

INDEX

REFERENCE	PAGE	REFERENCE	PAGE	REFERENCE	PAGE
11001005	25	11042020	82	13054005	67
110010A0	54	11042400	43	13056002	67
110010B0	55	11042900	43	13056402	67
11002001	26	11051000	49	13056902	67
11002002	26	11051400	50	13073000	68
11002003	26	11051900	50	13073400	68
11002401	27	11053005	44	13073900	68
11002402	27	11054005	46	14001005	70
11002403	27	11055001	45	14002003	70
11002901	27	11055002	45	14002403	71
11002902	27	11055402	45	14002903	71
11002903	27	11055901	46	14004005	70
110029C1	28	11055902	46	14011003	72
11003001	28	11056002	47	14011005	72
11003002	28	11056402	47	14011403	72
11003005	28	11056902	48	14011903	73
11004005	25	110570A0	54	14023005	75
11011001	30	110570B0	56	14031001	74
11011003	30	11060001	48	14031401	74
11011005	29	11065001	51	14031901	74
110110H1	31	11065003	51	14041000	76
110110H3	31	11065901	51	14041400	76
11011401	32	11065903	51	14041900	76
11011403	32	11066001	51	14042000	77
11011901	33	11066003	51	14042400	77
11011903	33	11066401	52	14042900	78
110119L1	33	11066901	52	14054005	79
110119C1	34	11071001	52	14056002	79
110119S1	32	11073000	53	14056003	79
11012005	38	11073400	53	14056402	79
11013001	38	11073900	53	14056403	79
110130H1	38	11092000	55	14056902	80
11023004	40	11093000	55	14056903	80
11023005	39	13001005	58	14073000	81
11023008	39	13002003	58	14073400	81
11031001	35	13002403	59	14073900	81
11031005	35	13002903	59	21010050	20
11031401	36	13004005	58	21010150	20
11031402	36	13011005	60	21010200	20
11031901	37	13011003	60	21010210	21
11031902	37	13011403	61	21010300	21
110319L1	37	13011903	61	21010400	22
110319L2	37	13023005	63	21010750	22
110319S1	36	13031001	62	21010800	22
110319S2	36	13031401	62	21010900	23
11041000	41	13031901	62	21020100	24
11041010	82	13041000	64	21020250	21
11041020	82	13041400	64	21020250	24
11041400	41	13041900	64	21020400	24
11041900	42	13042000	65	23020410	57
11042000	42	13042400	65	24030420	69
11042010	83	13042900	66	24030430	69

INDEX

REFERENCE	PAGE	REFERENCE	PAGE	REFERENCE	PAGE
24030600	69	35055403	100	35555902	121
35001005	85	35055902	101	35554005	121
35002001	86	35055903	101	35556002	121
35002002	86	35056002	101	35556402	122
35002003	86	35056402	102	35556902	122
35002401	86	35056902	102	35573000	123
35002402	86	35066001	104	35573400	123
35002403	86	35066003	104	35573900	123
35002901	87	35066401	104	36001005	124
35002902	87	35066901	104	36002003	124
35002903	87	35071001	105	36002403	125
350029C1	87	35073000	106	36002903	125
35003001	88	35073400	106	36004005	124
35003002	88	35073900	106	36011003	126
35003005	88	35092000	107	36011005	126
35004005	85	35501005	108	360110H3	127
35011001	89	35502001	109	36611403	127
35011003	89	35502002	109	36011903	127
35011005	89	35502003	109	36023005	129
350110H1	90	35502401	109	36031001	128
350110H3	90	35502402	109	36031401	128
35011401	90	35502403	109	36031901	128
35011403	90	35502901	110	36041000	130
35011901	91	35502902	110	36041400	130
35011903	91	35502903	110	36041900	130
350119C1	91	35504005	108	36042000	131
35012005	94	35511001	111	36042400	131
35012008	94	35511003	111	36042900	132
35013001	94	35511005	111	36054005	133
350130H1	95	355110H1	112	36056002	133
35023004	97	355110H3	112	36056402	133
35023005	96	35511401	112	36056902	133
35023008	96	35511403	112	36073000	134
350239C8	97	35511901	113	36073400	134
35031001	92	35511903	113	36073900	134
35031005	92	35512005	116		
35031401	93	35523005	117		
35031402	93	35531005	114		
35031901	93	35531001	114		
35031902	93	35531401	114		
35041000	98	35531402	114		
35041400	98	35531901	115		
35041900	98	35531902	115		
35042000	99	35541000	118		
35042400	99	35541400	118		
35042900	99	35541900	118		
35051000	103	35542000	119		
35053005	100	35542400	119		
35054005	101	35542900	119		
35055002	100	35553005	120		
35055003	100	35555002	120		
35055402	100	35555402	120		

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
65	1P - HHWS - 4SH-DN51
66	1P - HHWS - R13-DN51
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



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

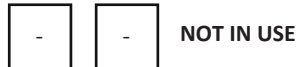
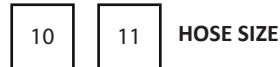
CODE	DESCR
10	2P - MT-HH
15	2P - HH-PH
25	2P - HH-TP
28	2P - HH-TP-JACK
30	2P - MS
40	2P - IL
47	2P - IL-WB
50	1P - HHWB
55	1P - HHWS - 4SP-R12
60	1P - HHWS - 4SH-R13
65	1P - HHWS - 4SH-DN51
66	1P - HHWS - R13-DN51
97	RU-R18
98	RU-R5
99	RU-1SN/2SN

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)
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



CODE	DESCR
0	FINISHED GOODS

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

HYDRAULIC FITTINGS - REFERENCE CHART

FERRULES - MULTITYPE - 210 SERIES

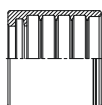
NO SKIVE - FE2P-MT



21010050
1SC



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



21010200
2SN/R2AT



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



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



21020400
4SP/R12

INSERTS - MULTITYPE - 110 SERIES

BSP - HF2P-MT



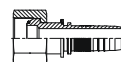
11004005
BSPT M



11001005
BSPP M



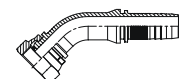
11002001
BSPP OR FS (CRN)



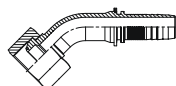
11002002
BSPP OR FS (SON)



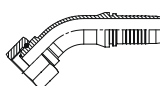
11002003
BSPP OR FS (TWN)



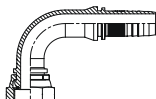
11002401
BSPP OR FS 45 (CRN)



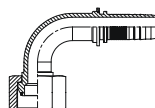
11002402
BSPP OR FS 45 (SON)



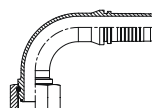
11002403
BSPP OR FS 45 (TWN)



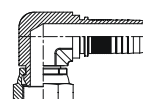
11002901
BSPP OR FS 90 (CRN)



11002902
BSPP OR FS 90 (SON)



11002903
BSPP OR FS 90 (TWN)



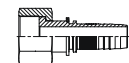
110029C1
BSPP FS 90 CP (CRN)



11003005
BSPP FSEAT M



11003001
BSPP FSEAT FS (CRN)



11003002
BSPP FSEAT FS (SON)

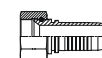
JIC 37° - HF2P-MT



11011005
JIC M



11011001
JIC FS (CRN)



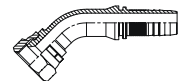
11011003
JIC FS (TWN)



110110H1
JIC FS DH (CRN)

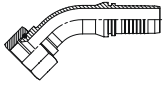


110110H3
JIC FS DH (TWN)

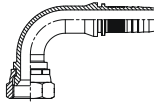


11011401
JIC FS 45 (CRN)

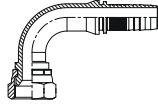
JIC 37° - HF2P-MT



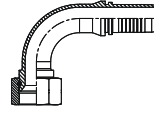
11011403
JIC FS 45 (TWN)



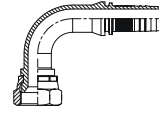
110119S1
JIC FS 90 SD (CRN)



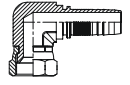
11011901
JIC FS 90 (CRN)



11011903
JIC FS 90 (TWN)

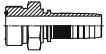


110119L1
JIC FS 90 LD (CRN)

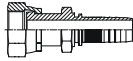


110119C1
JIC FS 90 CP (CRN)

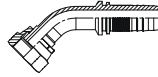
ORFS - HF2P-MT



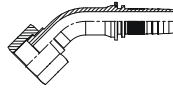
11031005
ORFS M



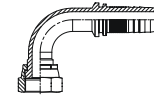
11031001
ORFS FS (CRN)



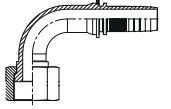
11031401
ORFS FS 45 (CRN)



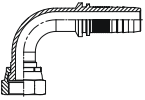
11031402
ORFS FS 45 (SON)



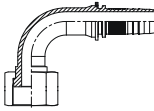
110319S1
ORFS FS 90 SD (CRN)



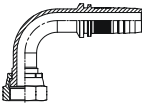
110319S2
ORFS FS 90 SD (SON)



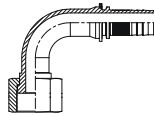
11031901
ORFS FS 90 (CRN)



11031902
ORFS FS 90 (SON)



110319L1
ORFS FS 90 LD (CRN)



110319L2
ORFS FS 90 LD (SON)

SAE - HF2P-MT



11012005
SAE ORB M

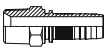


11013001
SAE 45 SEAT FS (CRN)



110130H1
SAE 45 SEAT DH FS (CRN)

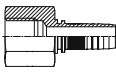
NPTF - HF2P-MT



11023005
NPTF M



11023008
NPTF MS

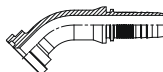


11023004
NPTF FF

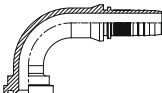
SAE FLANGE - HF2P-MT



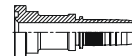
11041000
SAE 61 3K FL



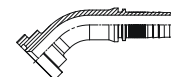
11041400
SAE 61 3K FL 45



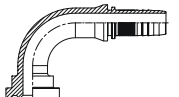
11041900
SAE 61 3K FL 90



11042000
SAE 62 6K FL



11042400
SAE 62 6K FL 45



11042900
SAE 62 6K FL 90

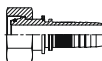
METRIC - HF2P-MT



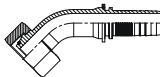
11053005
M24 CEL M



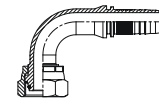
11055001
M24 DKOL FS (CRN)



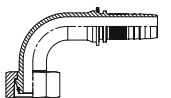
11055002
M24 DKOL FS (SON)



11055402
M24 DKOL FS 45 (SON)

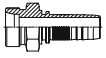


11055901
M24 DKOL FS 90 (CRN)

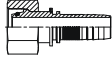


11055902
M24 DKOL FS 90 (SON)

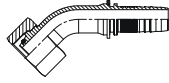
METRIC - HF2P-MT



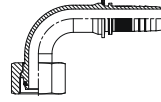
11054005
M24 CES M



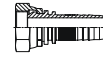
11056002
M24 DKOS FS (SON)



11056402
M24 DKOS FS 45 (SON)



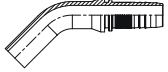
11056902
M24 DKOS FS 90 (SON)



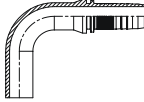
11060001
METRIC 60C FS (CRN)



11051000
MSP



11051400
MSP 45



11051900
MSP 90

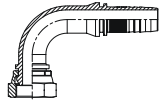
JIS - HF2P-MT



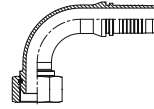
11065001
JIS C FS (CRN)



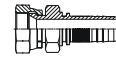
11065003
JIS C FS (TWN)



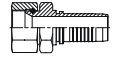
11065901
JIS C FS 90 (CRN)



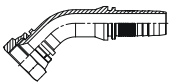
11065903
JIS C FS 90 (TWN)



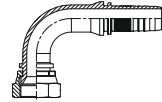
11066001
JIS F FS (CRN)



11066003
JIS F FS (TWN)



11066401
JIS F FS 45 (CRN)

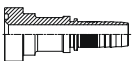


11066901
JIS F FS 90 (CRN)

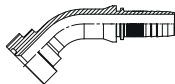


11071001
KOMATSU FS (CRN)

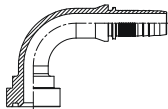
OEM - HF2P-MT



11073000
SCAT 9K FL



11073400
SCAT 9K FL 45

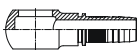


11073900
SCAT 9K FL 90

BANJO - HF2P-MT



110010A0
BSPP BANJO



110570A0
METRIC BANJO

ACCESSORIES - HF2P-MT



11092000
H-H



11093000
BRAZE TAIL



110010B0
BSPP BANJO BOLT



110570B0
METRIC BANJO BOLT

FERRULES - MULTISPIRAL - 230 SERIES

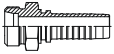
SKIVE - FE2P-MS



23020410
4SH

INSERTS - MULTISPIRAL - 130 SERIES

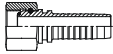
BSP - HF2P-MS



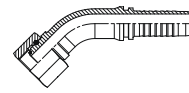
13004005
BSPT M



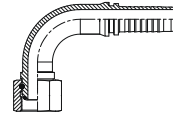
13001005
BSPP M



13002003
BSPP OR FS (TWN)



13002403
BSPP OR FS 45 (TWN)

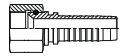


13002903
BSPP OR FS 90 (TWN)

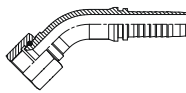
JIC 37° - HF2P-MS



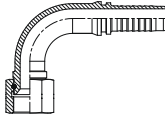
13011005
JIC M



13011003
JIC FS (TWN)

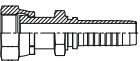


13011403
JIC FS 45 (TWN)

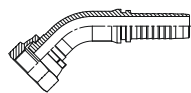


13011903
JIC FS 90 (TWN)

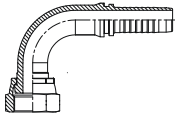
ORFS - HF2P-MS



13031001
ORFS FS (CRN)



13031401
ORFS FS 45 (CRN)



13031901
ORFS FS 90 (CRN)

NPTF - HF2P-MS

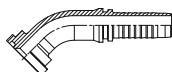


13023005
NPTF M

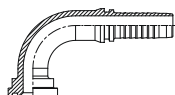
SAE FLANGE - HF2P-MS



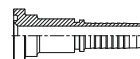
13041000
SAE 61 3K FL



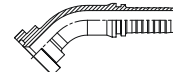
13041400
SAE 61 3K FL 45



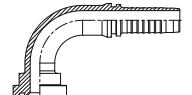
13041900
SAE 61 3K FL 90



13042000
SAE 62 6K FL

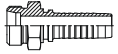


13042400
SAE 62 6K FL 45

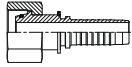


13042900
SAE 62 6K FL 90

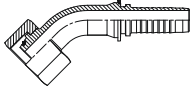
METRIC - HF2P-MS



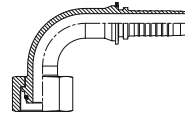
13054005
M24 CES M



13056002
M24 DKOS FS (SON)



13056402
M24 DKOS FS 45 (SON)

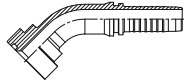


13056902
M24 DKOS FS 90 (SON)

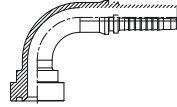
OEM - HF2P-MS



13073000
SCAT 9K FL



13073400
SCAT 9K FL 45



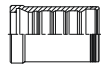
13073900
SCAT 9K FL 90

FERRULES - INTERLOCK - 240 SERIES

INTERLOCK - FE2P-IL



24030420
4SH/R13/R15



24030430
4SH



24030600
R13/R15

INSERTS - INTERLOCK - 140 SERIES

BSP - HF2P-IL



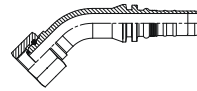
14004005
BSPT M



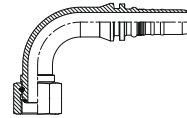
14001005
BSPP M



14002003
BSPP OR FS (TWN)



14002403
BSPP OR FS 45 (TWN)



14002903
BSPP OR FS 90 (TWN)

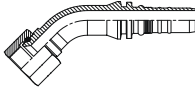
JIC 37° - HF2P-IL



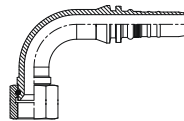
14011005
JIC M



14011003
JIC FS (TWN)

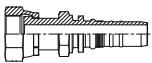


14011403
JIC FS 45 (TWN)

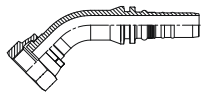


14011903
JIC FS 90 (TWN)

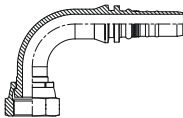
ORFS - HF2P-IL



14031001
ORFS FS (CRN)



14031401
ORFS FS 45 (CRN)



14031901
ORFS FS 90 (CRN)

NPTF - HF2P-IL

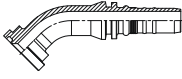


14023005
NPTF M

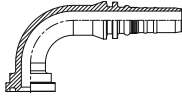
SAE FLANGE - HF2P-IL



14041000
SAE 61 3K FL



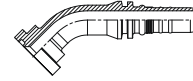
14041400
SAE 61 3K FL 45



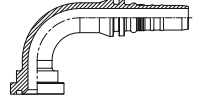
14041900
SAE 61 3K FL 90



14042000
SAE 62 6K FL

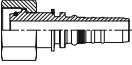


14042400
SAE 62 6K FL 45



14042900
SAE 62 6K FL 90

METRIC- HF2P-IL



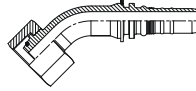
14054005
M24 CES M



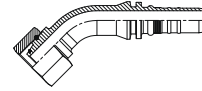
14056002
M24 DKOS FS (SON)



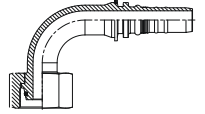
14056003
M24 DKOS FS (TWN)



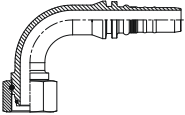
14056402
M24 DKOS FS 45 (SON)



14056403
M24 DKOS FS 45 (TWN)

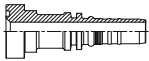


14056902
M24 DKOS FS 90 (SON)

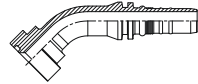


14056903
M24 DKOS FS 90 (TWN)

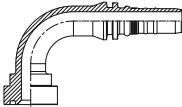
OEM - HF2P-IL



14073000
SCAT 9K FL



14073400
SCAT 9K FL 45



14073900
SCAT 9K FL 90

ACCESSORIES

FLANGE CLAMP



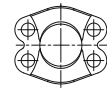
11041020
SAE 61 3K SFL



11042020
SAE 62 6K SFL



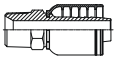
11041010
SAE 61 3K 4FL



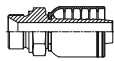
11042010
SAE 62 6K 4FL

ONE PIECE - WB - 1SC / 1SN / R1AT / 2SC / R16 / 2SN / R2AT / R17

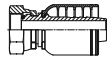
BSP - HF1P-WB



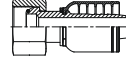
35004005
BSPT M



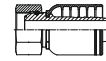
35001005
BSPP M



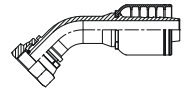
35002001
BSPP OR FS (CRN)



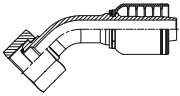
35002002
BSPP OR FS (SON)



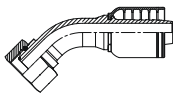
35002003
BSPP OR FS (TWN)



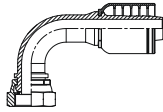
35002401
BSPP OR FS 45 (CRN)



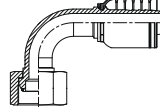
35002402
BSPP OR FS 45 (SON)



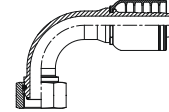
35002403
BSPP OR FS 45 (TWN)



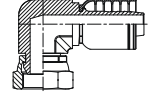
35002901
BSPP OR FS 90 (CRN)



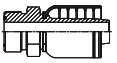
35002902
BSPP OR FS 90 (SON)



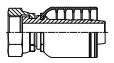
35002903
BSPP OR FS 90 (TWN)



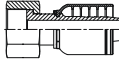
350029C1
BSPP OR FS 90 CP (CRN)



35003005
BSPP FSEAT M

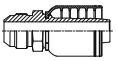


35003001
BSPP FSEAT FS (CRN)

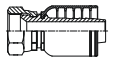


35003002
BSPP FSEAT FS (SON)

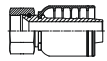
JIC 37° - HF1P-WB



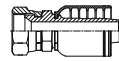
35011005
JIC M



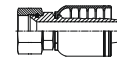
35011001
JIC FS (CRN)



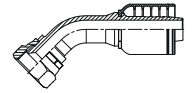
35011003
JIC FS (TWN)



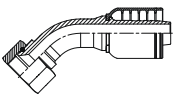
350110H1
JIC FS DH (CRN)



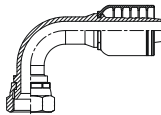
350110H3
JIC FS DH (TWN)



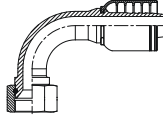
35011401
JIC FS 45 (CRN)



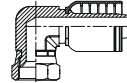
35011403
JIC FS 45 (TWN)



35011901
JIC FS 90 (CRN)

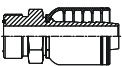


35011903
JIC FS 90 (TWN)

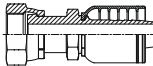


350119C1
JIC FS 90 CP (CRN)

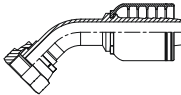
ORFS - HF1P-WB



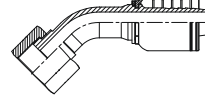
35031005
ORFS M



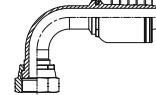
35031001
ORFS FS (CRN)



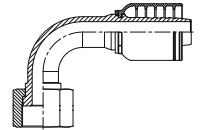
35031401
ORFS FS 45 (CRN)



35031402
ORFS FS 45 (SON)

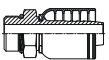


35031901
ORFS FS 90 (CRN)

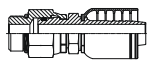


35031902
ORFS FS 90 (SON)

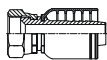
SAE - HF1P-WB



35012005
SAE ORB M



35012008
SAE ORB MS

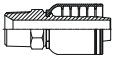


35013001
SAE 45 SEAT FS (CRN)

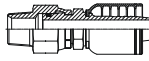


350130H1
SAE 45 SEAT DH FS (CRN)

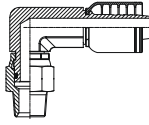
NPTF - HF1P-WB



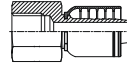
35023005
NPTF M



35023008
NPTF MS

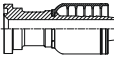


350239C8
NPTF MS CP

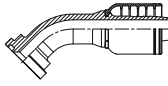


35023004
NPTF FF

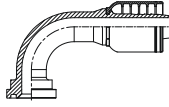
SAE FLANGE - HF1P-WB



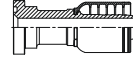
35041000
SAE 61 3K FL



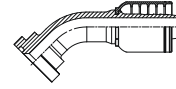
35041400
SAE 61 3K FL 45



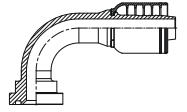
35041900
SAE 61 3K FL 90



35042000
SAE 62 6K FL

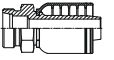


35042400
SAE 62 6K FL 45

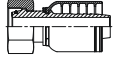


35042900
SAE 62 6K FL 90

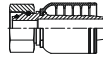
METRIC - HF1P-WB



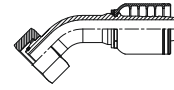
35053005
M24 CEL M



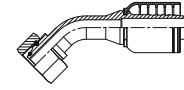
35055002
M24 DKOL FS (SON)



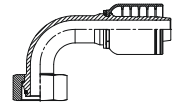
35055003
M24 DKOL FS (TWN)



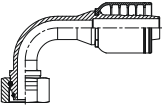
35055402
M24 DKOL FS 45 (SON)



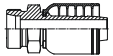
35055403
M24 DKOL FS 45 (TWN)



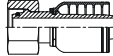
35055902
M24 DKOL FS 90 (SON)



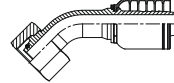
35055903
M24 DKOL FS 90 (TWN)



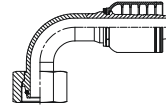
35054005
M24 CES M



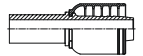
35056002
M24 DKOS FS (SON)



35056402
M24 DKOS FS 45 (SON)

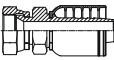


35056902
M24 DKOS FS 90 (SON)

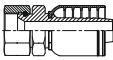


35051000
MSP

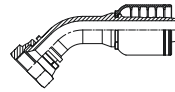
JIS - HF1P-WB



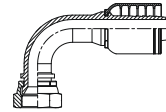
35066001
JIS F FS (CRN)



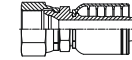
35066003
JIS F FS (TWN)



35066401
JIS F FS 45 (CRN)

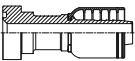


35066901
JIS F FS 90 (CRN)

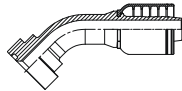


35071001
KOMATSU FS (CRN)

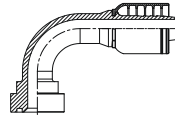
OEM - HF1P-WB



35073000
SCAT 9K FL

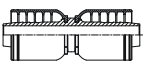


35073400
SCAT 9K FL 45



35073900
SCAT 9K FL 90

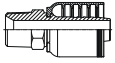
ACCESSORIES - HF1P-WB



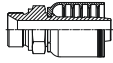
35092000
H-H

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

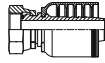
BSP - HF1P-WS 4SP-R12 - 4SH -12 -16



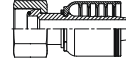
35504005
BSPT M



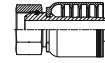
35501005
BSPP M



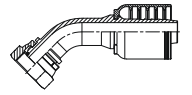
35502001
BSPP OR FS (CRN)



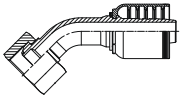
35502002
BSPP OR FS (SON)



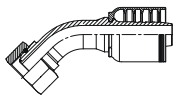
35502003
BSPP OR FS (TWN)



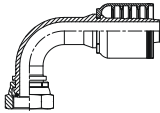
35502401
BSPP OR FS 45 (CRN)



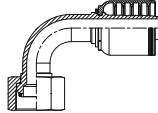
35502402
BSPP OR FS 45 (SON)



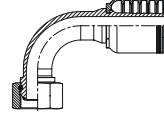
35502403
BSPP OR FS 45 (TWN)



35502901
BSPP OR FS 90 (CRN)

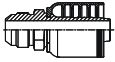


35502902
BSPP OR FS 90 (SON)

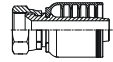


35502903
BSPP OR FS 90 (TWN)

JIC 37°- HF1P-WS 4SP-R12 - 4SH -12 -16



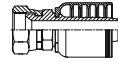
35511005
JIC M



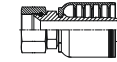
35511001
JIC FS (CRN)



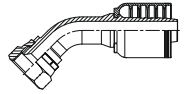
35511003
JIC FS (TWN)



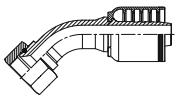
355110H1
JIC FS DH (CRN)



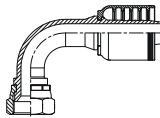
355110H3
JIC FS DH (TWN)



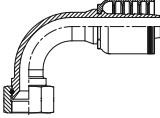
35511401
JIC FS 45 (CRN)



35511403
JIC FS 45 (TWN)

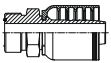


35511901
JIC FS 90 (CRN)

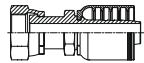


35511903
JIC FS 90 (TWN)

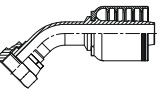
ORFS - HF1P-WS 4SP-R12 - 4SH -12 -16



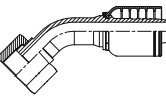
35531005
ORFS M



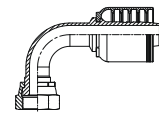
35531001
ORFS FS (CRN)



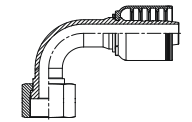
35531401
ORFS FS 45 (CRN)



35531402
ORFS FS 45 (SON)

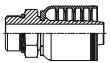


35531901
ORFS FS 90 (CRN)



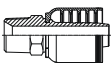
35531902
ORFS FS 90 (SON)

SAE - HF1P-WS 4SP-R12 - 4SH -12 -16



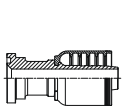
35512005
SAE ORB M

NPTF - HF1P-WS 4SP-R12 - 4SH -12 -16

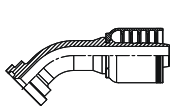


35523005
NPTF M

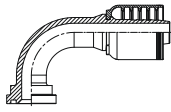
SAE FLANGE - HF1P-WS 4SP-R12 - 4SH -12 -16



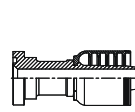
35541000
SAE 61 3K FL



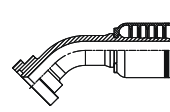
35541400
SAE 61 3K FL 45



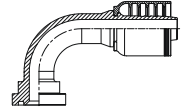
35541900
SAE 61 3K FL 90



35542000
SAE 62 6K FL

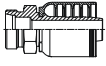


35542400
SAE 62 6K FL 45

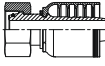


35542900
SAE 62 6K FL 90

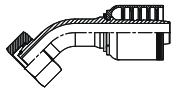
METRIC - HF1P-WS 4SP-R12 - 4SH -12 -16



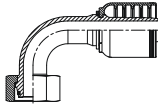
35553005
M24 CEL M



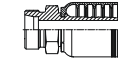
35555002
M24 DKOL FS (SON)



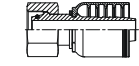
35555402
M24 DKOL FS 45 (SON)



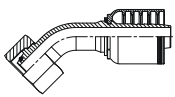
35555902
M24 DKOL FS 90 (SON)



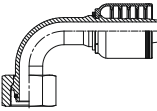
35554005
M24 CES M



35556002
M24 DKOS FS (SON)

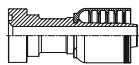


35556402
M24 DKOS FS 45 (SON)

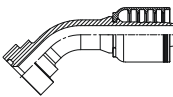


35556902
M24 DKOS FS 90 (SON)

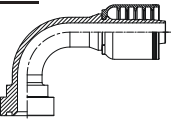
OEM - HF1P-WS 4SP-R12 - 4SH -12 -16



35573000
SCAT 9K FL



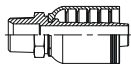
35573400
SCAT 9K FL 45



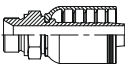
35573900
SCAT 9K FL 90

ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15 - 360 SERIES

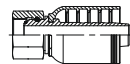
BSP - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



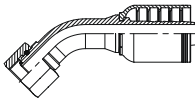
36004005
BSPT M



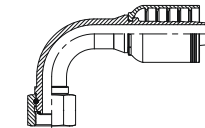
36001005
BSPP M



36002003
BSPP OR FS (TWN)

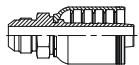


36002403
BSPP OR FS 45 (TWN)

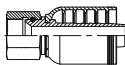


36002903
BSPP OR FS 90 (TWN)

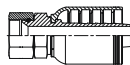
JIC 37° - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



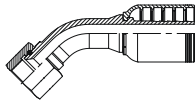
36011005
JIC M



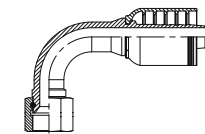
36011003
JIC FS (TWN)



360110H3
JIC FS DH (TWN)

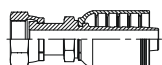


36011403
JIC FS 45 (TWN)

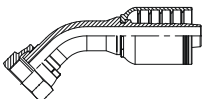


36011903
JIC FS 90 (TWN)

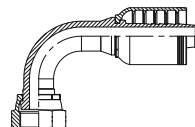
ORFS - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



36031001
ORFS FS (CRN)

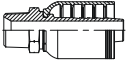


36031401
ORFS FS 45 (CRN)



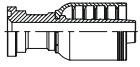
36031901
ORFS FS 90 (CRN)

NPTF - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32

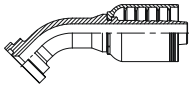


36023005
NPTF M

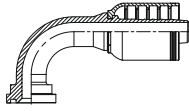
SAE FLANGE - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



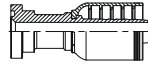
36041000
SAE 61 3K FL



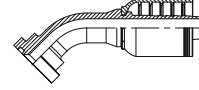
36041400
SAE 61 3K FL



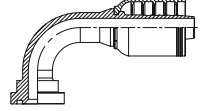
36041900
SAE 61 3K FL 90



36042000
SAE 62 6K FL

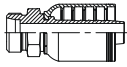


36042400
SAE 62 6K FL 45

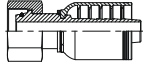


36042900
SAE 62 6K FL 90

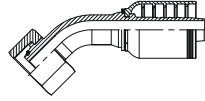
METRIC - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



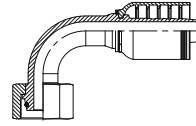
36054005
M24 CES M



36056002
M24 DKOS FS (SON)

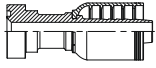


36056402
M24 DKOS FS 45 (SON)

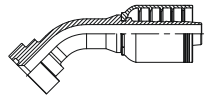


36056902
M24 DKOS FS 90 (SON)

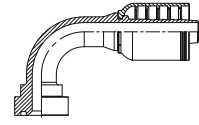
OEM - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



36073000
SCAT 9K FL



36073400
SCAT 9K FL 45



36073900
SCAT 9K FL 90

WIRE SPIRAL					TEXTILE BRAID				
EN 856 R12 SAE 100 R12	EN 856 4SP	EN 856 4SH	EN 856 R13 SAE 100 R13	EN 856 R15 SAE 100 R15	EN 854 R6 SAE 100 R6	EN 854 2TE	EN 854 R3 SAE 100 R3	EN 854 3TE	EN 854 R4 SAE 100 R4
					-04 → -16 DN 06 → DN 25 1/4" → 1"	-04 → -16 DN 06 → DN 25 1/4" → 1"			
							-04 → -20 DN 06 → DN 31 1/4" → 1 1/4"	-04 → -32 DN 06 → DN 51 1/4" → 2"	-12 → -40 DN 19 → DN 63 3/4" → 2 1/2"
-06 → -20 DN 10 → DN 31 3/8" → 1 1/4"									
-10 → -32 DN 16 → DN 51 5/8" → 2"									
-06 → -08 DN 10 → DN 12 3/8" → 1/2"	-04 → -16 DN 06 → DN 25 1/4" → 1"								
		-12 → -32 DN 19 → DN 51 3/4" → 2"							
		-12 → -16 DN 19 → DN 25 3/4" → 1"	-12 → -16 DN 19 → DN 25 3/4" → 1"	-12 → -16 DN 19 → DN 25 3/4" → 1"					
		-20 → -32 DN 31 → DN 51 1 1/4" → 2"							
			-20 → -32 DN 31 → DN 51 1 1/4" → 2"	-20 → -32 DN 31 → DN 51 1 1/4" → 2"					

-06 → -32 DN 10 → DN 51 3/8" → 2"	-06 → -16 DN 10 → DN 25 3/8" → 1"	-12 → -16 DN 19 → DN 25 3/4" → 1"							
		-12 → -24 DN 19 → DN 38 3/4" → 1 1/2"	-12 → -24 DN 19 → DN 38 3/4" → 1 1/2"	-12 → -24 DN 19 → DN 38 3/4" → 1 1/2"					
		-32 DN 51 2"							
			-32 DN 51 2"						

TWO PIECE FITTINGS

HOSE TYPE				THERMOPLASTIC		PTFE
FITTING TYPE	INSERT SERIES	ASSEMBLY TYPE	FERRULE SERIES	EN 855 R7 SAE 100 R7	EN 855 R7 SAE 100 R7	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 → -06 DN 06 → DN 10 1/4" → 3/8"	-04 → -06 DN 06 → DN 10 1/4" → 3/8"	
MT	110	NO SKIVE	21010800			
MT	110	NO SKIVE	21010900			-04 → -06 DN 06 → DN 10 1/4" → 3/8"
MT	110	SKIVE	21020100			
MT	110	SKIVE	21020250			
MT	110	SKIVE	21020400			
MS	130	SKIVE	23020410			
IL	140	INTERLOCK	24030420			
IL	140	INTERLOCK	24030430			
IL	140	INTERLOCK	24030600			

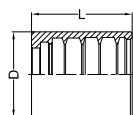
FERRULES - MULTITYPE - 210 SERIES

FERRULE - MULTITYPE - NO SKIVE

FERRULE - NO SKIVE

FE2P-MT-NS 1SC

21010050

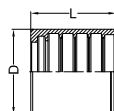


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010050-040000	1SC	-04	DN 06	1/4"	26.3	1.04	19.0	0.75
21010050-050000	1SC	-05	DN 08	5/16"	26.3	1.04	21.0	0.83
21010050-060000	1SC	-06	DN 10	3/8"	27.2	1.07	23.0	0.91

FERRULE - NO SKIVE

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

21010150

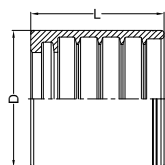


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010150-030000	1SN/R1AT	-03	DN 05	3/16"	19.5	0.77	19.0	0.75
21010150-040000	1SN/R1AT/2SC/R16	-04	DN 06	1/4"	24.7	0.97	21.0	0.83
21010150-050000	1SN/R1AT/2SC/R16	-05	DN 08	5/16"	24.7	0.97	23.0	0.91
21010150-060000	1SN/R1AT/2SC/R16	-06	DN 10	3/8"	29.7	1.17	26.0	1.02
21010150-080000	1SC/1SN/R1AT/2SC/R16	-08	DN 12	1/2"	30.5	1.20	29.0	1.14
21010150-100000	1SC/1SN/R1AT/2SC/R16	-10	DN 16	5/8"	30.5	1.20	32.0	1.26
21010150-120000	1SC/1SN/R1AT/2SC/R16	-12	DN 19	3/4"	36.0	1.42	36.0	1.42
21010150-160000	1SC/1SN/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

FERRULE - NO SKIVE

FE2P-MT-NS 2SN/R2AT

21010200



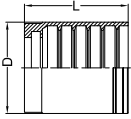
ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010200-030000	2SN/R2AT	-03	DN 05	3/16"	24.0	0.94	21.0	0.83
21010200-040000	2SN/R2AT	-04	DN 06	1/4"	24.7	0.97	22.0	0.87
21010200-050000	2SN/R2AT	-05	DN 08	5/16"	24.7	0.97	25.0	0.98
21010200-060000	2SN/R2AT	-06	DN 10	3/8"	29.7	1.17	27.0	1.06
21010200-080000	2SN/R2AT	-08	DN 12	1/2"	30.5	1.20	30.0	1.18
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

FERRULES - MULTITYPE - 210 SERIES

FERRULE - NO SKIVE

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

21010210

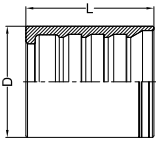


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010210-030000	1SN/R1AT/2SN/R2AT	-03	DN 05	3/16"	23.0	0.91	21.0	0.83
21010210-040000	1SN/R1AT/2SC/R16/2SN/R2AT	-04	DN 06	1/4"	30.5	1.20	23.0	0.91
21010210-050000	1SN/R1AT/2SC/R16/2SN/R2AT	-05	DN 08	5/16"	30.0	1.18	24.0	0.94
21010210-060000	1SN/R1AT/2SC/R16/2SN/R2AT	-06	DN 10	3/8"	32.0	1.26	26.0	1.02
21010210-080000	1SN/R1AT/2SC/R16/2SN/R2AT	-08	DN 12	1/2"	34.0	1.34	29.0	1.14
21010210-100000	1SN/R1AT/2SC/R16/2SN/R2AT	-10	DN 16	5/8"	37.0	1.46	33.0	1.30
21010210-120000	1SN/R1AT/2SC/R16/2SN/R2AT	-12	DN 19	3/4"	42.0	1.65	37.0	1.46
21010210-160000	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

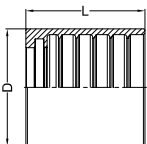


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020250-040000	R6/2TE	-04	DN 06	1/4"	26.3	1.04	21.0	0.83
21020250-050000	R6/2TE	-05	DN 08	5/16"	26.5	1.04	22.0	0.87
21020250-060000	R6/2TE	-06	DN 10	3/8"	28.5	1.12	25.0	0.98
21020250-080000	R6/2TE	-08	DN 12	1/2"	34.7	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



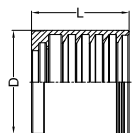
ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010300-030000	R5	-03	DN 05	3/16"	24.3	0.96	20.0	0.79
21010300-040000	R3/3TE/R5	-04	DN 06	1/4"	26.3	1.04	22.0	0.87
21010300-050000	R3/3TE/R5	-05	DN 08	5/16"	26.3	1.04	25.0	0.98
21010300-060000	R3/3TE/R5	-06	DN 10	3/8"	27.2	1.07	25.0	0.98
21010300-080000	R3/3TE/R5	-08	DN 12	1/2"	32.8	1.29	29.0	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	R3/3TE/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	3TE/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

FERRULES - MULTITYPE - 210 SERIES

FERRULE - NO SKIVE

FE2P-MT-NS R12

21010400

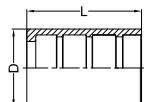


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010400-060000	R12	-06	DN 10	3/8"	28.0	1.10	30.0	1.18
21010400-080000	R12	-08	DN 12	1/2"	33.9	1.33	34.0	1.34
21010400-100000	R12	-10	DN 16	5/8"	36.6	1.44	38.0	1.50
21010400-120000	R12	-12	DN 19	3/4"	39.5	1.56	42.0	1.65
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

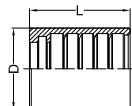


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010750-020000	R7	-02	DN 04	1/8"	27.0	1.06	12.7	0.50
21010750-030000	R7	-03	DN 05	3/16"	27.0	1.06	14.0	0.55
21010750-040000	R7/R8	-04	DN 06	1/4"	29.0	1.14	17.0	0.67
21010750-050000	R7/R8	-05	DN 08	5/16"	30.0	1.18	19.0	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

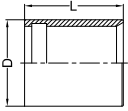


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21010800-040000	PLT	-04	DN 06	1/4"	26.3	1.04	19.0	0.75
21010800-050000	PLT	-05	DN 08	5/16"	26.3	1.04	21.0	0.83
21010800-060000	PLT	-06	DN 10	3/8"	27.2	1.07	22.0	0.87
21010800-080000	PLT	-08	DN 12	1/2"	32.8	1.29	25.0	0.98

FERRULE - NO SKIVE

FE2P-MT-NS PTFE

21010900



ITEM CODE	HOSE TYPE	HOSE ID			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

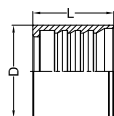
FERRULES - MULTITYPE - 220 SERIES

FERRULE - MULTITYPE - SKIVE

FERRULE SKIVE

FE2P-MT-SK 1SN

21020100

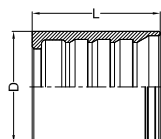


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020100-200000	1SN/R1AT/1ST/R1A	-20	DN 32	1.1/4"	43.8	1.72	50.0	1.97
21020100-240000	1SN/R1AT/1ST/R1A	-24	DN 38	1.1/2"	49.2	1.94	57.0	2.24
21020100-320000	1SN/R1AT/1ST/R1A	-32	DN 51	2"	63.7	2.51	71.0	2.80

FERRULE SKIVE

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

21020250

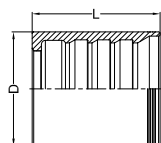


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020250-030000	1SN/R1AT/2SN/R2AT	-03	DN 05	3/16"	24.3	0.96	20.0	0.79
21020250-040000	1SN/R1AT/2SC/R16/2SN/R2AT	-04	DN 06	1/4"	26.3	1.04	21.0	0.83
21020250-050000	1SN/R1AT/2SC/R16/2SN/R2AT	-05	DN 08	5/16"	26.5	1.04	22.0	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	1SN/R1AT/2SC/R16/2SN/R2AT/R12	-10	DN 16	5/8"	37.5	1.48	32.0	1.26
21020250-120000	1SN/R1AT/2SC/R16/2SN/R2AT/R12	-12	DN 19	3/4"	41.5	1.63	36.0	1.42
21020250-160000	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	58.0	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



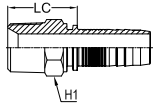
ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
21020400-040000	4SP	-04	DN 06	1/4"	26.3	1.04	22.0	0.87
21020400-060000	4SP/R12	-06	DN 10	3/8"	28.5	1.12	25.0	0.98
21020400-080000	4SP/R12	-08	DN 12	1/2"	34.7	1.37	29.0	1.14
21020400-100000	4SP	-10	DN 16	5/8"	37.5	1.48	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

BSPT MALE

HF2P-MT - BSPT M

ISO 7

11004005



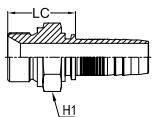
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11004005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	21.8	0.86			12	
11004005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.3	0.88			12	
11004005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 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

HF2P-MT - BSPP M

BS5200 / ISO 8434-9

11001005



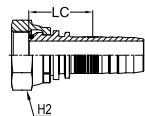
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11001005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	21.3	0.84			14	
11001005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	21.7	0.85			14	
11001005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 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

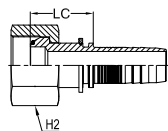
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS

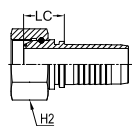
11002001



11002002



11002003



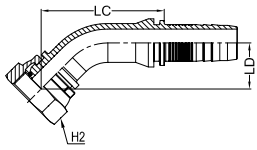
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11002001-020400	-02	DN 04	1/8"	-04	1/4"	1/4" X 19	17.0	0.67				19
11001001-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	14.8	0.58				14
11002001-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 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
11002003-323200	-32	DN 51	2"	-32	2"	2" X 11	35.0	1.38				70

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

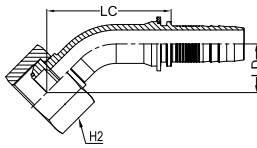
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS 45

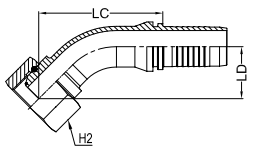
11002401



11002402



11002403



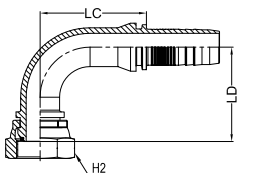
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11002401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	40.1	1.58	17.2	0.68		19
11002402-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	43.8	1.72	19.4	0.76		22
11002402-050600	-05	DN 08	5/16"	-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°

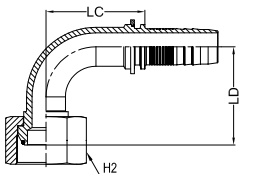
BS5200 / ISO 12151-6

HF2P-MT - BSPP OR FS 90

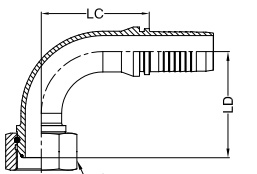
11002901



11002902



11002903



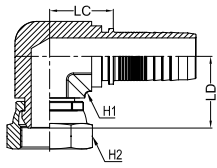
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11001901-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 28	27.7	1.09	28.0	1.10		14
11002901-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 19	27.7	1.09	32.0	1.26		19
11002901-040400	-04	DN 06	1/4"	-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

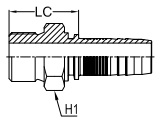


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110029C1-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.5	0.69	18.5	0.73	11	19
110029C1-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	20.0	0.79	24.0	0.94	16	22
110029C1-060800	-06	DN 10	3/8"	-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

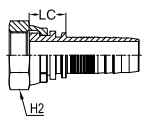


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11003005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.3	1.04			19	
11003005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	27.8	1.09			22	
11003005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	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

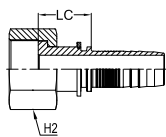
HF2P-MT - BSPP FSEAT FS

11003001



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	

11003002

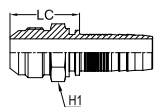


JIC 37° CONE MALE

HF2P-MT - JIC M

SAE J516 / ISO 12151-5

11011005



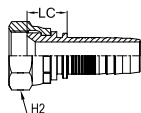
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011005-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	24.8	0.98			12	
11011005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	25.3	1.00			12	
11011005-040500	-04	DN 06	1/4"	-05	5/16"	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

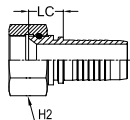
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS

11011001



11011003



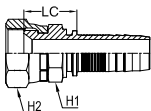
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011001-020400	-02	DN 04	1/8"	-04	1/4"	7/16" X 20	14.5	0.57				15
11011001-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	14.3	0.56				15
11011001-040400	-04	DN 06	1/4"	-04	1/4"	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

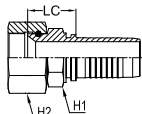
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS DH

110110H1



110110H3



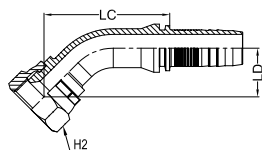
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110110H1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	19.3	0.76			12	15
110110H1-030600	-03	DN 05	3/16"	-06	3/8"	9/16" X 18	19.8	0.78			14	19
110110H1-040400	-04	DN 06	1/4"	-04	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°

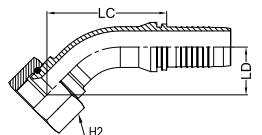
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 45

11011401



11011403



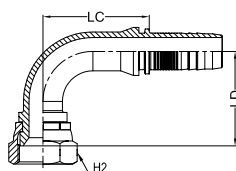
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011401-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	36.1	1.42	14.9	0.59		15
11011401-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	38.3	1.51	15.5	0.61		15
11011401-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	38.7	1.52	15.8	0.62		17
11011401-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	38.7	1.52	15.8	0.62		19
11011401-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	39.4	1.55	16.1	0.63		17
11011401-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	39.4	1.55	16.1	0.63		19
11011401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.7	1.56	16.2	0.64		19
11011401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.2	1.66	18.6	0.73		25
11011401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	47.5	1.87	20.9	0.82		25
11011401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	48.2	1.90	21.6	0.85		27
11011401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	50.0	1.97	23.4	0.92		32
11011401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	59.1	2.33	23.9	0.94		27
11011401-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	60.9	2.40	25.7	1.01		32
11011401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.9	2.67	26.3	1.04		32
11011401-121400	-12	DN 19	3/4"	-14	7/8"	1.3/16" X 12	67.4	2.65	25.8	1.02		36
11011401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	69.0	2.72	27.4	1.08		38
11011401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	80.0	3.15	31.2	1.23		38
11011403-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.3	3.28	34.4	1.35		50
11011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	97.1	3.82	38.8	1.53		50
11011403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	100.1	3.94	41.8	1.65		55
11011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	114.6	4.51	44.7	1.76		55
11011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	135.2	5.32	53.3	2.10		70

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

SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90 SD

110119S1



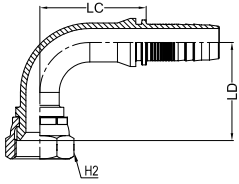
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119S1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	26.7	1.05	21.0	0.83		15
110119S1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	27.4	1.08	24.0	0.94		15
110119S1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	27.4	1.08	24.5	0.96		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	27.0	1.06		19
110119S1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.7	1.25	28.0	1.10		19
110119S1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.7	1.25	31.5	1.24		25
110119S1-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	36.5	1.44	37.5	1.48		25
110119S1-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	38.5	1.52		27
110119S1-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	36.5	1.44	41.0	1.61		32
110119S1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	44.8	1.76	41.5	1.63		27
110119S1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	44.8	1.76	44.0	1.73		32
110119S1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	52.5	2.07	46.0	1.81		32
110119S1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	52.5	2.07	47.5	1.87		38
110119S1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	67.3	2.65	60.5	2.38		38

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

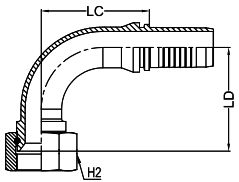
SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90

11011901



11011903



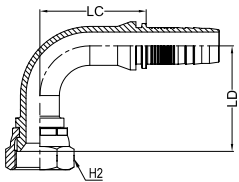
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11011901-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	27.7	1.09	27.5	1.08		15
11011901-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.4	1.20	29.5	1.16		15
11011901-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	30.4	1.20	30.0	1.18		17
11011901-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	30.4	1.20	30.0	1.18		19
11011901-050500	-05	DN 08	5/16"	-05	5/16"	1/2" X 20	31.4	1.24	31.0	1.22		17
11011901-050600	-05	DN 08	5/16"	-06	3/8"	9/16" X 18	31.4	1.24	31.0	1.22		19
11011901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.7	1.25	31.0	1.22		19
11011901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.7	1.25	34.5	1.36		25
11011901-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	36.5	1.44	39.5	1.56		25
11011901-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	36.5	1.44	40.5	1.59		27
11011901-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.8	1.96	48.5	1.91		27
11011901-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	49.8	1.96	51.0	2.01		32
11011901-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.5	2.26	53.0	2.09		32
11011901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	57.5	2.26	54.5	2.15		38
11011901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.3	2.85	67.5	2.66		38
11011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.3	2.85	72.1	2.84		50
11011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	87.6	3.45	84.1	3.31		50
11011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	87.6	3.45	88.4	3.48		55
11011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	105.0	4.13	98.4	3.87		55
11011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	127.6	5.02	121.0	4.76		70

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

SAE J516 / ISO 12151-5

HF2P-MT - JIC FS 90 LD

110119L1



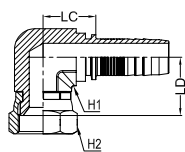
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119L1-030400	-03	DN 05	3/16"	-04	1/4"	7/16" X 20	27.7	1.09	44.0	1.73		15
110119L1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.4	1.20	46.0	1.81		15
110119L1-040500	-04	DN 06	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	65.0	2.56		27
110119L1-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	49.8	1.96	65.0	2.56		27
110119L1-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	49.8	1.96	95.0	3.74		32
110119L1-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.5	2.26	95.0	3.74		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



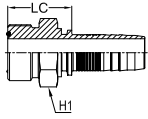
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110119C1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	17.5	0.69	16.0	0.63	11	15
110119C1-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	20.0	0.79	21.5	0.85	16	19
110119C1-060600	-06	DN 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



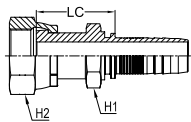
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031005-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	22.3	0.88			17	
11031005-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	24.3	0.96			19	
11031005-060600	-06	DN 10	3/8"	-06	3/8"	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



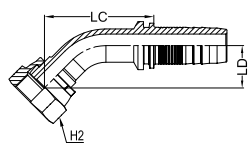
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031001-030400	-03	DN 05	3/16"	-04	1/4"	9/16" X 18	26.8	1.06			14	17
11031001-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	27.3	1.07			14	17
11031001-040600	-04	DN 06	1/4"	-06	3/8"	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°

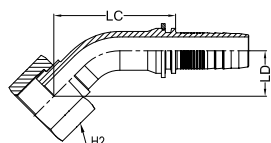
SAE J516 / ISO 12151-1

HF2P-MT - ORFS FS 45

11031401



11031402



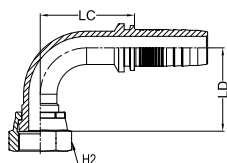
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031402-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	37.8	1.49	13.4	0.53		17
11031402-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	39.6	1.56	15.1	0.59		22
11031402-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	40.5	1.59	15.4	0.61		22
11031402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.3	1.59	15.5	0.61		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	18.4	0.72		24
11031402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	49.1	1.93	20.5	0.81		30
11031402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	59.3	2.33	22.9	0.90		30
11031402-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	60.3	2.37	23.9	0.94		36
11031402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.8	2.59	24.5	0.96		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	28.7	1.13		41
11031402-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	76.8	3.02	28.7	1.13		50
11031402-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	89.6	3.53	33.0	1.30		50
11031402-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	89.6	3.53	33.0	1.30		60
11031402-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	101.6	4.00	36.0	1.42		60

ORFS FEMALE SWIVEL - 90° - SHORT DROP

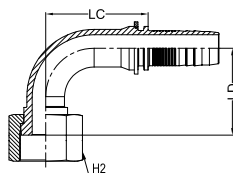
SAE J516 / ISO 12151-1

HF2P-MT - ORFS FS 90 SD

110319S1



110319S2



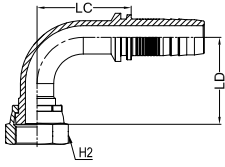
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110319S2-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	29.1	1.15	21.0	0.83		17
110319S2-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	29.1	1.15	23.5	0.93		22
110319S2-050600	-05	DN 08	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	25.0	0.98		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	34.0	1.34		24
110319S2-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	40.5	1.59	37.0	1.46		30
110319S1-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	46.1	1.81	40.0	1.57		30
110319S2-101200	-10	DN 16	5/8"	-12	3/4"	1.3/16" X 12	46.1	1.81	41.5	1.63		36
110319S1-121000	-12	DN 19	3/4"	-10	5/8"	1" X 14	45.9	1.81	40.0	1.57		30
110319S1-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	52.1	2.05	43.5	1.71		36
110319S2-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	52.1	2.05	44.0	1.73		41
110319S1-161200	-16	DN 25	1"	-12	3/4"	1.3/16" X 12	56.9	2.24	43.5	1.71		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	57.0	2.24		50
110319S2-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	80.9	3.19	69.0	2.72		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	77.0	3.03		60

ORFS FEMALE SWIVEL - 90°

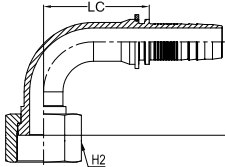
HF2P-MT - ORFS FS 90

SAE J516 / ISO 12151-1

11031901



11031902



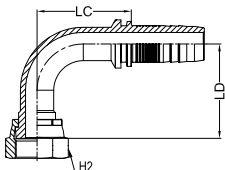
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11031902-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.1	1.26	26.5	1.04		17
11031902-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.1	1.26	29.0	1.14		22
11031902-050600	-05	DN 08	5/16"	-06	3/8"	11/16" X 16	33.3	1.31	30.0	1.18		22
11031902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.1	1.30	30.0	1.18		22
11031902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.1	1.30	30.0	1.18		24
11031901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	36.5	1.44	36.0	1.42		24
11031902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	38.5	1.52	39.0	1.54		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	50.5	1.99		36
11031902-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	57.1	2.25	50.5	1.99		36
11031902-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	71.5	2.81	64.0	2.52		41
11031902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.5	2.81	64.0	2.52		41
11031902-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	71.5	2.81	64.0	2.52		50
11031902-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.9	3.38	76.0	2.99		50
11031902-202400	-20	DN 32	1.1/4"	-24	1.1/2"	2" X 12	85.9	3.38	76.0	2.99		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

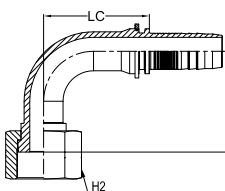
HF2P-MT - ORFS FS 90 LD

SAE J516 / ISO 12151-1

110319L1



110319L2



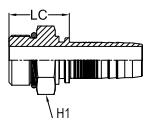
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110319L2-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.1	1.26	46.0	1.81		17
110319L2-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.1	1.26	54.0	2.13		22
110319L2-050600	-05	DN 08	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

HF2P-MT - SAE ORB M

SAE J516 / ISO 11926

11012005



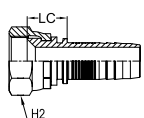
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11012005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	20.3	0.80			14	
11012005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	21.3	0.84			16	
11012005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" 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	
11012005-101200	-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

HF2P-MT - SAE 45 SEAT FS

SAE J516 / ISO 11926

11013001



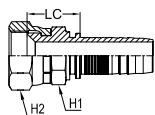
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11013001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.8	0.58				15
11013001-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	16.3	0.64				22
11013001-080800	-08	DN 12	1/2"	-08	1/2"	3/4" 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

HF2P-MT - SAE 45 SEAT DH FS

SAE J516 / ISO 11926

110130H1



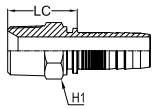
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110130H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.8	0.78			14	15
110130H1-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	22.3	0.88			17	22
110130H1-080800	-08	DN 12	1/2"	-08	1/2"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



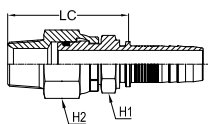
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023005-020400	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	27.0	1.06			17	
11023005-030200	-03	DN 05	3/16"	-02	1/8"	1/8" X 27	21.3	0.84			12	
11023005-030400	-03	DN 05	3/16"	-04	1/4"	1/4" X 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



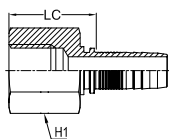
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023008-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	51.9	2.04			12	19
11023008-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	56.8	2.24			17	22
11023008-060400	-06	DN 10	3/8"	-04	1/4"	1/4" 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



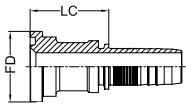
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11023004-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	22.3	0.88			17	
11023004-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	26.8	1.06			19	
11023004-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	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



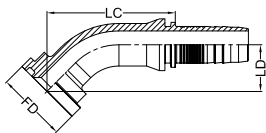
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041000-080800	-08	DN 12	1/2"	-08	1/2"		41.0	1.61			30.18	1.19
11041000-081200	-08	DN 12	1/2"	-12	3/4"		42.0	1.65			38.10	1.50
11041000-101200	-10	DN 16	5/8"	-12	3/4"		42.2	1.66			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



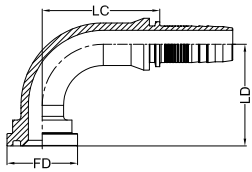
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041400-080800	-08	DN 12	1/2"	-08	1/2"		51.1	2.01	21.9	0.86	30.18	1.19
11041400-081200	-08	DN 12	1/2"	-12	3/4"		51.8	2.04	22.6	0.89	38.1	1.50
11041400-101200	-10	DN 16	5/8"	-12	3/4"		58.1	2.29	22.9	0.90	38.1	1.50
11041400-121200	-12	DN 19	3/4"	-12	3/4"		69.4	2.73	25.2	0.99	38.1	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	50.8	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	50.8	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	50.8	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



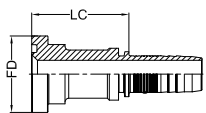
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11041900-080800	-08	DN 12	1/2"	-08	1/2"		43.3	1.70	45.0	1.77	30.18	1.19
11041900-081200	-08	DN 12	1/2"	-12	3/4"		43.3	1.70	46.0	1.81	38.10	1.50
11041900-101200	-10	DN 16	5/8"	-12	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



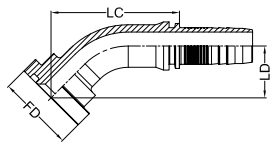
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11042000-080800	-08	DN 12	1/2"	-08	1/2"		47.0	1.85			31.75	1.25
11042000-081200	-08	DN 12	1/2"	-12	3/4"		52.0	2.05			41.28	1.63
11042000-101200	-10	DN 16	5/8"	-12	3/4"		52.0	2.05			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



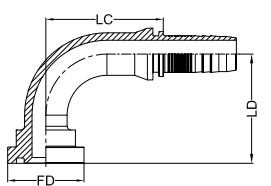
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11042400-080800	-08	DN 12	1/2"	-08	1/2"		51.8	2.04	22.6	0.89	31.75	1.25
11042400-081200	-08	DN 12	1/2"	-12	3/4"		54.6	2.15	25.4	1.00	41.28	1.63
11042400-101200	-10	DN 16	5/8"	-12	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



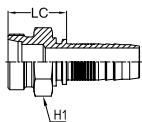
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11042900-080800	-08	DN 12	1/2"	-08	1/2"		43.3	1.70	46.0	1.81	31.75	1.25
11042900-081200	-08	DN 12	1/2"	-12	3/4"		43.3	1.70	50.0	1.97	41.28	1.63
11042900-100800	-10	DN 16	5/8"	-08	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



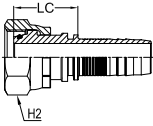
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11053005-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	20.3	0.80			14	
11053005-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	21.3	0.84			14	
11053005-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	23.3	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

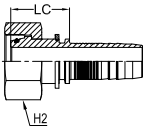
DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOL FS

11055001



11055002



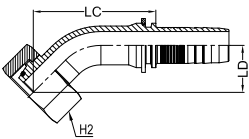
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11055002-021400	-03	DN 05	3/16"	-14	8	M14 X 1.5	24.1	0.95				17
11055001-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	24.3	0.96				14
11055002-031400	-03	DN 05	3/16"	-14	8	M14 X 1.5	23.9	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



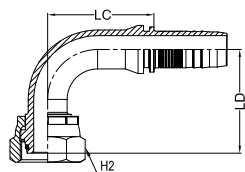
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11055401-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	38.3	1.51	17.0	0.67		14
11055401-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	40.4	1.59	17.6	0.69		14
11055402-041400	-04	DN 06	1/4"	-14	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°

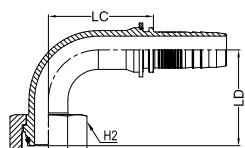
DIN 20066 / ISO 12151-2

HF2P-MT - M24 DKOL FS 90

11055901



11055902



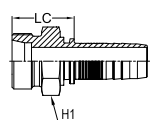
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11055901-031200	-03	DN 05	3/16"	-12	6	M12 X 1.5	27.7	1.09	30.5	1.20		14
11055901-041200	-04	DN 06	1/4"	-12	6	M12 X 1.5	30.4	1.20	32.5	1.28		14
11055902-041400	-04	DN 06	1/4"	-14	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



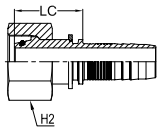
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11054005-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	24.3	0.96			17	
11054005-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	25.3	1.00			19	
11054005-052000	-05	DN 08	5/16"	-20	12	M20 X 1.5	25.3	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



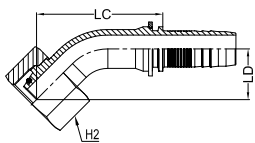
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056002-021600	-04	DN 06	1/4"	-16	8	M16 X 1.5	27.4	1.08				19
11056002-031600	-03	DN 05	3/16"	-16	8	M16 X 1.5	27.2	1.07				19
11056002-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	26.4	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				41
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



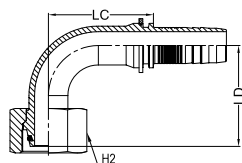
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056402-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	41.7	1.64	17.6	0.69		17
11056402-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	42.2	1.66	17.8	0.70		19
11056402-041800	-04	DN 06	1/4"	-18	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		41
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

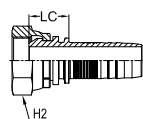


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11056902-041400	-04	DN 06	1/4"	-14	6	M14 X 1.5	31.7	1.25	32.5	1.28		17
11056902-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	32.0	1.26	32.8	1.29		19
11056902-041800	-04	DN 06	1/4"	-18	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		41
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



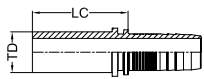
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11060001-041400	-04	DN 06	1/4"	-14		M14 X 1.5	17.8	0.70				19
11060001-061600	-06	DN 10	3/8"	-16		M16 X 1.5	18.3	0.72				22
11060001-082200	-08	DN 12	1/2"	-22		M22 X 1.5	22.6	0.89				27
11060001-123000	-12	DN 19	3/4"	-30		M30 X 1.5	26.1	1.03				36
11060001-163900	-16	DN 25	1"	-39		M39 X 2.0	30.0	1.18				46

METRIC STANDPIPE

HF2P-MT - MSP

DIN 2353 / ISO 8434-1

11051000



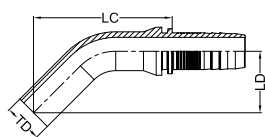
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	TD MM
11051000-030600	-03	DN 05	3/16"	-06	06		27.7	1.09				06
11051000-030800	-03	DN 05	3/16"	-08	08		29.7	1.17				08
11051000-040600	-04	DN 06	1/4"	-06	06		28.3	1.11				06
11051000-040800	-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°

HF2P-MT - MSP 45

DIN 2353 / ISO 8434-1

11051400



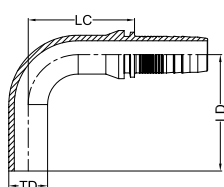
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	TD MM
11051400-040600	-04	DN 06	1/4"	-06	06		46.4	1.83	23.6	0.93		06
11051400-040800	-04	DN 06	1/4"	-08	08		47.8	1.88	25.0	0.98		08
11051400-041000	-04	DN 06	1/4"	-10	10		49.3	1.94	26.4	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	-16	DN 25	1"	-30	30		97.3	3.83	48.5	1.91		30

METRIC STANDPIPE - 90°

HF2P-MT - MSP 90

DIN 2353 / ISO 8434-1

11051900



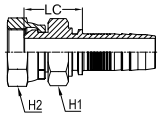
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	TD MM
11051900-030600	-03	DN 05	3/16"	-06	06		27.7	1.09	39.0	1.54		06
11051900-040600	-04	DN 06	1/4"	-06	06		30.4	1.20	41.0	1.61		06
11051900-040800	-04	DN 06	1/4"	-08	08		30.4	1.20	43.0	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

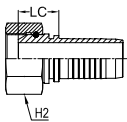
JIS B 8363

HF2P-MT - JIS C FS

11065001



11065003



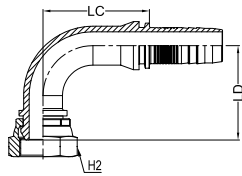
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11065001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	24.3	0.96			19	19
11065001-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	25.5	1.00			22	22
11065001-080800	-08	DN 12	1/2"	-08	1/2"	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°

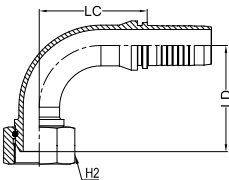
JIS B 8363

HF2P-MT - JIS C FS 90

11065901



11065903



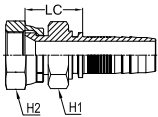
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11065901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.4	1.20	32.0	1.26		19
11065901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.7	1.25	34.2	1.35		22
11065901-080800	-08	DN 12	1/2"	-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

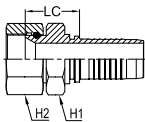
JIS B 8363

HF2P-MT - JIS F FS

11066001



11066003



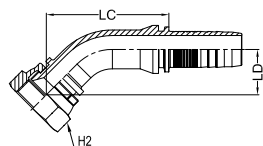
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	21.3	0.84			19	19
11066001-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	22.8	0.90			22	22
11066001-080800	-08	DN 12	1/2"	-08	1/2"	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



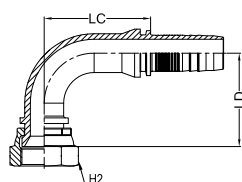
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	38.0	1.50	15.1	0.59		19
11066401-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	40.1	1.58	16.5	0.65		22
11066401-080800	-08	DN 12	1/2"	-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

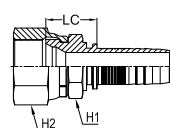


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11066901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.4	1.20	29.0	1.14		19
11066901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.7	1.25	31.5	1.24		22
11066901-080800	-08	DN 12	1/2"	-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

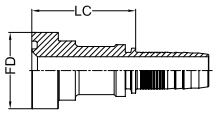


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11071001-041400	-04	DN 06	1/4"	-14		M14 X 1.5	20.8	0.82			17	19
11071001-061400	-06	DN 10	3/8"	-14		M14 X 1.5	20.8	0.82			17	19
11071001-061800	-06	DN 10	3/8"	-18		M18 X 1.5	22.1	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

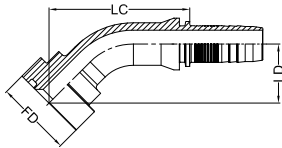


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073000-121200	-12	DN 19	3/4"	-12	3/4"		56.1	2.21			41.28	1.63
11073000-121600	-12	DN 19	3/4"	-16	1"		60.6	2.39			47.63	1.88
11073000-161200	-16	DN 25	1"	-12	3/4"		56.9	2.24			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

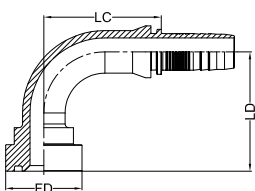


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073400-121200	-12	DN 19	3/4"	-12	3/4"		76.1	3.00	31.9	1.26	41.28	1.63
11073400-121600	-12	DN 19	3/4"	-16	1"		77.1	3.04	33.0	1.30	47.63	1.88
11073400-161600	-16	DN 25	1"	-16	1"		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

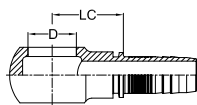


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
11073900-121600	-12	DN 19	3/4"	-16	1"		63.5	2.50	66.0	2.60	47.63	1.88
11073900-162000	-16	DN 25	1"	-20	1.1/4"		76.4	3.01	76.0	2.99	53.98	2.13
11073900-202000	-20	DN 32	1.1/4"	-20	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



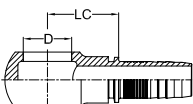
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	D MM
110010A0-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	20.0	0.79				9.9
110010A0-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.5	1.04				13.3
110010A0-050600	-05	DN 08	5/16"	-06	3/8"	3/8" 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

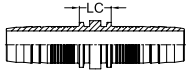


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	D MM
110570A0-031000	-03	DN 05	3/16"	-10		M10 X 1.5	24.0	0.94				10.1
110570A0-041000	-04	DN 06	1/4"	-10		M10 X 1.5	25.0	0.98				10.1
110570A0-041200	-04	DN 06	1/4"	-12		M12 X 1.5	28.5	1.12				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

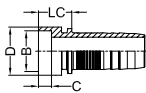


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	DN	INCH	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
11092000-040400	-04	DN 06	1/4"	-04	DN 06	1/4"	12.6	0.50				
11092000-050500	-05	DN 08	5/16"	-05	DN 08	5/16"	12.6	0.50				
11092000-060600	-06	DN 10	3/8"	-06	DN 10	3/8"	12.6	0.50				
11092000-080800	-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	14.0	0.55	10.0	0.39	6.0	14.0
11093000-061200	-06	DN 10	3/8"	-06	3/8"	-16	14.5	0.57	12.0	0.47	6.0	16.0
11093000-081500	-08	DN 12	1/2"	-08	1/2"	-19	15.0	0.59	15.0	0.59	6.0	19.0
11093000-101800	-10	DN 16	5/8"	-10	5/8"	-23	16.5	0.65	18.0	0.71	7.0	23.0
11093000-122200	-12	DN 19	3/4"	-12	3/4"	-26	18.0	0.71	22.0	0.87	7.0	26.0
11093000-162800	-16	DN 25	1"	-16	1"	-32	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	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	24.0	0.94	40.0	1.57	9.0	46.0
11093000-325000	-32	DN 51	2"	-32	2"	-61	25.0	0.98	50.0	1.97	10.0	61.0

BSPP BANJO BOLT

HF2P-MT - BSPP BB

110010B0



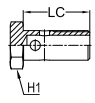
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110010B0-040000				-04	1/4"	1/4" X 19	28.5	1.12			19	
110010B0-060000				-06	3/8"	3/8" X 19	38.5	1.52			22	
110010B0-080000				-08	1/2"	1/2" X 14	44.0	1.73			27	
110010B0-100000				-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

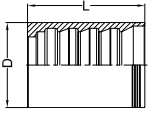


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
110570B0-100000				-10		M10 X 1.5	19.0	0.75			14	
110570B0-120000				-12		M12 X 1.5	24.0	0.94			17	
110570B0-140000				-14		M14 X 1.5	26.0	1.02			19	
110570B0-160000				-16		M16 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	

FERRULE - SKIVE

FE2P-MS-SK - 4SH

23020410



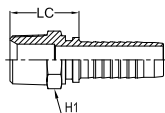
ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
23020410-120000	4SH	-12	DN 19	3/4"	51.0	2.01	37.0	1.46
23020410-160000	4SH	-16	DN 25	1"	61.5	2.42	16.5	0.65
23020410-200000	4SH	-20	DN 32	1.1/4"	67.5	2.66	53.0	2.09
23020410-240000	4SH	-24	DN 38	1.1/2"	75.0	2.95	61.0	2.40
23020410-320000	4SH	-32	DN 51	2"	79.0	3.11	77.0	3.03

BSPT MALE

HF2P-MS - BSPT M

ISO 7

13004005



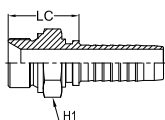
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	37.3	1.47			27	
13004005-161600	-16	DN 25	1"	-16	1"	1" X 11	47.5	1.87			36	
13004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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

HF2P-MS - BSPP M

BS5200 / ISO 8434-9

13001005



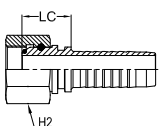
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	38.3	1.51			32	
13001005-161600	-16	DN 25	1"	-16	1"	1" X 11	44.0	1.73			41	
13001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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

HF2P-MS - BSPP OR FS

BS5200 / ISO 12151-6

13002003



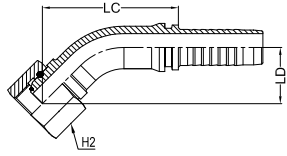
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002003-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	26.6	1.05				32
13002003-161600	-16	DN 25	1"	-16	1"	1" X 11	29.5	1.16				38
13002003-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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



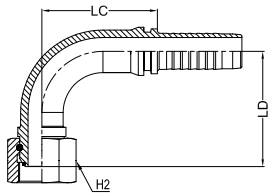
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002403-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	73.5	2.89	30.4	1.20		32
13002403-161600	-16	DN 25	1"	-16	1"	1" X 11	84.4	3.32	34.0	1.34		38
13002403-202000	-20	DN 32	1.1/4"	-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



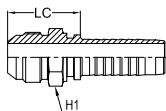
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13002903-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	62.4	2.46	62.3	2.45		32
13002903-161600	-16	DN 25	1"	-16	1"	1" X 11	73.9	2.91	71.5	2.81		38
13002903-202000	-20	DN 32	1.1/4"	-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



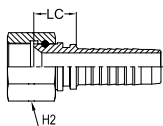
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	39.3	1.55			27	
13011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	44.3	1.74			36	
13011005-161600	-16	DN 25	1"	-16	1"	1.5/16" 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



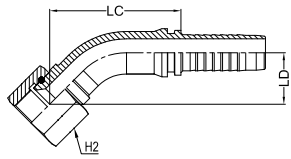
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011003-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	23.0	0.91				32
13011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	24.8	0.98				38
13011003-161600	-16	DN 25	1"	-16	1"	1.5/16" 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



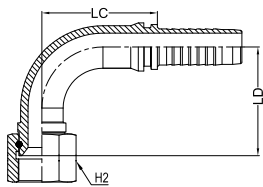
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011403-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	70.9	2.79	27.8	1.09		32
13011403-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	72.2	2.84	29.1	1.15		38
13011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	81.6	3.21	31.2	1.23		38
13011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	97.6	3.84	38.8	1.53		50
13011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	100.4	3.95	44.7	1.76		55
13011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	133.4	5.25	53.3	2.10		70

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

HF2P-MS - JIC FS 90

SAE J516 / ISO 12151-5

13011903



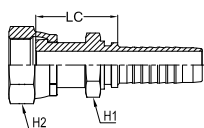
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13011903-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	62.4	2.46	58.7	2.31		32
13011903-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	62.4	2.46	60.5	2.38		38
13011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	73.9	2.91	67.5	2.66		38
13011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	73.9	2.91	72.1	2.84		50
13011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	88.1	3.47	84.1	3.31		50
13011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	88.1	3.47	88.4	3.48		55
13011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	100.9	3.97	98.4	3.87		55
13011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	125.9	4.96	121.0	4.76		70

ORFS FEMALE SWIVEL

HF2P-MS - ORFS FS

SAE J516 / ISO 12151-1

13031001



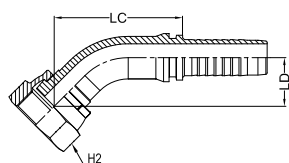
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	44.3	1.74			30	36
13031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	50.3	1.98			36	41
13031001-161000	-16	DN 25	1"	-10	5/8"	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°

HF2P-MS - ORFS FS 45

SAE J516 / ISO 12151-1

13031401



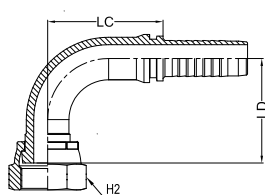
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	69.4	2.73	26.3	1.04		36
13031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	69.7	2.74	26.6	1.05		41
13031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	79.1	3.11	28.7	1.13		41
13031401-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	79.1	3.11	28.7	1.13		50
13031401-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	91.9	3.62	33.0	1.30		50

ORFS FEMALE SWIVEL - 90°

HF2P-MS - ORFS FS 90

SAE J516 / ISO 12151-1

13031901



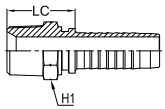
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	62.4	2.46	56.5	2.22		36
13031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	62.4	2.46	57.0	2.24		41
13031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	73.9	2.91	64.0	2.52		41
13031901-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	73.9	2.91	64.0	2.52		50
13031901-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	88.1	3.47	76.0	2.99		50

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF2P-MS - NPTF M

13023005



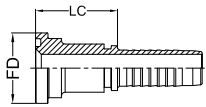
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	36.8	1.45			27	
13023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	47.5	1.87			36	
13023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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

HF2P-MS - SAE 61 3K FL

SAE J516 / ISO 12151-3

13041000



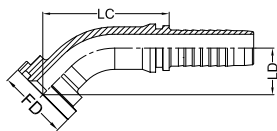
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041000-121200	-12	DN 19	3/4"	-12	3/4"		44.3	1.74			38.10	1.50
13041000-121600	-12	DN 19	3/4"	-16	1"		52.3	2.06			44.45	1.75
13041000-161600	-16	DN 25	1"	-16	1"		53.0	2.09			44.45	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°

HF2P-MS - SAE 61 3K FL 45

SAE J516 / ISO 12151-3

13041400



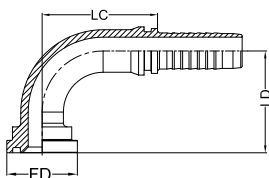
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041400-121200	-12	DN 19	3/4"	-12	3/4"		68.3	2.69	25.2	0.99	38.10	1.50
13041400-121600	-12	DN 19	3/4"	-16	1"		68.3	2.69	25.2	0.99	44.45	1.75
13041400-161600	-16	DN 25	1"	-16	1"		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°

HF2P-MS - SAE 61 3K FL 90

SAE J516 / ISO 12151-3

13041900



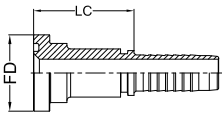
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13041900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	55.0	2.17	38.10	1.50
13041900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	55.0	2.17	44.45	1.75
13041900-161600	-16	DN 25	1"	-16	1"		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



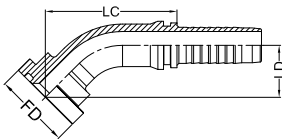
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042000-121200	-12	DN 19	3/4"	-12	3/4"		54.3	2.14			41.28	1.63
13042000-121600	-12	DN 19	3/4"	-16	1"		57.3	2.26			47.63	1.88
13042000-161200	-16	DN 25	1"	-12	3/4"		55.0	2.17			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



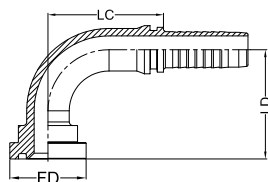
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042400-121200	-12	DN 19	3/4"	-12	3/4"		71.1	2.80	28.1	1.11	41.28	1.63
13042400-121600	-12	DN 19	3/4"	-16	1"		73.3	2.89	30.2	1.19	47.63	1.88
13042400-161200	-16	DN 25	1"	-12	3/4"		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



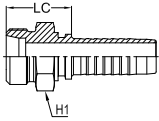
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13042900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	59.0	2.32	41.28	1.63
13042900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	62.0	2.44	47.63	1.88
13042900-161200	-16	DN 25	1"	-12	3/4"		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

DIN 20066 / ISO 12151-2

HF2P-MS - M24 CES M

13054005



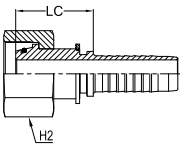
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13054005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	35.3	1.39			32	
13054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.3	1.55			36	
13054005-164200	-16	DN 25	1"	-42	30	M42 X 2	44.0	1.73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

DIN 20066 / ISO 12151-2

HF2P-MS - M24 DKOS FS

13056002



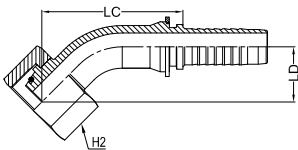
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	41.9	1.65				46
13056002-164200	-16	DN 25	1"	-42	30	M42 X 2	44.7	1.76				50
13056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	48.6	1.91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

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

DIN 20066 / ISO 12151-2

HF2P-MS - M24 DKOS FS 45

13056402



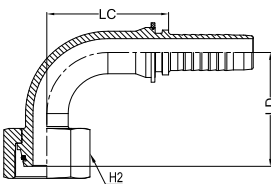
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	76.3	3.00	29.8	1.17		46
13056402-164200	-16	DN 25	1"	-42	30	M42 X 2	86.8	3.42	34.3	1.35		50
13056402-205200	-20	DN 32	1.1/4"	-52	38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

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

DIN 20066 / ISO 12151-2

HF2P-MS - M24 DKOS FS 90

13056902

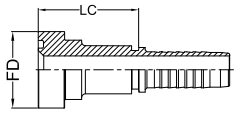


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
13056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	65.8	2.59	61.5	2.42		46
13056902-164200	-16	DN 25	1"	-42	30	M42 X 2	75.9	2.99	72.0	2.83		50
13056902-205200	-20	DN 32	1.1/4"	-52	38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

SUPERCAT FLANGE

HF2P-MS - SCAT 9K FL

13073000

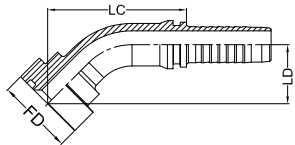


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073000-121200	-12	DN 19	3/4"	-12	3/4"		57.8	2.28			41.28	1.63
13073000-121600	-12	DN 19	3/4"	-16	1"		62.3	2.45			47.63	1.88
13073000-161600	-16	DN 25	1"	-16	1"		63.0	2.48			47.63	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

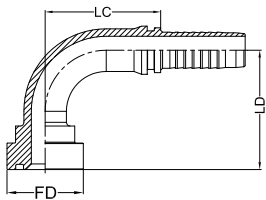


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073400-121200	-12	DN 19	3/4"	-12	3/4"		75.0	2.95	31.9	1.26	41.28	1.63
13073400-121600	-12	DN 19	3/4"	-16	1"		76.1	3.00	33.0	1.30	47.63	1.88
13073400-161600	-16	DN 25	1"	-16	1"		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

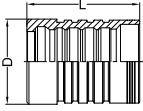


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
13073900-121200	-12	DN 19	3/4"	-12	3/4"		62.4	2.46	64.5	2.54	41.28	1.63
13073900-121600	-12	DN 19	3/4"	-16	1"		62.4	2.46	66.0	2.60	47.63	1.88
13073900-161600	-16	DN 25	1"	-16	1"		73.9	2.91	73.0	2.87	47.63	1.88
13073900-162000	-16	DN 25	1"	-20	1.1/4"		73.9	2.91	76.0	2.99	53.98	2.13
13073900-202000	-20	DN 32	1.1/4"	-20	1.1/4"		88.1	3.47	88.0	3.46	53.98	2.13
13073900-202400	-20	DN 32	1.1/4"	-24	1.1/2"		88.1	3.47	92.0	3.62	63.50	2.50

FERRULE - INTERLOCK

FE2P-IL - 4SH/R13/R15

24030420

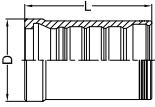


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030420-120000	4SH/R13/R15	-12	DN 19	3/4"	53.0	2.09	40.0	1.57
24030420-160000	4SH/R13/R15	-16	DN 25	1"	66.0	2.60	49.0	1.93

FERRULE - INTERLOCK

FE2P-IL - 4SH

24030430

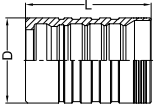


ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030430-200000	4SH	-20	DN 32	1.1/4"	88.0	3.46	57.0	2.24
24030430-240000	4SH	-24	DN 38	1.1/2"	102.2	4.02	64.3	2.53
24030430-320000	4SH	-32	DN 51	2"	108.0	4.25	83.5	3.29

FERRULE - INTERLOCK

FE2P-IL - R13/R15

24030600



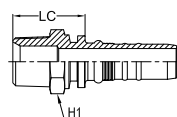
ITEM CODE	HOSE TYPE	HOSE ID			DIMENSIONS			
		DASH	DN	INCH	L MM	L INCH	D MM	D INCH
24030600-200000	R13/R15	-20	DN 32	1.1/4"	88.5	3.48	60.0	2.36
24030600-240000	R13/R15	-24	DN 38	1.1/2"	102.0	4.02	69.4	2.73
24030600-320000	R13/R15	-32	DN 51	2"	108.0	4.25	86.5	3.41

BSPT MALE

HF2P-IL - BSPT M

ISO 7

14004005



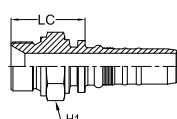
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14004005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	39.0	1.54			30	
14004005-161600	-16	DN 25	1"	-16	1"	1" X 11	49.9	1.96			38	
14004005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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

HF2P-IL - BSPP M

BS5200 / ISO 8434-9

14001005



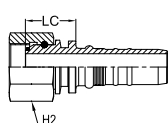
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14001005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	40.0	1.57			32	
14001005-161600	-16	DN 25	1"	-16	1"	1" X 11	46.4	1.83			41	
14001005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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

HF2P-IL - BSPP OR FS

BS5200 / ISO 12151-6

14002003



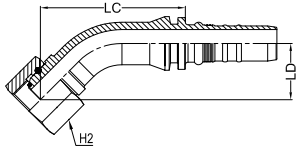
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002003-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	27.3	1.07				32
14002003-161600	-16	DN 25	1"	-16	1"	1" X 11	30.9	1.22				38
14002003-162000	-16	DN 25	1"	-20	1.1/4"	1.1/4" X 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
14002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	38.5	1.52				55
14002003-323200	-32	DN 51	2"	-32	2"	2" X 11	38.5	1.52				70

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

BS5200 / ISO 12151-6t

HF2P-IL - BSPP OR FS 45

14002403



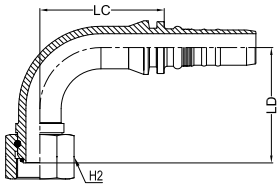
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002403-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	78.3	3.08	30.4	1.20		32
14002403-161600	-16	DN 25	1"	-16	1"	1" X 11	94.1	3.70	34.0	1.34		38
14002403-162000	-16	DN 25	1"	-20	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		55
14002403-323200	-32	DN 51	2"	-32	2"	2" X 11	147.0	5.79	54.7	2.15		70

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

BS5200 / ISO 12151-6

HF2P-IL - BSPP OR FS 90

14002903



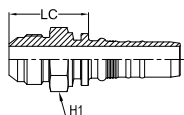
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14002903-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	67.2	2.65	62.3	2.45		32
14002903-161600	-16	DN 25	1"	-16	1"	1" X 11	83.5	3.29	71.5	2.81		38
14002903-162000	-16	DN 25	1"	-20	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		55
14002903-323200	-32	DN 51	2"	-32	2"	2" X 11	138.0	5.43	123.0	4.84		70

JIC 37° CONE MALE

HF2P-IL - JIC M

SAE J516 / ISO 12151-5

14011005



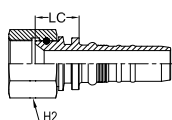
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011005-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	43.0	1.69			30	
14011005-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	46.0	1.81			36	
14011005-161600	-16	DN 25	1"	-16	1"	1.5/16" 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



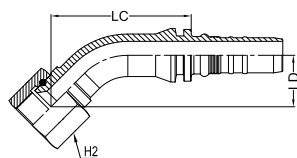
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011003-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	23.7	0.93				32
14011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	25.5	1.00				38
14011003-161600	-16	DN 25	1"	-16	1"	1.5/16" 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				55
14011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	34.1	1.34				55
14011003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	36.5	1.44				70

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

HF2P-IL - JIC FS 45

SAE J516 / ISO 12151-5

14011403



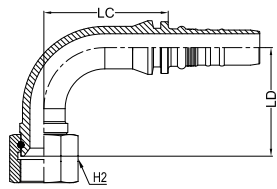
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011403-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	75.7	2.98	27.8	1.09		32
14011403-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	77.0	3.03	29.1	1.15		38
14011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	91.3	3.59	31.2	1.23		38
14011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	106.4	4.19	38.8	1.53		50
14011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	121.0	4.76	44.7	1.76		55
14011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	145.5	5.73	53.3	2.10		70

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-5

HF2P-IL - JIC FS 90

14011903



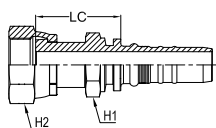
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14011903-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.2	2.65	58.7	2.31		32
14011903-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	67.2	2.65	60.5	2.38		38
14011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	83.5	3.29	67.5	2.66		38
14011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.5	3.29	72.1	2.84		50
14011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	96.9	3.81	84.1	3.31		50
14011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	96.9	3.81	88.4	3.48		55
14011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	111.4	4.39	98.4	3.87		55
14011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	138.0	5.43	121.0	4.76		70

ORFS FEMALE SWIVEL

HF2P-IL - ORFS FS

SAE J516 / ISO 12151-1

14031001



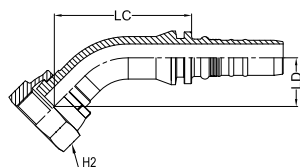
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	46.0	1.81			30	36
14031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	52.0	2.05			36	41
14031001-161000	-16	DN 25	1"	-10	5/8"	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°

HF2P-IL - ORFS FS 45

SAE J516 / ISO 12151-1

14031401



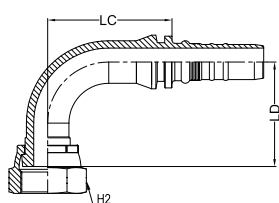
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	74.2	2.92	26.3	1.04		36
14031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	74.5	2.93	26.6	1.05		41
14031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	88.8	3.50	28.7	1.13		41
14031401-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	88.8	3.50	28.7	1.13		50
14031401-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	100.7	3.96	33.0	1.30		50
14031401-242400	-24	DN 38	1.1/2"	-24	1.1/2"	2" X 12	112.2	4.42	36.0	1.42		60

ORFS FEMALE SWIVEL - 90°

HF2P-IL - ORFS FS 90

SAE J516 / ISO 12151-1

14031901



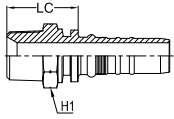
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	67.2	2.65	56.5	2.22		36
14031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	67.2	2.65	57.0	2.24		41
14031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	83.5	3.29	64.0	2.52		41
14031901-162000	-16	DN 25	1"	-20	1.1/4"	1.11/16" X 12	83.5	3.29	64.0	2.52		50
14031901-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	96.9	3.81	76.0	2.99		50

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF2P-IL - NPTF M

14023005



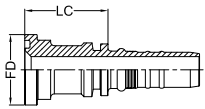
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14023005-121200	-12	DN 19	3/4"	-12	3/4"	3/4" X 14	38.5	1.52			30	
14023005-161600	-16	DN 25	1"	-16	1"	1" X 11.5	49.9	1.96			38	
14023005-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.1/4" 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



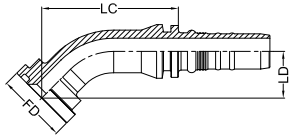
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041000-120800	-12	DN 19	3/4"	-08	1/2"		48.0	1.89			30.18	1.19
14041000-121200	-12	DN 19	3/4"	-12	3/4"		45.0	1.77			38.10	1.50
14041000-121600	-12	DN 19	3/4"	-16	1"		53.0	2.09			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



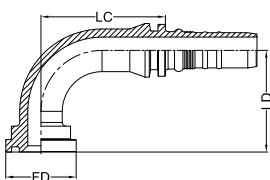
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041400-121200	-12	DN 19	3/4"	-12	3/4"		73.1	2.88	25.2	0.99	38.10	1.50
14041400-121600	-12	DN 19	3/4"	-16	1"		73.1	2.88	25.2	0.99	44.45	1.75
14041400-161600	-16	DN 25	1"	-16	1"		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



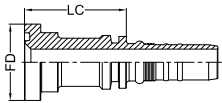
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14041900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	55.0	2.17	38.10	1.50
14041900-121600	-12	DN 19	3/4"	-16	1"		67.2	2.65	55.0	2.17	44.45	1.75
14041900-161600	-16	DN 25	1"	-16	1"		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



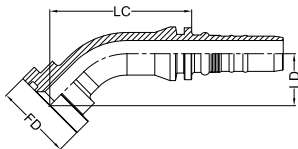
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14042000-121200	-12	DN 19	3/4"	-12	3/4"		55.0	2.17			41.28	1.63
14042000-121600	-12	DN 19	3/4"	-16	1"		58.0	2.28			47.63	1.88
14042000-161200	-16	DN 25	1"	-12	3/4"		56.4	2.22			41.28	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



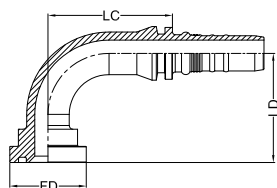
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14042400-121200	-12	DN 19	3/4"	-12	3/4"		76.7	3.02	28.1	1.11	41.28	1.63
14042400-121600	-12	DN 19	3/4"	-16	1"		78.1	3.07	30.2	1.19	47.63	1.88
14042400-161200	-16	DN 25	1"	-12	3/4"		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



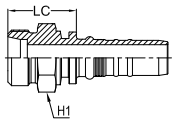
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE NCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14042900-120800	-12	DN 19	3/4"	-08	1/2"		56.2	2.21	47.0	1.85	31.75	1.25
14042900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	59.0	2.32	41.28	1.63
14042900-121600	-12	DN 19	3/4"	-16	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



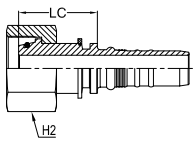
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
14054005-123000	-12	DN 19	3/4"	-30	22	M30 X 2	36.0	1.42			32	
14054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	40.0	1.57			36	
14054005-164200	-16	DN 25	1"	-42	30	M42 X 2	45.4	1.79			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

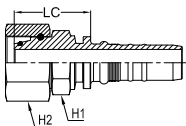
HF2P-IL - M24 DKOS FS

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			46	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

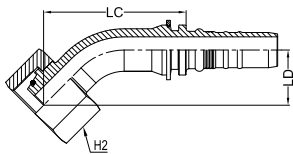


METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 45°

DIN 20066 / ISO 12151-2

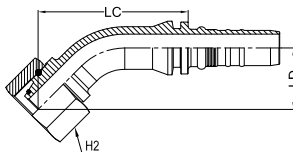
HF2P-IL - M24 DKOS FS 45

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

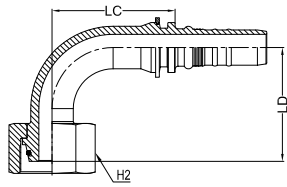


METRIC O-RING 24° CONE FEMALE SWIVEL HEAVY DUTY - DKOS - 90°

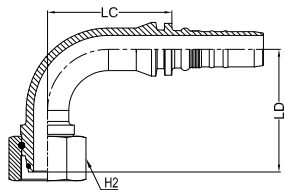
DIN 20066 / ISO 12151-2

HF2P-IL - M24 DKOS FS 90

14056902



14056903

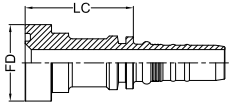


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	FD MM	FD MM
14056902-123600	-12	DN 19	3/4"	-36	25	M36 X 2	66.5	2.62	61.5	2.42		46
14056903-163600	-16	DN 25	1"	-36	25	M36 X 2	83.5	3.29	76.5	3.01		46
14056903-164200	-16	DN 25	1"	-42	30	M42 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

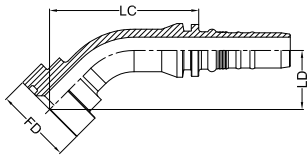


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073000-121200	-12	DN 19	3/4"	-12	3/4"		58.5	2.30			41.28	1.63
14073000-121600	-12	DN 19	3/4"	-16	1"		63.0	2.48			47.63	1.88
14073000-161600	-16	DN 25	1"	-16	1"		64.4	2.54			47.63	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

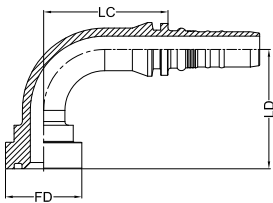


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073400-121200	-12	DN 19	3/4"	-12	3/4"		80.6	3.17	31.9	1.26	41.28	1.63
14073400-121600	-12	DN 19	3/4"	-16	1"		80.9	3.19	33.0	1.30	47.63	1.88
14073400-161600	-16	DN 25	1"	-16	1"		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



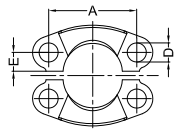
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
14073900-121200	-12	DN 19	3/4"	-12	3/4"		67.2	2.65	64.5	2.54	41.28	1.63
14073900-121600	-12	DN 19	3/4"	-16	1"		67.2	2.65	66.0	2.60	47.63	1.88
14073900-161600	-16	DN 25	1"	-16	1"		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



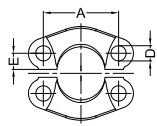
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11041020-080000				-08	1/2"		38.1	1.50	7.74	0.30	8.74	0.34
11041020-120000				-12	3/4"		47.6	1.87	10.13	0.40	10.31	0.41
11041020-160000				-16	1"		52.4	2.06	12.08	0.48	10.31	0.41
11041020-200000				-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



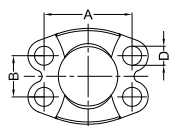
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	A MM	A INCH	E MM	E INCH	D MM	D INCH
11042020-080000				-08	1/2"		40.5	1.59	8.12	0.32	8.74	0.34
11042020-120000				-12	3/4"		50.8	2.00	10.91	0.43	10.31	0.41
11042020-160000				-16	1"		57.2	2.25	12.89	0.51	12.75	0.50
11042020-200000				-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



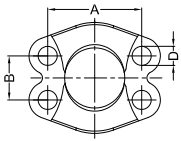
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	A MM	A INCH	B MM	B INCH	D MM	D INCH
11041010-120000				-12	3/4"		47.6	1.87	22.23	0.88	10.31	0.41
11041010-160000				-16	1"		52.4	2.06	26.19	1.03	10.31	0.41
11041010-200000				-20	1.1/4"		58.7	2.31	30.18	1.19	11.91	0.47
11041010-240000				-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



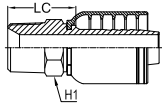
ITEM CODE	HOSE ID			FLANGE			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	A MM	A INCH	B MM	B INCH	D MM	D INCH
11042010-080000				-08	1/2"		40.5	1.59	18.24	0.72	8.74	0.34
11042010-120000				-12	3/4"		50.8	2.00	23.80	0.94	10.31	0.41
11042010-160000				-16	1"		57.2	2.25	27.76	1.09	12.75	0.50
11042010-200000				-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

BSPT MALE

HF1P-WB - BSPT M

ISO 7

35004005



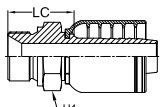
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35004005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.2	0.87			12	
35004005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.7	1.05			17	
35004005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	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

HF1P-WB - BSPP M

BS5200 / ISO 8434-9

35001005



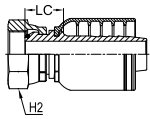
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35001005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	22.4	0.88			14	
35001005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.2	1.03			19	
35001005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	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

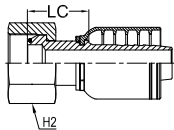
HF1P-WB - BSPP OR FS

BS5200 / ISO 12151-6

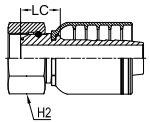
35002001



35002002



35002003



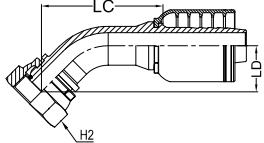
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35001001-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 28	15.2	0.60				14
35002001-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.2	0.68				19
35002002-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	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°

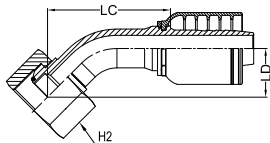
HF1P-WB - BSPP OR FS 45

BS5200 / ISO 12151-6

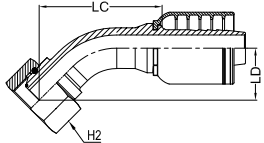
35002401



35002402



35002403



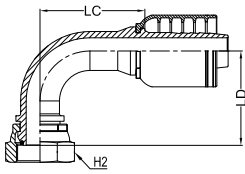
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35002401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	40.0	1.57	17.2	0.68		19
35002402-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	43.7	1.72	19.4	0.76		22
35002402-060600	-06	DN 10	3/8"	-06	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

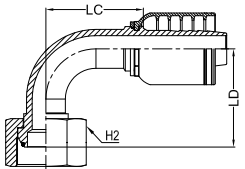
HF1P-WB - BSPP OR FS 90

35002901

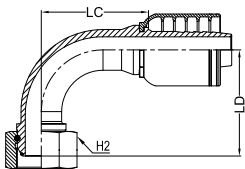


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35002901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.3	1.19	32.0	1.26		19
35002902-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	32.0	1.26	35.0	1.38		22
35002902-060600	-06	DN 10	3/8"	-06	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

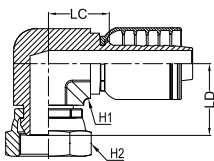


BSPP 60° CONE O-RING FEMALE SWIVEL - 90° - COMPACT

BS5200 / ISO 12151-6

HF1P-WB - BSPP FS 90 CP

350029C1

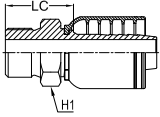


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350029C1-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	17.5	0.69	18.5	0.73	11	19
350029C1-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 19	20.0	0.79	24.0	0.94	16	22
350029C1-060600	-06	DN 10	3/8"	-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

35003005

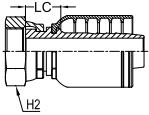


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35003005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	26.2	1.03			19	
35003005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.0	1.10			22	
35003005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	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

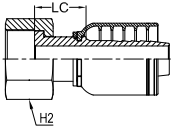
HF1P-WB - BSPP FSEAT FS

35003001



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

35003002

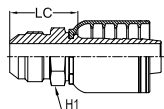


JIC 37° CONE MALE

HF1P-WB - JIC M

SAE J516 / ISO 12151-5

35011005



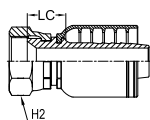
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	25.2	0.99			12	
35011005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	25.2	0.99			14	
35011005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" 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

HF1P-WB - JIC FS

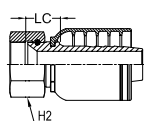
SAE J516 / ISO 12151-5

35011001



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

35011003

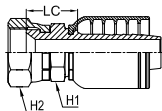


JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

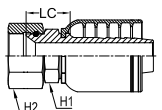
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS DH

350110H1



350110H3



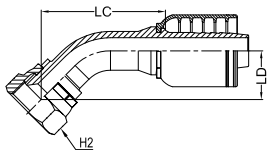
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350110H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.7	0.78			14	15
350110H1-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	20.2	0.80			14	17
350110H1-040600	-04	DN 06	1/4"	-06	3/8"	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°

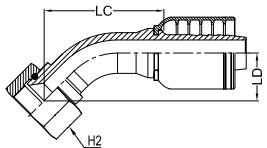
SAE J516 / ISO 12151-5

HF1P-WB - JIC FS 45

35011401



35011403



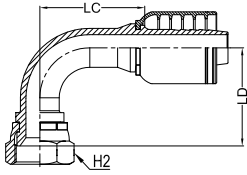
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011401-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	38.2	1.50	15.5	0.61		15
35011401-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	38.6	1.52	15.8	0.62		17
35011401-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	38.6	1.52	15.8	0.62		19
35011401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.9	1.57	16.2	0.64		19
35011401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.4	1.67	18.6	0.73		25
35011401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	46.9	1.85	20.9	0.82		25
35011401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	47.6	1.87	21.6	0.85		27
35011401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	49.3	1.94	23.4	0.92		32
35011401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	58.7	2.31	23.9	0.94		27
35011401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.1	2.64	26.3	1.04		32
35011401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	68.2	2.69	27.4	1.08		38
35011401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	80.1	3.15	31.2	1.23		38
35011403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	102.6	4.04	38.8	1.53		50
35011403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	105.6	4.16	41.8	1.65		55
35011403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	117.4	4.62	44.7	1.76		55
35011403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	139.4	5.49	53.3	2.10		70

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

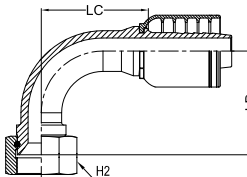
HF1P-WB - JIC FS 90

SAE J516 / ISO 12151-5

35011901



35011903



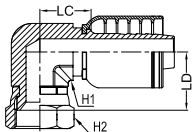
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35011901-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	30.3	1.19	29.5	1.16		15
35011901-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	30.3	1.19	30.0	1.18		17
35011901-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	30.3	1.19	30.0	1.18		19
35011901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.9	1.26	31.0	1.22		19
35011901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.9	1.26	34.5	1.36		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	40.5	1.59		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	53.0	2.09		32
35011901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	56.7	2.23	54.5	2.15		38
35011901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.4	2.85	67.5	2.66		38
35011903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.4	2.85	72.1	2.84		50
35011903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	93.1	3.67	84.1	3.31		50
35011903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	93.1	3.67	88.4	3.48		55
35011903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	107.9	4.25	98.4	3.87		55
35011903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	131.9	5.19	121.0	4.76		70

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

HF1P-WB - JIC FS 90 CP

SAE J516 / ISO 12151-5

350119C1



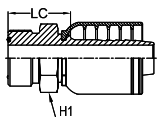
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350119C1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	17.5	0.69	16.0	0.63	11	15
350119C1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	20.0	0.79	21.5	0.85	16	19
350119C1-080800	-08	DN 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

HF1P-WB - ORFS M

SAE J516 / ISO 12151-1

35031005



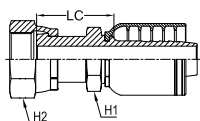
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031005-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	22.2	0.87			17	
35031005-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	24.2	0.95			19	
35031005-060600	-06	DN 10	3/8"	-06	3/8"	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

HF1P-WB - ORFS FS

SAE J516 / ISO 12151-1

35031001



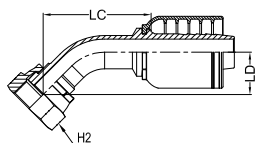
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031001-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	27.2	1.07			14	17
35031001-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	30.2	1.19			17	22
35031001-060600	-06	DN 10	3/8"	-06	3/8"	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°

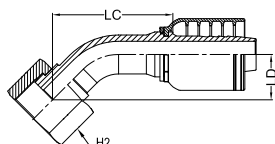
HF1P-WB - ORFS FS 45

SAE J516 / ISO 12151-1

35031401



35031402



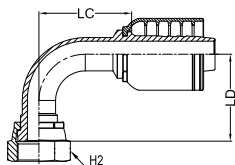
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031402-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	37.7	1.48	13.4	0.53		17
35031402-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	39.5	1.56	15.1	0.59		22
35031402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.5	1.59	15.5	0.61		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	18.4	0.72		24
35031402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	48.5	1.91	20.5	0.81		30
35031402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	58.8	2.31	22.9	0.90		30
35031402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.0	2.56	24.5	0.96		36
35031402-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	76.9	3.03	28.7	1.13		41

ORFS FEMALE SWIVEL - 90°

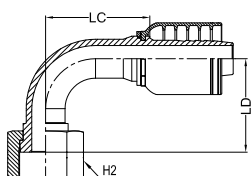
HF1P-WB - ORFS FS 90

SAE J516 / ISO 12151-1

35031901



35031902



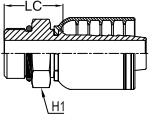
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35031902-040400	-04	DN 06	1/4"	-04	1/4"	9/16" X 18	32.0	1.26	26.5	1.04		17
35031902-040600	-04	DN 06	1/4"	-06	3/8"	11/16" X 16	32.0	1.26	29.0	1.14		22
35031902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.3	1.31	30.0	1.18		22
35031902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.3	1.31	31.0	1.22		24
35031901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.9	1.41	36.0	1.42		24
35031902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	37.9	1.49	39.0	1.54		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	50.5	1.99		36
35031902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.6	2.82	64.0	2.52		41

SAE O-RING BOSS MALE

HF1P-WB - SAE ORB M

SAE J516 / ISO 11926

35012005



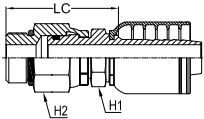
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35012005-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	20.2	0.80			14	
35012005-040500	-04	DN 06	1/4"	-05	5/16"	1/2" X 20	21.2	0.83			16	
35012005-040600	-04	DN 06	1/4"	-06	3/8"	9/16" 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

HF1P-WB - SAE ORB MS

SAE J516 / ISO 11926

35012008



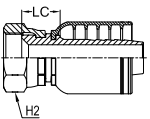
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35012008-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	45.8	1.80			12	19
35012008-040600	-04	DN 06	1/4"	-06	3/8"	9/16" X 18	50.7	2.00			17	22
35012008-060600	-06	DN 10	3/8"	-06	3/8"	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

HF1P-WB - SAE 45 SEAT FS

SAE J516 / ISO 11926

35013001



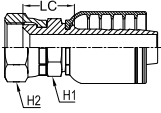
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35013001-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	14.7	0.58				15
35013001-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	16.5	0.65				22
35013001-080800	-08	DN 12	1/2"	-08	1/2"	3/4"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

350130H1



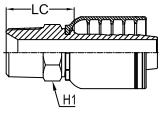
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350130H1-040400	-04	DN 06	1/4"	-04	1/4"	7/16" X 20	19.7	0.78			14	15
350130H1-060600	-06	DN 10	3/8"	-06	3/8"	5/8" X 18	22.5	0.89			17	22
350130H1-080800	-08	DN 12	1/2"	-08	1/2"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

35023005



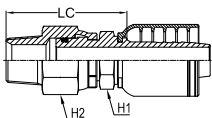
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35023005-040200	-04	DN 06	1/4"	-02	1/8"	1/8" X 27	22.2	0.87			14	
35023005-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	27.2	1.07			17	
35023005-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	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

35023008



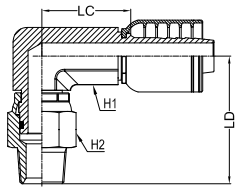
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35023008-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	51.8	2.04			12	19
35023008-040600	-04	DN 06	1/4"	-06	3/8"	3/8" X 18	56.7	2.23			17	22
35023008-060400	-06	DN 10	3/8"	-04	1/4"	1/4" 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

350239C8



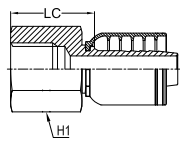
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
350239C8-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	38.0	1.50	52.6	2.07	14	19
350239C8-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	38.0	1.50	52.1	2.05	16	19
350239C8-060600	-06	DN 10	3/8"	-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

35023004



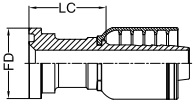
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35023004-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 18	26.7	1.05			19	
35023004-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	28.5	1.12			24	
35023004-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	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

HF1P-WB - SAE 61 3K FL

SAE J516 / ISO 12151-3

35041000



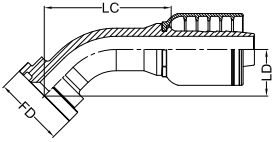
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041000-080800	-08	DN 12	1/2"	-08	1/2"		40.4	1.59			30.18	1.19
35041000-081200	-08	DN 12	1/2"	-12	3/4"		41.4	1.63			38.10	1.50
35041000-121200	-12	DN 19	3/4"	-12	3/4"		41.7	1.64			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°

HF1P-WB - SAE 61 3K FL 45

SAE J516 / ISO 12151-3

35041400



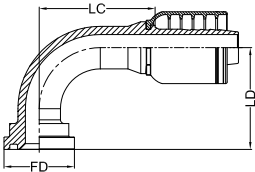
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041400-080800	-08	DN 12	1/2"	-08	1/2"		50.2	1.98	21.9	0.86	30.18	1.19
35041400-081200	-08	DN 12	1/2"	-12	3/4"		50.9	2.00	22.6	0.89	38.10	1.50
35041400-121200	-12	DN 19	3/4"	-12	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°

H1P-WB - SAE 61 3K FL 90

SAE J516 / ISO 12151-3

35041900



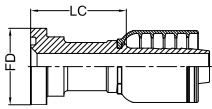
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35041900-080800	-08	DN 12	1/2"	-08	1/2"		42.4	1.67	45.0	1.77	30.18	1.19
35041900-081200	-08	DN 12	1/2"	-12	3/4"		42.4	1.67	46.0	1.81	38.10	1.50
35041900-121200	-12	DN 19	3/4"	-12	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

35042000



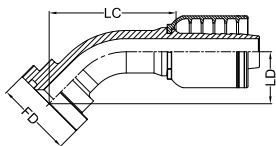
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042000-080800	-08	DN 12	1/2"	-08	1/2"		46.4	1.83			31.75	1.25
35042000-081200	-08	DN 12	1/2"	-12	3/4"		51.4	2.02			41.28	1.63
35042000-121200	-12	DN 19	3/4"	-12	3/4"		51.7	2.04			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

35042400



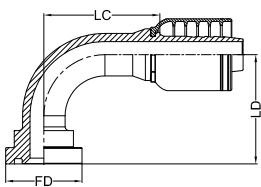
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042400-080800	-08	DN 12	1/2"	-08	1/2"		50.9	2.00	22.6	0.89	31.75	1.25
35042400-081200	-08	DN 12	1/2"	-12	3/4"		53.7	2.11	25.4	1.00	41.28	1.63
35042400-121200	-12	DN 19	3/4"	-12	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

35042900



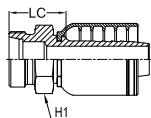
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35042900-080800	-08	DN 12	1/2"	-08	1/2"		42.4	1.67	46.0	1.81	31.75	1.25
35042900-081200	-08	DN 12	1/2"	-12	3/4"		42.4	1.67	50.0	1.97	41.28	1.63
35042900-121200	-12	DN 19	3/4"	-12	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

35053005



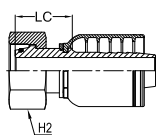
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35053005-041400	-04	DN 06	1/4"	-14	8	M14 X 1.5	21.2	0.83			14	
35053005-041600	-04	DN 06	1/4"	-16	10	M16 X 1.5	23.2	0.91			17	
35053005-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	23.5	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

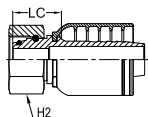
HF1P-WB - M24 DKOL FS

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
35055002-041400	-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
35055002-082200	-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				46
35055002-204500	-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

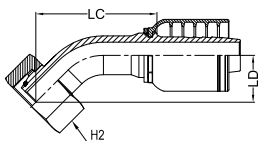


METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 45°

DIN 20066 / ISO 12151-2

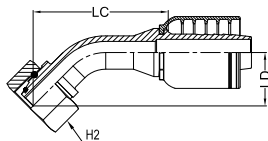
HF1P-WB - M24 DKOL FS 45

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
35055402-082200	-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		46
35055402-204500	-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

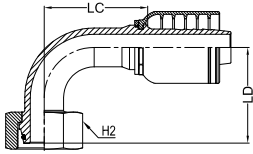
35055403



METRIC O-RING 24° CONE FEMALE SWIVEL LIGHT DUTY - DKOL - 90°
HF1P-WB - M24 DKOL FS 90

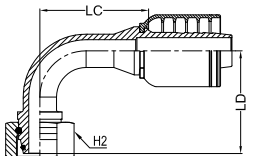
DIN 20066 / ISO 12151-2

35055902



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
35055902-082200	-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		46
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

35055903

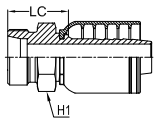


METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF1P-WB - M24 CES M

35054005



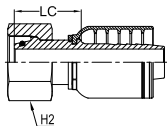
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35054005-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	25.2	0.99			19	
35054005-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	25.5	1.00			22	
35054005-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.5	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

35056002

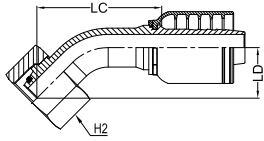


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056002-041600	-04	DN 06	1/4"	-16	8	M16 X 1.5	27.6	1.09				19
35056002-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	27.5	1.08				22
35056002-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	27.8	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				41
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°
 HF1P-WB - M24 DKOS FS 45

DIN 20066 / ISO 12151-2

35056402

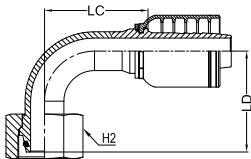


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056402-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	42.1	1.66	17.7	0.70		22
35056402-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	43.9	1.73	18.8	0.74		24
35056402-062200	-06	DN 10	3/8"	-22	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		41
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°
 HF1P-WB - M24 DKOS FS 90

DIN 20066 / ISO 12151-2

35056902



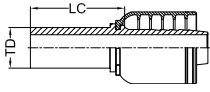
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35056902-041800	-04	DN 06	1/4"	-18	10	M18 X 1.5	32.0	1.26	32.7	1.29		22
35056902-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	33.3	1.31	34.7	1.37		24
35056902-062200	-06	DN 10	3/8"	-22	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		41
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

DIN 2353 / ISO 8434-1

HF1P-WB - MSP

35051000



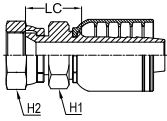
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE OD MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	TD MM
35051000-040600	-04	DN 06	1/4"	-06	06		28.2	1.11				06
35051000-040800	-04	DN 06	1/4"	-08	08		30.2	1.19				08
35051000-041000	-04	DN 06	1/4"	-10	10		32.2	1.27				10
35051000-041200	-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

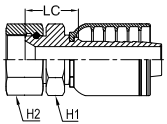
HF1P-WB - JIS F FS

35066001



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

35066003

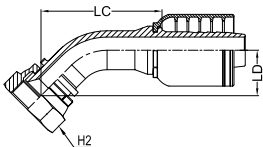


JIS TYPE F FEMALE SWIVEL - 45°

JIS B 8363

HF1P-WB - JIS F FS 45

35066401



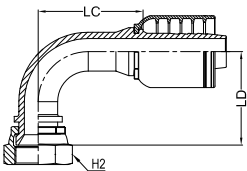
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35066401-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	37.9	1.49	15.1	0.59		19
35066401-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	40.3	1.59	16.5	0.65		22
35066401-080800	-08	DN 12	1/2"	-08	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

35066901

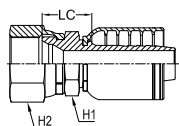


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35066901-040400	-04	DN 06	1/4"	-04	1/4"	1/4" X 19	30.3	1.19	29.0	1.14		19
35066901-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	31.9	1.26	31.5	1.24		22
35066901-080800	-08	DN 12	1/2"	-08	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

35071001

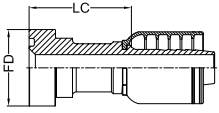


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH		THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35071001-041400	-04	DN 06	1/4"	-14		M14 X 1.5	20.7	0.81			17	19
35071001-041800	-04	DN 06	1/4"	-18		M18 X 1.5	22.0	0.87			19	22
35071001-061400	-06	DN 10	3/8"	-14		M14 X 1.5	21.0	0.83			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

35073000

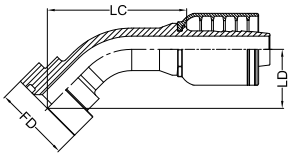


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073000-121200	-12	DN 19	3/4"	-12	3/4"		55.3	2.18			41.28	1.63
35073000-121600	-12	DN 19	3/4"	-16	1"		59.8	2.35			47.63	1.88
35073000-161600	-16	DN 25	1"	-16	1"		61.5	2.42			47.63	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

35073400

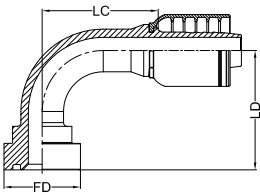


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073400-121200	-12	DN 19	3/4"	-12	3/4"		72.6	2.86	31.9	1.26	41.28	1.63
35073400-121600	-12	DN 19	3/4"	-16	1"		73.6	2.90	33.0	1.30	47.63	1.88
35073400-161600	-12	DN 25	1"	-16	1"		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

35073900

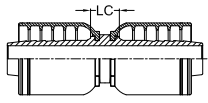


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35073900-121200	-12	DN 19	3/4"	-12	3/4"		59.9	2.36	64.5	2.54	41.28	1.63
35073900-121600	-12	DN 19	3/4"	-16	1"		59.9	2.36	66.0	2.60	47.63	1.88
35073900-161600	-16	DN 25	1"	-16	1"		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

35092000



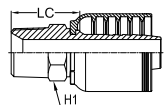
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	DN	INCH	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35092000-040400	-04	DN 06	1/4"	-04	DN 06	1/4"	12.4	0.49				
35092000-060600	-06	DN 10	3/8"	-06	DN 10	3/8"	13.0	0.51				
35092000-080800	-08	DN 12	1/2"	-08	DN 12	1/2"	13.0	0.51				
35092000-101000	-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

35504005



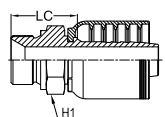
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35504005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.5	1.12			19	
35504005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.5	1.32			22	
35504005-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	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

35501005



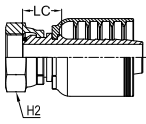
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35501005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	28.0	1.10			22	
35501005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	31.5	1.24			27	
35501005-080600	-08	DN 12	1/2"	-06	3/8"	3/8" X 19	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

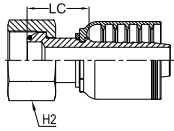
BS5200 / ISO 12151-6

HF1P-WS 4SP-R12 - BSPP OR FS

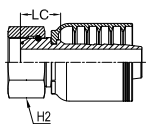
35502001



35502002



35502003



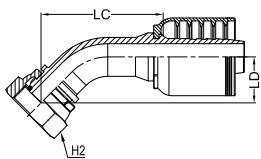
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502002-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	23.5	0.93				22
35502002-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	24.5	0.96				27
35502002-080800	-08	DN 12	1/2"	-08	1/2"	1/2" X 14	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	21.1	0.83				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	24.8	0.98				38
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°

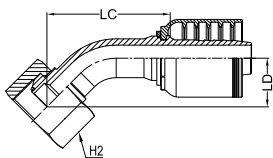
BS5200 / ISO 12151-6

HF1P-WS 4SP-R12 - BSPP OR FS 45

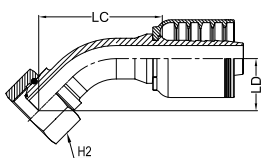
35502401



35502402



35502403



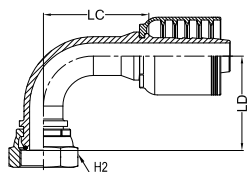
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502402-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	44.7	1.76	19.7	0.78		22
35502402-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	44.3	1.74	19.4	0.76		27
35502402-080800	-08	DN 12	1/2"	-08	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	67.5	2.66	26.3	1.04		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	80.8	3.18	31.5	1.24		38
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°

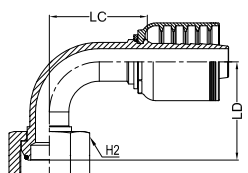
HF1P-WS 4SP-R12 - BSPP OR FS 90

BS5200 / ISO 12151-6

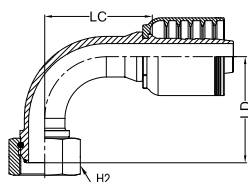
35502901



35502902



35502903



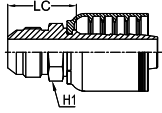
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35502902-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 19	33.2	1.31	36.0	1.42		22
35502902-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	33.2	1.31	35.5	1.40		27
35502902-080800	-08	DN 12	1/2"	-08	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	53.0	2.09		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	68.0	2.68		38
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

JIC 37° CONE MALE

HF1P-WS 4SP-R12 - JIC M

SAE J516 / ISO 12151-5

35511005



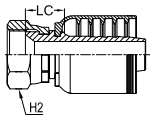
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	26.5	1.04			17	
35511005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	30.0	1.18			19	
35511005-080800	-08	DN 12	1/2"	-08	1/2"	3/4" 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

HF1P-WS 4SP-R12 - JIC FS

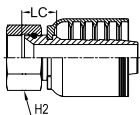
SAE J516 / ISO 12151-5

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	21.1	0.83				32
35511001-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	22.6	0.89				38
35511001-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	24.3	0.96				38
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

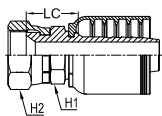


JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

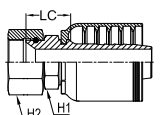
SAE J516 / ISO 12151-5

HF1P-WS 4SP-R12 - JIC FS DH

355110H1



355110H3



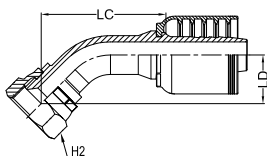
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
355110H1-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	21.5	0.85			17	19
355110H1-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	25.0	0.98			19	25
355110H1-080600	-08	DN 12	1/2"	-06	3/8"	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	28.1	1.11			27	32
355110H1-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	31.6	1.24			32	38
355110H1-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	31.8	1.25			32	32
355110H1-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	33.3	1.31			32	38
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°

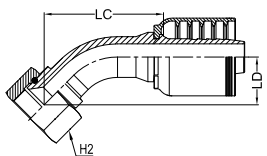
SAE J516 / ISO 12151-5

HF1P-WS 4SP-R12 - JIC FS 45

35511401



35511403



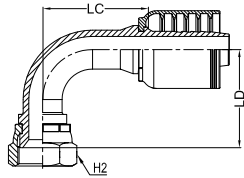
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511401-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	39.9	1.57	16.2	0.64		19
35511401-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	42.4	1.67	18.6	0.73		25
35511401-080800	-08	DN 12	1/2"	-08	1/2"	3/4" X 16	46.7	1.84	20.9	0.82		25
35511401-081000	-08	DN 12	1/2"	-10	5/8"	7/8" X 14	47.4	1.87	21.6	0.85		27
35511401-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	49.2	1.94	23.4	0.92		32
35511401-101000	-10	DN 16	5/8"	-10	5/8"	7/8" X 14	58.7	2.31	23.9	0.94		27
35511401-101200	-10	DN 16	5/8"	-12	3/4"	1.1/16" X 12	60.5	2.38	25.7	1.01		32
35511401-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	67.5	2.66	26.3	1.04		32
35511401-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	68.5	2.70	27.4	1.08		38
35511401-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	80.4	3.17	31.2	1.23		38
35511403-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	83.7	3.30	34.4	1.35		50
35511403-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	96.6	3.80	38.8	1.53		50
35511403-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	99.6	3.92	41.8	1.65		55
35511403-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	117.6	4.63	44.7	1.76		55
35511403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	136.7	5.38	53.3	2.10		70

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

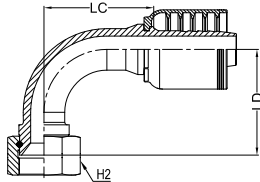
SAE J516 / ISO 12151-5

HF1P-WS 4SP-R12 - JIC FS 90

35511901



35511903



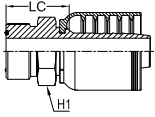
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35511901-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	31.9	1.26	31.0	1.22		19
35511901-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	31.9	1.26	34.5	1.36		25
35511901-080800	-08	DN 12	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	40.5	1.59		27
35511901-081200	-08	DN 12	1/2"	-12	3/4"	1.1/16" X 12	35.8	1.41	43.0	1.69		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	51.0	2.01		32
35511901-121200	-12	DN 19	3/4"	-12	3/4"	1.1/16" X 12	57.0	2.24	53.0	2.09		32
35511901-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	57.0	2.24	54.5	2.15		38
35511901-161200	-16	DN 25	1"	-12	3/4"	1.1/16" X 12	62.3	2.45	53.0	2.09		32
35511901-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	72.7	2.86	67.5	2.66		38
35511903-162000	-16	DN 25	1"	-20	1.1/4"	1.5/8" X 12	72.7	2.86	72.1	2.84		50
35511903-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.5/8" X 12	87.1	3.43	84.1	3.31		50
35511903-202400	-20	DN 32	1.1/4"	-24	1.1/2"	1.7/8" X 12	87.1	3.43	88.4	3.48		55
35511903-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	108.1	4.26	98.4	3.87		55
35511903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	129.1	5.08	121.0	4.76		70

ORFS MALE

HF1P-WS 4SP-R12 - ORFS M

SAE J516 / ISO 12151-1

35531005



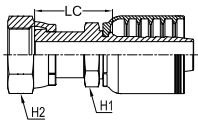
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531005-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	24.5	0.96			19	
35531005-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	26.3	1.04			22	
35531005-101000	-10	DN 16	5/8"	-10	5/8"	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

HF1P-WS 4SP-R12 - ORFS FS

SAE J516 / ISO 12151-1

35531001



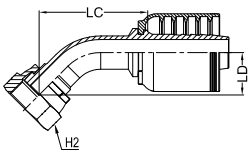
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531001-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	30.5	1.20			17	22
35531001-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	35.5	1.40			22	24
35531001-080800	-08	DN 12	1/2"	-08	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°

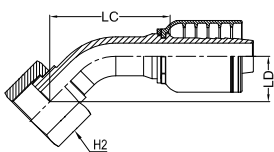
HF1P-WS 4SP-R12 - ORFS FS 45

SAE J516 / ISO 12151-1

35531401



35531402



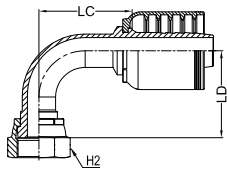
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531402-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	40.5	1.59	15.5	0.61		22
35531402-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	41.2	1.62	16.2	0.64		24
35531401-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	44.2	1.74	18.4	0.72		24
35531402-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	48.3	1.90	20.5	0.81		30
35531402-101000	-10	DN 16	5/8"	-10	5/8"	1" X 14	58.8	2.31	22.9	0.90		30
35531402-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	65.4	2.57	24.5	0.96		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	28.7	1.13		41
35531402-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	89.2	3.51	33.0	1.30		50

ORFS FEMALE SWIVEL - 90°

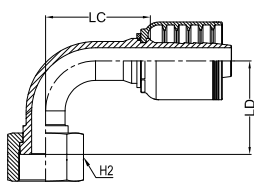
SAE J516 / ISO 12151-1

HF1P-WS 4SP-R12 - ORFS FS 90

35531901



35531902

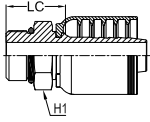


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35531902-060600	-06	DN 10	3/8"	-06	3/8"	11/16" X 16	33.3	1.31	30.0	1.18		22
35531902-060800	-06	DN 10	3/8"	-08	1/2"	13/16" X 16	33.3	1.31	31.0	1.22		24
35531901-080800	-08	DN 12	1/2"	-08	1/2"	13/16" X 16	35.8	1.41	36.0	1.42		24
35531902-081000	-08	DN 12	1/2"	-10	5/8"	1" X 14	37.8	1.49	39.0	1.54		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	50.5	1.99		36
35531902-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	71.9	2.83	64.0	2.52		41
35531902-202000	-20	DN 32	1.1/4"	-20	1.1/4"	1.11/16" X 12	85.4	3.36	76.0	2.99		50

SAE O-RING BOSS MALE
 HF1P-WS 4SP-R12 - SAE ORB M

SAE J516 / ISO 11926

35512005



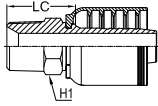
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35512005-060600	-06	DN 10	3/8"	-06	3/8"	9/16" X 18	23.5	0.93			19	
35512005-060800	-06	DN 10	3/8"	-08	1/2"	3/4" X 16	24.5	0.96			22	
35512005-061000	-06	DN 10	3/8"	-10	5/8"	7/8" 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

35523005



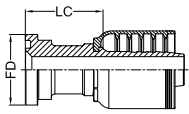
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35523005-060400	-06	DN 10	3/8"	-04	1/4"	1/4" X 18	27.5	1.08			17	
35523005-060600	-06	DN 10	3/8"	-06	3/8"	3/8" X 18	29.5	1.16			19	
35523005-060800	-06	DN 10	3/8"	-08	1/2"	1/2" X 14	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	

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SP-R12 - SAE 61 3K FL

35541000



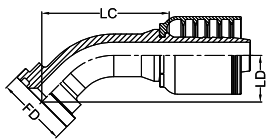
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541000-080800	-08	DN 12	1/2"	-08	1/2"		40.2	1.58			30.18	1.19
35541000-081200	-08	DN 12	1/2"	-12	3/4"		41.2	1.62			38.10	1.50
35541000-121200	-12	DN 19	3/4"	-12	3/4"		42.1	1.66			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°

SAE J516 / ISO 12151-3

HF1P-WS 4SP-R12 - SAE 61 3K FL 45

35541400



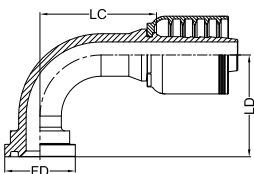
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541400-080800	-08	DN 12	1/2"	-08	1/2"		50.0	1.97	21.9	0.86	30.18	1.19
35541400-081200	-08	DN 12	1/2"	-12	3/4"		50.7	2.00	22.6	0.89	38.10	1.50
35541400-121200	-12	DN 19	3/4"	-12	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°

SAE J516 / ISO 12151-3

H1P-WS 4SP-R12 - SAE 61 3K FL 90

35541900



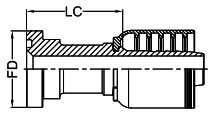
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35541900-080800	-08	DN 12	1/2"	-08	1/2"		42.2	1.66	45.0	1.77	30.18	1.19
35541900-081200	-08	DN 12	1/2"	-12	3/4"		42.2	1.66	46.0	1.81	38.10	1.50
35541900-121200	-12	DN 19	3/4"	-12	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

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SP-R12 - SAE 62 6K FL

35542000



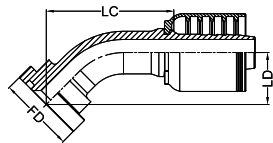
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542000-080800	-08	DN 12	1/2"	-08	1/2"		46.2	1.82			31.75	1.25
35542000-081200	-08	DN 12	1/2"	-12	3/4"		51.2	2.02			41.28	1.63
35542000-121200	-12	DN 19	3/4"	-12	3/4"		52.1	2.05			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°

SAE J516 / ISO 12151-3

HF1P-WS 4SP-R12 - SAE 62 6K FL 45

35542400



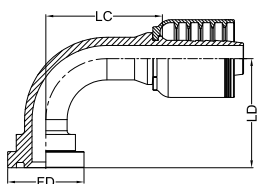
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542400-080800	-08	DN 12	1/2"	-08	1/2"		50.7	2.00	22.6	0.89	31.75	1.25
35542400-081200	-08	DN 12	1/2"	-12	3/4"		53.7	2.11	25.4	1.00	41.28	1.63
35542400-121200	-12	DN 19	3/4"	-12	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°

SAE J516 / ISO 12151-3

HF1P-WS 4SP-R12 - SAE 62 6K FL 90

35542900



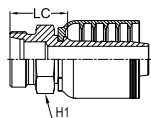
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35542900-080800	-08	DN 12	1/2"	-08	1/2"		42.2	1.66	46.0	1.81	31.75	1.25
35542900-081200	-08	DN 12	1/2"	-12	3/4"		42.2	1.66	50.0	1.97	41.28	1.63
35542900-121200	-12	DN 19	3/4"	-12	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

35553005



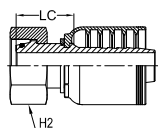
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35553005-061600	-06	DN 10	3/8"	-16	10	M16 X 1.5	23.5	0.93			17	
35553005-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	24.5	0.96			19	
35553005-062200	-06	DN 10	3/8"	-22	15	M22 X 1.5	25.5	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

35555002



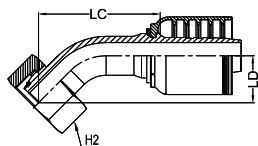
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555002-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	25.6	1.01				22
35555002-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	27.4	1.08				27
35555002-102600	-10	DN 16	5/8"	-26	18	M26 X 1.5	28.8	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

35555402



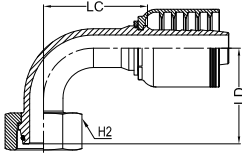
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555402-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	43.5	1.71	18.5	0.73		22
35555402-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	48.4	1.91	21.2	0.83		27
35555402-102600	-10	DN 16	5/8"	-26	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

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

DIN 20066 / ISO 12151-2

HF1P-WS 4SP-R12 - M24 DKOL FS 90

35555902



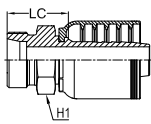
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35555902-061800	-06	DN 10	3/8"	-18	12	M18 X 1.5	33.2	1.31	34.3	1.35		22
35555902-082200	-08	DN 12	1/2"	-22	15	M22 X 1.5	37.2	1.46	39.9	1.57		27
35555902-102600	-10	DN 16	5/8"	-26	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

35554005



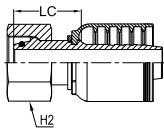
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35554005-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	25.5	1.00			22	
35554005-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.5	1.08			22	
35554005-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	28.3	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

35556002



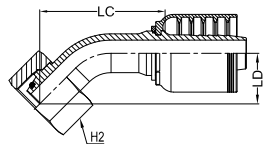
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556002-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	27.8	1.09				24
35556002-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	27.6	1.09				27
35556002-082400	-08	DN 12	1/2"	-24	16	M24 X 1.5	30.9	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				41
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

35556402



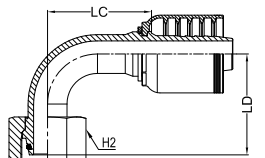
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556402-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	43.9	1.73	18.8	0.74		24
35556402-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	44.1	1.74	19.0	0.75		27
35556402-082400	-08	DN 12	1/2"	-24	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		41
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

35556902

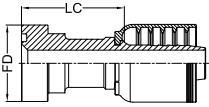


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
35556902-062000	-06	DN 10	3/8"	-20	12	M20 X 1.5	33.3	1.31	34.7	1.37		24
35556902-062200	-06	DN 10	3/8"	-22	14	M22 X 1.5	33.3	1.31	35.0	1.38		27
35556902-082400	-08	DN 12	1/2"	-24	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		41
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

35573000

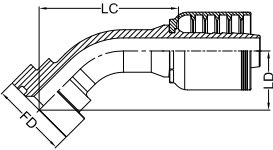


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573000-121200	-12	DN 19	3/4"	-12	3/4"		55.6	2.19			41.28	1.63
35573000-121600	-12	DN 19	3/4"	-16	1"		60.1	2.37			47.63	1.88
35573000-161600	-16	DN 25	1"	-16	1"		61.8	2.43			47.63	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

35573400

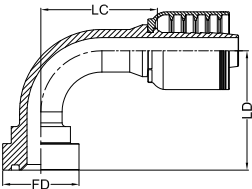


ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573400-121200	-12	DN 19	3/4"	-12	3/4"		72.8	2.87	31.9	1.26	41.28	1.63
35573400-121600	-12	DN 19	3/4"	-16	1"		73.9	2.91	33.0	1.30	47.63	1.88
35573400-161600	-16	DN 25	1"	-16	1"		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

35573900



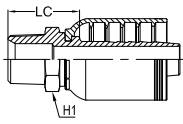
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	FLANGE INCH		LC MM	LC INCH	LD MM	LD INCH	FD MM	FD INCH
35573900-121200	-12	DN 19	3/4"	-12	3/4"		60.3	2.37	64.5	2.54	41.28	1.63
35573900-121600	-12	DN 19	3/4"	-16	1"		60.3	2.37	66.0	2.60	47.63	1.88
35573900-161600	-16	DN 25	1"	-16	1"		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

HF1P-WS 4SH-R13 - BSPT M

ISO 7

36004005 *1
36504005 *2
36604005 *3



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	
36504005-323200	-32	DN 51	2"	-32	2"	2" X 11	63.0	2.48			65	
36604005-323200	-32	DN 51	2"	-32	2"	2" X 11	63.0	2.48			65	

*1 - 4SH / R13

*2 - 4SH

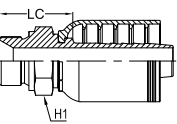
*3 - R13

BSPP 60° CONE SEAT MALE

HF1P-WS 4SH-R13 - BSPP M

BS5200 / ISO 8434-9

36001005 *1
36501005 *2
36601005 *3



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	
36501005-323200	-32	DN 51	2"	-32	2"	2" X 11	62.5	2.46			70	
36601005-323200	-32	DN 51	2"	-32	2"	2" X 11	62.5	2.46			70	

*1 - 4SH / R13

*2 - 4SH

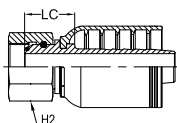
*3 - R13

BSPP 60° CONE O-RING FEMALE SWIVEL

HF1P-WS 4SH-R13 - BSPP OR FS

BS5200 / ISO 12151-6

36002003 *1
36502003 *2
36602003 *3



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				36
36002003-121600	-12	DN 19	3/4"	-16	1"	1" X 11	29.1	1.15				41
36002003-161600	-16	DN 25	1"	-16	1"	1" X 11	31.6	1.24				41
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				55
36002003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.1/2" X 11	39.9	1.57				55
36502003-323200	-32	DN 51	2"	-32	2"	2" X 11	41.4	1.63				70
36602003-323200	-32	DN 51	2"	-32	2"	2" X 11	41.4	1.63				70

*1 - 4SH / R13

*2 - 4SH

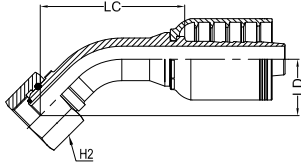
*3 - R13

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

BS5200 / ISO 12151-6

HF1P-WS 4SH-R13 - BSPP OR FS 45

36002403 *1
36502403 *2
36602403 *3



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		36
36002403-121600	-12	DN 19	3/4"	-16	1"	1" X 11	75.0	2.95	31.9	1.26		41
36002403-161600	-16	DN 25	1"	-16	1"	1" X 11	88.3	3.48	34.0	1.34		41
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		55
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		55
36502403-323200	-32	DN 51	2"	-32	2"	2" X 11	148.0	5.83	54.6	2.15		70
36602403-323200	-32	DN 51	2"	-32	2"	2" X 11	148.0	5.83	54.6	2.15		70

*1 - 4SH / R13

*2 - 4SH

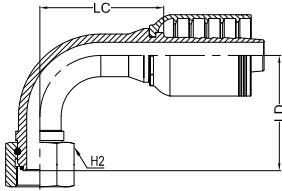
*3 - R13

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

BS5200 / ISO 12151-6

HF1P-WS 4SH-R13 - BSPP OR FS 90

36002903 *1
36502903 *2
36602903 *3



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		36
36002903-121600	-12	DN 19	3/4"	-16	1"	1" X 11	62.4	2.46	64.5	2.54		41
36002903-161600	-16	DN 25	1"	-16	1"	1" X 11	77.7	3.06	71.5	2.81		41
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		55
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		55
36502903-323200	-32	DN 51	2"	-32	2"	2" X 11	139.7	5.50	123.0	4.84		70
36602903-323200	-32	DN 51	2"	-32	2"	2" X 11	139.1	5.48	123.0	4.84		70

*1 - 4SH / R13

*2 - 4SH

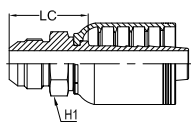
*3 - R13

JIC 37° CONE MALE

HF1P-WS 4SH-R13 - JIC M

SAE J516 / ISO 12151-5

36011005 *1
36511005 *2
36611005 *3



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	
36511005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	68.0	2.68			65	
36611005-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	68.0	2.68			65	

*1 - 4SH / R13

*2 - 4SH

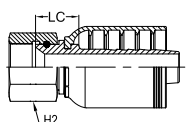
*3 - R13

JIC 37° CONE SEAT FEMALE SWIVEL

HF1P-WS 4SH-R13 - JIC FS

SAE J516 / ISO 12151-5

36011003 *1
36511003 *2
36611003 *3



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				36
36011003-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	24.6	0.97				41
36011003-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	27.3	1.07				41
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				55
36011003-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	34.7	1.37				55
36511003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	38.4	1.51				70
36611003-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	38.4	1.51				70

*1 - 4SH / R13

*2 - 4SH

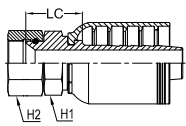
*3 - R13

JIC 37° CONE SEAT FEMALE SWIVEL DOUBLE HEXAGON

SAE J516 / ISO 12151-5

HF1P-WS 4SH-R13 - JIC FS DH

360110H3 *1
365110H3 *2
366110H3 *3



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	36
360110H3-121600	-12	DN 19	3/4"	-16	1"	1.5/16" X 12	33.8	1.33			32	41
360110H3-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	38.3	1.51			36	41
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	55
360110H3-242400	-24	DN 38	1.1/2"	-24	1.1/2"	1.7/8" X 12	48.1	1.89			50	55
365110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	55.0	2.17			65	70
366110H3-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	55.0	2.17			65	70

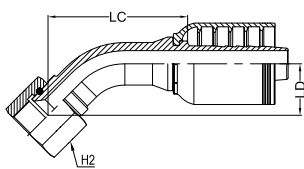
*1 - 4SH / R13
*2 - 4SH
*3 - R13

JIC 37° CONE SEAT FEMALE SWIVEL - 45°

SAE J516 / ISO 12151-5

HF1P-WS 4SH-R13 - JIC FS 45

36011403 *1
36511403 *2
36611403 *3



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		36
36011403-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	85.8	3.38	31.2	1.23		41
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		55
36511403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	146.7	5.78	53.3	2.10		70
36611403-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	146.7	5.78	53.3	2.10		70

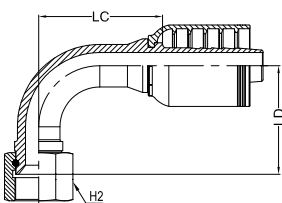
*1 - 4SH / R13
*2 - 4SH
*3 - R13

JIC 37° CONE SEAT FEMALE SWIVEL - 90°

SAE J516 / ISO 12151-5

HF1P-WS 4SH-R13 - JIC FS 90

36011903 *1
36511903 *2
36611903 *3



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		36
36011903-161600	-16	DN 25	1"	-16	1"	1.5/16" X 12	77.7	3.06	67.5	2.66		41
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		55
36511903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	139.1	5.48	121.0	4.76		70
36611903-323200	-32	DN 51	2"	-32	2"	2.1/2" X 12	139.1	5.48	121.0	4.76		70

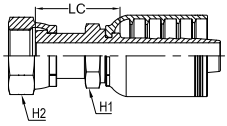
*1 - 4SH / R13
*2 - 4SH
*3 - R13

ORFS FEMALE SWIVEL

HF1P-WS 4SH-R13 - ORFS FS

SAE J516 / ISO 12151-1

36031001



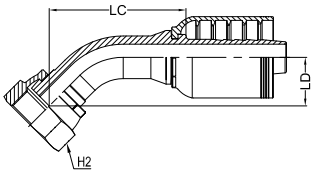
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031001-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	44.3	1.74			30	36
36031001-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	50.3	1.98			36	41
36031001-161600	-16	DN 25	1"	-16	1"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

ORFS FEMALE SWIVEL - 45°

HF1P-WS 4SH-R13 - ORFS FS 45

SAE J516 / ISO 12151-1

36031401



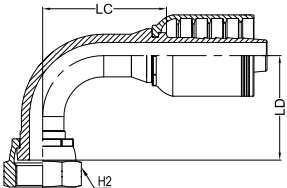
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031401-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	69.3	2.73	26.3	1.04		36
36031401-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	69.7	2.74	26.6	1.05		41
36031401-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	83.0	3.27	28.7	1.13		41

ORFS FEMALE SWIVEL - 90°

HF1P-WS 4SH-R13 - ORFS FS 90

SAE J516 / ISO 12151-1

36031901



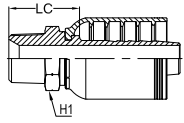
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE INCH	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36031901-121200	-12	DN 19	3/4"	-12	3/4"	1.3/16" X 12	62.4	2.46	56.5	2.22		36
36031901-121600	-12	DN 19	3/4"	-16	1"	1.7/16" X 12	62.4	2.46	57.0	2.24		41
36031901-161600	-16	DN 25	1"	-16	1"	1.7/16" X 12	77.7	3.06	64.0	2.52		41

NPTF 60° CONE SEAT MALE

SAE J516 / J514

HF1P-WS 4SH-R13 - NPTF M

36023005 *1
 36523005 *2
 36623005 *3



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	
36523005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	61.5	2.42			65	
36623005-323200	-32	DN 51	2"	-32	2"	2" X 11.5	61.5	2.42			65	

*1 - 4SH / R13

*2 - 4SH

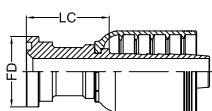
*3 - R13

SAE FLANGE CODE 61 3000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SH-R13 - SAE 61 3K FL

36041000 *1
36541000 *2
36641000 *3



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
36541000-323200	-32	DN 51	2"	-32	2"		76.0	2.99			71.42	2.81
36641000-323200	-32	DN 51	2"	-32	2"		76.0	2.99			71.42	2.81

*1 - 4SH / R13

*2 - 4SH

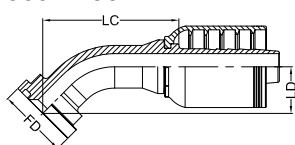
*3 - R13

SAE FLANGE CODE 61 3000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WS 4SH-R13 - SAE 61 3K FL 45

36041400 *1
36541400 *2
36641400 *3



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
36541400-323200	-32	DN 51	2"	-32	2"		136.9	5.39	45.4	1.79	71.42	2.81
36641400-323200	-32	DN 51	2"	-32	2"		136.9	5.39	45.4	1.79	71.42	2.81

*1 - 4SH / R13

*2 - 4SH

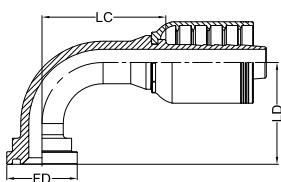
*3 - R13

SAE FLANGE CODE 61 3000 PSI - 90°

SAE J516 / ISO 12151-3

H1P-WS 4SH-R13 - SAE 61 3K FL 90

36041900 *1
36541900 *2
36641900 *3



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
36541900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	111.0	4.37	71.42	2.81
36641900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	111.0	4.37	71.42	2.81

*1 - 4SH / R13

*2 - 4SH

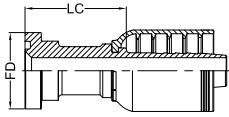
*3 - R13

SAE FLANGE CODE 62 6000 PSI

SAE J516 / ISO 12151-3

HF1P-WS 4SH-R13 - SAE 62 6K FL

36042000 *1
36542000 *2
36642000 *3



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
36542000-323200	-32	DN 51	2"	-32	2"		94.0	3.70			79.38	3.13
36642000-323200	-32	DN 51	2"	-32	2"		94.0	3.70			79.38	3.13

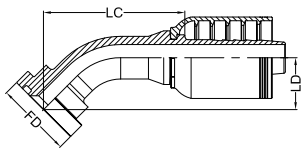
*1 - 4SH / R13
*2 - 4SH
*3 - R13

SAE FLANGE CODE 62 6000 PSI - 45°

SAE J516 / ISO 12151-3

HF1P-WS 4SH-R13 - SAE 62 6K FL 45

36042400 *1
36542400 *2
36642400 *3



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
36542400-323200	-32	DN 51	2"	-32	2"		150.3	5.92	58.8	2.31	79.38	3.13
36642400-323200	-32	DN 51	2"	-32	2"		150.3	5.92	58.8	2.31	79.38	3.13

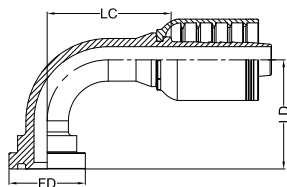
*1 - 4SH / R13
*2 - 4SH
*3 - R13

SAE FLANGE CODE 62 6000 PSI - 90°

HF1P-WS 4SH-R13 - SAE 62 6K FL 90

SAE J516 / ISO 12151-3

36042900 *¹
36542900 *²
36642900 *³



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
36542900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	130.0	5.12	79.38	3.13
36642900-323200	-32	DN 51	2"	-32	2"		138.4	5.45	130.0	5.12	79.38	3.13

*¹ - 4SH / R13

*² - 4SH

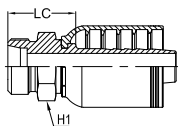
*³ - R13

METRIC 24° CONE SEAT MALE HEAVY DUTY - CES

DIN 20066 / ISO 12151-2

HF1P-WS 4SH-R13 - M24 CES M

36054005



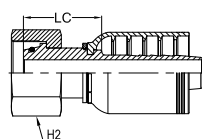
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36054005-123600	-12	DN 19	3/4"	-36	25	M36 X 2	39.3	1.55			36	
36054005-164200	-16	DN 25	1"	-42	30	M42 X 2	45.8	1.80			46	
36054005-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.5	2.03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

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

DIN 20066 / ISO 12151-2

HF1P-WS 4SH-R13 - M24 DKOS FS

36056002



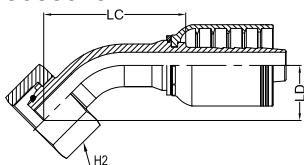
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36056002-123600	-12	DN 19	3/4"	-36	25	M36 X 2	41.8	1.65				41
36056002-164200	-16	DN 25	1"	-42	30	M42 X 2	46.5	1.83				50
36056002-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	51.5	2.03				60

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

DIN 20066 / ISO 12151-2

HF1P-WS 4SH-R13 - M24 DKOS FS 45

36056402



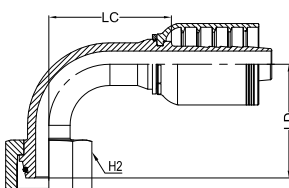
ITEM CODE	HOSE ID			TERMINATION			DIMENSIONS					
	DASH	DN	INCH	DASH	TUBE MM	THREAD	LC MM	LC INCH	LD MM	LD INCH	H1 MM	H2 MM
36056402-123600	-12	DN 19	3/4"	-36	25	M36 X 2	74.9	2.95	29.8	1.17		41
36056402-164200	-16	DN 25	1"	-42	30	M42 X 2	88.6	3.49	34.3	1.35		50
36056402-205200	-20	DN 32	1.1/4"	-52	38	M52 X 2	104.7	4.12	40.8	1.61		60

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

DIN 20066 / ISO 12151-2

HF1P-WS 4SH-R13 - M24 DKOS FS 90

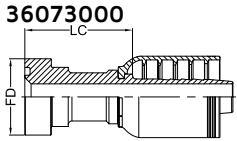
36056902



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		41
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

SUPERCAT FLANGE

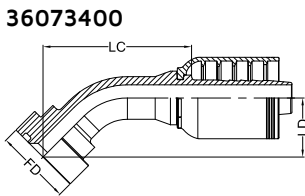
HF1P-WS 4SH-R13 - SCAT 9K FL



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

SUPERCAT FLANGE - 45°

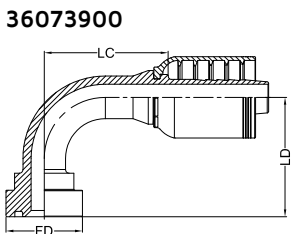
HF1P-WS 4SH-R13 - SCAT 9K FL 45



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

SUPERCAT FLANGE - 90°

HF1P-WS 4SH-R13 - SCAT 9K FL 90



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