0	0.79	-	-	-	27
35003001-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	17.4	0.69	-	-	-	27
35003001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	18.3	0.72	-	-	-	32
35003001-161600	-16	DN 25	1"	-16	1"	1" X 11	20.5	0.81	-	-	-	38

JIC 37° CONE MALE

SAE J516 / ISO 12151-5

HF1P-WB - JIC M
HF1P-R12 -20 -24 - JIC M

35011005



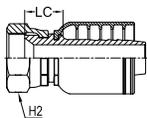
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	25.2	0.99	-	-	12	-
35011005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	25.2	0.99	-	-	14	-
35011005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	26.2	1.03	-	-	17	-
35011005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	26.5	1.04	-	-	17	-
35011005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	30.0	1.18	-	-	19	-
35011005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	30.0	1.18	-	-	19	-
35011005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	34.0	1.34	-	-	24	-
35011005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	36.5	1.44	-	-	27	-
35011005-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	34.2	1.35	-	-	24	-
35011005-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	36.7	1.44	-	-	27	-
35011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	36.8	1.45	-	-	27	-
35011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	41.8	1.65	-	-	36	-
35011005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	43.5	1.71	-	-	36	-
35011005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	47.0	1.85	-	-	46	-
35011005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	48.5	1.91	-	-	46	-
35011005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	52.5	2.07	-	-	50	-
35011005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	54.0	2.13	-	-	50	-
35011005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	63.5	2.50	-	-	65	-

JIC 37° CONE SEAT FEMALE SWIVEL

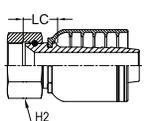
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS
HF1P-R12 -20 -24 - JIC FS

35011001



35011003



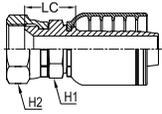
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.7	0.58	-	-	-	15
35011001-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	15.2	0.60	-	-	-	17
35011001-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	15.2	0.60	-	-	-	19
35011001-060500	-06	DN 10	3/8"	-05	5/16"	1/2" X 20	15.5	0.61	-	-	-	17
35011001-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	15.5	0.61	-	-	-	19
35011001-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	18.0	0.71	-	-	-	25
35011001-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	20.0	0.79	-	-	-	27
35011001-080600	-08	DN 12	1/2"	-06	3/8"	9/16" X 18	15.5	0.61	-	-	-	19
35011001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	18.0	0.71	-	-	-	25
35011001-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	20.0	0.79	-	-	-	27
35011001-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	20.5	0.81	-	-	-	32
35011001-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	20.2	0.80	-	-	-	27
35011001-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	20.3	0.80	-	-	-	27
35011001-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	20.8	0.82	-	-	-	32
35011001-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	22.3	0.88	-	-	-	38
35011001-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	24.0	0.94	-	-	-	38
35011003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	28.1	1.11	-	-	-	50
35011003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	30.4	1.20	-	-	-	55
35011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	31.9	1.26	-	-	-	55
35011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	34.5	1.36	-	-	-	70

JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

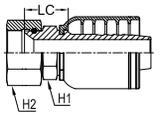
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS DH
 HF1P-R12 -20 -24 - JIC FS DH

350110H1



350110H3



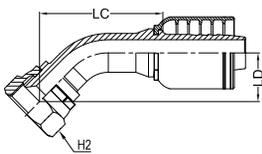
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350110H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.7	0.78	-	-	14	15
350110H1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	20.2	0.80	-	-	14	17
350110H1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	20.2	0.80	-	-	14	19
350110H1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	21.5	0.85	-	-	17	19
350110H1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	25.0	0.98	-	-	19	25
350110H1-080600	-08	DN 12	1/2"	-06	3/8"	9/16" X 18	22.5	0.89	-	-	19	19
350110H1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	25.0	0.98	-	-	19	25
350110H1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	26.0	1.02	-	-	22	27
350110H1-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	27.5	1.08	-	-	25	32
350110H1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	27.2	1.07	-	-	24	27
350110H1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	27.8	1.09	-	-	27	32
350110H1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	31.3	1.23	-	-	32	38
350110H1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	33.0	1.30	-	-	32	38
350110H3-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	40.1	1.58	-	-	46	50
350110H3-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	44.9	1.77	-	-	50	55
350110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	50.5	1.99	-	-	65	70

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

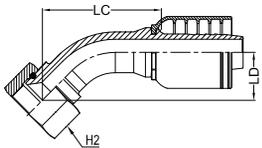
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 45
 HF1P-R12 -20 -24 - JIC FS 45

35011401



35011403



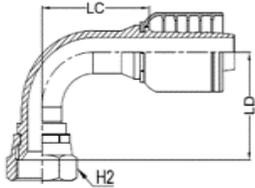
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011401-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	38.2	1.50	10.0	0.39	-	15
35011401-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	38.6	1.52	10.0	0.39	-	17
35011401-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	38.6	1.52	11.0	0.43	-	19
35011401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.9	1.57	11.0	0.43	-	19
35011401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.4	1.67	15.0	0.59	-	25
35011401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	46.9	1.85	15.0	0.59	-	25
35011401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	47.6	1.87	16.0	0.63	-	27
35011401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	49.3	1.94	21.0	0.83	-	32
35011401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	58.7	2.31	16.0	0.63	-	27
35011401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.1	2.64	21.0	0.83	-	32
35011401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	68.2	2.69	24.0	0.94	-	38
35011401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	80.1	3.15	24.0	0.94	-	38
35011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	102.6	4.04	25.0	0.98	-	50
35011403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	105.6	4.16	27.0	1.06	-	55
35011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	117.4	4.62	27.0	1.06	-	55
35011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	139.4	5.49	34.0	1.34	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - SHORT DROP

SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 90 SD
 HF1P-R12 -20 -24 - JIC FS 90 SD

350119S1



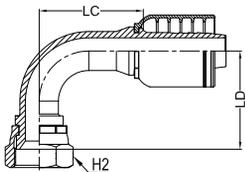
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350119S1-030400	-3	DN 05	3/16"	-4	1/4"	7/16" X 20	26.7	1.05	21.0	0.83	-	15
350119S1-040400	-4	DN 06	1/4"	-4	1/4"	7/16" X 20	27.4	1.08	21.0	0.83	-	15
350119S1-040500	-4	DN 06	1/4"	-5	5/16"	1/2" X 20	27.4	1.08	21.0	0.83	-	17
350119S1-040600	-4	DN 06	1/4"	-6	3/8"	9/16" X 18	27.4	1.08	24.5	0.96	-	19
350119S1-050600	-5	DN 08	5/16"	-6	3/8"	9/16" X 18	29.8	1.17	23.0	0.91	-	19
350119S1-060600	-6	DN 10	3/8"	-6	3/8"	9/16" X 18	31.7	1.25	23.0	0.91	-	19
350119S1-060800	-6	DN 10	3/8"	-8	1/2"	3/4" X 16	31.7	1.25	29.0	1.14	-	25
350119S1-080800	-8	DN 12	1/2"	-8	1/2"	3/4" X 16	36.5	1.44	29.0	1.14	-	25
350119S1-081000	-8	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	32.0	1.26	-	27
350119S1-081200	-8	DN 12	1/2"	-12	3/4"	1.1/16" X 12	36.5	1.44	48.0	1.89	-	32
350119S1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	27.8	1.76	32.0	1.26	-	27
350119S1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	44.8	1.76	48.0	1.89	-	32
350119S1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	44.8	2.07	48.0	1.89	-	32
350119S1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	52.5	2.07	56.0	2.20	-	38
350119S1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	52.5	2.65	56.0	2.20	-	38

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

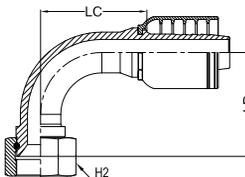
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 90
 HF1P-R12 -20 -24 - JIC FS 90 SD

35011901



35011903



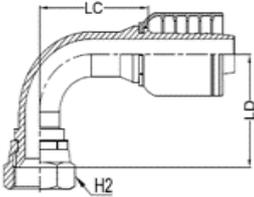
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011901-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.3	1.19	32.0	1.26	-	15
35011901-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	30.3	1.19	32.0	1.26	-	17
35011901-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	30.3	1.19	38.0	1.50	-	19
35011901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.9	1.26	38.0	1.50	-	19
35011901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.9	1.26	41.0	1.61	-	25
35011901-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	35.9	1.41	39.5	1.56	-	25
35011901-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	35.9	1.41	47.0	1.85	-	27
35011901-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.4	1.94	48.5	1.91	-	27
35011901-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	56.7	2.23	58.0	2.28	-	32
35011901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	56.7	2.23	71.0	2.80	-	38
35011901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.4	2.85	71.0	2.80	-	38
35011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.4	2.85	78.0	3.07	-	50
35011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	93.1	3.67	78.0	3.07	-	50
35011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	93.1	3.67	86.0	3.39	-	55
35011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	107.9	4.25	86.0	3.39	-	55
35011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	131.9	5.19	140.0	5.51	-	70

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - LONG DROP

SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 90 LD
 HF1P-R12 -20 -24 - JIC FS 90 LD

350119L1



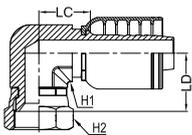
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350119L1-030400	-3	DN 05	3/16"	-4	1/4"	7/16" X 20	27.7	1.09	46.0	1.81	-	15
350119L1-040400	-4	DN 06	1/4"	-4	1/4"	7/16" X 20	30.4	1.20	46.0	1.81	-	15
350119L1-040500	-4	DN 06	1/4"	-5	5/16"	1/2" X 18	30.4	1.20	46.0	1.81	-	17
350119L1-040600	-4	DN 06	1/4"	-6	3/8"	9/16" X 18	30.4	1.20	54.0	2.13	-	19
350119L1-050600	-5	DN 08	5/16"	-6	3/8"	9/16" X 16	31.4	1.24	54.0	2.13	-	19
350119L1-060600	-6	DN 10	3/8"	-6	3/8"	9/16" X 16	31.7	1.25	54.0	2.13	-	19
350119L1-060800	-6	DN 10	3/8"	-6	1/2"	3/4" X 16	31.7	1.25	64.0	2.52	-	25
350119L1-080800	-8	DN 12	1/2"	-8	1/2"	3/4" X 16	36.5	1.44	64.0	2.52	-	25
350119L1-081000	-8	DN 12	1/2"	-8	5/8"	7/8" X 14	36.5	1.44	70.0	2.76	-	27
350119L1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.8	1.96	70.0	2.76	-	27
350119L1-101200	-10	DN 16	5/8"	-10	3/4"	1.1/16" X 12	49.8	1.96	95.0	3.78	-	32
350119L1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.5	2.26	95.0	3.78	-	32
350119L1-121400	-12	DN 19	3/4"	-12	7/8"	1.3/16" X 12	57.5	2.26	95.0	3.74	-	36
350119L1-121600	-12	DN 19	3/4"	-14	1"	1.5/16" X 12	57.5	2.26	114.0	4.49	-	38
350119L1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.3	2.85	114.0	4.49	-	38

JIC 37° CONE SEAT FEMALE SWIVEL - 90° - COMPACT

SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 90 CP
 HF1P-R12 -20 -24 - JIC FS 90 CP

350119C1



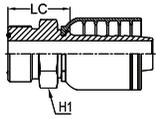
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350119C1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	17.5	0.69	16.0	0.63	11	15
350119C1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	20.0	0.79	21.5	0.85	16	19
350119C1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	23.5	0.93	27.5	1.08	19	25
350119C1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	24.5	0.96	30.5	1.20	22	27
350119C1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	27.5	1.08	33.0	1.30	27	32
350119C1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	43.0	1.69	38.0	1.50	33	38

ORFS MALE

SAE J516 / ISO 12151-1

HF1P-WB - ORFS M
HF1P-R12 -20 -24 - ORFS M

35031005



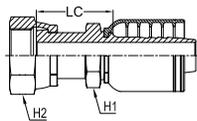
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35031005-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	22.2	0.87	-	-	17	-
35031005-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	24.2	0.95	-	-	19	-
35031005-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	24.5	0.96	-	-	19	-
35031005-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	26.5	1.04	-	-	22	-
35031005-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	26.5	1.04	-	-	22	-
35031005-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	30.0	1.18	-	-	27	-
35031005-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	30.2	1.19	-	-	27	-
35031005-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	33.7	1.33	-	-	32	-
35031005-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	33.8	1.33	-	-	32	-
35031005-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	38.0	1.50	-	-	38	-

ORFS FEMALE SWIVEL

SAE J516 / ISO 12151-1

HF1P-WB - ORFS FS
HF1P-R12 -20 -24 - ORFS FS

35031001



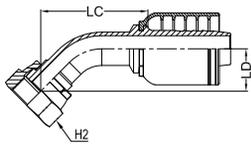
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031001-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	27.2	1.07	-	-	14	17
35031001-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	30.2	1.19	-	-	17	22
35031001-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	30.5	1.20	-	-	17	22
35031001-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	35.5	1.40	-	-	22	24
35031001-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.5	1.40	-	-	22	24
35031001-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	39.0	1.54	-	-	24	30
35031001-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	39.2	1.54	-	-	24	30
35031001-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	41.7	1.64	-	-	30	36
35031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	41.8	1.65	-	-	30	36
35031001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	49.5	1.95	-	-	36	41

ORFS FEMALE SWIVEL - 45°

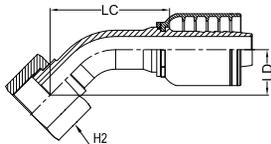
SAE J516 / ISO 12151-1

HF1P-WB - ORFS FS 45
 HF1P-R12 -20 -24 - ORFS FS 45

35031401



35031402



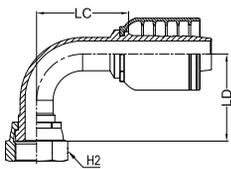
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031402-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	37.7	1.48	10.0	0.39	-	17
35031402-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	39.5	1.56	11.0	0.43	-	22
35031402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.5	1.59	11.0	0.43	-	22
35031402-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	41.2	1.62	16.2	0.64	-	24
35031401-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	44.4	1.75	15.0	0.59	-	24
35031402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	48.5	1.91	16.0	0.63	-	30
35031402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	58.8	2.31	16.0	0.63	-	30
35031402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.0	2.56	21.0	0.83	-	36
35031402-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	76.9	3.03	24.0	0.94	-	41

ORFS FEMALE SWIVEL - 90° SHORT DROP

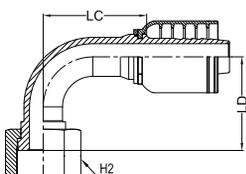
SAE J516 / ISO 12151-5

HF1P-WB - ORFS FS 90 SD
 HF1P-R12 -20 -24 - ORFS FS 90 SD

350319S1



350319S2



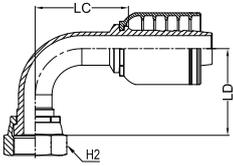
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350319S2-040400	-4	DN 06	1/4"	-4	1/4"	9/16" X 18	29.1	1.15	21.0	0.83	-	17
350319S2-040600	-4	DN 06	1/4"	-6	3/8"	11/16" X 16	29.1	1.15	23.5	0.93	-	22
350319S2-050600	-5	DN 08	5/16"	-6	3/8"	11/16" X 16	32.3	1.27	24.0	0.94	-	22
350319S1-060600	-6	DN 10	3/8"	-6	3/8"	11/16" X 16	33.1	1.30	23.0	0.91	-	22
350319S1-060800	-6	DN 10	3/8"	-8	1/2"	13/16" X 16	33.1	1.30	28.0	1.10	-	24
350319S1-080800	-8	DN 12	1/2"	-8	1/2"	13/16" X 16	36.5	1.44	29.0	1.14	-	24
350319S2-081000	-8	DN 12	1/2"	-10	5/8"	1" X 14	40.5	1.59	32.0	1.26	-	30
350319S1-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	46.1	1.81	32.0	1.26	-	30
350319S2-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	46.1	1.81	48.0	1.89	-	36
350319S1-121000	-12	DN 19	3/4"	-10	5/8"	1" X 14	45.9	1.81	32.0	1.26	-	30
350319S1-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	52.1	2.05	48.0	1.89	-	36
350319S2-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	52.1	2.05	56.0	2.20	-	41
350319S1-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	56.9	2.24	48.0	1.89	-	36
350319S2-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	66.5	2.62	57.0	2.24	-	41
350319S2-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	66.5	2.62	64.0	2.52	-	50
350319S2-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	80.9	3.19	64.0	2.52	-	50
350319S2-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	80.9	3.19	69.0	2.72	-	60
350319S2-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	93.8	3.69	69.0	2.72	-	60

ORFS FEMALE SWIVEL - 90°

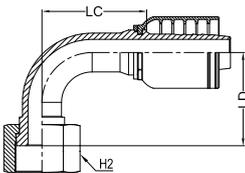
SAE J516 / ISO 12151-1

HF1P-WB - ORFS FS 90
HF1P-R12 -20 -24 - ORFS FS 90

35031901



35031902



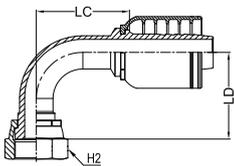
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	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031902-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.0	1.26	32.0	1.26	-	17
35031902-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.0	1.26	38.0	1.50	-	22
35031902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.3	1.31	38.0	1.50	-	22
35031902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.3	1.31	41.0	1.61	-	24
35031901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.9	1.41	41.0	1.61	-	24
35031902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	37.9	1.49	47.0	1.85	-	30
35031902-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	50.6	1.99	47.0	1.85	-	30
35031902-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	56.3	2.22	58.0	1.28	-	36
35031902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.6	2.82	71.0	2.80	-	41

ORFS FEMALE SWIVEL - 90° LONG DROP

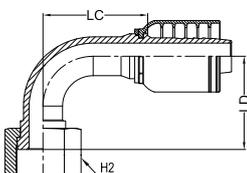
SAE J516 / ISO 12151-1

HF1P-WB - ORFS FS 90 LD
HF1P-R12 -20 -24 - ORFS FS 90 LD

350319L1



350319L2



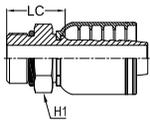
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350319L2-040400	-4	DN 06	1/4"	-4	1/4"	9/16" X 18	32.1	1.26	46.0	1.81	-	17
350319L2-040600	-4	DN 06	1/4"	-6	3/8"	11/16" X 16	32.1	1.26	54.0	2.13	-	22
350319L2-050600	-5	DN 08	5/16"	-6	3/8"	11/16" X 16	33.3	1.31	54.0	2.13	-	22
350319L2-060600	-6	DN 10	3/8"	-6	3/8"	11/16" X 16	33.1	1.30	54.0	2.13	-	22
350319L2-060800	-6	DN 10	3/8"	-8	1/2"	13/16" X 16	33.1	1.30	64.0	2.52	-	24
350319L1-080800	-8	DN 12	1/2"	-8	1/2"	13/16" X 16	36.5	1.44	64.0	2.52	-	24
350319L2-081000	-8	DN 12	1/2"	-10	5/8"	1" X 14	38.5	1.52	70.0	2.76	-	30
350319L2-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	51.1	2.01	70.0	2.76	-	30
350319L2-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	57.1	2.25	96.0	3.78	-	36
350319L2-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.5	2.81	114.0	4.49	-	41
350319L2-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	71.5	2.81	129.0	5.08	-	50
350319L2-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.9	3.38	129.0	5.08	-	50
350319L2-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	85.9	3.38	141.0	5.55	-	60
350319L2-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	100.8	3.97	141.0	5.55	-	60

SAE O-RING BOSS MALE

SAE J516 / ISO 11926

HF1P-WB - SAE ORB M
HF1P-R12 -20 -24 - SAE ORB M

35012005



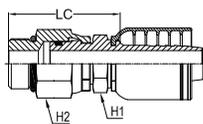
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35012005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	20.2	0.80	-	-	14	-
35012005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	21.2	0.83	-	-	16	-
35012005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	22.2	0.87	-	-	17	-
35012005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	23.5	0.93	-	-	19	-
35012005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	24.5	0.96	-	-	22	-
35012005-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	27.0	1.06	-	-	27	-
35012005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	24.5	0.96	-	-	22	-
35012005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	27.0	1.06	-	-	27	-
35012005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	31.5	1.24	-	-	32	-
35012005-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	27.3	1.07	-	-	27	-
35012005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	31.8	1.25	-	-	32	-
35012005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	33.8	1.33	-	-	38	-
35012005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	35.5	1.40	-	-	38	-

SAE O-RING BOSS MALE SWIVEL

SAE J516 / ISO 11926

HF1P-WB - SAE ORB MS
HF1P-R12 -20 -24 - SAE ORB MS

35012008



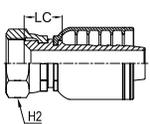
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35012008-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	45.8	1.80	-	-	12	19
35012008-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	50.7	2.00	-	-	17	22
35012008-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	51.0	2.01	-	-	17	22
35012008-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	52.5	2.07	-	-	22	27
35012008-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	52.5	2.07	-	-	22	27
35012008-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	52.5	2.07	-	-	22	27
35012008-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	60.9	2.40	-	-	27	32

SAE 45° SEAT FEMALE SWIVEL

SAE J516 / ISO 11926

HF1P-WB - SAE 45 SEAT FS
HF1P-R12 -20 -24 - SAE 45 SEAT FS

35013001



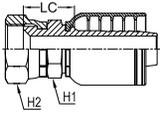
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35013001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.7	0.58	-	-	-	15
35013001-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	16.5	0.65	-	-	-	22
35013001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	18.0	0.71	-	-	-	25
35013001-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 14	20.3	0.80	-	-	-	32

SAE 45° SEAT FEMALE SWIVEL DOUBLE HEXAGON

SAE J516 / ISO 11926

HF1P-WB - SAE 45 SEAT DH FS
 HF1P-R12 -20 -24 - SAE 45 SEAT DH FS

350130H1



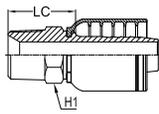
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350130H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.7	0.78	-	-	14	15
350130H1-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	22.5	0.89	-	-	17	22
350130H1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	25.0	0.98	-	-	19	25
350130H1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 14	27.3	1.07	-	-	27	32

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF1P-WB - NPTF M
HF1P-R12 -20 -24 - NPTF M

35023005



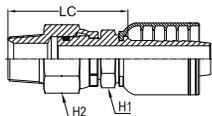
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35023005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	22.2	0.87	-	-	14	-
35023005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	27.2	1.07	-	-	17	-
35023005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	29.2	1.15	-	-	19	-
35023005-040800	-04	DN 06	1/4"	-08	1/2"	1/2" X 14	32.7	1.29	-	-	22	-
35023005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	27.5	1.08	-	-	17	-
35023005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	29.5	1.16	-	-	19	-
35023005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.0	1.30	-	-	22	-
35023005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 18	29.5	1.16	-	-	19	-
35023005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	33.0	1.30	-	-	22	-
35023005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	34.0	1.34	-	-	27	-
35023005-100800	-10	DN 16	5/8"	-08	1/2"	1/2" X 14	34.2	1.35	-	-	24	-
35023005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	34.2	1.35	-	-	27	-
35023005-120800	-12	DN 19	3/4"	-08	1/2"	1/2" X 14	34.3	1.35	-	-	27	-
35023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	34.3	1.35	-	-	27	-
35023005-121600	-12	DN 19	3/4"	-16	1"	1" X 11.5	44.3	1.74	-	-	36	-
35023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	46.0	1.81	-	-	36	-
35023005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11.5	49.0	1.93	-	-	46	-
35023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	50.5	1.99	-	-	46	-
35023005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11.5	52.5	2.07	-	-	50	-
35023005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	54.0	2.13	-	-	50	-
35023005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	57.0	2.24	-	-	65	-

NPTF 60° CONE SEAT MALE SWIVEL

SAE J516 / J514

HF1P-WB - NPTF MS
HF1P-R12 -20 -24 - NPTF MS

35023008



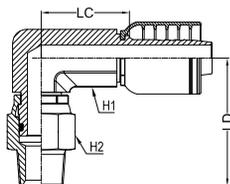
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35023008-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	51.8	2.04	-	-	12	19
35023008-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	56.7	2.23	-	-	17	22
35023008-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	53.1	2.09	-	-	17	19
35023008-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	57.0	2.24	-	-	17	22
35023008-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	61.0	2.40	-	-	22	27
35023008-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 18	58.0	2.28	-	-	19	22
35023008-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	61.0	2.40	-	-	22	27
35023008-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	65.4	2.57	-	-	27	32
35023008-121600	-12	DN 19	3/4"	-16	1"	1" X 11.5	69.8	2.75	-	-	36	41
35023008-161600	-16	DN 25	1"	-16	1"	1" X 11.5	71.5	2.81	-	-	36	41

NPTF 60° CONE SEAT MALE SWIVEL - 90° - COMPACT

SAE J516 / J514

HF1P-WB - NPTF MS 90 CP
 HF1P-R12 -20 -24 - NPTF MS 90 CP

350239C8



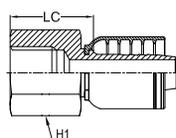
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350239C8-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	38.0	1.50	52.6	2.07	14	19
350239C8-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	38.0	1.50	52.1	2.05	16	19
350239C8-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	38.0	1.50	56.0	2.20	16	22
350239C8-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	41.0	1.61	62.0	2.44	19	27
350239C8-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	43.0	1.69	62.0	2.44	19	27
350239C8-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	48.0	1.89	69.1	2.72	27	32

NPTF 60° CONE FEMALE FIXED

SAE J516 / J514

HF1P-WB - NPTF FF
 HF1P-R12 -20 -24 - NPTF FF

35023004



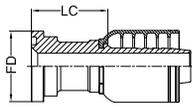
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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35023004-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	26.7	1.05	-	-	19	-
35023004-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	28.5	1.12	-	-	24	-
35023004-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	34.5	1.36	-	-	30	-
35023004-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.7	1.41	-	-	36	-
35023004-161600	-16	DN 25	1"	-16	1"	1" X 11.5	43.7	1.72	-	-	41	-

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF1P-WB - SAE 61 3K FL
 HF1P-R12 -20 -24 - SAE 61 3K FL

35041000



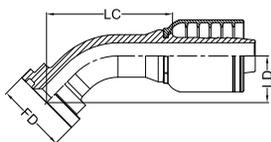
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041000-080800	-08	DN 12	1/2"	-08	1/2"		40.4	1.59	-	-	30.18	1.19
35041000-081200	-08	DN 12	1/2"	-12	3/4"		41.4	1.63	-	-	38.10	1.50
35041000-121200	-12	DN 19	3/4"	-12	3/4"		41.7	1.64	-	-	38.10	1.50
35041000-121600	-12	DN 19	3/4"	-16	1"		49.7	1.96	-	-	44.45	1.75
35041000-161600	-16	DN 25	1"	-16	1"		51.5	2.03	-	-	44.45	1.75
35041000-162000	-16	DN 25	1"	-20	1.1/4"		54.0	2.13	-	-	50.80	2.00
35041000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		55.5	2.19	-	-	50.80	2.00
35041000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		58.5	2.30	-	-	60.33	2.38
35041000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		60.0	2.36	-	-	60.33	2.38
35041000-323200	-32	DN 51	2"	-32	2"		71.5	2.81	-	-	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WB - SAE 61 3K FL 45
 HF1P-R12 -20 -24 - SAE 61 3K FL 45

35041400



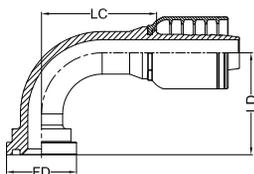
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041400-080800	-08	DN 12	1/2"	-08	1/2"		50.2	1.98	21.9	0.86	30.18	1.19
35041400-081200	-08	DN 12	1/2"	-12	3/4"		50.9	2.00	22.6	0.89	38.10	1.50
35041400-121200	-12	DN 19	3/4"	-12	3/4"		65.8	2.59	25.2	0.99	38.10	1.50
35041400-121600	-12	DN 19	3/4"	-16	1"		65.8	2.59	25.2	0.99	44.45	1.75
35041400-161600	-16	DN 25	1"	-16	1"		76.2	3.00	27.3	1.07	44.45	1.75
35041400-162000	-16	DN 25	1"	-20	1.1/4"		76.2	3.00	27.3	1.07	50.80	2.00
35041400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		95.4	3.76	31.6	1.24	50.80	2.00
35041400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		96.9	3.81	33.0	1.30	60.33	2.38
35041400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		110.1	4.33	37.4	1.47	60.33	2.38
35041400-323200	-32	DN 51	2"	-32	2"		129.6	5.10	45.4	1.79	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

H1P-WB - SAE 61 3K FL 90
 HF1P-R12 -20 -24 - SAE 61 3K FL 90

35041900



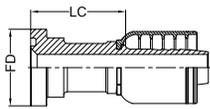
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041900-080800	-08	DN 12	1/2"	-08	1/2"		42.4	1.67	45.0	1.77	30.18	1.19
35041900-081200	-08	DN 12	1/2"	-12	3/4"		42.4	1.67	46.0	1.81	38.10	1.50
35041900-121200	-12	DN 19	3/4"	-12	3/4"		59.9	2.36	55.0	2.17	38.10	1.50
35041900-121600	-12	DN 19	3/4"	-16	1"		59.9	2.36	55.0	2.17	44.45	1.75
35041900-161600	-16	DN 25	1"	-16	1"		72.4	2.85	62.0	2.44	44.45	1.75
35041900-162000	-16	DN 25	1"	-20	1.1/4"		72.4	2.85	62.0	2.44	50.80	2.00
35041900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		93.1	3.67	74.0	2.91	50.80	2.00
35041900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		93.1	3.67	76.0	2.99	60.33	2.38
35041900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		107.9	4.25	88.0	3.46	60.33	2.38
35041900-323200	-32	DN 51	2"	-32	2"		131.1	5.16	111.0	4.37	71.42	2.81

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF1P-WB - SAE 62 6K FL
 HF1P-R12 -20 -24 - SAE 62 6K FL

35042000



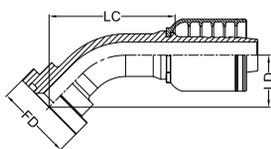
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042000-080800	-08	DN 12	1/2"	-08	1/2"		46.4	1.83	-	-	31.75	1.25
35042000-081200	-08	DN 12	1/2"	-12	3/4"		51.4	2.02	-	-	41.28	1.63
35042000-121200	-12	DN 19	3/4"	-12	3/4"		51.7	2.04	-	-	41.28	1.63
35042000-121600	-12	DN 19	3/4"	-16	1"		54.7	2.15	-	-	47.63	1.88
35042000-161600	-16	DN 25	1"	-16	1"		56.5	2.22	-	-	47.63	1.88
35042000-162000	-16	DN 25	1"	-20	1.1/4"		63.5	2.50	-	-	53.98	2.13
35042000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		65.0	2.56	-	-	53.98	2.13
35042000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		71.0	2.80	-	-	63.50	2.50
35042000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		75.5	2.97	-	-	63.50	2.50
35042000-323200	-32	DN 51	2"	-32	2"		77.5	3.05	-	-	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WB - SAE 62 6K FL 45
 HF1P-R12 -20 -24 - SAE 62 6K FL 45

35042400



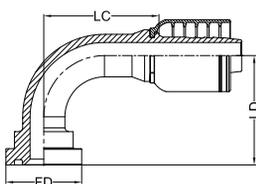
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042400-080800	-08	DN 12	1/2"	-08	1/2"		50.9	2.00	22.6	0.89	31.75	1.25
35042400-081200	-08	DN 12	1/2"	-12	3/4"		53.7	2.11	25.4	1.00	41.28	1.63
35042400-121200	-12	DN 19	3/4"	-12	3/4"		68.6	2.70	28.1	1.11	41.28	1.63
35042400-121600	-12	DN 19	3/4"	-16	1"		70.8	2.79	30.2	1.19	47.63	1.88
35042400-161600	-16	DN 25	1"	-16	1"		81.2	3.20	32.2	1.27	47.63	1.88
35042400-162000	-16	DN 25	1"	-20	1.1/4"		84.0	3.31	35.1	1.38	53.98	2.13
35042400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		103.2	4.06	39.4	1.55	53.98	2.13
35042400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		106.8	4.20	42.9	1.69	63.50	2.50
35042400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		118.6	4.67	45.9	1.81	63.50	2.50
35042400-323200	-32	DN 51	2"	-32	2"		143.0	5.63	58.8	2.31	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 90°

SAE J516 / ISO 12151-3

HF1P-WB - SAE 62 6K FL 90
 HF1P-R12 -20 -24 - SAE 62 6K FL 90

35042900



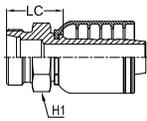
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042900-080800	-08	DN 12	1/2"	-08	1/2"		42.4	1.67	46.0	1.81	31.75	1.25
35042900-081200	-08	DN 12	1/2"	-12	3/4"		42.4	1.67	50.0	1.97	41.28	1.63
35042900-121200	-12	DN 19	3/4"	-12	3/4"		59.9	2.36	59.0	2.32	41.28	1.63
35042900-121600	-12	DN 19	3/4"	-16	1"		59.9	2.36	62.0	2.44	47.63	1.88
35042900-161600	-16	DN 25	1"	-16	1"		72.4	2.85	69.0	2.72	47.63	1.88
35042900-162000	-16	DN 25	1"	-20	1.1/4"		72.4	2.85	73.0	2.87	53.98	2.13
35042900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		93.1	3.67	85.0	3.35	53.98	2.13
35042900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		93.1	3.67	90.0	3.54	63.50	2.50
35042900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		107.9	4.25	100.0	3.94	63.50	2.50
35042900-323200	-32	DN 51	2"	-32	2"		131.1	5.16	130.0	5.12	79.38	3.13

METRIC 24° CONE SEAT MALE LIGHT DUTY - CEL

DIN 20066 / ISO 12151-2

HF1P-WB - M24 CEL M
HF1P-R12 -20 -24 - M24 CEL M

35053005



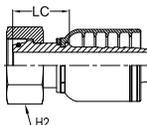
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35053005-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	20.2	0.80	-	-	12	-
35053005-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	21.2	0.83	-	-	14	-
35053005-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	23.2	0.91	-	-	17	-
35053005-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	23.5	0.93	-	-	17	-
35053005-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	24.5	0.96	-	-	19	-
35053005-062200	-06	DN 10	3/8"	-22	15	M22 X 1.5	25.5	1.00	-	-	22	-
35053005-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	25.5	1.00	-	-	22	-
35053005-082600	-08	DN 12	1/2"	-26	18	M26 X 1.5	26.5	1.04	-	-	27	-
35053005-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	26.7	1.05	-	-	27	-
35053005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	30.8	1.21	-	-	32	-
35053005-163600	-16	DN 25	1"	-36	28	M36 X 2	34.5	1.36	-	-	36	-
35053005-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	40.0	1.57	-	-	46	-
35053005-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	43.5	1.71	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL

DIN 20066 / ISO 12151-2

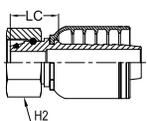
HF1P-WB - M24 DKOL FS
HF1P-R12 -20 -24 - M24 DKOL FS

35055002



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35055002-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	24.7	0.97	-	-	-	14
35055002-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	24.3	0.96	-	-	-	17
35055002-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	25.3	1.00	-	-	-	19
35055002-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	25.6	1.01	-	-	-	22
35055002-062000	-06	DN 10	3/8"	-20	14	M20 X 1.5	27.6	1.09	-	-	-	24
35055002-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	27.6	1.09	-	-	-	27
35055002-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	28.8	1.13	-	-	-	32
35055002-123000	-12	DN 19	3/4"	-30	22	M30 X 2	30.9	1.22	-	-	-	36
35055002-163600	-16	DN 25	1"	-36	28	M36 X 2	33.7	1.33	-	-	-	41
35055003-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	36.3	1.43	-	-	-	50
35055002-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	42.0	1.65	-	-	-	60

35055003

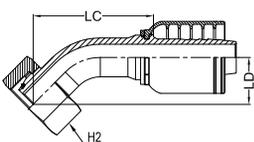


METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 45°

DIN 20066 / ISO 12151-2

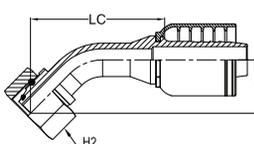
HF1P-WB - M24 DKOL FS 45
HF1P-R12 -20 -24 - M24 DKOL FS 45

35055402



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35055402-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	41.6	1.64	17.6	0.69	-	17
35055402-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	42.2	1.66	17.8	0.70	-	19
35055402-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	43.5	1.71	18.5	0.73	-	22
35055402-062000	-06	DN 10	3/8"	-20	14	M20 X 1.5	44.4	1.75	19.4	0.76	-	24
35055402-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	48.6	1.91	21.2	0.83	-	27
35055402-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	59.9	2.36	24.2	0.95	-	32
35055402-123000	-12	DN 19	3/4"	-30	22	M30 X 2	65.5	2.58	25.4	1.00	-	36
35055402-163600	-16	DN 25	1"	-36	28	M36 X 2	77.4	3.05	29.2	1.15	-	41
35055403-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	108.4	4.27	44.6	1.76	-	50
35055402-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	109.2	4.30	40.0	1.57	-	60

35055403

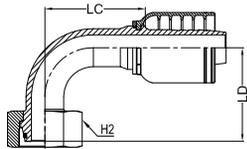


METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 90°

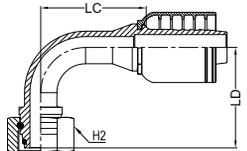
DIN 20066 / ISO 12151-2

HF1P-WB - M24 DKOL FS 90
HF1P-R12 -20 -24 - M24 DKOL FS 90

35055902



35055903



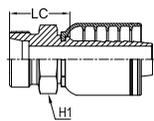
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35055902-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	31.6	1.24	32.5	1.28	-	17
35055902-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	32.0	1.26	32.8	1.29	-	19
35055902-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	33.2	1.31	34.3	1.35	-	22
35055902-062000	-06	DN 10	3/8"	-20	14	M20 X 1.5	33.2	1.31	35.5	1.40	-	24
35055902-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	37.4	1.47	39.9	1.57	-	27
35055902-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	50.3	1.98	48.9	1.93	-	32
35055902-123000	-12	DN 19	3/4"	-30	22	M30 X 2	55.9	2.20	51.7	2.04	-	36
35055902-163600	-16	DN 25	1"	-36	28	M36 X 2	71.6	2.82	64.7	2.55	-	41
35055903-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	93.1	3.67	92.3	3.63	-	50
35055902-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	104.4	4.11	91.7	3.61	-	60

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF1P-WB - M24 CES M
HF1P-R12 -20 -24 - M24 CES M

35054005



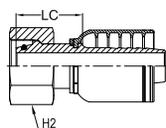
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35054005-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	25.2	0.99	-	-	19	-
35054005-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	25.5	1.00	-	-	22	-
35054005-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.5	1.08	-	-	22	-
35054005-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	28.5	1.12	-	-	24	-
35054005-103000	-10	DN 16	5/8"	-30	20	M30 X 2	32.7	1.29	-	-	32	-
35054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	36.8	1.45	-	-	36	-
35054005-164200	-16	DN 25	1"	-42	30	M42 X 2	42.5	1.67	-	-	46	-
35054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.0	1.89	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS

DIN 20066 / ISO 12151-2

HF1P-WB - M24 DKOS FS
HF1P-R12 -20 -24 - M24 DKOS FS

35056002



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056002-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	27.6	1.09	-	-	-	19
35056002-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	27.5	1.08	-	-	-	22
35056002-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	27.8	1.09	-	-	-	24
35056002-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.6	1.09	-	-	-	27
35056002-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	31.1	1.22	-	-	-	30
35056002-103000	-10	DN 16	5/8"	-30	20	M30 X 2	36.1	1.42	-	-	-	36
35056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.4	1.55	-	-	-	46
35056002-164200	-16	DN 25	1"	-42	30	M42 X 2	43.2	1.70	-	-	-	50
35056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.1	1.89	-	-	-	60

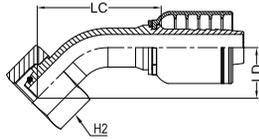
METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

HF1P-WB - M24 DKOS FS 45

HF1P-R12 -20 -24 - M24 DKOS FS 45

35056402



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056402-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	42.1	1.66	17.7	0.70	-	22
35056402-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	43.9	1.73	18.8	0.74	-	24
35056402-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	45.4	1.79	20.4	0.80	-	27
35056402-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	49.5	1.95	21.9	0.86	-	30
35056402-103000	-10	DN 16	5/8"	-30	20	M30 X 2	62.8	2.47	26.8	1.06	-	36
35056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	68.6	2.70	28.1	1.11	-	46
35056402-164200	-16	DN 25	1"	-42	30	M42 X 2	82.5	3.25	34.3	1.35	-	50
35056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	105.9	4.17	40.8	1.61	-	60

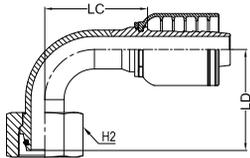
METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

DIN 20066 / ISO 12151-2

HF1P-WB - M24 DKOS FS 90

HF1P-R12 -20 -24 - M24 DKOS FS 90

35056902



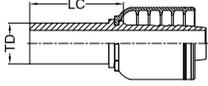
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056902-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	32.0	1.26	32.7	1.29	-	22
35056902-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	33.3	1.31	34.7	1.37	-	24
35056902-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	33.3	1.31	37.0	1.46	-	27
35056902-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	37.5	1.48	41.0	1.61	-	30
35056902-103000	-10	DN 16	5/8"	-30	20	M30 X 2	50.6	1.99	52.5	2.07	-	36
35056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	56.3	2.22	55.5	2.19	-	46
35056902-164200	-16	DN 25	1"	-42	30	M42 X 2	71.6	2.82	72.0	2.83	-	50
35056902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	94.4	3.72	87.0	3.43	-	60

METRIC STANDPIPE

HF1P-WB - MSP
 HF1P-R12 -20 -24 - MSP

DIN 2353 / ISO 8434-1

35051000



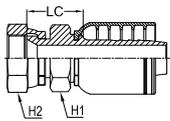
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
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35051000-040600	-04	DN 06	1/4"	-06	06	-	28.2	1.11	-	-	-	06
35051000-040800	-04	DN 06	1/4"	-08	08	-	30.2	1.19	-	-	-	08
35051000-041000	-04	DN 06	1/4"	-10	10	-	32.2	1.27	-	-	-	10
35051000-041200	-04	DN 06	1/4"	-12	12	-	32.2	1.27	-	-	-	12
35051000-061000	-06	DN 10	3/8"	-10	10	-	29.5	1.16	-	-	-	10
35051000-061200	-06	DN 10	3/8"	-12	12	-	29.5	1.16	-	-	-	12
35051000-061400	-06	DN 10	3/8"	-14	14	-	35.5	1.40	-	-	-	14
35051000-061500	-06	DN 10	3/8"	-15	15	-	31.5	1.24	-	-	-	15
35051000-081000	-08	DN 12	1/2"	-10	10	-	29.5	1.16	-	-	-	10
35051000-081200	-08	DN 12	1/2"	-12	12	-	29.5	1.16	-	-	-	12
35051000-081400	-08	DN 12	1/2"	-14	14	-	35.5	1.40	-	-	-	14
35051000-081500	-08	DN 12	1/2"	-15	15	-	31.5	1.24	-	-	-	15
35051000-081600	-08	DN 12	1/2"	-16	16	-	36.5	1.44	-	-	-	16
35051000-081800	-08	DN 12	1/2"	-18	18	-	32.5	1.28	-	-	-	18
35051000-101800	-10	DN 16	5/8"	-18	18	-	33.7	1.33	-	-	-	18
35051000-102000	-10	DN 16	5/8"	-20	20	-	43.7	1.72	-	-	-	20
35051000-102200	-10	DN 16	5/8"	-22	22	-	35.7	1.41	-	-	-	22
35051000-122000	-12	DN 19	3/4"	-20	20	-	43.8	1.72	-	-	-	20
35051000-122200	-12	DN 19	3/4"	-22	22	-	35.8	1.41	-	-	-	22
35051000-122500	-12	DN 19	3/4"	-25	25	-	47.8	1.88	-	-	-	25
35051000-162200	-16	DN 25	1"	-22	22	-	37.5	1.48	-	-	-	22
35051000-162500	-16	DN 25	1"	-25	25	-	49.5	1.95	-	-	-	25
35051000-162800	-16	DN 25	1"	-28	28	-	39.5	1.56	-	-	-	28
35051000-163000	-16	DN 25	1"	-30	30	-	53.5	2.11	-	-	-	30
35051000-163800	-16	DN 25	1"	-38	38	-	59.5	2.34	-	-	-	38
35051000-203000	-20	DN 32	1.1/4"	-30	30	-	57.0	2.24	-	-	-	30
35051000-203500	-20	DN 32	1.1/4"	-35	35	-	49.0	1.93	-	-	-	35
35051000-203800	-20	DN 32	1.1/4"	-38	38	-	63.0	2.48	-	-	-	38
35051000-243800	-24	DN 38	1.1/2"	-38	38	-	63.5	2.50	-	-	-	38
35051000-244200	-24	DN 38	1.1/2"	-42	42	-	53.5	2.11	-	-	-	42

JIS TYPE F FEMALE SWIVEL

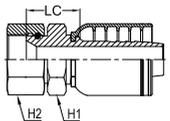
JIS B 8363

HF1P-WB - JIS F FS
HF1P-R12 -20 -24 - JIS F FS

35066001



35066003



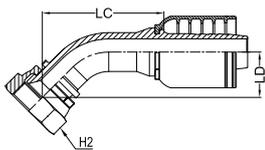
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35066001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	21.2	0.83	-	-	19	19
35066001-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	23.0	0.91	-	-	22	22
35066001-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	25.0	0.98	-	-	27	27
35066001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	31.3	1.23	-	-	36	36
35066001-161600	-16	DN 25	1"	-16	1"	1" X 11	35.0	1.38	-	-	41	41
35066003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	41.0	1.61	-	-	50	50
35066003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	44.0	1.73	-	-	55	55

JIS TYPE F FEMALE SWIVEL - 45°

JIS B 8363

HF1P-WB - JIS F FS 45
HF1P-R12 -20 -24 - JIS F FS 45

35066401



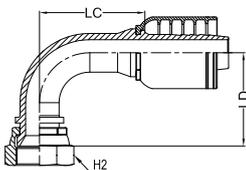
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35066401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	37.9	1.49	15.1	0.59	-	19
35066401-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	40.3	1.59	16.5	0.65	-	22
35066401-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	46.2	1.82	20.2	0.80	-	27
35066401-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	66.8	2.63	25.9	1.02	-	36
35066401-161600	-16	DN 25	1"	-16	1"	1" X 11	79.4	3.13	30.5	1.20	-	41

JIS TYPE F FEMALE SWIVEL - 90°

JIS B 8363

HF1P-WB - JIS F FS 90
HF1P-R12 -20 -24 - JIS F FS 90

35066901



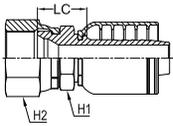
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35066901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.3	1.19	29.0	1.14	-	19
35066901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.9	1.26	31.5	1.24	-	22
35066901-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	35.9	1.41	38.5	1.52	-	27
35066901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	56.7	2.23	52.5	2.07	-	36
35066901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.4	2.85	66.5	2.62	-	41

KOMATSU FEMALE SWIVEL

HF1P-WB - KOMATSU FS

HF1P-R12 -20 -24 - KOMATSU FS

35071001

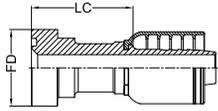


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH		THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35071001-041400	-04	DN 06	1/4"	-14		M14 X 1.5	20.7	0.81	-	-	17	19
35071001-041800	-04	DN 06	1/4"	-18		M18 X 1.5	22.0	0.87	-	-	19	22
35071001-061400	-06	DN 10	3/8"	-14		M14 X 1.5	21.0	0.83	-	-	17	19
35071001-061800	-06	DN 10	3/8"	-18		M18 X 1.5	22.3	0.88	-	-	19	22
35071001-082200	-08	DN 12	1/2"	-22		M22 X 1.5	23.0	0.91	-	-	22	27
35071001-102400	-10	DN 16	5/8"	-24		M24 X 1.5	26.7	1.05	-	-	30	32
35071001-123000	-12	DN 19	3/4"	-30		M30 X 1.5	26.8	1.06	-	-	30	36
35071001-163300	-16	DN 25	1"	-33		M33 X 1.5	35.8	1.41	-	-	36	41
35071001-203600	-20	DN 32	1.1/4"	-36		M36 X 1.5	41.5	1.63	-	-	46	46
35071001-244200	-24	DN 38	1.1/2"	-42		M42 X 1.5	45.5	1.79	-	-	55	55

SUPERCAT FLANGE

HF1P-WB - SCAT 9K FL
 HF1P-R12 -20 -24 - SCAT 9K FL

35073000

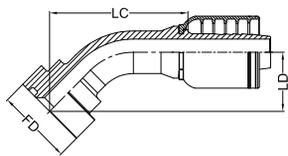


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073000-121200	-12	DN 19	3/4"	-12	3/4"		55.3	2.18	-	-	41.28	1.63
35073000-121600	-12	DN 19	3/4"	-16	1"		59.8	2.35	-	-	47.63	1.88
35073000-161600	-16	DN 25	1"	-16	1"		61.5	2.42	-	-	47.63	1.88
35073000-162000	-16	DN 25	1"	-20	1.1/4"		68.5	2.70	-	-	53.98	2.13
35073000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		70.0	2.76	-	-	53.98	2.13
35073000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		78.5	3.09	-	-	63.50	2.50

SUPERCAT FLANGE - 45°

HF21P-WB - SCAT 9K FL 45
 HF1P-R12 -20 -24 - SCAT 9K FL 45

35073400

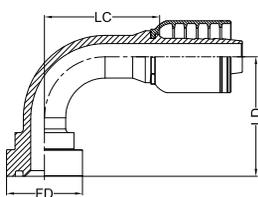


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073400-121200	-12	DN 19	3/4"	-12	3/4"		72.6	2.86	31.9	1.26	41.28	1.63
35073400-121600	-12	DN 19	3/4"	-16	1"		73.6	2.90	33.0	1.30	47.63	1.88
35073400-161600	-12	DN 25	1"	-16	1"		84.0	3.31	35.0	1.38	47.63	1.88
35073400-162000	-16	DN 25	1"	-20	1.1/4"		86.1	3.39	37.2	1.46	53.98	2.13
35073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		99.9	3.93	41.5	1.63	53.98	2.13
35073400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		119.9	4.72	47.3	1.86	63.50	2.50

SUPERCAT FLANGE - 90°

HF1P-WB - SCAT 9K FL 90
 HF1P-R12 -20 -24 - SCAT 9K FL 90

35073900

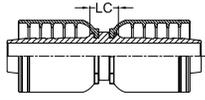


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073900-121200	-12	DN 19	3/4"	-12	3/4"		59.9	2.36	64.5	2.54	41.28	1.63
35073900-121600	-12	DN 19	3/4"	-16	1"		59.9	2.36	66.0	2.60	47.63	1.88
35073900-161600	-16	DN 25	1"	-16	1"		72.4	2.85	73.0	2.87	47.63	1.88
35073900-162000	-16	DN 25	1"	-20	1.1/4"		72.4	2.85	76.0	2.99	53.98	2.13
35073900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.6	3.45	88.0	3.46	53.98	2.13
35073900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		107.8	4.24	102.0	4.02	63.50	2.50

HOSE TO HOSE

HF1P-WB - H - H
 HF1P-R12 -20 -24 - H - H

35092000



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	DN	INCH	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35092000-040400	-04	DN 06	1/4"	-04	DN 06	1/4"	12.4	0.49	-	-	-	-
35092000-060600	-06	DN 10	3/8"	-06	DN 10	3/8"	13.0	0.51	-	-	-	-
35092000-080800	-08	DN 12	1/2"	-08	DN 12	1/2"	13.0	0.51	-	-	-	-
35092000-101000	-10	DN 16	5/8"	-10	DN 16	5/8"	15.4	0.61	-	-	-	-
35092000-121200	-12	DN 19	3/4"	-12	DN 19	3/4"	15.6	0.61	-	-	-	-
35092000-161600	-16	DN 25	1"	-16	DN 25	1"	19.0	0.75	-	-	-	-

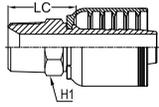
BSPT MALE

ISO 7

HF1P-WS 4SP-R12 - BSPT M

HF1P-4SH/R13/R15 -12 -16 - BSPT M

35504005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35504005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.5	1.12	-	-	19	-
35504005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.5	1.32	-	-	22	-
35504005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	33.3	1.31	-	-	22	-
35504005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	34.7	1.37	-	-	27	-
35504005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	35.1	1.38	-	-	27	-
35504005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	44.6	1.76	-	-	36	-
35504005-161600	-16	DN 25	1"	-16	1"	1" X 11	46.3	1.82	-	-	36	-
35504005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	50.0	1.97	-	-	46	-
35504005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	53.2	2.09	-	-	50	-
35504005-323200	-32	DN 51	2"	-32	2"	2" X 11	58.5	2.30	-	-	65	-

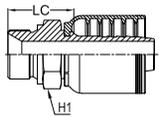
BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF1P-WS 4SP-R12 - BSPP M

HF1P-4SH/R13/R15 -12 -16 - BSPP M

35501005



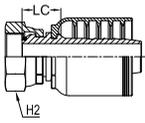
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35501005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.0	1.10	-	-	22	-
35501005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.5	1.24	-	-	27	-
35501005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	27.8	1.09	-	-	22	-
35501005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	31.3	1.23	-	-	27	-
35501005-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	35.3	1.39	-	-	30	-
35501005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	35.3	1.39	-	-	32	-
35501005-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	35.7	1.41	-	-	30	-
35501005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	35.7	1.41	-	-	32	-
35501005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.1	1.42	-	-	32	-
35501005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	41.1	1.62	-	-	41	-
35501005-161600	-16	DN 25	1"	-16	1"	1" X 11	42.8	1.69	-	-	41	-
35501005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	46.8	1.84	-	-	50	-
35501005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	47.5	1.87	-	-	50	-
35501005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	52.7	2.07	-	-	55	-
35501005-323200	-32	DN 51	2"	-32	2"	2" X 11	58.0	2.28	-	-	70	-

BSPP 60° CONE O-RING FEMALE SWIVEL

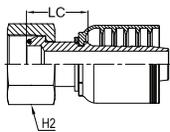
BS5200 / ISO 12151-6

HF1P-WS 4SP-R12 - BSPP OR FS
 HF1P-4SH/R13/R15 -12 -16 - BSPP OR FS

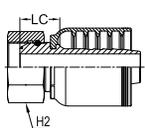
35502001



35502002



35502003



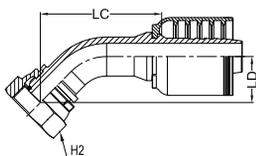
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	23.5	0.93	-	-	-	22
35502002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	24.5	0.96	-	-	-	27
35502002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	24.4	0.96	-	-	-	27
35502002-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	27.6	1.09	-	-	-	27
35502002-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	28.1	1.11	-	-	-	32
35502001-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	17.7	0.70	-	-	-	27
35502002-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	28.6	1.13	-	-	-	32
35502001-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	23.1	0.91	-	-	-	32
35502002-121600	-12	DN 19	3/4"	-16	1"	1" X 11	33.5	1.32	-	-	-	38
35502001-161600	-16	DN 25	1"	-16	1"	1" X 11	26.8	1.06	-	-	-	41
35502002-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	33.0	1.30	-	-	-	50
35502003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	32.5	1.28	-	-	-	50
35502002-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	41.4	1.63	-	-	-	55
35502003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	36.5	1.44	-	-	-	55
35502003-323200	-32	DN 51	2"	-32	2"	2" X 11	36.5	1.44	-	-	-	70

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

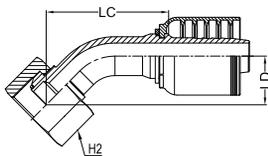
BS5200 / ISO 12151-6

HF1P-WS 4SP-R12 - BSPP OR FS 45
 HF1P-4SH/R13/R15 -12 -16 - BSPP OR FS 45

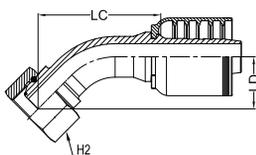
35502401



35502402



35502403



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502402-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	44.7	1.76	19.7	0.78	-	22
35502402-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	44.3	1.74	19.4	0.76	-	27
35502402-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	48.9	1.93	21.6	0.85	-	27
35502402-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	51.0	2.01	23.4	0.92	-	27
35502402-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	49.7	1.96	21.9	0.86	-	32
35502401-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	57.0	2.24	22.2	0.87	-	27
35502402-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	60.3	2.37	24.2	0.95	-	32
35502401-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	68.9	2.71	27.7	1.09	-	32
35502402-121600	-12	DN 19	3/4"	-16	1"	1" X 11	67.0	2.64	26.6	1.05	-	38
35502401-161600	-16	DN 25	1"	-16	1"	1" X 11	82.2	3.24	32.9	1.30	-	41
35502402-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	82.1	3.23	33.6	1.32	-	50
35502403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	100.1	3.94	42.2	1.66	-	50
35502402-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	95.1	3.74	38.0	1.50	-	55
35502403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	120.8	4.76	47.8	1.88	-	55
35502403-323200	-32	DN 51	2"	-32	2"	2" X 11	138.1	5.44	54.7	2.15	-	70

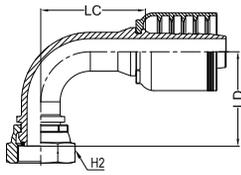
BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

BS5200 / ISO 12151-6

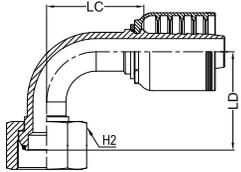
HF1P-WS 4SP-R12 - BSPP OR FS 90

HF1P-4SH/R13/R15 -12 -16 - BSPP OR FS 90

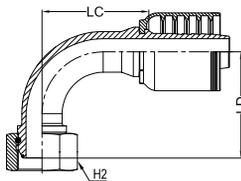
35502901



35502902



35502903



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502902-060600	-06	DN 10	3/8"	-06	3/8"	33/8" X 19	33.2	1.31	36.0	1.42	-	22
35502902-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.2	1.31	35.5	1.40	-	27
35502902-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	37.2	1.46	40.5	1.59	-	27
35502902-081000	-08	DN 12	1/2"	-10	5/8"	5/8" X 14	37.6	1.48	43.0	1.69	-	27
35502902-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	37.8	1.49	40.9	1.61	-	32
35502901-101000	-10	DN 16	5/8"	-10	5/8"	5/8" X 14	49.4	1.94	46.0	1.81	-	27
35502902-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	50.7	2.00	48.9	1.93	-	32
35502901-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	57.0	2.24	55.0	2.17	-	32
35502902-121600	-12	DN 19	3/4"	-16	1"	1" X 11	56.2	2.21	53.4	2.10	-	38
35502901-161600	-16	DN 25	1"	-16	1"	1" X 11	72.7	2.86	70.0	2.76	-	41
35502902-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	71.9	2.83	71.0	2.80	-	50
35502903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	87.1	3.43	89.0	3.50	-	50
35502902-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	86.4	3.40	83.0	3.27	-	55
35502903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	108.1	4.26	102.8	4.05	-	55
35502903-323200	-32	DN 51	2"	-32	2"	2" X 11	129.1	5.08	123.0	4.84	-	70

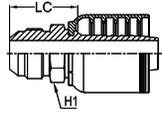
ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16 - 355 SERIES JIC 37°

JIC 37° CONE MALE

SAE J516 / ISO 12151-5

HF1P-WS 4SP-R12 - JIC M
HF1P-4SH/R13/R15 -12 -16 - JIC M

35511005



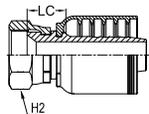
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	26.5	1.04	-	-	17	-
35511005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	30.0	1.18	-	-	19	-
35511005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	29.8	1.17	-	-	19	-
35511005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	33.8	1.33	-	-	24	-
35511005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	36.3	1.43	-	-	27	-
35511005-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	34.2	1.35	-	-	24	-
35511005-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	36.7	1.44	-	-	27	-
35511005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	37.1	1.46	-	-	27	-
35511005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	42.1	1.66	-	-	36	-
35511005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	43.8	1.72	-	-	36	-
35511005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	47.3	1.86	-	-	46	-
35511005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	48.0	1.89	-	-	46	-
35511005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	52.0	2.05	-	-	50	-
35511005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	54.2	2.13	-	-	50	-
35511005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	63.5	2.50	-	-	65	-

JIC 37° CONE SEAT FEMALE SWIVEL

SAE J516 / ISO 12151-5

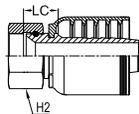
HF1P-WS 4SP-R12 - JIC FS
HF1P-4SH/R13/R15 -12 -16 - JIC FS

35511001



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511001-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	15.5	0.61	-	-	-	19
35511001-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	18.0	0.71	-	-	-	25
35511001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	17.8	0.70	-	-	-	25
35511001-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	19.7	0.78	-	-	-	27
35511001-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	20.3	0.80	-	-	-	32
35511001-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	20.2	0.80	-	-	-	27
35511001-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	20.7	0.81	-	-	-	32
35511001-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	20.6	0.81	-	-	-	27
35511001-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	22.1	0.87	-	-	-	32
35511001-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	23.6	0.93	-	-	-	41
35511001-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	25.3	1.00	-	-	-	41
35511003-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	26.9	1.06	-	-	-	50
35511003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	27.6	1.09	-	-	-	50
35511003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	29.9	1.18	-	-	-	55
35511003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	32.1	1.26	-	-	-	55
35511003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	34.5	1.36	-	-	-	70

35511003



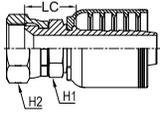
JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

SAE J516 / ISO 12151-5

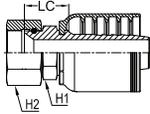
HF1P-WS 4SP-R12 - JIC FS DH

HF1P-4SH/R13/R15 -12 -16 - JIC FS DH

355110H1



355110H3



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
355110H1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	21.5	0.85	-	-	17	19
355110H1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	25.0	0.98	-	-	19	25
355110H1-080600	-08	DN 12	1/2"	-06	3/8"	9/16" X 18	22.3	0.88	-	-	19	19
355110H1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	24.8	0.98	-	-	19	25
355110H1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	25.8	1.02	-	-	22	27
355110H1-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	27.3	1.07	-	-	25	32
355110H1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	27.2	1.07	-	-	24	27
355110H1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	27.7	1.09	-	-	25	32
355110H1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	29.1	1.15	-	-	27	32
355110H1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	32.6	1.28	-	-	32	41
355110H1-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	32.8	1.29	-	-	32	32
355110H1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	34.3	1.35	-	-	32	41
355110H3-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	38.6	1.52	-	-	41	50
355110H3-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	45.1	1.78	-	-	50	55
355110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	50.5	1.99	-	-	65	70

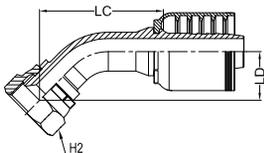
JIC 37° CONE SEAT FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-5

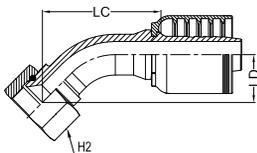
HF1P-WS 4SP-R12 - JIC FS 45

HF1P-4SH/R13/R15 -12 -16 - JIC FS 45

35511401



35511403



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.9	1.57	11.0	0.43	-	19
35511401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.4	1.67	15.0	0.59	-	25
35511401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	46.7	1.84	15.0	0.59	-	25
35511401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	47.4	1.87	16.0	0.63	-	27
35511401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	49.2	1.94	21.0	0.83	-	32
35511401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	58.7	2.31	16.0	0.63	-	27
35511401-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	60.5	2.38	21.0	0.83	-	32
35511401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	68.2	2.69	21.0	0.83	-	32
35511401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	69.2	2.72	24.0	0.94	-	41
35511401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	81.1	3.19	24.0	0.94	-	41
35511403-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.7	3.30	25.0	0.98	-	50
35511403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	96.6	3.80	25.0	0.98	-	50
35511403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	99.6	3.92	27.0	1.06	-	55
35511403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	117.6	4.63	27.0	1.06	-	55
35511403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	136.7	5.38	34.0	1.34	-	70

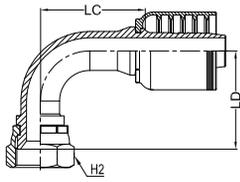
JIC 37° CONE SEAT FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-5

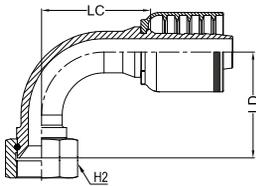
HF1P-WS 4SP-R12 - JIC FS 90

HF1P-4SH/R13/R15 -12 -16 - JIC FS 90

35511901



35511903



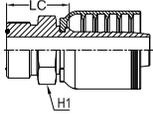
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.9	1.26	38.0	1.50	-	19
35511901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.9	1.26	41.0	1.61	-	25
35511901-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	35.8	1.41	39.5	1.56	-	25
35511901-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	35.8	1.41	47.0	1.85	-	27
35511901-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	35.8	1.41	58.0	2.28	-	32
35511901-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.4	1.94	48.5	1.91	-	27
35511901-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	49.4	1.94	58.0	2.28	-	32
35511901-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.0	2.24	58.0	2.28	-	32
35511901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	57.0	2.24	71.0	2.80	-	41
35511901-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	62.3	2.45	58.0	2.28	-	32
35511901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.7	2.86	71.0	2.80	-	41
35511903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.7	2.86	78.0	3.07	-	50
35511903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	87.1	3.43	78.0	3.07	-	50
35511903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	87.1	3.43	86.0	3.39	-	55
35511903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	108.1	4.26	86.0	3.39	-	55
35511903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	129.1	5.08	140.0	5.51	-	70

ORFS MALE

SAE J516 / ISO 12151-1

HF1P-WS 4SP-R12 - ORFS M
HF1P-4SH/R13/R15 -12 -16 - ORFS M

35531005



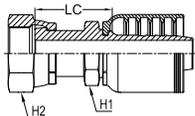
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531005-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	24.5	0.96	-	-	19	-
35531005-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	26.3	1.04	-	-	22	-
35531005-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	30.2	1.19	-	-	27	-
35531005-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	34.1	1.34	-	-	32	-
35531005-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	38.3	1.51	-	-	38	-
35531005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	41.0	1.61	-	-	46	-

ORFS FEMALE SWIVEL

SAE J516 / ISO 12151-1

HF1P-WS 4SP-R12 - ORFS FS
HF1P-4SH/R13/R15 -12 -16 - ORFS FS

35531001



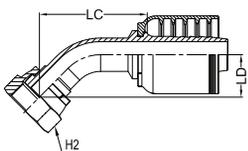
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531001-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	30.5	1.20	-	-	17	22
35531001-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	35.5	1.40	-	-	22	24
35531001-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.3	1.39	-	-	22	24
35531001-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	38.8	1.53	-	-	24	30
35531001-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	39.2	1.54	-	-	24	30
35531001-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	41.7	1.64	-	-	30	36
35531001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	42.1	1.66	-	-	30	36
35531001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	48.1	1.89	-	-	36	41
35531001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	49.8	1.96	-	-	36	41
35531001-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	51.5	2.03	-	-	41	50

ORFS FEMALE SWIVEL - 45°

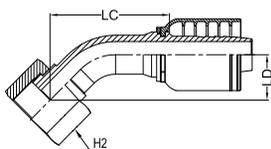
SAE J516 / ISO 12151-1

HF1P-WS 4SP-R12 - ORFS FS 45
HF1P-4SH/R13/R15 -12 -16 - ORFS FS 45

35531401



35531402



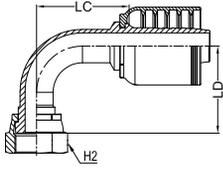
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.5	1.59	11.0	0.43	-	22
35531402-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	41.2	1.62	16.2	0.64	-	24
35531401-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	44.2	1.74	15.0	0.59	-	24
35531402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	48.3	1.90	16.0	0.63	-	30
35531402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	58.8	2.31	16.0	0.63	-	30
35531402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.4	2.57	21.0	0.83	-	36
35531402-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	65.7	2.59	24.9	0.98	-	41
35531402-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	77.2	3.04	24.0	0.94	-	41
35531402-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	89.2	3.51	25.0	0.98	-	50

ORFS FEMALE SWIVEL - 90°

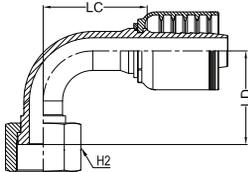
SAE J516 / ISO 12151-1

HF1P-WS 4SP-R12 - ORFS FS 90
 HF1P-4SH/R13/R15 -12 -16 - ORFS FS 90

35531901



35531902



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.3	1.31	38.0	1.50	-	22
35531902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.3	1.31	41.0	1.61	-	24
35531901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.8	1.41	41.0	1.61	-	24
35531902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	37.8	1.49	47.0	1.85	-	30
35531902-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	50.6	1.99	47.0	1.85	-	30
35531902-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	56.6	2.23	58.0	2.28	-	36
35531902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.9	2.83	71.0	2.80	-	41
35531902-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.4	3.36	78.0	3.07	-	50

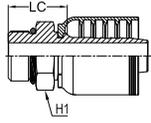
SAE O-RING BOSS MALE

SAE J516 / ISO 11926

HF1P-WS 4SP-R12 - SAE ORB M

HF1P-4SH/R13/R15 -12 -16 - SAE ORB M

35512005



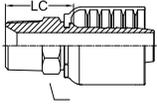
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35512005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	23.5	0.93	-	-	19	-
35512005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	24.5	0.96	-	-	22	-
35512005-061000	-06	DN 10	3/8"	-10	5/8"	7/8" X 14	27.0	1.06	-	-	27	-
35512005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	24.3	0.96	-	-	22	-
35512005-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	26.8	1.06	-	-	27	-
35512005-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	31.3	1.23	-	-	32	-
35512005-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	31.7	1.25	-	-	32	-
35512005-121000	-12	DN 19	3/4"	-10	5/8"	7/8" X 14	27.6	1.09	-	-	27	-
35512005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	32.1	1.26	-	-	32	-
35512005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	34.1	1.34	-	-	38	-
35512005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	35.8	1.41	-	-	38	-

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF1P-WS 4SP-R12 - NPTF M
 HF1P-4SH/R13/R15 -12 -16 - NPTF M

35523005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35523005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	27.5	1.08	-	-	17	-
35523005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	29.5	1.16	-	-	19	-
35523005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.0	1.30	-	-	22	-
35523005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 18	29.3	1.15	-	-	19	-
35523005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	32.8	1.29	-	-	22	-
35523005-081200	-08	DN 12	1/2"	-12	3/4"	3/4" X 14	33.8	1.33	-	-	27	-
35523005-101200	-10	DN 16	5/8"	-12	3/4"	3/4" X 14	24.2	0.95	-	-	27	-
35523005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	34.6	1.36	-	-	27	-
35523005-121600	-12	DN 19	3/4"	-16	1"	1" X 11.5	44.6	1.76	-	-	36	-
35523005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	46.3	1.82	-	-	36	-
35523005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11.5	49.3	1.94	-	-	46	-
35523005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	50.0	1.97	-	-	46	-
35523005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11.5	52.0	2.05	-	-	50	-
35523005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	54.2	2.13	-	-	50	-
35523005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	57.0	2.24	-	-	65	-

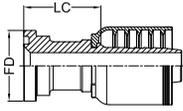
ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16 - 355 SERIES SAE FLANGE

SAE FLANGE CODE 61 3000 PSI

HF1P-WS 4SP-R12 - SAE 61 3K FL
 HF1P-4SH/R13/R15 -12 -16 - SAE 61 3K FL

SAE J516 / ISO 12151-3

35541000



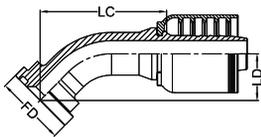
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541000-080800	-08	DN 12	1/2"	-08	1/2"		40.2	1.58	-	-	30.18	1.19
35541000-081200	-08	DN 12	1/2"	-12	3/4"		41.2	1.62	-	-	38.10	1.50
35541000-121200	-12	DN 19	3/4"	-12	3/4"		42.1	1.66	-	-	38.10	1.50
35541000-121600	-12	DN 19	3/4"	-16	1"		50.1	1.97	-	-	44.45	1.75
35541000-161600	-16	DN 25	1"	-16	1"		51.8	2.04	-	-	44.45	1.75
35541000-162000	-16	DN 25	1"	-20	1.1/4"		54.3	2.14	-	-	50.80	2.00
35541000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		55.0	2.17	-	-	50.80	2.00
35541000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		58.0	2.28	-	-	60.33	2.38
35541000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		60.2	2.37	-	-	60.33	2.38
35541000-323200	-32	DN 51	2"	-32	2"		71.5	2.81	-	-	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 45°

HF1P-WS 4SP-R12 - SAE 61 3K FL 45
 HF1P-4SH/R13/R15 -12 -16 - SAE 61 3K FL 45

SAE J516 / ISO 12151-3

35541400



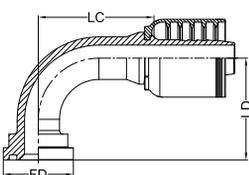
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541400-080800	-08	DN 12	1/2"	-08	1/2"		50.0	1.97	21.9	0.86	30.18	1.19
35541400-081200	-08	DN 12	1/2"	-12	3/4"		50.7	2.00	22.6	0.89	38.10	1.50
35541400-121200	-12	DN 19	3/4"	-12	3/4"		66.1	2.60	25.2	0.99	38.10	1.50
35541400-121600	-12	DN 19	3/4"	-16	1"		66.1	2.60	25.2	0.99	44.45	1.75
35541400-161600	-16	DN 25	1"	-16	1"		76.5	3.01	27.3	1.07	44.45	1.75
35541400-162000	-16	DN 25	1"	-20	1.1/4"		76.5	3.01	27.3	1.07	50.80	2.00
35541400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		89.4	3.52	31.6	1.24	50.80	2.00
35541400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		90.9	3.58	33.0	1.30	60.33	2.38
35541400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		110.3	4.34	37.4	1.47	60.33	2.38
35541400-323200	-32	DN 51	2"	-32	2"		126.9	5.00	45.4	1.79	71.42	2.81

SAE FLANGE CODE 61 3000 PSI - 90°

H1P-WS 4SP-R12 - SAE 61 3K FL 90
 HF1P-4SH/R13/R15 -12 -16 - SAE 61 3K FL 90

SAE J516 / ISO 12151-3

35541900



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541900-080800	-08	DN 12	1/2"	-08	1/2"		42.2	1.66	45.0	1.77	30.18	1.19
35541900-081200	-08	DN 12	1/2"	-12	3/4"		42.2	1.66	46.0	1.81	38.10	1.50
35541900-121200	-12	DN 19	3/4"	-12	3/4"		60.2	2.37	55.0	2.17	38.10	1.50
35541900-121600	-12	DN 19	3/4"	-16	1"		60.2	2.37	55.0	2.17	44.45	1.75
35541900-161600	-16	DN 25	1"	-16	1"		72.7	2.86	62.0	2.44	44.45	1.75
35541900-162000	-16	DN 25	1"	-20	1.1/4"		72.7	2.86	62.0	2.44	50.80	2.00
35541900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.1	3.43	74.0	2.91	50.80	2.00
35541900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		87.1	3.43	76.0	2.99	60.33	2.38
35541900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		108.1	4.26	88.0	3.46	60.33	2.38
35541900-323200	-32	DN 51	2"	-32	2"		128.4	5.06	111.0	4.37	71.42	2.81

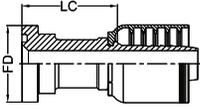
ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16 - 355 SERIES SAE FLANGE

SAE FLANGE CODE 62 6000 PSI

HF1P-WS 4SP-R12 - SAE 62 6K FL
 HF1P-4SH/R13/R15 -12 -16 - SAE 62 6K FL

SAE J516 / ISO 12151-3

35542000



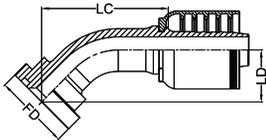
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542000-080800	-08	DN 12	1/2"	-08	1/2"		46.2	1.82	-	-	31.75	1.25
35542000-081200	-08	DN 12	1/2"	-12	3/4"		51.2	2.02	-	-	41.28	1.63
35542000-121200	-12	DN 19	3/4"	-12	3/4"		52.1	2.05	-	-	41.28	1.63
35542000-121600	-12	DN 19	3/4"	-16	1"		55.1	2.17	-	-	47.63	1.88
35542000-161600	-16	DN 25	1"	-16	1"		56.8	2.24	-	-	47.63	1.88
35542000-162000	-16	DN 25	1"	-20	1.1/4"		63.8	2.51	-	-	53.98	2.13
35542000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		64.5	2.54	-	-	53.98	2.13
35542000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		70.5	2.78	-	-	63.50	2.50
35542000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		77.7	3.06	-	-	63.50	2.50
35542000-323200	-32	DN 51	2"	-32	2"		89.5	3.52	-	-	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 45°

HF1P-WS 4SP-R12 - SAE 62 6K FL 45
 HF1P-4SH/R13/R15 -12 -16 - SAE 62 6K FL 45

SAE J516 / ISO 12151-3

35542400



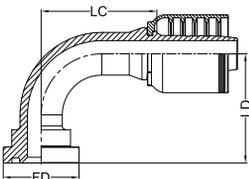
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542400-080800	-08	DN 12	1/2"	-08	1/2"		50.7	2.00	22.6	0.89	31.75	1.25
35542400-081200	-08	DN 12	1/2"	-12	3/4"		53.7	2.11	25.4	1.00	41.28	1.63
35542400-121200	-12	DN 19	3/4"	-12	3/4"		69.0	2.72	28.1	1.11	41.28	1.63
35542400-121600	-12	DN 19	3/4"	-16	1"		71.1	2.80	30.2	1.19	47.63	1.88
35542400-161600	-16	DN 25	1"	-16	1"		81.5	3.21	32.2	1.27	47.63	1.88
35542400-162000	-16	DN 25	1"	-20	1.1/4"		84.3	3.32	35.1	1.38	53.98	2.13
35542400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		97.2	3.83	39.4	1.55	53.98	2.13
35542400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		100.8	3.97	42.9	1.69	63.50	2.50
35542400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		118.8	4.68	45.9	1.81	63.50	2.50
35542400-323200	-32	DN 51	2"	-32	2"		140.3	5.52	58.8	2.31	79.38	3.13

SAE FLANGE CODE 62 6000 PSI - 90°

HF1P-WS 4SP-R12 - SAE 62 6K FL 90
 HF1P-4SH/R13/R15 -12 -16 - SAE 62 6K FL 90

SAE J516 / ISO 12151-3

35542900



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542900-080800	-08	DN 12	1/2"	-08	1/2"		42.2	1.66	46.0	1.81	31.75	1.25
35542900-081200	-08	DN 12	1/2"	-12	3/4"		42.2	1.66	50.0	1.97	41.28	1.63
35542900-121200	-12	DN 19	3/4"	-12	3/4"		60.2	2.37	59.0	2.32	41.28	1.63
35542900-121600	-12	DN 19	3/4"	-16	1"		60.2	2.37	62.0	2.44	47.63	1.88
35542900-161600	-16	DN 25	1"	-16	1"		72.7	2.86	69.0	2.72	47.63	1.88
35542900-162000	-16	DN 25	1"	-20	1.1/4"		72.7	2.86	73.0	2.87	53.98	2.13
35542900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.1	3.43	85.0	3.35	53.98	2.13
35542900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		87.1	3.43	90.0	3.54	63.50	2.50
35542900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		108.1	4.26	100.0	3.94	63.50	2.50
35542900-323200	-32	DN 51	2"	-32	2"		128.4	5.06	130.0	5.12	79.38	3.13

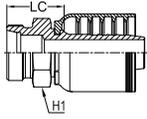
METRIC 24° CONE SEAT MALE LIGHT DUTY - CEL

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 CEL M

HF1P-4SH/R13/R15 -12 -16 - M24 CEL M

35553005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35553005-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	23.5	0.93	-	-	17	-
35553005-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	24.5	0.96	-	-	19	-
35553005-062200	-06	DN 10	3/8"	-22	15	M22 X 1.5	25.5	1.00	-	-	22	-
35553005-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	25.3	1.00	-	-	22	-
35553005-082600	-08	DN 12	1/2"	-26	18	M26 X 1.5	26.3	1.04	-	-	27	-
35553005-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	26.7	1.05	-	-	27	-
35553005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	31.1	1.22	-	-	32	-
35553005-163600	-16	DN 25	1"	-36	28	M36 X 2	34.8	1.37	-	-	36	-
35553005-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	39.5	1.56	-	-	46	-
35553005-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	43.7	1.72	-	-	55	-

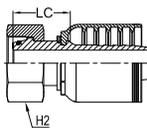
METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOL FS

HF1P-4SH/R13/R15 -12 -16 - M24 DKOL FS

35555002



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555002-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	25.6	1.01	-	-	-	22
35555002-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	27.4	1.08	-	-	-	27
35555002-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	28.8	1.13	-	-	-	32
35555002-123000	-12	DN 19	3/4"	-30	22	M30 X 2	31.2	1.23	-	-	-	36
35555002-163600	-16	DN 25	1"	-36	28	M36 X 2	33.8	1.33	-	-	-	41
35555002-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	39.4	1.55	-	-	-	50
35555002-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	42.2	1.66	-	-	-	60

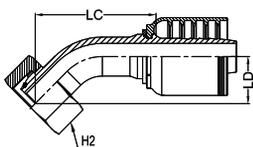
METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 45°

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOL FS 45

HF1P-4SH/R13/R15 -12 -16 - M24 DKOL FS 45

35555402



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555402-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	43.5	1.71	18.5	0.73	-	22
35555402-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	48.4	1.91	21.2	0.83	-	27
35555402-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	59.9	2.36	24.2	0.95	-	32
35555402-123000	-12	DN 19	3/4"	-30	22	M30 X 2	65.8	2.59	25.4	1.00	-	36
35555402-163600	-16	DN 25	1"	-36	28	M36 X 2	77.4	3.05	29.2	1.15	-	41
35555402-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	93.2	3.67	36.7	1.44	-	50

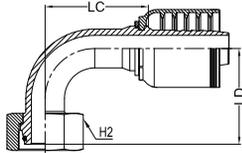
ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16 - 355 SERIES METRIC

METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 90°

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOL FS 90
 HF1P-4SH/R13/R15 -12 -16 - M24 DKOL FS 90

35555902



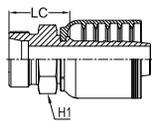
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555902-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	33.2	1.31	34.3	1.35	-	22
35555902-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	37.2	1.46	39.9	1.57	-	27
35555902-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	50.3	1.98	48.9	1.93	-	32
35555902-123000	-12	DN 19	3/4"	-30	22	M30 X 2	56.2	2.21	51.7	2.04	-	36
35555902-163600	-16	DN 25	1"	-36	28	M36 X 2	71.7	2.82	64.7	2.55	-	41
35555902-204500	-20	DN 32	1.1/4"	-45	35	M45 X 2	85.8	3.38	81.2	3.20	-	50
35555902-245200	-24	DN 38	1.1/2"	-52	42	M52 X 2	104.6	4.12	91.7	3.61	-	60

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 CES M
 HF1P-4SH/R13/R15 -12 -16 - M24 CES M

35554005



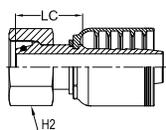
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35554005-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	25.5	1.00	-	-	22	-
35554005-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.5	1.08	-	-	22	-
35554005-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	28.3	1.11	-	-	24	-
35554005-103000	-10	DN 16	5/8"	-30	20	M30 X 2	32.7	1.29	-	-	32	-
35554005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	37.1	1.46	-	-	36	-
35554005-164200	-16	DN 25	1"	-42	30	M42 X 2	42.8	1.69	-	-	46	-
35554005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	47.5	1.87	-	-	55	-

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOS FS
 HF1P-4SH/R13/R15 -12 -16 - M24 DKOS FS

35556002



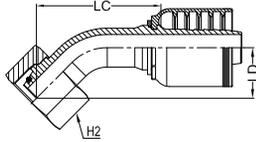
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556002-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	27.8	1.09	-	-	-	24
35556002-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.6	1.09	-	-	-	27
35556002-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	30.9	1.22	-	-	-	30
35556002-103000	-10	DN 16	5/8"	-30	20	M30 X 2	36.1	1.42	-	-	-	36
35556002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.7	1.56	-	-	-	46
35556002-164200	-16	DN 25	1"	-42	30	M42 X 2	43.5	1.71	-	-	-	50
35556002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	47.6	1.87	-	-	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOS FS 45
 HF1P-4SH/R13/R15 -12 -16 - M24 DKOS FS 45

35556402



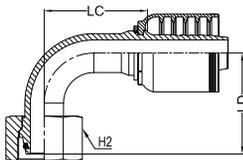
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556402-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	43.9	1.73	18.8	0.74	-	24
35556402-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	44.1	1.74	19.0	0.75	-	27
35556402-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	49.3	1.94	21.9	0.86	-	30
35556402-103000	-10	DN 16	5/8"	-30	20	M30 X 2	62.8	2.47	26.8	1.06	-	36
35556402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	71.2	2.80	28.1	1.11	-	46
35556402-164200	-16	DN 25	1"	-42	30	M42 X 2	85.6	3.37	34.3	1.35	-	50
35556402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	100.6	3.96	40.8	1.61	-	60

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOS FS 90
 HF1P-4SH/R13/R15 -12 -16 - M24 DKOS FS 90

35556902

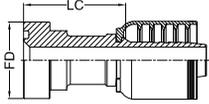


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556902-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	33.3	1.31	34.7	1.37	-	24
35556902-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	33.3	1.31	35.0	1.38	-	27
35556902-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	37.3	1.47	41.0	1.61	-	30
35556902-103000	-10	DN 16	5/8"	-30	20	M30 X 2	50.6	1.99	52.5	2.07	-	36
35556902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	59.0	2.32	55.5	2.19	-	46
35556902-164200	-16	DN 25	1"	-42	30	M42 X 2	74.7	2.94	72.0	2.83	-	50
35556902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	89.1	3.51	87.0	3.43	-	60

SUPERCAT FLANGE

HF1P-WS 4SP-R12 - SCAT 9K FL
 HF1P-4SH/R13/R15 -12 -16 - SCAT 9K FL

35573000

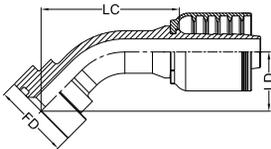


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573000-121200	-12	DN 19	3/4"	-12	3/4"		55.6	2.19	-	-	41.28	1.63
35573000-121600	-12	DN 19	3/4"	-16	1"		60.1	2.37	-	-	47.63	1.88
35573000-161600	-16	DN 25	1"	-16	1"		61.8	2.43	-	-	47.63	1.88
35573000-162000	-16	DN 25	1"	-20	1.1/4"		68.8	2.71	-	-	53.98	2.13
35573000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		69.5	2.74	-	-	53.98	2.13
35573000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		78.7	3.10	-	-	63.50	2.50

SUPERCAT FLANGE - 45°

HF1P-WS 4SP-R12 - SCAT 9K FL 45
 HF1P-4SH/R13/R15 -12 -16 - SCAT 9K FL 45

35573400

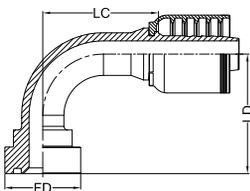


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573400-121200	-12	DN 19	3/4"	-12	3/4"		72.8	2.87	31.9	1.26	41.28	1.63
35573400-121600	-12	DN 19	3/4"	-16	1"		73.9	2.91	33.0	1.30	47.63	1.88
35573400-161600	-16	DN 25	1"	-16	1"		84.3	3.32	35.0	1.38	47.63	1.88
35573400-162000	-16	DN 25	1"	-20	1.1/4"		86.4	3.40	37.2	1.46	53.98	2.13
35573400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		99.3	3.91	41.5	1.63	53.98	2.13
35573400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		120.2	4.73	47.3	1.86	63.50	2.50

SUPERCAT FLANGE - 90°

HF1P-WS 4SP-R12 - SCAT 9K FL 90
 HF1P-4SH/R13/R15 -12 -16 - SCAT 9K FL 90

35573900



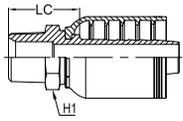
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573900-121200	-12	DN 19	3/4"	-12	3/4"		60.3	2.37	64.5	2.54	41.28	1.63
35573900-121600	-12	DN 19	3/4"	-16	1"		60.3	2.37	66.0	2.60	47.63	1.88
35573900-161600	-16	DN 25	1"	-16	1"		72.7	2.86	73.0	2.87	47.63	1.88
35573900-162000	-16	DN 25	1"	-20	1.1/4"		72.7	2.86	76.0	2.99	53.98	2.13
35573900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		87.1	3.43	88.0	3.46	53.98	2.13
35573900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		108.3	4.26	102.0	4.02	63.50	2.50

BSPT MALE

ISO 7

HF1P-WS 4SH/R13/R15* - BSPT M
 HF1P-4SP -12 -16 - BSPT M

36004005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	37.3	1.47	-	-	27	-
36004005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	46.8	1.84	-	-	36	-
36004005-161600	-16	DN 25	1"	-16	1"	1" X 11	49.3	1.94	-	-	36	-
36004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	54.0	2.13	-	-	46	-
36004005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	56.2	2.21	-	-	50	-
36004005-323200	-32	DN 51	2"	-32	2"	2" X 11	63.0	2.48	-	-	65	-

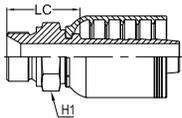
*R15 -12 to -24 only

BSPP 60° CONE SEAT MALE

BS5200 / ISO 8434-9

HF1P-WS 4SH/R13/R15* - BSPP M
 HF1P-4SP -12 -16 - BSPP M

36001005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	38.3	1.51	-	-	32	-
36001005-121600	-12	DN 19	3/4"	-16	1"	1" X 11	43.3	1.70	-	-	41	-
36001005-161600	-16	DN 25	1"	-16	1"	1" X 11	45.8	1.80	-	-	41	-
36001005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	49.8	1.96	-	-	50	-
36001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	51.5	2.03	-	-	50	-
36001005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	55.7	2.19	-	-	55	-
36001005-323200	-32	DN 51	2"	-32	2"	2" X 11	62.5	2.46	-	-	70	-

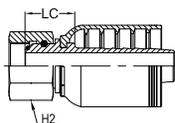
*R15 -12 to -24 only

BSPP 60° CONE O-RING FEMALE SWIVEL

BS5200 / ISO 12151-6

HF1P-WS 4SH/R13/R15* - BSPP OR FS
 HF1P-4SP -12 -16 - BSPP OR FS

36002003



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36002003-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	26.9	1.06	-	-	-	32
36002003-121600	-12	DN 19	3/4"	-16	1"	1" X 11	29.1	1.15	-	-	-	38
36002003-161600	-16	DN 25	1"	-16	1"	1" X 11	31.6	1.24	-	-	-	38
36002003-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	34.8	1.37	-	-	-	50
36002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	36.8	1.45	-	-	-	50
36002003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	38.3	1.51	-	-	-	60
36002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	39.9	1.57	-	-	-	60
36002003-323200	-32	DN 51	2"	-32	2"	2" X 11	41.4	1.63	-	-	-	75

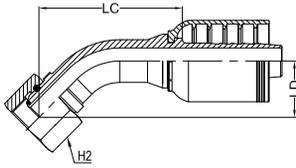
*R15 -12 to -24 only

BSPP 60° CONE O-RING FEMALE SWIVEL - 45°

BS5200 / ISO 12151-6

HF1P-WS 4SH/R13/R15* - BSPP OR FS 45
 HF1P-4SP -12 -16 - BSPP OR FS 45

36002403



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36002403-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	73.5	2.89	30.4	1.20	-	32
36002403-121600	-12	DN 19	3/4"	-16	1"	1" X 11	75.0	2.95	31.9	1.26	-	38
36002403-161600	-16	DN 25	1"	-16	1"	1" X 11	88.3	3.48	34.0	1.34	-	38
36002403-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	92.2	3.63	37.9	1.49	-	50
36002403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	104.1	4.10	42.2	1.66	-	50
36002403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	106.7	4.20	44.9	1.77	-	60
36002403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	123.8	4.87	47.8	1.88	-	60
36002403-323200	-32	DN 51	2"	-32	2"	2" X 11	148.0	5.83	54.6	2.15	-	75

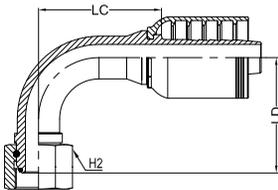
*R15 -12 to -24 only

BSPP 60° CONE O-RING FEMALE SWIVEL - 90°

BS5200 / ISO 12151-6

HF1P-WS 4SH/R13/R15* - BSPP OR FS 90
 HF1P-4SP -12 -16 - BSPP OR FS 90

36002903



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36002903-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	62.4	2.46	62.3	2.45	-	32
36002903-121600	-12	DN 19	3/4"	-16	1"	1" X 11	62.4	2.46	64.5	2.54	-	38
36002903-161600	-16	DN 25	1"	-16	1"	1" X 11	77.7	3.06	71.5	2.81	-	38
36002903-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11	77.7	3.06	77.0	3.03	-	50
36002903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11	91.1	3.59	89.0	3.50	-	50
36002903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11	91.1	3.59	92.8	3.65	-	60
36002903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	111.1	4.37	102.8	4.05	-	60
36002903-323200	-32	DN 51	2"	-32	2"	2" X 11	139.7	5.50	123.0	4.84	-	75

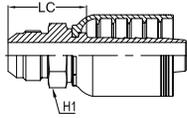
*R15 -12 to -24 only

JIC 37° CONE MALE

SAE J516 / ISO 12151-5

HF1P-WS 4SH/R13/R15* - JIC M
 HF1P-4SP -12 -16 - JIC M

36011005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	41.3	1.63	-	-	27	-
36011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	44.3	1.74	-	-	36	-
36011005-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	46.8	1.84	-	-	36	-
36011005-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	50.3	1.98	-	-	46	-
36011005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	52.0	2.05	-	-	46	-
36011005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	56.0	2.20	-	-	50	-
36011005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	57.2	2.25	-	-	50	-
36011005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	68.0	2.68	-	-	65	-

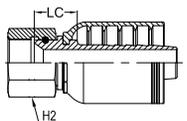
*R15 -12 to -24 only

JIC 37° CONE SEAT FEMALE SWIVEL

SAE J516 / ISO 12151-5

HF1P-WS 4SH/R13/R15* - JIC FS
 HF1P-4SP -12 -16 - JIC FS

36011003



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36011003-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	23.0	0.91	-	-	-	32
36011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	24.6	0.97	-	-	-	38
36011003-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	27.3	1.07	-	-	-	38
36011003-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	28.7	1.13	-	-	-	50
36011003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	31.4	1.24	-	-	-	50
36011003-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	33.9	1.33	-	-	-	60
36011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	34.7	1.37	-	-	-	60
36011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	38.4	1.51	-	-	-	75

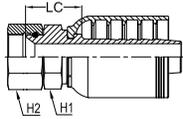
*R15 -12 to -24 only

JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

SAE J516 / ISO 12151-5

HF1P-WS 4SH/R13/R15* - JIC FS DH
 HF1P-4SP -12 -16 - JIC FS DH

360110H3



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
360110H3-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	30.0	1.18	-	-	27	32
360110H3-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	33.8	1.33	-	-	32	38
360110H3-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	38.3	1.51	-	-	36	38
360110H3-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	40.4	1.59	-	-	41	50
360110H3-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	42.1	1.66	-	-	41	50
360110H3-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	45.9	1.81	-	-	46	60
360110H3-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	48.1	1.89	-	-	50	60
360110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	55.0	2.17	-	-	65	75

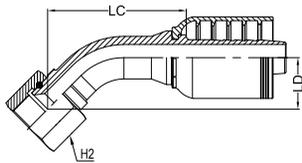
*R15 -12 to -24 only

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-5

HF1P-WS 4SH/R13/R15* - JIC FS 45
 HF1P-4SP -12 -16 - JIC FS 45

36011403



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36011403-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	70.9	2.79	27.8	1.09	-	32
36011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	85.8	3.38	31.2	1.23	-	38
36011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	99.9	3.93	38.8	1.53	-	50
36011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	120.6	4.75	44.7	1.76	-	60
36011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	146.7	5.78	53.3	2.10	-	75

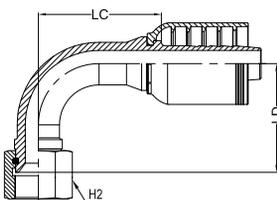
*R15 -12 to -24 only

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-5

HF1P-WS 4SH/R13/R15* - JIC FS 90
 HF1P-4SP -12 -16 - JIC FS 90

36011903



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36011903-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	62.4	2.46	58.7	2.31	-	32
36011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	77.7	3.06	67.5	2.66	-	38
36011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	91.2	3.59	84.1	3.31	-	50
36011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	111.1	4.37	98.4	3.87	-	60
36011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	139.1	5.48	121.0	4.76	-	75

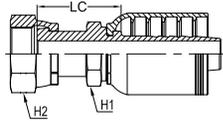
*R15 -12 to -24 only

ORFS FEMALE SWIVEL

SAE J516 / ISO 12151-1

HF1P-WS 4SH/R13/R15* - ORFS FS
 HF1P-4SP -12 -16 - ORFS FS

36031001



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	44.3	1.74	-	-	30	36
36031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	50.3	1.98	-	-	36	41
36031001-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	52.8	2.08	-	-	38	41
36031001-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	53.8	2.12	-	-	41	50

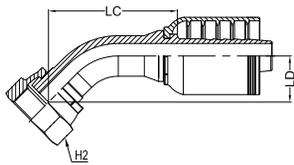
*R15 -12 to -24 only

ORFS FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-1

HF1P-WS 4SH/R13/R15* - ORFS FS 45
 HF1P-4SP -12 -16 - ORFS FS 45

36031401



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	69.3	2.73	21.0	0.83	-	36
36031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	69.7	2.74	24.0	0.94	-	41
36031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	83.0	3.27	24.0	0.94	-	41

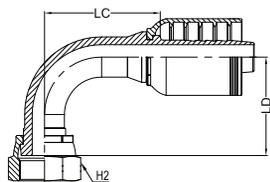
*R15 -12 to -24 only

ORFS FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-1

HF1P-WS 4SH/R13/R15* - ORFS FS 90
 HF1P-4SP -12 -16 - ORFS FS 90

36031901



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	62.4	2.46	56.5	2.22	-	36
36031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	62.4	2.46	71.0	2.80	-	41
36031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	77.7	3.06	71.0	2.80	-	41

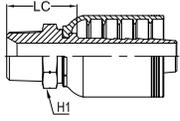
*R15 -12 to -24 only

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF1P-WS 4SH/R13/R15* - NPTF M
 HF1P-4SP -12 -16 - NPTF M

36023005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.8	1.45	-	-	27	-
36023005-121600	-12	DN 19	3/4"	-16	1"	1" X 11.5	46.8	1.84	-	-	36	-
36023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	49.3	1.94	-	-	36	-
36023005-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 11.5	52.3	2.06	-	-	46	-
36023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" X 11.5	54.0	2.13	-	-	46	-
36023005-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.1/2" X 11.5	56.0	2.20	-	-	50	-
36023005-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11.5	57.2	2.25	-	-	50	-
36023005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	61.5	2.42	-	-	65	-

*R15 -12 to -24 only

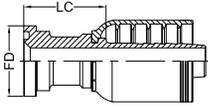
ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15* - 4SP -12 -16 - 360 SERIES SAE FLANGE

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SH/R13/R15* - SAE 61 3K FL
 HF1P-4SP -12 -16 - SAE 61 3K FL

36041000



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36041000-121200	-12	DN 19	3/4"	-12	3/4"		44.3	1.74	-	-	38.10	1.50
36041000-121600	-12	DN 19	3/4"	-16	1"		52.3	2.06	-	-	44.45	1.75
36041000-161600	-16	DN 25	1"	-16	1"		54.8	2.16	-	-	44.45	1.75
36041000-162000	-16	DN 25	1"	-20	1.1/4"		57.3	2.26	-	-	50.80	2.00
36041000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		59.0	2.32	-	-	50.80	2.00
36041000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		62.0	2.44	-	-	60.33	2.38
36041000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		63.2	2.49	-	-	60.33	2.38
36041000-323200	-32	DN 51	2"	-32	2"		76.0	2.99	-	-	71.42	2.81

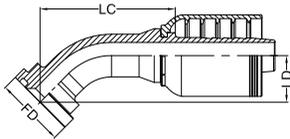
*R15 -12 to -24 only

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WS 4SH/R13/R15* - SAE 61 3K FL 45
 HF1P-4SP -12 -16 - SAE 61 3K FL 45

36041400



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36041400-121200	-12	DN 19	3/4"	-12	3/4"		68.3	2.69	25.2	0.99	38.10	1.50
36041400-121600	-12	DN 19	3/4"	-16	1"		68.3	2.69	25.2	0.99	44.45	1.75
36041400-161600	-16	DN 25	1"	-16	1"		81.6	3.21	27.3	1.07	44.45	1.75
36041400-162000	-16	DN 25	1"	-20	1.1/4"		81.6	3.21	27.3	1.07	50.80	2.00
36041400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		98.9	3.89	31.6	1.24	50.80	2.00
36041400-202400	-20	DN 32	1.1/4"	-24	1.1/2"		94.9	3.74	33.0	1.30	60.33	2.38
36041400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		113.3	4.46	37.4	1.47	60.33	2.38
36041400-323200	-32	DN 51	2"	-32	2"		136.9	5.39	45.4	1.79	71.42	2.81

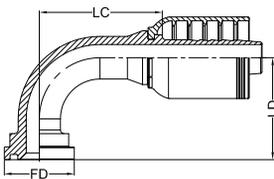
*R15 -12 to -24 only

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

H1P-WS 4SH/R13/R15* - SAE 61 3K FL 90
 HF1P-4SP -12 -16 - SAE 61 3K FL 90

36041900



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36041900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	55.0	2.17	38.10	1.50
36041900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	55.0	2.17	44.45	1.75
36041900-161600	-16	DN 25	1"	-16	1"		77.7	3.06	62.0	2.44	44.45	1.75
36041900-162000	-16	DN 25	1"	-20	1.1/4"		77.7	3.06	62.0	2.44	50.80	2.00
36041900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		91.1	3.59	74.0	2.91	50.80	2.00
36041900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		91.1	3.59	76.0	2.99	60.33	2.38
36041900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		111.1	4.37	88.0	3.46	60.33	2.38
36041900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	111.0	4.37	71.42	2.81

*R15 -12 to -24 only

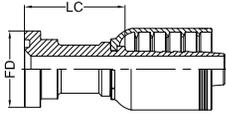
ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15* - 4SP -12 -16 - 360 SERIES SAE FLANGE

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SH/R13/R15* - SAE 62 6K FL
 HF1P-4SP -12 -16 - SAE 62 6K FL

36042000



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36042000-121200	-12	DN 19	3/4"	-12	3/4"		54.3	2.14	-	-	41.28	1.63
36042000-121600	-12	DN 19	3/4"	-16	1"		57.3	2.26	-	-	47.63	1.88
36042000-161600	-16	DN 25	1"	-16	1"		59.8	2.35	-	-	47.63	1.88
36042000-162000	-16	DN 25	1"	-20	1.1/4"		66.8	2.63	-	-	53.98	2.13
36042000-201600	-20	DN 32	1.1/4"	-16	1"		61.5	2.42	-	-	47.63	1.88
36042000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		68.5	2.70	-	-	53.98	2.13
36042000-202400	-20	DN 32	1.1/4"	-24	1.1/2"		72.5	2.85	-	-	63.50	2.50
36042000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		78.7	3.10	-	-	63.50	2.50
36042000-243200	-24	DN 38	1.1/2"	-32	2"		92.7	3.65	-	-	79.38	3.13
36042000-323200	-32	DN 51	2"	-32	2"		94.0	3.70	-	-	79.38	3.13

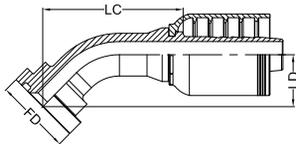
*R15 -12 to -24 only

SAE FLANGE CODE 62 6000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WS 4SH/R13/R15* - SAE 62 6K FL 45
 HF1P-4SP -12 -16 - SAE 62 6K FL 45

36042400



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36042400-121200	-12	DN 19	3/4"	-12	3/4"		71.1	2.80	28.1	1.11	41.28	1.63
36042400-121600	-12	DN 19	3/4"	-16	1"		73.3	2.89	30.2	1.19	47.63	1.88
36042400-161600	-16	DN 25	1"	-16	1"		86.5	3.41	32.2	1.27	47.63	1.88
36042400-162000	-16	DN 25	1"	-20	1.1/4"		89.4	3.52	35.1	1.38	53.98	2.13
36042400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		101.2	3.98	39.4	1.55	53.98	2.13
36042400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		121.8	4.80	45.9	1.81	63.50	2.50
36042400-243200	-24	DN 38	1.1/2"	-32	2"		127.4	5.02	51.5	2.03	79.38	3.13
36042400-323200	-32	DN 51	2"	-32	2"		150.3	5.92	58.8	2.31	79.38	3.13

*R15 -12 to -24 only

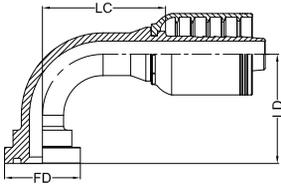
ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15* - 4SP -12 -16 - 360 SERIES SAE FLANGE

SAE FLANGE CODE 62 6000 PSI - 90°

SAE J516 / ISO 12151-3

HF1P-WS 4SH/R13/R15* - SAE 62 6K FL 90
 HF1P-4SP -12 -16 - SAE 62 6K FL 90

36042900



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36042900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	59.0	2.32	41.28	1.63
36042900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	62.0	2.44	47.63	1.88
36042900-161600	-16	DN 25	1"	-16	1"		77.7	3.06	69.0	2.72	47.63	1.88
36042900-162000	-16	DN 25	1"	-20	1.1/4"		77.7	3.06	73.0	2.87	53.98	2.13
36042900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		91.1	3.59	85.0	3.35	53.98	2.13
36042900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		91.1	3.59	90.0	3.54	63.50	2.50
36042900-242000	-24	DN 38	1.1/2"	-20	1.1/4"		97.6	3.84	85.0	3.35	53.98	2.13
36042900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		111.1	4.37	100.0	3.94	63.50	2.50
36042900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	130.0	5.12	79.38	3.13

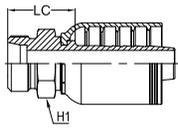
*R15 -12 to -24 only

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF1P-WS 4SH/R13/R15* - M24 CES M
 HF1P-4SP -12 -16 - MM24 CES M

36054005



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.3	1.55	-	-	36	-
36054005-164200	-16	DN 25	1"	-42	30	M42 X 2	45.8	1.80	-	-	46	-
36054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.5	2.03	-	-	55	-

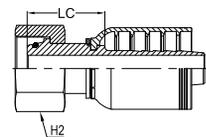
*R15 -12 to -24 only

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS

DIN 20066 / ISO 12151-2

HF1P-WS 4SH/R13/R15* - M24 DKOS FS
 HF1P-4SP -12 -16 - M24 DKOS FS

36056002



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	41.8	1.65	-	-	-	46
36056002-164200	-16	DN 25	1"	-42	30	M42 X 2	46.5	1.83	-	-	-	50
36056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.5	2.03	-	-	-	60

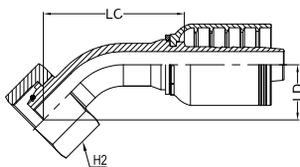
*R15 -12 to -24 only

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

HF1P-WS 4SH/R13/R15* - M24 DKOS FS 45
 HF1P-4SP -12 -16 - M24 DKOS FS 45

36056402



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	74.9	2.95	29.8	1.17	-	46
36056402-164200	-16	DN 25	1"	-42	30	M42 X 2	88.6	3.49	34.3	1.35	-	50
36056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	104.7	4.12	40.8	1.61	-	60

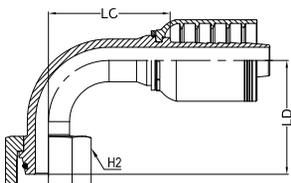
*R15 -12 to -24 only

METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

DIN 20066 / ISO 12151-2

HF1P-WS 4SH/R13/R15* - M24 DKOS FS 90
 HF1P-4SP -12 -16 - M24 DKOS FS 90

36056902



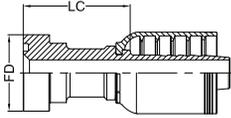
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	64.4	2.54	61.5	2.42	-	46
36056902-164200	-16	DN 25	1"	-42	30	M42 X 2	77.7	3.06	72.0	2.83	-	50
36056902-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	93.2	3.67	87.0	3.43	-	60

*R15 -12 to -24 only

SUPERCAT FLANGE

HF1P-WS 4SH/R13/R15* - SCAT 9K FL
 HF1P-4SP -12 -16 - SCAT 9K FL

36073000



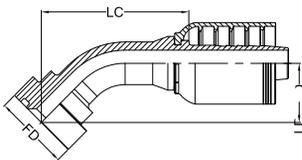
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36073000-121200	-12	DN 19	3/4"	-12	3/4"		57.8	2.28	-	-	41.28	1.63
36073000-121600	-12	DN 19	3/4"	-16	1"		62.3	2.45	-	-	47.63	1.88
36073000-161600	-16	DN 25	1"	-16	1"		64.8	2.55	-	-	47.63	1.88
36073000-162000	-16	DN 25	1"	-20	1.1/4"		71.8	2.83	-	-	53.98	2.13
36073000-202000	-20	DN 32	1.1/4"	-20	1.1/4"		73.5	2.89	-	-	53.98	2.13
36073000-242400	-24	DN 38	1.1/2"	-24	1.1/2"		81.7	3.22	-	-	63.50	2.50

*R15 -12 to -24 only

SUPERCAT FLANGE - 45°

HF1P-WS 4SH/R13/R15* - SCAT 9K FL 45
 HF1P-4SP -12 -16 - SCAT 9K FL 45

36073400



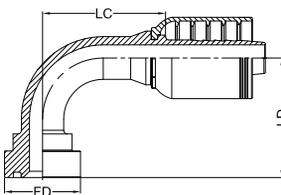
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36073400-121200	-12	DN 19	3/4"	-12	3/4"		75.0	2.95	31.9	1.26	41.28	1.63
36073400-121600	-12	DN 19	3/4"	-16	1"		76.1	3.00	33.0	1.30	47.63	1.88
36073400-161600	-12	DN 25	1"	-16	1"		89.4	3.52	35.0	1.38	47.63	1.88
36073400-162000	-16	DN 25	1"	-20	1.1/4"		91.5	3.60	37.2	1.46	53.98	2.13
36073400-202000	-20	DN 32	1.1/4"	-20	1.1/4"		103.3	4.07	41.5	1.63	53.98	2.13
36073400-242400	-24	DN 38	1.1/2"	-24	1.1/2"		123.2	4.85	47.3	1.86	63.50	2.50

*R15 -12 to -24 only

SUPERCAT FLANGE - 90°

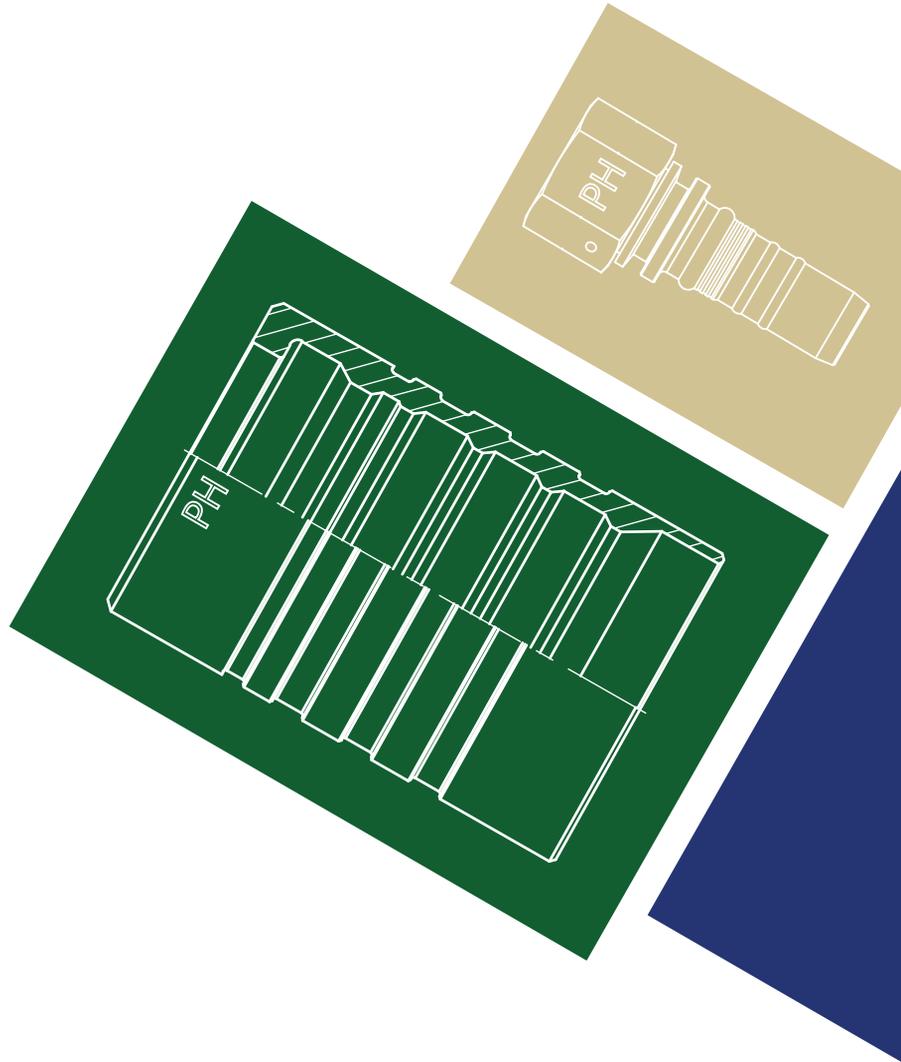
HF1P-WS 4SH/R13/R15* - SCAT 9K FL 90
 HF1P-4SP -12 -16 - SCAT 9K FL 90

36073900



ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
36073900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	64.5	2.54	41.28	1.63
36073900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	66.0	2.60	47.63	1.88
36073900-161600	-16	DN 25	1"	-16	1"		77.7	3.06	73.0	2.87	47.63	1.88
36073900-162000	-16	DN 25	1"	-20	1.1/4"		77.7	3.06	76.0	2.99	53.98	2.13
36073900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		91.1	3.59	88.0	3.46	53.98	2.13
36073900-242400	-24	DN 38	1.1/2"	-24	1.1/2"		111.1	4.37	102.0	4.02	63.50	2.50

*R15 -12 to -24 only



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