

Flat Face



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Flat face couplings, ISO **16028** interchange, **35 MPa** series.

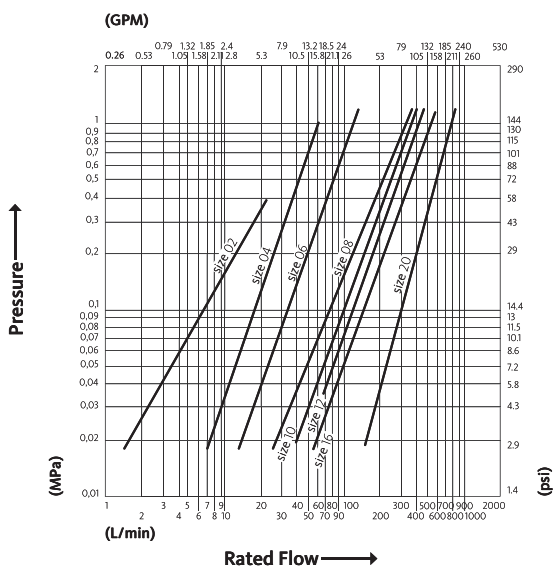
Flat Face couplings with real maximum working pressure of 35 MPa and Zinc-Nickel plating. Flat valve shut-off system contributes to prevent contamination and spillage. ISO 16028 interchange.



Applications



Pressure Drop



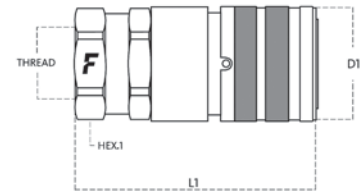
Test performed according to ISO 18869

Technical Specifications

dash	Size mm	inch	Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
							Male	Female	Male + Female
02*	3.2*	1/8"*	35	12	0.001	105	170	140	180
04	6.3	1/4"	35	25	0.006	110	170	140	180
06	10	3/8"	35	50	0.008	150	170	140	170
08	12.5	1/2"	35	110	0.01	210	140	140	170
10	16	5/8"	35	125	0.02	205	140	140	140
12	20	3/4"	35	160	0.02	215	140	140	140
16	25	1"	35	230	0.03	280	140	140	170

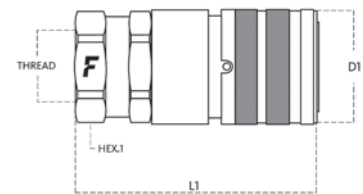
* FFH02 has surface treatment in MATE 500 (CRIII) and is not interchangeable according to ISO 16028.

Material	Steel	Valve Type	Flat
Seals	NBR; PUR	Connection	Push to Connect
Working temperatures	- 25 °C to + 100 °C	Disconnection	Sleeve Retraction
Surface treatment	MATE 1000 (Zn-Ni)	Connection Under Pressure	Not Allowed
Series Interchange	ISO 16028 *		



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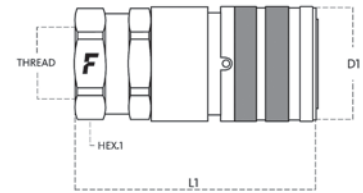
Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
3.2	1/8"	13/ SAE	ISO 8434-2	7/16"-20 UNF MALE JIC	FFH02-13/14S F	60.1	2.37	20	0.79	18	0.71
3.2	1/8"	F BSPP	ISO 1179-1	BSPP 1/8" FEMALE	FFH02 18GAS F	46.1	1.81	20	0.79	18	0.71
3.2	1/8"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	FFH02 14GAS F	51.3	2.02	20	0.79	18	0.71
6.3	1/4"	0/ SAE	ISO 11926-1	7/16"-20 UNF FEMALE ORB	FFH04 14SAE F	59	2.32	27	1.06	24	0.94
6.3	1/4"	F JPT	UNI EN 10226-2	RC 1/4 FEMALE (JPT)	FFH04 14JPT F	58.9	2.32	27	1.06	24	0.94
6.3	1/4"	07/ METRIC	ISO 8434-1-L	M16x1.5 MALE BULKHEAD SHORT 10L	FFH04-7/1615 F	82.4	3.24	27	1.06	24	0.94
6.3	1/4"	06/ METRIC	ISO 8434-1-S	M16x1.5 MALE BULKHEAD 8S	FFH04-6/1615 F	75.5	2.97	27	1.06	24	0.94
6.3	1/4"	05/ METRIC	ISO 8434-1-L	M16x1.5 MALE BULKHEAD 10L	FFH04-5/1615 F	92.4	3.64	27	1.06	24	0.94
6.3	1/4"	03/ METRIC	ISO 8434-1-S	M16x1.5 MALE 8S	FFH04-3/1615 F	69.4	2.73	27	1.06	24	0.94
6.3	1/4"	02/ METRIC	ISO 8434-1-L	M16x1.5 MALE 10L	FFH04-2/1615 F	68.4	2.69	27	1.06	24	0.94
6.3	1/4"	02/ METRIC	ISO 8434-1-L	M14x1.5 MALE 8L	FFH04-2/1415 F	67.4	2.65	27	1.06	24	0.94
6.3	1/4"	14/ SAE	ISO 8434-2	9/16"-18 UNF MALE BULKHEAD JIC	FFH04-14/38S F	89.9	3.54	27	1.06	24	0.94
6.3	1/4"	13/ SAE	ISO 8434-2	9/16"-18 UNF MALE JIC	FFH04-13/38S F	71.5	2.81	27	1.06	24	0.94
6.3	1/4"	12/ SAE	ISO 8434-3	11/16"-16 UN MALE BULKHEAD ORFS	FFH04-12/38S F	91.4	3.6	27	1.06	24	0.94
6.3	1/4"	0/ METRIC	ISO 6149-1	M16x1.5 FEMALE ORB	FFH04-0/1615 F	61.1	2.41	27	1.06	24	0.94
6.3	1/4"	0/ SAE	ISO 11926-1	9/16"-18 UNF FEMALE ORB	FFH04 38SAE F	59.6	2.35	27	1.06	24	0.94
6.3	1/4"	F NPTF	ANSI B1.20.3	NPTF 1/4" FEMALE	FFH04 14NPT F	58.9	2.32	27	1.06	24	0.94
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	FFH04 14GAS F	58.9	2.32	27	1.06	24	0.94
10	3/8"	F JPT	UNI EN 10226-2	RC 3/8 FEMALE (JPT)	FFH06 38JPT F	74.9	2.95	30	1.18	27	1.06
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS FB	75	2.95	30	1.18	27	1.06
10	3/8"	F JPT	UNI EN 10226-2	RC 1/2 FEMALE (JPT)	FFH06 12JPT F	78.4	3.09	30	1.18	27	1.06
10	3/8"	07/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD SHORT 15L	FFH06-7/2215 F	97.9	3.85	30	1.18	27	1.06
10	3/8"	07/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD SHORT 12L	FFH06-7/1815 F	95.9	3.78	30	1.18	27	1.06
10	3/8"	07/ METRIC	ISO 8434-1-L	M16x1.5 MALE BULKHEAD SHORT 10L	FFH06-7/1615 F	94.9	3.74	30	1.18	27	1.06
10	3/8"	06/ METRIC	ISO 8434-1-S	M20x1.5 MALE BULKHEAD 12S	FFH06-6/2015 F	107.9	4.25	30	1.18	27	1.06
10	3/8"	05/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD 15L	FFH06-5/2215 F	107.9	4.25	30	1.18	27	1.06
10	3/8"	05/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD 12L	FFH06-5/1815 F	105.9	4.17	30	1.18	27	1.06
10	3/8"	03/ METRIC	ISO 8434-1-S	M20x1.5 MALE 12S	FFH06-3/2015 F	80.9	3.19	30	1.18	27	1.06
10	3/8"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	FFH06-2/1815 F	80.9	3.19	30	1.18	27	1.06
10	3/8"	02/ METRIC	ISO 8434-1-L	M16x1.5 MALE 10L	FFH06-2/1615 F	80.9	3.19	30	1.18	27	1.06
10	3/8"	02/ METRIC	ISO 8434-1-L	M14x1.5 MALE 8L	FFH06-2/1415 F	79.9	3.15	30	1.18	27	1.06
10	3/8"	14/ SAE	ISO 8434-2	3/4"-16 UN MALE BULKHEAD JIC	FFH06-14/12S F	106.5	4.19	30	1.18	27	1.06
10	3/8"	12/ SAE	ISO 8434-3	13/16"-16 UN MALE BULKHEAD ORFS	FFH06-12/12S F	106	4.17	30	1.18	27	1.06
10	3/8"	01/ SAE	ISO 11926-3	9/16"-18 UNF MALE	FFH06-1/38S F	79.9	3.15	30	1.18	27	1.06
10	3/8"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	FFH06-1/12S F	80.7	3.18	30	1.18	27	1.06
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS FV*	97.9	3.85	30	1.18	27	1.06
10	3/8"	0/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	FFH06 12SAE F	76.9	3.03	30	1.18	27	1.06
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FFH06 12NPT F	79.4	3.13	30	1.18	27	1.06
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	FFH06 38NPT F	75	2.95	30	1.18	27	1.06
10	3/8"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	FFH06-2/2215 F	81.9	3.22	30	1.18	27	1.06
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS F	75	2.95	30	1.18	27	1.06
10	3/8"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH06 12GAS F	79.4	3.13	30	1.18	27	1.06
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M26x1.5 MALE 18L	FFH08-2/2615 F	83.3	3.28	38	1.5	34	1.34
12.5	1/2"	F JPT	UNI EN 10226-2	RC 1/2 FEMALE (JPT)	FFH08 12JPT F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	07/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD SHORT 15L	FFH08-7/2215 F	99.3	3.91	38	1.5	34	1.34
12.5	1/2"	05/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD 12L	FFH08-5/1815 F	107.3	4.22	38	1.5	34	1.34



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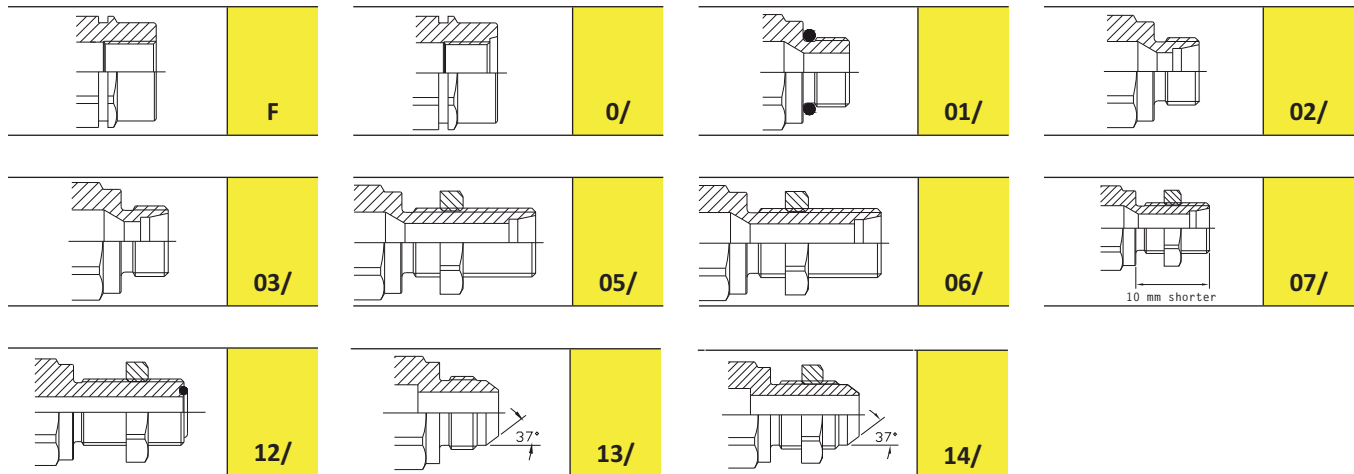
Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	FFH08-2/2215 F	83.3	3.28	38	1.5	34	1.34
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	FFH08-2/1815 F	82.3	3.24	38	1.5	34	1.34
12.5	1/2"	14/ SAE	ISO 8434-2	7/8"-14 UNF MALE BULKHEAD JIC	FFH08-14/58S F	111.4	4.39	38	1.5	34	1.34
12.5	1/2"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	FFH08-14/34S F	115.7	4.56	38	1.5	34	1.34
12.5	1/2"	14/ SAE	ISO 8434-2	3/4"-16 UN MALE BULKHEAD JIC	FFH08-14/12S F	107.9	4.25	38	1.5	34	1.34
12.5	1/2"	13/ SAE	ISO 8434-2	7/8"-14 UNF MALE JIC	FFH08-13/58S F	90.6	3.57	38	1.5	34	1.34
12.5	1/2"	12/ SAE	ISO 8434-3	1"-14 UNS MALE BULKHEAD ORFS	FFH08-12/58S F	111.8	4.4	38	1.5	34	1.34
12.5	1/2"	12/ SAE	ISO 8434-3	1-3/16"-12 UN MALE BULKHEAD ORFS	FFH08-12/34S F	112.8	4.44	38	1.5	36	1.42
12.5	1/2"	12/ SAE	ISO 8434-3	13/16"-16 UN MALE BULKHEAD ORFS	FFH08-12/12S F	107.8	4.24	38	1.5	34	1.34
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	FFH08-1/12S F	82.4	3.24	38	1.5	34	1.34
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH08 34NPT F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	0/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	FFH08 12SAE F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH08 12GAS FV*	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	0/ SAE	ISO 11926-1	7/8"-14 UNF FEMALE ORB	FFH08 58SAE F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH08 34SAE F	86.8	3.42	38	1.5	34	1.34
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FFH08 12NPT F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH08 34GAS F	84.8	3.34	38	1.5	34	1.34
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH08 12GAS F	81.3	3.2	38	1.5	34	1.34
16	5/8"	06/ METRIC	ISO 8434-1-S	M24x1.5 MALE BULKHEAD 16S	FFH10-6/2415 F	120.3	4.74	42	1.65	38	1.5
16	5/8"	05/ METRIC	ISO 8434-1-L	M26x1.5 MALE BULKHEAD 18L	FFH10-5/2615 F	120.3	4.74	42	1.65	38	1.5
16	5/8"	03/ METRIC	ISO 8434-1-S	M24x1.5 MALE 16S	FFH10-3/2415 F	94.3	3.71	42	1.65	38	1.5
16	5/8"	02/ METRIC	ISO 8434-1-L	M26x1.5 MALE 18L	FFH10-2/2615 F	92.3	3.63	42	1.65	38	1.5
16	5/8"	01/ SAE	ISO 11926-3	7/8"-14 UNF MALE	FFH10-1/58S F	93	3.66	42	1.65	38	1.5
16	5/8"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	FFH10-1/34S F	95.4	3.76	42	1.65	38	1.5
16	5/8"	F BSPP	ISO 1179-1	BSPP 5/8" FEMALE	FFH10 58GAS F	91.1	3.59	42	1.65	38	1.5
16	5/8"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH10 34SAE F	95.1	3.74	42	1.65	38	1.5
16	5/8"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH10 34NPT F	92.1	3.63	42	1.65	38	1.5
16	5/8"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH10 34GAS F	92.1	3.63	42	1.65	38	1.5
20	3/4"	F JPT	UNI EN 10226-2	RC 3/4 FEMALE (JPT)	FFH12 34JPT F	100.3	3.95	48	1.89	42	1.65
20	3/4"	06/ METRIC	ISO 8434-1-S	M36x2 MALE BULKHEAD 25S	FFH12-6/3620 F	138.9	5.47	48	1.89	42	1.65
20	3/4"	06/ METRIC	ISO 8434-1-S	M30x2 MALE BULKHEAD 20S	FFH12-6/3020 F	136.1	5.36	48	1.89	42	1.65
20	3/4"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	FFH12-14/34S F	136.3	5.37	48	1.89	42	1.65
20	3/4"	12/ SAE	ISO 8434-3	1-3/16"-12 UN MALE BULKHEAD ORFS	FFH12-12/34S F	133.4	5.25	48	1.89	42	1.65
20	3/4"	12/ SAE	ISO 8434-3	1-7/16"-12 UN MALE BULKHEAD ORFS	FFH12-12/1S F	133.9	5.27	48	1.89	42	1.65
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	FFH12-1/34S F	107.6	4.24	48	1.89	42	1.65
20	3/4"	01/ METRIC	ISO 6149-2	M27x2 MALE	FFH12-1/2720 F	113.1	4.45	48	1.89	42	1.65
20	3/4"	0/ METRIC	ISO 6149-1	M33x2 FEMALE ORB	FFH12-0/3320 F	102.6	4.04	48	1.89	42	1.65
20	3/4"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH12 34SAE F	104.3	4.11	48	1.89	42	1.65
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH12 34NPT F	100.3	3.95	48	1.89	42	1.65
20	3/4"	0/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FFH12 1SAE F	104.3	4.11	48	1.89	42	1.65
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FFH12 1NPT F	104.3	4.11	48	1.89	42	1.65
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FFH12 1GAS F	104.3	4.11	48	1.89	42	1.65
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH12 34GAS F	100.3	3.95	48	1.89	42	1.65
25	1"	06/ METRIC	ISO 8434-1-S	M36x2 MALE BULKHEAD 25S	FFH16-6/3620 F	141	5.55	55	2.17	50	1.97
25	1"	03/ METRIC	ISO 8434-1-S	M36x2 MALE 25S	FFH16-3/3620 F	112	4.41	55	2.17	50	1.97
25	1"	01/ METRIC	ISO 6149-2	M30x2 MALE	FFH16-1/3020 F	121.5	4.78	55	2.17	50	1.97

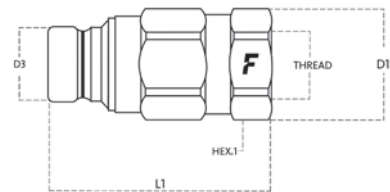
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Size		Thread details			FEMALE							
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		
						mm	inch	mm	inch	mm	inch	
25	1"	O/ METRIC	ISO 6149-1	M33x2 FEMALE ORB	FFH16-0/3320 F	103	4.06	55	2.17	50	1.97	
25	1"	O/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FFH16 1SAE F	100.5	3.96	55	2.17	50	1.97	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FFH16 1NPT F	100.5	3.96	55	2.17	50	1.97	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FFH16 114NPT F	100.5	3.96	55	2.17	50	1.97	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FFH16 112GAS F	105.3	4.15	55	2.17	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FFH16 114GAS F	103	4.06	55	2.17	50	1.97	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FFH16 1GAS F	100.5	3.96	55	2.17	50	1.97	
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FFH20 114GAS F	103.4	4.07	63	2.48	60	2.36	

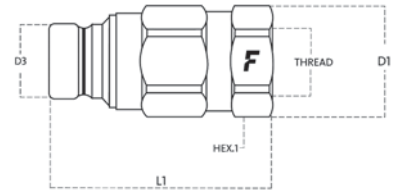
* Part number ending in V have seals in FKM and consequently a Working Temperature of -20°C + 200 °C.





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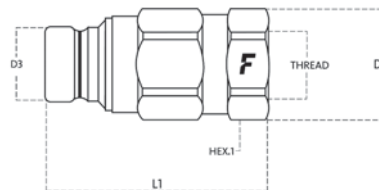
Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
3.2	1/8"	01/ BSPP	ISO 1179-3	1/4" BSPP MALE	FFH02-21/14G M	51	2.01	21	0.83	11.6	0.46	19	0.75	
3.2	1/8"	01/ SAE	ISO 11926-3	9/16"-18 UNF MALE	FFH02-1/38S M	54	2.13	19	0.75	11.6	0.46	17	0.67	
3.2	1/8"	F BSPP	ISO 1179-1	BSPP 1/8" FEMALE	FFH02 18GAS M	44	1.73	18	0.71	11.6	0.46	16	0.63	
6.3	1/4"	27/ SAE	ISO 8434-3	11/16" – 16 UN	FFH04-27/38S M	50	1.97	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	0/ SAE	ISO 11926-1	7/16"-20 UNF FEMALE ORB	FFH04 14SAE M	49	1.93	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	F JPT	UNI EN 10226-2	RC 1/4 FEMALE (JPT)	FFH04 14JPT M	49	1.93	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	07/ METRIC	ISO 8434-1-L	M14x1.5 MALE BULKHEAD SHORT 8L	FFH04-7/1415 M	63.5	2.5	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	06/ METRIC	ISO 8434-1-S	M16x1.5 MALE BULKHEAD 8S	FFH04-6/1615 M	75.5	2.97	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	05/ METRIC	ISO 8434-1-L	M16x1.5 MALE BULKHEAD 10L	FFH04-5/1615 M	74.5	2.93	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	03/ METRIC	ISO 8434-1-S	M16x1.5 MALE 8S	FFH04-3/1615 M	51.5	2.03	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	28/ SAE	ISO 8434-2	3/4"-16 UNF FEMALE JIC	FFH04-28/12S M	50	1.97	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	14/ SAE	ISO 8434-2	9/16"-18 UNF MALE BULKHEAD JIC	FFH04-14/38S M	72	2.83	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	13/ SAE	ISO 8434-2	9/16"-18 UNF MALE JIC	FFH04-13/38S M	53.6	2.11	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	12/ SAE	ISO 8434-3	11/16"-16 UN MALE BULKHEAD ORFS	FFH04-12/38S M	73.5	2.89	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	01/ BSPP	ISO 1179-3	1/4" BSPP MALE	FFH04-1/14G M	52	2.05	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	0/ SAE	ISO 11926-1	9/16"-18 UNF FEMALE ORB	FFH04 38SAE M	52	2.05	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	F NPTF	ANSI B1.20.3	NPTF 1/4" FEMALE	FFH04 14NPT M	49	1.93	26	1.02	16.1	0.63	24	0.94	
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	FFH04 14GAS M	49	1.93	26	1.02	16.1	0.63	24	0.94	
10	3/8"	07/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD SHORT 15L	FFH06-7/2215 MT	89.3	3.52	33	1.3	19.7	0.78	30	1.18	
10	3/8"	07/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD SHORT 12L	FFH06-7/1815 MT	87.3	3.44	33	1.3	19.7	0.78	30	1.18	
10	3/8"	27/ SAE	ISO 8434-3	11/16" – 16 UN	FFH06-27/38S M	69.3	2.73	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	FFH06 38NPT MT	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F JPT	UNI EN 10226-2	RC 3/8 FEMALE (JPT)	FFH06 38JPT M	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS MB	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F JPT	UNI EN 10226-2	RC 1/2 FEMALE (JPT)	FFH06 12JPT M	71.8	2.83	33	1.3	19.7	0.78	30	1.18	
10	3/8"	07/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD SHORT 15L	FFH06-7/2215 M	89.3	3.52	33	1.3	19.7	0.78	30	1.18	
10	3/8"	07/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD SHORT 12L	FFH06-7/1815 M	87.3	3.44	33	1.3	19.7	0.78	30	1.18	
10	3/8"	06/ METRIC	ISO 8434-1-S	M20x1.5 MALE BULKHEAD 12S	FFH06-6/2015 M	99.3	3.91	33	1.3	19.7	0.78	30	1.18	
10	3/8"	05/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD 12L	FFH06-5/1815 M	97.3	3.83	33	1.3	19.7	0.78	30	1.18	
10	3/8"	03/ METRIC	ISO 8434-1-S	M20x1.5 MALE 12S	FFH06-3/2015 M	73.3	2.89	33	1.3	19.7	0.78	30	1.18	
10	3/8"	01/ BSPP	ISO 1179-3	1/2" BSPP MALE	FFH06-21/12G M	75.3	2.96	33	1.3	19.7	0.78	30	1.18	
10	3/8"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	FFH06-2/2215 M	73.3	2.89	33	1.3	19.7	0.78	30	1.18	
10	3/8"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	FFH06-2/1815 M	72.3	2.85	33	1.3	19.7	0.78	30	1.18	
10	3/8"	02/ METRIC	ISO 8434-1-L	M16x1.5 MALE 10L	FFH06-2/1615 M	72.3	2.85	33	1.3	19.7	0.78	30	1.18	
10	3/8"	14/ SAE	ISO 8434-2	3/4"-16 UN MALE BULKHEAD JIC	FFH06-14/12S M	97.9	3.85	33	1.3	19.7	0.78	30	1.18	
10	3/8"	12/ SAE	ISO 8434-3	13/16"-16 UN MALE BULKHEAD ORFS	FFH06-12/12S M	98	3.86	33	1.3	19.7	0.78	30	1.18	
10	3/8"	11/ SAE	ISO 8434-3	11/16"-16 UN MALE ORFS	FFH06-11/38S M	72.3	2.85	33	1.3	19.7	0.78	30	1.18	
10	3/8"	11/ SAE	ISO 8434-3	13/16"-16 UN MALE ORFS	FFH06-11/12S M	74	2.91	33	1.3	19.7	0.78	30	1.18	
10	3/8"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	FFH06-1/12S M	72.4	2.85	33	1.3	19.7	0.78	30	1.18	
10	3/8"	01/ BSPP	ISO 1179-3	1/2" BSPP MALE	FFH06-1/12G M	75.8	2.98	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS MV*	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	0/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	FFH06 12SAE M	71.8	2.83	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FFH06 12NPT M	71.8	2.83	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	FFH06 38NPT M	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFH06 38GAS M	68.3	2.69	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH06 12GAS M	73.3	2.89	33	1.3	19.7	0.78	30	1.18	



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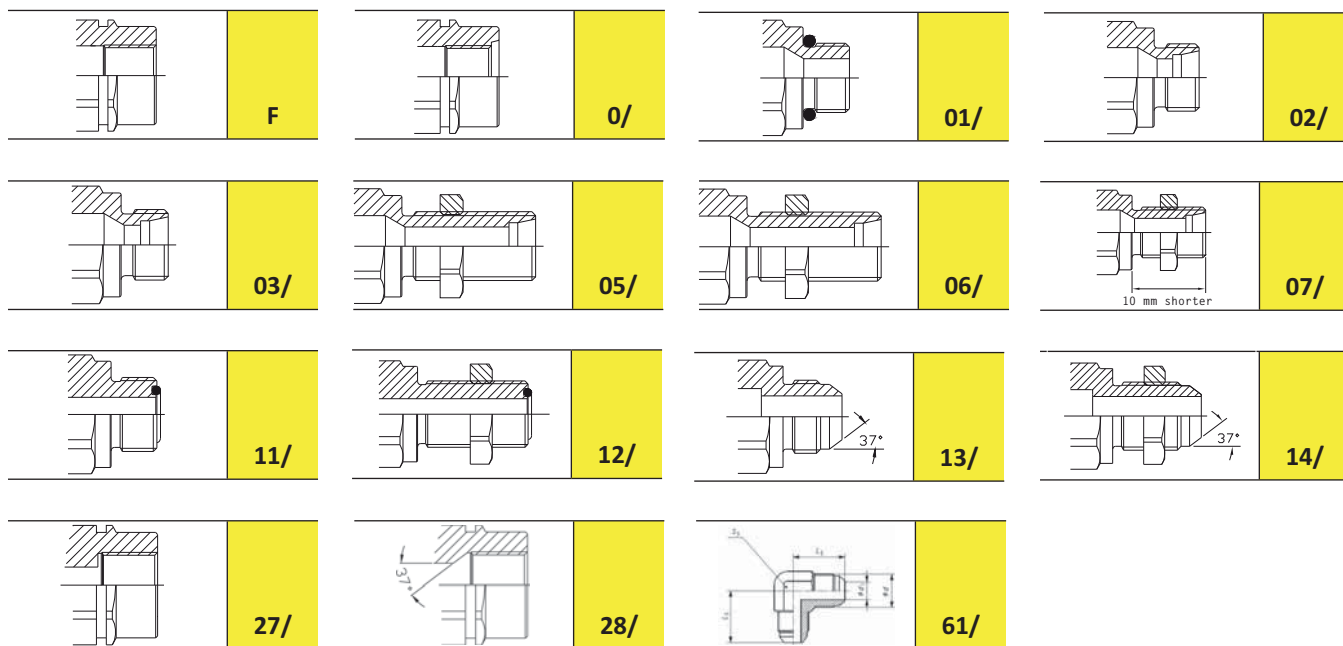
Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FFH08 12NPT MT	77	3.03	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F JPT	UNI EN 10226-2	RC 1/2 FEMALE (JPT)	FFH08 12JPT M	77	3.03	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	07/ METRIC	ISO 8434-1-L	M22x1.5 MALE BULKHEAD SHORT 15L	FFH08-7/2215 M	91.5	3.6	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	61/ SAE	ISO 8434-2	9/16"-18 UN 90° MALE	FFH08-61/38S M	89	3.5	38	1.5	24.5	0.96	34	1.34	
12.5	1/2"	61/ SAE	ISO 8434-2	1-1/16"-12 UN 90° MALE	FFH08-61/34S M	89	3.5	38	1.5	24.5	0.96	34	1.34	
12.5	1/2"	05/ METRIC	ISO 8434-1-L	M18x1.5 MALE BULKHEAD 12L	FFH08-5/1815 M	99.5	3.92	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	FFH08-2/2215 M	75.5	2.97	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	FFH08-2/1815 M	74.5	2.93	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	14/ SAE	ISO 8434-2	7/8"-14 UNF MALE BULKHEAD JIC	FFH08-14/58S M	103.6	4.08	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	FFH08-14/34S M	108.4	4.27	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	13/ SAE	ISO 8434-2	7/8"-14 UNF MALE JIC	FFH08-13/58S M	82.8	3.26	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	12/ SAE	ISO 8434-3	1"-14 UNS MALE BULKHEAD ORFS	FFH08-12/58S M	104	4.09	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	12/ SAE	ISO 8434-3	1-3/16"-12 UN MALE BULKHEAD ORFS	FFH08-12/34S M	105.5	4.15	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	12/ SAE	ISO 8434-3	13/16"-16 UN MALE BULKHEAD ORFS	FFH08-12/12S M	100	3.94	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	01/ METRIC	ISO 6149-2	M22x1.5 MALE	FFH08-1/2215 M	78.5	3.09	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	FFH08-1/12S M	74.6	2.94	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	01/ BSPP	ISO 1179-3	1/2" BSPP MALE	FFH08-1/12G M	78	3.07	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	0/ SAE	ISO 11926-1	7/8"-14 UNF FEMALE ORB	FFH08 58SAE M	76	2.99	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH08 34NPT M	77	3.03	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	0/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	FFH08 12SAE M	75	2.95	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH08 12GAS MV*	75	2.95	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH08 34SAE M	81	3.19	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FFH08 12NPT M	77	3.03	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH08 34GAS M	78	3.07	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFH08 12GAS M	75	2.95	37	1.46	24.5	0.96	34	1.34	
16	5/8"	06/ METRIC	ISO 8434-1-S	M24x1.5 MALE BULKHEAD 16S	FFH10-6/2415 M	115.7	4.56	45	1.77	27	1.06	41	1.61	
16	5/8"	05/ METRIC	ISO 8434-1-L	M26x1.5 MALE BULKHEAD 18L	FFH10-5/2615 M	115.7	4.56	45	1.77	27	1.06	41	1.61	
16	5/8"	03/ METRIC	ISO 8434-1-S	M24x1.5 MALE 16S	FFH10-3/2415 M	89.7	3.53	45	1.77	27	1.06	41	1.61	
16	5/8"	02/ METRIC	ISO 8434-1-L	M26x1.5 MALE 18L	FFH10-2/2615 M	87.7	3.45	45	1.77	27	1.06	41	1.61	
16	5/8"	01/ SAE	ISO 11926-3	7/8"-14 UNF MALE	FFH10-1/58S M	88.4	3.48	45	1.77	27	1.06	41	1.61	
16	5/8"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	FFH10-1/34S M	90.8	3.57	45	1.77	27	1.06	41	1.61	
16	5/8"	F BSPP	ISO 1179-1	BSPP 5/8" FEMALE	FFH10 58GAS M	91.1	3.59	45	1.77	27	1.06	41	1.61	
16	5/8"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH10 34SAE M	94.1	3.7	45	1.77	27	1.06	41	1.61	
16	5/8"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH10 34NPT M	91.1	3.59	45	1.77	27	1.06	41	1.61	
16	5/8"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH10 34GAS M	91.1	3.59	45	1.77	27	1.06	41	1.61	
20	3/4"	F JPT	UNI EN 10226-2	RC 3/4 FEMALE (JPT)	FFH12 34JPT M	101.5	4	46	1.81	29.95	1.18	42	1.65	
20	3/4"	06/ METRIC	ISO 8434-1-S	M30x2 MALE BULKHEAD 20S	FFH12-6/3020 M	129.9	5.11	46	1.81	29.95	1.18	42	1.65	
20	3/4"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	FFH12-14/34S M	130.3	5.13	46	1.81	29.95	1.18	42	1.65	
20	3/4"	13/ SAE	ISO 8434-2	1-1/16"-12 UN MALE JIC	FFH12-13/34S M	107.8	4.24	46	1.81	29.95	1.18	42	1.65	
20	3/4"	12/ SAE	ISO 8434-3	1-3/16"-12 UN MALE BULKHEAD ORFS	FFH12-12/34S M	127.4	5.02	46	1.81	29.95	1.18	42	1.65	
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	FFH12-1/34S M	101	3.98	46	1.81	29.95	1.18	42	1.65	
20	3/4"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FFH12 34SAE M	101.6	4	46	1.81	29.95	1.18	42	1.65	
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFH12 34NPT M	101.6	4	46	1.81	29.95	1.18	42	1.65	
20	3/4"	0/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FFH12 1SAE M	101.6	4	46	1.81	29.95	1.18	42	1.65	
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FFH12 1NPT M	101.5	4	46	1.81	29.95	1.18	42	1.65	

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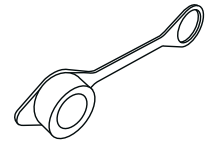
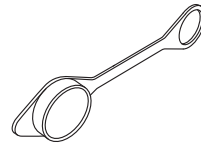
Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FFH12 1GAS M	101.6	4	46	1.81	29.95	1.18	42	1.65	
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFH12 34GAS M	101.6	4	46	1.81	29.95	1.18	42	1.65	
25	1"	06/ METRIC	ISO 8434-1-5	M36x2 MALE BULKHEAD 25S	FFH16-6/3620 M	140	5.51	59	2.32	36	1.42	55	2.17	
25	1"	0/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FFH16 1SAE M	106.5	4.19	59	2.32	36	1.42	55	2.17	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FFH16 1NPT M	107.5	4.23	59	2.32	36	1.42	55	2.17	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FFH16 114NPT M	106.5	4.19	59	2.32	36	1.42	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FFH16 114GAS M	109	4.29	59	2.32	36	1.42	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FFH16 112GAS M	110	4.33	59	2.32	36	1.42	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FFH16 1GAS M	106.5	4.19	59	2.32	36	1.42	55	2.17	
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FFH20 114GAS M	109	4.29	59	2.32	44	1.73	55	2.17	

* Part number ending in V have seals in FKM and consequently a Working Temperature of -20°C + 200 °C.



Flat Face

FFH Accessories and Spares



PVC dust protections

pag 169



Aluminium dust protections

pag 171



Acetal Resin dust protections

pag 173



Seals Kits

pag 173

FSH



Flat face couplings, ISO **16028** interchange, **35 MPa** series, sectors latching.

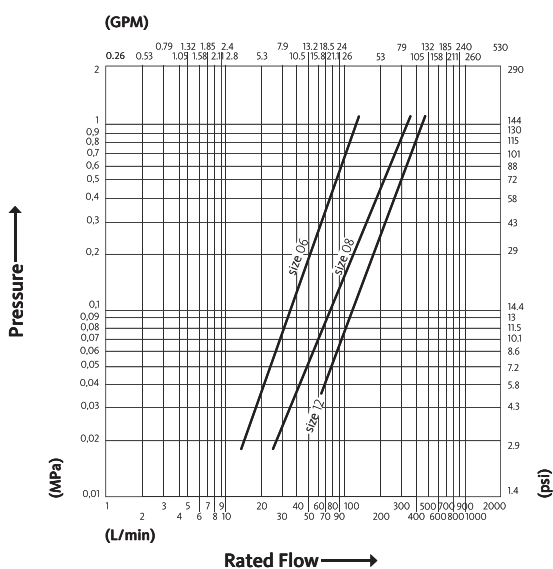
Flat face couplings with real maximum working pressure of 35 MPa and Zinc-Nickel plating. The sector latching system enables to effectively tackle the Brinelling effect, provoked by high frequency impulse pressures. ISO 16028 interchange.



Applications



Pressure Drop



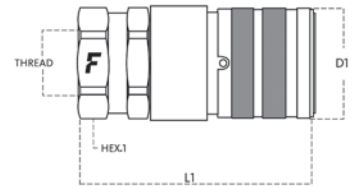
Test performed according to ISO 18869

Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
06	10	3/8"	35	50	0.008	150	140	140	170
08	12.5	1/2"	35	110	0.01	210	140	140	170
12	20	3/4"	35	160	0.02	215	140	140	140
16	25	1"	35	230	0.03	280	140	140	170

Material	Steel
Seals	NBR; PUR
Working temperatures	- 25 °C to + 100 °C
Surface treatment	MATE 1000 (ZnNi)
Series Interchange	ISO 16028

Valve Type	Flat
Connection	Push to Connect
Disconnection	Sleeve Retraction
Connection Under Pressure	Not Allowed



FSH

Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FSH06 38GAS F	75	2.95	30	1.18	27	1.06
10	3/8"	O2/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	FSH06-2/1815 F	81	3.19	30	1.18	27	1.06
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FSH08 12GAS F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	O/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FSH08 34SAE F	86.8	3.42	38	1.5	34	1.34
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FSH12 34GAS F	100	3.94	48	1.89	42	1.65
20	3/4"	O/ SAE	ISO 11926-1	1 - 1/16" - 12 UN FEMALE ORB	FSH12 34SAE F	104	4.09	48	1.89	42	1.65
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FSH16 1GAS F	100.5	3.96	55	2.17	50	1.97
25	1"	O/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FSH16 1SAE F	100.5	3.96	55	2.17	50	1.97

FSH Accessories and Spares



PVC dust protections

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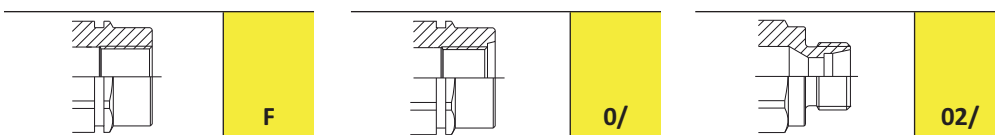
Aluminium dust protections

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Acetal Resin dust protections

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3FFH



Flat face couplings, ISO **16028**, connection under pressure.

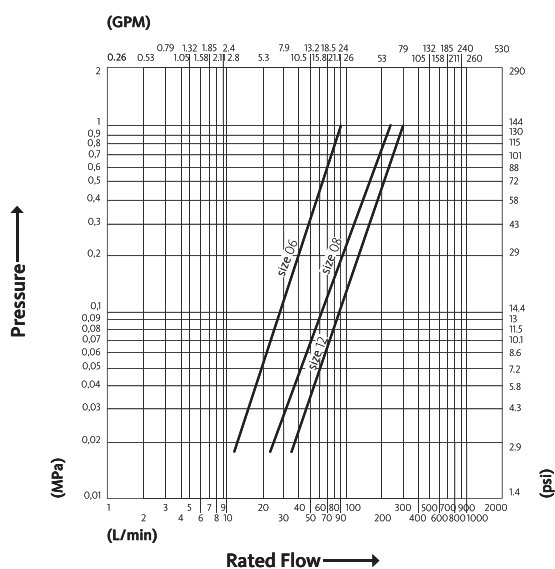
Flat face couplings, connectable under residual pressure. Real 35 MPa max working pressure. ISO 16028 interchange. Zinc-Nickel plating. It is possible to couple either a 3FFH female half under pressure with a FFH male half, or a 3FFH male half under pressure with a FFH female half.



Applications



Pressure Drop



Test performed according to ISO 18869

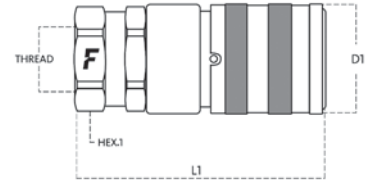
Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
06	10	3/8"	35	35	0.008	190	140	140	140
08	12.5	1/2"	35	65	0.01	200	140	140	140
10	16	5/8"	35	97	0.02	210	140	140	140
12	20	3/4"	35	115	0.02	220	140	140	140

Material	Steel
Seals	NBR; PUR
Working temperatures	- 25 °C to + 100 °C
Surface treatment	MATE 1000 (ZnNi)
Series Interchange	ISO 16028

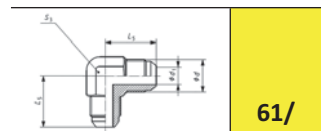
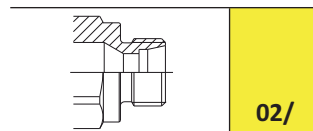
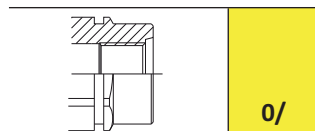
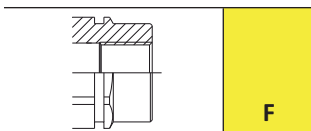
Valve Type	Flat
Connection	Push to Connect
Disconnection	Sleeve Retraction
Connection Under Pressure	Allowed



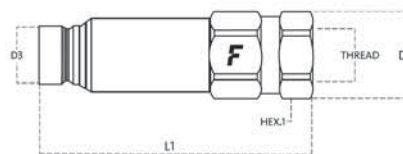


3FFH

Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	3FFH06 38GAS F	75	2.95	30	1.18	27	1.06
10	3/8"	O2/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	3FFH06-2/2215F	81.9	3.22	30	1.18	27	1.06
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	3FFH08 12GAS F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	3FFH08 12NPT F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	O/ SAE	ISO 11926-1	7/8"-14 UNF FEMALE ORB	3FFH08 58SAE F	81.3	3.2	38	1.5	34	1.34
12.5	1/2"	O/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	3FFH08 34SAE FA	86.8	3.42	38	1.5	34	1.34
12.5	1/2"	61/ SAE	ISO 8434-2	9/16"-18 UN 90° MALE	3FFH08-61/38SFS	100.8	3.97	38	1.5	34	1.34
12.5	1/2"	61/ SAE	ISO 8434-2	1-1/16"-12 UN 90° MALE	3FFH08-61/34SFS	100.8	3.97	38	1.5	34	1.34
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	3FFH12 34GAS F	100	3.94	48	1.89	42	1.65

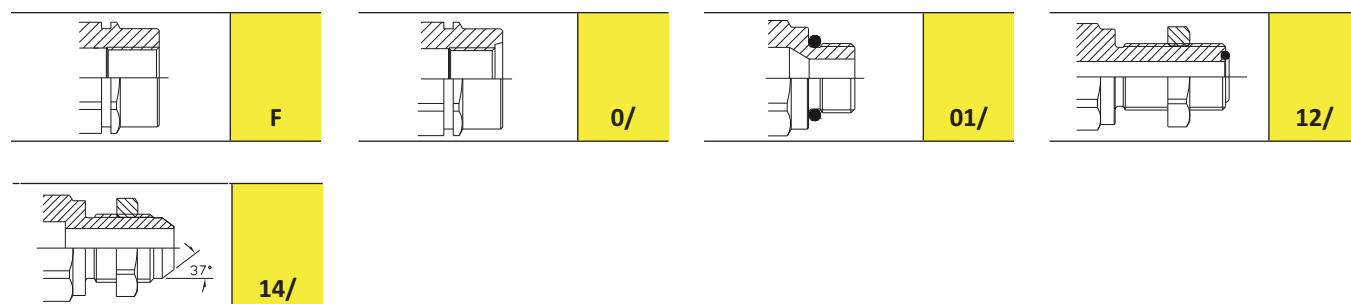


3FFH

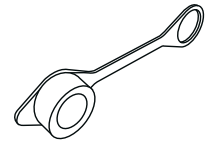
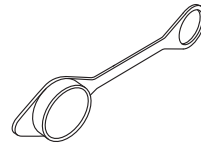


Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	3FFH06 38NPT M	96.8	3.81	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	3FFH06 38GAS M	96.8	3.81	30	1.18	19.7	0.78	30	1.18	
10	3/8"	O/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	3FFH06 12SAE M	100.3	3.95	33	1.3	19.7	0.78	30	1.18	
10	3/8"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	3FFH06 12GAS M	101.8	4.01	33	1.3	19.7	0.78	30	1.18	
12.5	1/2"	14/ SAE	ISO 8434-2	7/8"-14 UNF MALE BULKHEAD JIC	3FFH08-14/58S M	144.3	5.68	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	3FFH08-14/34SMB	149.1	5.87	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	14/ SAE	ISO 8434-2	1-1/16"-12 UN MALE BULKHEAD JIC	3FFH08-14/34S M	149.1	5.87	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	14/ SAE	ISO 8434-2	3/4"-16 UN MALE BULKHEAD JIC	3FFH08-14/12S M	140.8	5.54	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	12/ SAE	ISO 8434-3	1"-14 UNS MALE BULKHEAD ORFS	3FFH08-12/58S M	144.7	5.7	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	12/ SAE	ISO 8434-3	1-3/16"-12 UN MALE BULKHEAD ORFS	3FFH08-12/34S M	146.2	5.76	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	O/ SAE	ISO 11926-1	7/8"-14 UNF FEMALE ORB	3FFH08 58SAE M	116.7	4.59	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	O/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	3FFH08 34SAE M	121.7	4.79	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	3FFH08 34GAS M	118.7	4.67	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	O/ SAE	ISO 11926-1	3/4"-16 UNF FEMALE ORB	3FFH08 12SAE M	115.7	4.56	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	3FFH08 12NPT M	117.7	4.63	37	1.46	24.5	0.96	34	1.34	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	3FFH08 12GAS M	115.7	4.56	37	1.46	24.5	0.96	34	1.34	
16	5/8"	O/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	3FFH10 34SAE M	126.8	4.99	45	1.77	27	1.06	41	1.61	
16	5/8"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	3FFH10 34NPT M	123.8	4.87	45	1.77	27	1.06	41	1.61	
20	3/4"	O1/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	3FFH12-1/34S M	128	5.04	46	1.81	29.95	1.18	42	1.65	
20	3/4"	O/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	3FFH12 34SAE M	128.4	5.06	46	1.81	29.95	1.18	42	1.65	
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	3FFH12 34GAS M	128.4	5.06	46	1.81	29.95	1.18	42	1.65	
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	3FFH12 1GAS M	128.4	5.06	46	1.81	29.95	1.18	42	1.65	

Flat Face



3FFH Accessories and Spares



PVC dust protections

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Aluminium dust protections

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Acetal Resin dust protections

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2FSI - FFI

Sectors latching couplings. Size **1-1/2", 2", 3"**.

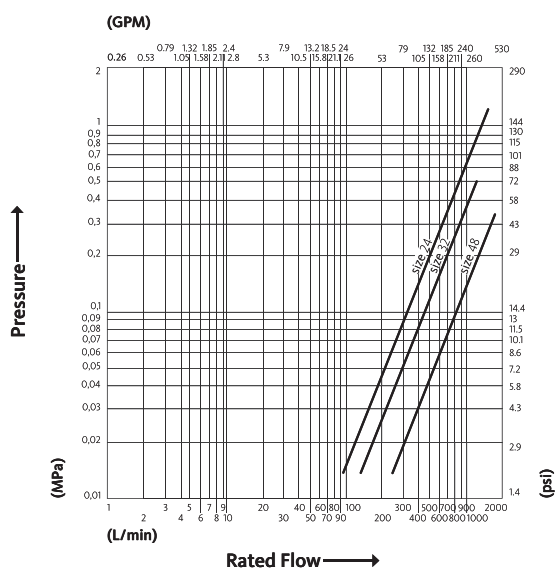
Flat face couplings equipped with sector latching system. High resistance to the Brinelling effect, provoked by high frequency impulse pressures. Available on 1", 1-1/2", 2" and 3" sizes. MARKET interchange.



Applications



Pressure Drop



Test performed according to ISO 18869

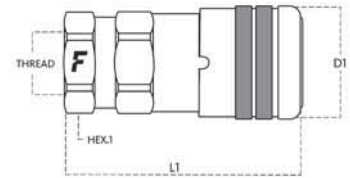
Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
24	37.5	1-1/2"	25	500	0.05	345	120	100	125
32	50	2"	25	1000	0.1	430	80	50	100
48	75	3"	12	1150	0.1	520	80	50	80

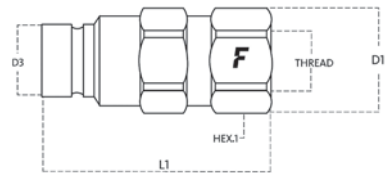
Material	Steel
Seals	NBR; PUR
Working temperatures	- 25 °C to + 100 °C
Surface treatment	MATE 500 (CrIII)
Series Interchange	MARKET

Valve Type	Flat
Connection	Push to Connect
Disconnection	Sleeve Retraction
Connection Under Pressure	Not Allowed

2FSI - FFI



Size		Thread details			FEMALE							
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		
						mm	inch	mm	inch	mm	inch	
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	2FSI112 GAS F	133.4	5.25	80	3.15	70	2.76	
37.5	1-1/2"	F NPTF	ANSI B1.20.3	NPTF 1-1/2" FEMALE	2FSI112 NPT F	133.4	5.25	80	3.15	70	2.76	
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	2FSI 2 GAS F	158.1	6.22	100	3.94	80	3.15	
75	3"	F BSPP	ISO 1179-1	BSPP 3" FEMALE	2FSI 3 GAS F	211.5	8.33	159	6.26	115	4.53	



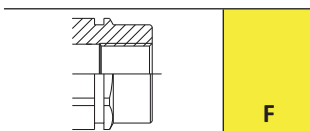
Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
37.5	1-1/2"	F NPTF	ANSI B1.20.3	NPTF 1-1/2" FEMALE	FFI112 NPT M	104.2	4.1	70	2.76	57	2.24	65	2.56	
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FFI112 GAS M	104.2	4.1	70	2.76	57	2.24	65	2.56	
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	FFI 2 GAS M	142	5.59	90	3.54	73	2.87	80	3.15	
75	3"	F BSPP	ISO 1179-1	BSPP 3" FEMALE	FFI 3 GAS M	182.3	7.18	159	6.26	125	4.92	115	4.53	

2FSI - FFI Accessories and Spares



Aluminium dust protections

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2FFI brass

Flat face couplings, ISO **16028**, brass.

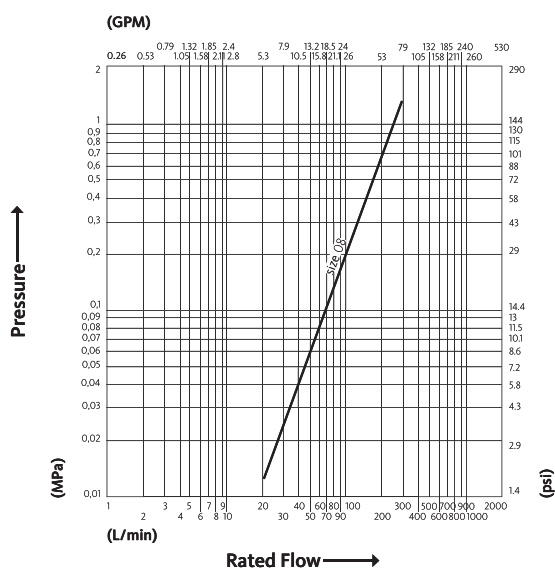
Flat face couplings, with brass components and seals in Viton. Suitable for industrial applications. ISO 16028 interchange.



Applications



Pressure Drop



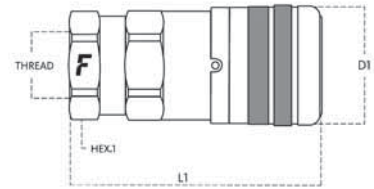
Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
08	12.5	1/2"	12	100	0.01	220	50	50	50

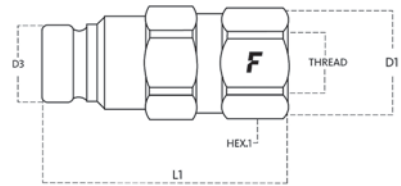
Material	Brass
Seals	VITON
Working temperatures	- 20 °C to + 200 °C
Surface treatment	
Series Interchange	ISO 16028

Valve Type	Flat
Connection	Push to Connect
Disconnection	Sleeve Retraction
Connection Under Pressure	Not Allowed

2FFI brass

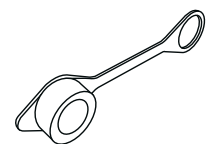
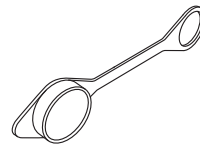


Size		Thread details			FEMALE							
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		
						mm	inch	mm	inch	mm	inch	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	2FFI12-34NPTF5V	86.4	3.4	38	1.5	34	1.34	



Size		Thread details			MALE								
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1	
						mm	inch	mm	inch	mm	inch	mm	inch
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFI12-34NPTM5V	81.5	3.21	38	1.5	24.5	0.96	34	1.34

2FFI brass Accessories and Spares



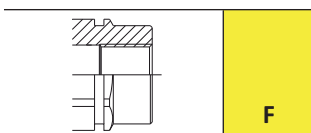
PVC dust protections

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Aluminium dust protections

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2FFI stainless steel

Flat face couplings, ISO **16028**, stainless steel.

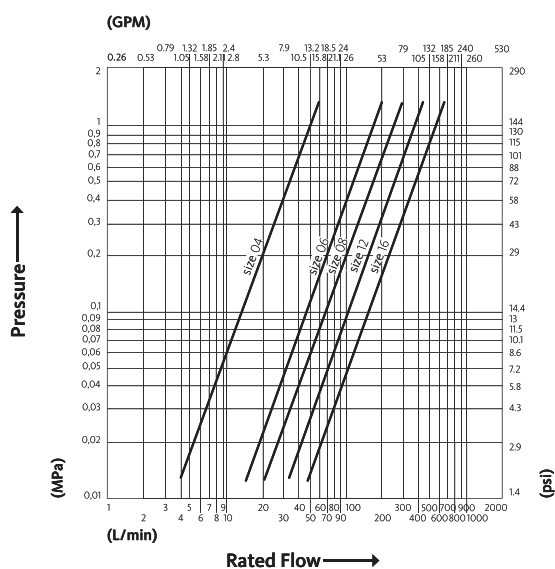
Flat face couplings, with stainless steel (AISI 316) components and seals in Viton. High resistance to corrosion. ISO 16028 interchangeable.



Applications



Pressure Drop



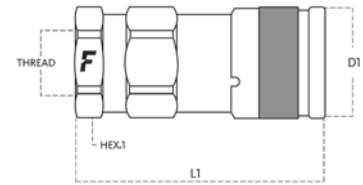
Test performed according to ISO 18869

Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
04	6.3	1/4"	25	20	0.006	95	100	100	100
06	10	3/8"	25	45	0.008	115	100	100	100
08	12.5	1/2"	25	100	0.01	220	100	100	100
12	20	3/4"	25	160	0.02	215	100	100	100
16	25	1"	25	210	0.03	280	100	100	100

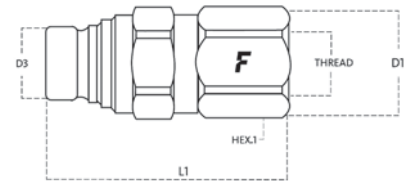
Material	Stainless Steel
Seals	VITON
Working temperatures	- 20 °C to + 200 °C
Surface treatment	
Series Interchange	ISO 16028

Valve Type	Flat
Connection	Push to Connect
Disconnection	Sleeve Retraction
Connection Under Pressure	Not Allowed



2FFI stainless steel

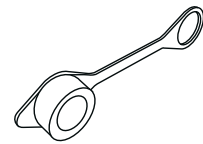
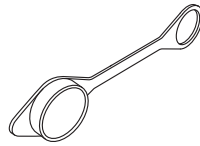
Size		Thread details			FEMALE							
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		
						mm	inch	mm	inch	mm	inch	
6.3	1/4"	F NPTF	ANSI B1.20.3	NPTF 1/4" FEMALE	2FFI14 NPT F 2	58.6	2.31	27	1.06	24	0.94	
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	2FFI14 GAS F2V	58.6	2.31	27	1.06	24	0.94	
10	3/8"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	2FFN38-12GASF2V	74.9	2.95	30	1.18	27	1.06	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	2FFN38 GAS F 2V	73.2	2.88	30	1.18	27	1.06	
10	3/8"	03/ METRIC	ISO 8434-1-S	M18x1.5 MALE 10S	2FFN38-3/18 F2V	73.8	2.91	30	1.18	27	1.06	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	2FFI12 GAS F 2V	81.9	3.22	38	1.5	32	1.26	
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	2FFI34 NPT F 2V	100.3	3.95	48	1.89	42	1.65	
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	2FFI34 GAS F 2V	100.3	3.95	48	1.89	41	1.61	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	2FFI 1 GAS F 2V	101	3.98	55	2.17	50	1.97	



Size		Thread details			MALE								
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1	
						mm	inch	mm	inch	mm	inch	mm	inch
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	FFI14 GAS M2V	62.8	2.47	26	1.02	16.1	0.63	24	0.94
10	3/8"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFN38-12GAS M2V	71	2.8	30	1.18	19.7	0.78	27	1.06
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FFN38 GAS M 2V	67	2.64	30	1.18	19.7	0.78	30	1.18
10	3/8"	03/ METRIC	ISO 8434-1-S	M18x1.5 MALE 10S	FFN38-3/18 M2V	68	2.68	30	1.18	19.7	0.78	27	1.06
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FFI12 GAS M 2V	83.6	3.29	35	1.38	24.5	0.96	32	1.26
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FFI34 NPT M 2V	99.4	3.91	46	1.81	29.9	1.18	42	1.65
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FFI34 GAS M 2V	99.4	3.91	46	1.81	29.9	1.18	42	1.65
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FFI 1 GAS M 2V	107.7	4.24	55	2.17	36	1.42	50	1.97



2FFI stainless steel **Accessories and Spares**



PVC dust protections

pag 169



Aluminium dust protections

pag 171

FFC



Flat face cartridge couplings, stainless steel.

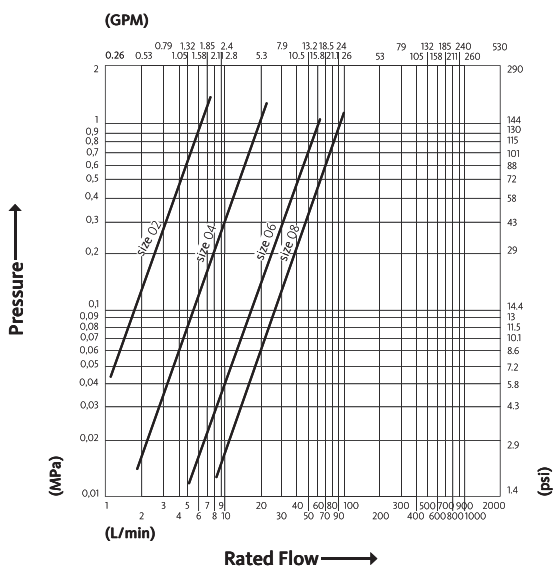
Self-aligning flat face couplings for multiconnections. Misalignments up to ± 0.5 mm and $\pm 1^\circ$ (angular) are automatically compensated during the connection. Stainless steel components (AISI 316) with Viton seals. Faster proprietary profile. Cartridges without thread, to be installed into machined housing.



Applications



Pressure Drop



Test performed according to ISO 18869

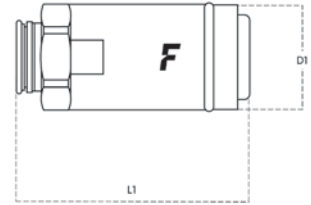
Technical Specifications

dash	Size mm	inch	Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
							Male	Female	Male + Female
02	3.2	1/8"	25	2.5	0.002	80	100	100	130
04	6.3	1/4"	32	8	0.002	80	150	90	130
06	10	3/8"	25	23	0.006	110	90	100	100
08	12.5	1/2"	45	35	0.006	185	140	80	180

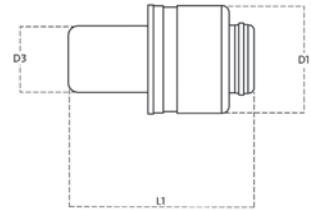
Material	Stainless Steel
Seals	VITON
Working temperatures	- 20 °C to +200 °C
Surface treatment	
Series Interchange	MARKET

Valve Type	Flat
Connection	Special
Disconnection	Special
Connection Under Pressure	Not Allowed

FFC



Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
6.3	1/4"				FFC14 F 2V	44.8	1.76	19	0.75		
10	3/8"				FFC38 F 2V	49.3	1.94	23.9	0.94		
12.5	1/2"				FFC12 F 2V	70.8	2.79	31.3	1.23		



Size		Thread details			MALE								
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1	
						mm	inch	mm	inch	mm	inch	mm	inch
6.3	1/4"				FFC14 M 2V	36	1.42	19.6	0.77	12.1	0.48		
10	3/8"				FFC38 M 2V	40.5	1.59	24.5	0.96	16.1	0.63		
12.5	1/2"				FFC12 M 2V	56	2.2	32.5	1.28	19.7	0.78		



FHV

Screw to connect flat face couplings.

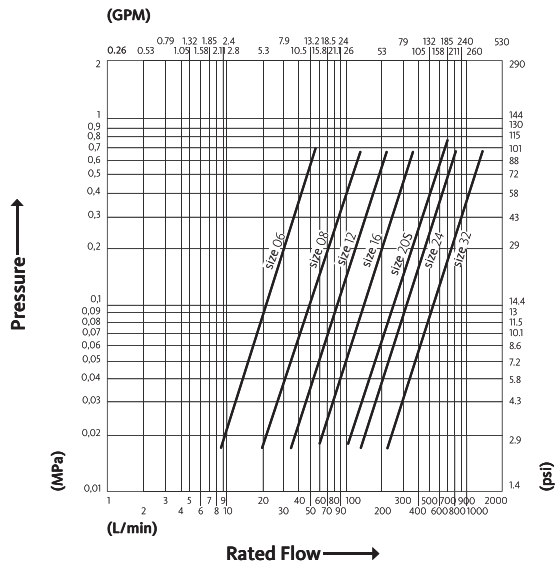
Screw-on flat face couplings, suitable for construction equipment and heavy duty applications. The Zinc-Nickel plating guarantees a remarkable resistance to corrosion. Connectable by hand up to 35 MPa residual pressure in the male half. No hose torsion during connection and disconnection thanks to the internal bearing system. Equipped with a safety sleeve to prevent accidental disconnections due to vibrations. Aluminum and pvc dust caps available. Faster proprietary profile.



Applications



Pressure Drop



Test performed according to ISO 18869

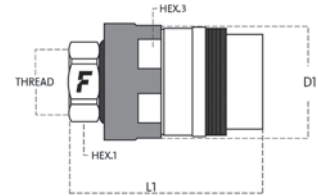
Technical Specifications

dash	Size		Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa)		
	mm	inch					Male	Female	Male + Female
06	10	3/8"	53	32	0.01	0	140	140	160
08	12.5	1/2"	53	70	0.01	0	140	140	160
12	20	3/4"	46	120	0.02	0	140	140	160
16	25	1"	53	200	0.03	0	140	140	160
20	31.5	1-1/4"	46	350	0.03	0	140	140	160
24	37.5	1-1/2"	46	420	0.03	0	140	140	160
32	50	2"	35	750	0.03	0	100	80	120

Material	Steel
Seals	VITON; PUR
Working temperatures	- 20 °C to + 100 °C
Surface treatment	MATE 1000 (ZnNi)
Series Interchange	FASTER

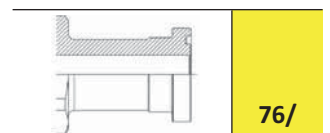
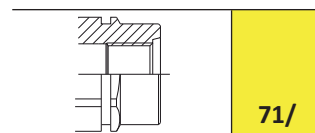
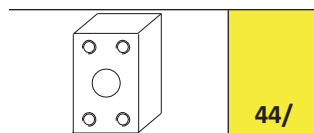
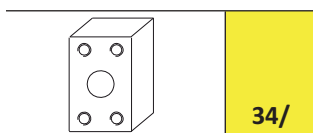
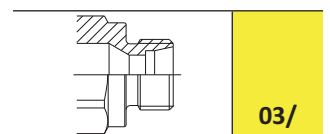
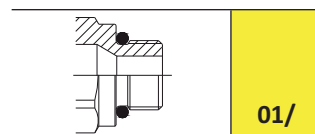
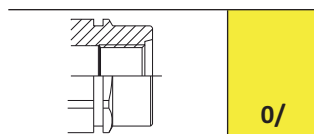
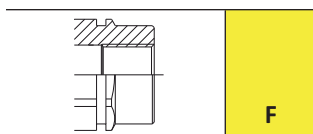
Valve Type	Flat
Connection	Screw to Connect
Disconnection	Unscrew to Disconnect
Connection Under Pressure	Allowed Male Half up to W.P.



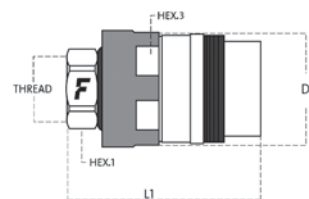


FHV

Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	FHV06 38NPT F	101.8	4.01	48	1.89	34	1.34
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FHV06 38GAS F	101.8	4.01	48	1.89	34	1.34
10	3/8"	71/ BSPP	JIS B 2351-1	BSPP 3/8" FEMALE ORB	FHV06-71/38G F	102	4.02	48	1.89	45	1.77
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FHV08 34GAS F	109.7	4.32	55	2.17	41	1.61
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FHV08 12NPT F	109.7	4.32	55	2.17	41	1.61
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FHV08 12GAS F	109.7	4.32	55	2.17	41	1.61
12.5	1/2"	71/ BSPP	JIS B 2351-1	BSPP 1/2" FEMALE ORB	FHV08-71/12G F	109.7	4.32	55	2.17	41	1.61
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FHV12 34GAS F	129.5	5.1	64	2.52	46	1.81
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV12 1GAS F	129.5	5.1	64	2.52	46	1.81
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FHVFR12 34NPT F	129.5	5.1	64	2.52	46	1.81
20	3/4"	0/ BSPP	BS 5380	BSPP 3/4" FEMALE ORB	FHV12-71/34G F	129.5	5.1	64	2.52	46	1.81
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FHV16 1NPT F	138	5.43	74	2.91	55	2.17
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV16 114GAS F	138	5.43	74	2.91	55	2.17
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV16 1GAS F	138	5.43	74	2.91	55	2.17
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FHVFR16 1NPT F	138	5.43	74	2.91	55	2.17
25	1"	0/ BSPP	BS 5380	BSPP 1" FEMALE ORB	FHV16-71/1G F	138	5.43	74	2.91	55	2.17
25	1"	0/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FHV16 1SAE F	138	5.43	74	2.91	55	2.17
25	1"	01/ METRIC	ISO 6149-2	M33x2 MALE	FHV16-1/3320 F	159	6.26	74	2.91	55	2.17
25	1"	03/ METRIC	ISO 8434-1-S	M42x2 MALE 30S	FHV16-3/4220 F	158	6.22	74	2.91	55	2.17
25	1"	34/ SAE	ISO 6162-2	SAE FLANGE 1-1/4	FHV16-34/20 F	159	6.26	94.6	3.72	55	2.17
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV16-44A/20 F	158	6.22	94.6	3.72	55	2.17
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV16-44/20 F	159	6.26	94.6	3.72	55	2.17
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1	FHV16-44/16 F	158	6.22	81.2	3.2	55	2.17
25	1"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV16-76/20 F	198	7.8	74	2.91	55	2.17
25	1"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1	FHV16-76/16 F	191	7.52	74	2.91	55	2.17
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FHV20S 114NPT F	146.7	5.78	74	2.91	55	2.17
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV20S 114GAS F	146.7	5.78	74	2.91	55	2.17
31.5	1-1/4"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV20S-44A/20 F	167	6.57	74	2.91	70	2.76
31.5	1-1/4"	71/ BSPP	JIS B 2351-1	BSPP 1-1/4" FEMALE ORB	FHV20S-71/114GF	146.7	5.78	74	2.91	55	2.17
31.5	1-1/4"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV20S-76/20 F	207	8.15	74	2.91	70	2.76
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FHV24 112GAS F	170.4	6.71	100	3.94	65	2.56
37.5	1-1/2"	F NPTF	ANSI B1.20.3	NPTF 1-1/2" FEMALE	FHV24 112NPT F	170.4	6.71	100	3.94	65	2.56
37.5	1-1/2"	0/ SAE	ISO 11926-1	1-5/8"-12 UN FEMALE ORB	FHV24 114SAE F	170.4	6.71	100	3.94	65	2.56

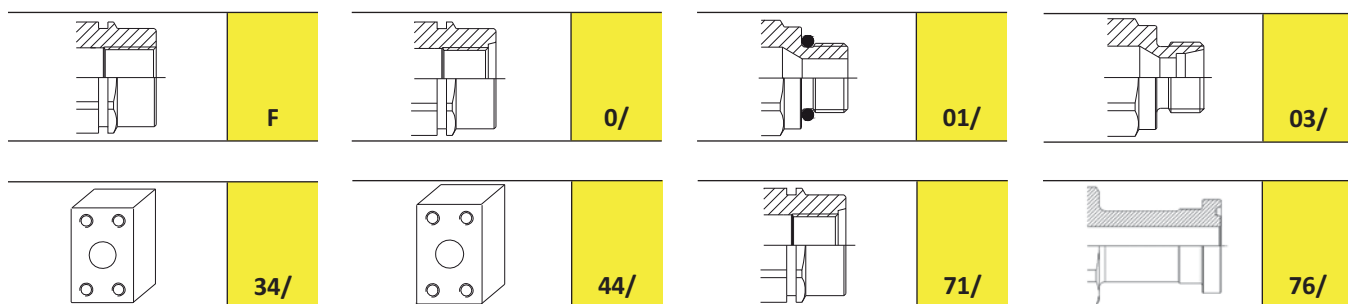


FHV

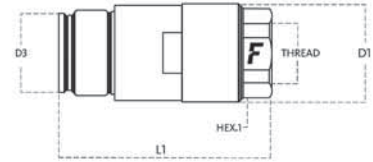


Size		Thread details			FEMALE						
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1	
						mm	inch	mm	inch	mm	inch
37.5	1-1/2"	34/ SAE	ISO 6162-2	SAE FLANGE 1-1/4	FHV24-34/20 F	181	7.13	94.6	3.72	65	2.56
37.5	1-1/2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/2	FHV24-44/24 F	192	7.56	113.3	4.46	65	2.56
37.5	1-1/2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV24-44A/20 F	181	7.13	94.6	3.72	65	2.56
37.5	1-1/2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/2	FHV24-76/24 F	236	9.29	100	3.94	65	2.56
37.5	1-1/2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV24-76/20 F	226	8.9	100	3.94	65	2.56
50	2"	F NPTF	ANSI B1.20.3	NPTF 2" FEMALE	FHV32 2NPT F	200.2	7.88	124	4.88	85	3.35
50	2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 2	FHV32-44/32 F	230.2	9.06	132.8	5.23	85	3.35
50	2"	71/ BSPP	JIS B 2351-1	BSPP 1-1/2" FEMALE ORB	FHV24-71/112G F	170.4	6.71	100	3.94	65	2.56
50	2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 2	FHV32-76/32 F	290.7	11.44	124	4.88	85	3.35

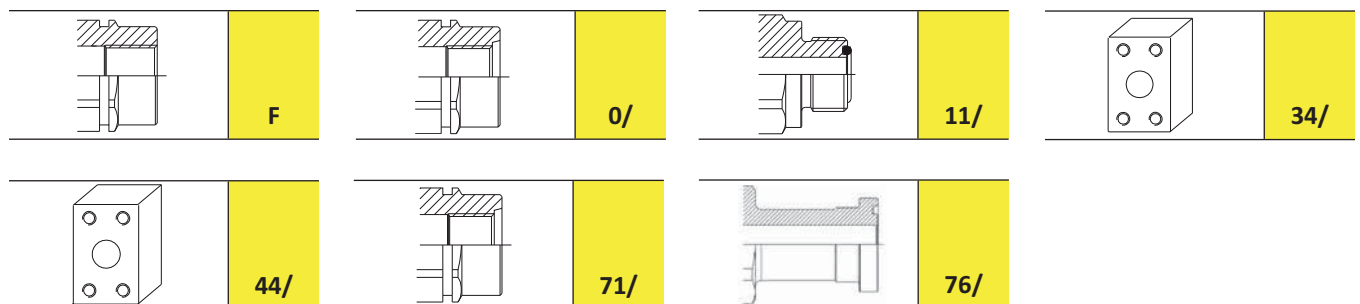
Flat Face



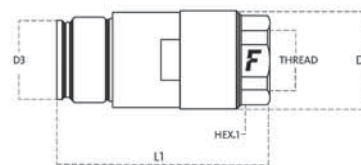
FHV



Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	FHV06 38NPT M	96.8	3.81	33	1.3	23	0.91	36	1.42	
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	FHV06 38GAS M	96.8	3.81	33	1.3	23	0.91	36	1.42	
10	3/8"	71/ BSPP	JIS B 2351-1	BSPP 3/8" FEMALE ORB	FHV06-71/38G M	96.8	3.81	33	1.3	23	0.91	36	1.42	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FHV08 34GAS M	109.5	4.31	44.5	1.75	31	1.22	36	1.42	
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	FHV08 12NPT M	109.5	4.31	44.5	1.75	31	1.22	36	1.42	
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	FHV08 12GAS M	109.5	4.31	44.5	1.75	31	1.22	36	1.42	
12.5	1/2"	71/ BSPP	JIS B 2351-1	BSPP 1/2 FEMALE ORB	FHV08-71/12G M	109.5	4.31	44.5	1.75	31	1.22	36	1.42	
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FHV12 34NPT M	122.3	4.81	54.5	2.15	35	1.38	46	1.81	
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	FHV12 34GAS M	122.5	4.82	54.5	2.15	35	1.38	46	1.81	
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV12 1GAS M	124.3	4.89	54.5	2.15	35	1.38	46	1.81	
20	3/4"	0/ BSPP	BS 5380	BSPP 3/4 FEMALE ORB	FHV12-71/34G M	123.3	4.85	54.5	2.15	35	1.38	46	1.81	
20	3/4"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	FHV12 34SAE M	122.5	4.82	54.5	2.15	35	1.38	46	1.81	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FHV16 1NPT M	143.8	5.66	64	2.52	43.8	1.72	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV16 114GAS M	143.8	5.66	64	2.52	43.8	1.72	55	2.17	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV16 1GAS M	143.4	5.65	64	2.52	43.8	1.72	55	2.17	
25	1"	0/ BSPP	BS 5380	BSPP 1 FEMALE ORB	FHV16-71/1G M	143.8	5.66	64	2.52	43.8	1.72	55	2.17	
25	1"	0/ SAE	ISO 11926-1	1-5/16"-12 UN FEMALE ORB	FHV16 1SAE M	143.8	5.66	64	2.52	43.8	1.72	55	2.17	
25	1"	11/ SAE	ISO 8434-3	1-7/16"-12 UN MALE ORFS	FHV16-11/1S M	156	6.14	64	2.52	43.8	1.72	55	2.17	
25	1"	34/ SAE	ISO 6162-2	SAE FLANGE 1-1/4	FHV16-34/20 M	150.5	5.93	94.6	3.72	43.8	1.72	55	2.17	
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV16-44A/20 M	150.5	5.93	94.6	3.72	43.8	1.72	55	2.17	
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV16-44/20 M	150.5	5.93	94.6	3.72	43.8	1.72	55	2.17	
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1	FHV16-44/16 M	150.5	5.93	81.2	3.2	43.8	1.72	55	2.17	
25	1"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV16-76/20 M	204.5	8.05	64	2.52	43.8	1.72	55	2.17	
25	1"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1	FHV16-76/16 M	197.5	7.78	64	2.52	43.8	1.72	55	2.17	
31.5	1-1/4"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV20S-76/20 M	235	9.25	68	2.68	47.8	1.88	55	2.17	
31.5	1-1/4"	71/ BSPP	JIS B 2351-1	BSPP 1-1/4 FEMALE ORB	FHV20S-71/114GM	165.8	6.53	68	2.68	47.8	1.88	55	2.17	
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FHV20S 114NPT M	165.8	6.53	68	2.68	47.8	1.88	55	2.17	
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV20S 114GAS M	165.8	6.53	68	2.68	47.8	1.88	55	2.17	
37.5	1-1/2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV24-44/20 M	188	7.4	85	3.35	43.8	1.72			
37.5	1-1/2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/2	FHV24-76/24 M	247	9.72	84.5	3.33	43.8	1.72	75	2.95	
37.5	1-1/2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV24-76/20 M	247	9.72	84.5	3.33	43.8	1.72	75	2.95	
37.5	1-1/2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/2	FHV24-44/24 M	197	7.76	113.3	4.46	43.8	1.72	75	2.95	
37.5	1-1/2"	34/ SAE	ISO 6162-2	SAE FLANGE 1-1/4	FHV24-34/20 M	185	7.28	94.6	3.72	43.8	1.72	75	2.95	
37.5	1-1/2"	0/ SAE	ISO 11926-1	1-5/8"-12 UN FEMALE ORB	FHV24 114SAE M	187.1	7.37	84.5	3.33	43.8	1.72	75	2.95	
37.5	1-1/2"	F NPTF	ANSI B1.20.3	NPTF 1-1/2" FEMALE	FHV24 112NPT M	187.1	7.37	84.5	3.33	43.8	1.72	75	2.95	



FHV



Size		Thread details			MALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		D3		HEX1		
						mm	inch	mm	inch	mm	inch	mm	inch	
37.5	1-1/2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV24-44A/20 M	185	7.28	94.6	3.72	43.8	1.72	75	2.95	
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FHV24 112GAS M	187.1	7.37	84.5	3.33	43.8	1.72	75	2.95	
50	2"	71/ BSPP	JIS B 2351-1	BSPP 1-1/2" FEMALE ORB	FHV24-71/112G M	187	7.36	84.5	3.33	43.8	1.72	75	2.95	
50	2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 2	FHV32-76/32 M	332	13.07	115	4.53	84.9	3.34	85	3.35	
50	2"	44/ METRIC	ISO 6162-1	METRIC FLANGE 2	FHV32-44/32 M	253	9.96	132.8	5.23	84.9	3.34	85	3.35	
50	2"	F NPTF	ANSI B1.20.3	NPTF 2" FEMALE	FHV32 2NPT M	237	9.33	115	4.53	84.9	3.34	85	3.35	

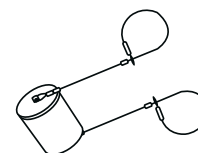
Flat Face

FHV Accessories and Spares



PVC dust protections

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Aluminium dust protections

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Seals Kits

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	F		0/		11/		34/
	44/		71/		76/		

Flat Face - Accessories



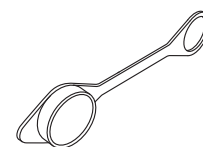
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PVC dust protections



Dust protections for female couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
06	10	3/8"	TMF 38	●	3FFH - FFH - FSH
06	10	3/8"	TMF 38 B	●	
06	10	3/8"	TMF 38 G	●	
06	10	3/8"	TMF 38 N	●	
06	10	3/8"	TMF 38 R	●	
06	10	3/8"	TMF 38 V	●	



Dust protections for female couplings

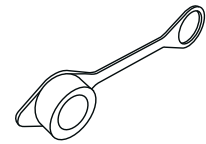
Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
04	6.3	1/4"	TM 2FI14	●	2FFI stainless steel - FFH
04	6.3	1/4"	TM 2FI14 N	●	
08	12.5	1/2"	TM 2FI12	●	2FFI brass - 2FFI stainless steel - 3FFH - FFH - FSH
08	12.5	1/2"	TM 2FI12 N	●	
10	16	5/8"	TM 2FI58	●	FFH
12	20	3/4"	TM 2FI34	●	2FFI stainless steel - 3FFH - FFH - FSH
12	20	3/4"	TM 2FI34 N	●	
12	20	3/4"	TM 2FI34 R	●	
16	25	1"	TM 2FI1	●	2FFI stainless steel - FFH - FSH
16	25	1"	TM 2FI1 N	●	

PVC dust protections



Dust protections for male couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
06	10	3/8"	TFF 38	●	2FFI stainless steel - 3FFH - FFH
06	10	3/8"	TFF 38 B	●	
06	10	3/8"	TFF 38 G	●	
06	10	3/8"	TFF 38 N	●	
06	10	3/8"	TFF 38 R	●	
06	10	3/8"	TFF 38 V	●	



Dust protections for male couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
04	6.3	1/4"	TF 2FI14	●	2FFI stainless steel - FFH
04	6.3	1/4"	TF 2FI14 N	●	
08	12.5	1/2"	TF 2FI12	●	2FFI stainless steel - 3FFH - FFH
08	12.5	1/2"	TF 2FI12 B	●	
08	12.5	1/2"	TF 2FI12 N	●	2FFI stainless steel - 3FFH - FFH
08	12.5	1/2"	TF 2FI12 R	●	
10	16	5/8"	TF 2FI58	●	3FFH - FFH
12	20	3/4"	TF 2FI34	●	2FFI stainless steel - 3FFH - FFH
12	20	3/4"	TF 2FI34 N	●	
12	20	3/4"	TF 2FI34 R	●	
16	25	1"	TF 2FI1	●	2FFI stainless steel - FFH
16	25	1"	TF 2FI1 N	●	



Dust protections for female/male couplings

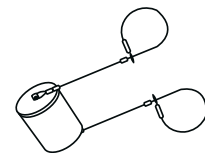
Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
06	10	3/8"	TM-TF FHV06	●	FHV
08	12.5	1/2"	TM-TF FHV08	●	
12	20	3/4"	TM-TF FHV12	●	
16	25	1"	TM-TF FHV16	●	
20	31.5	1-1/4"	TM-TF FHV20S	●	
24	37.5	1-1/2"	TM-TF FHV24C	●	
32	50	2"	TM-TF FHV32C	●	

Aluminium dust protections



Dust protections for female couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
04	6.3	1/4"	TM 2FI14 S	○	2FFI stainless steel - FFH
06	10	3/8"	TM 2FN38 S	○	2FFI stainless steel - 3FFH - FFH - FSH
08	12.5	1/2"	TM 2FI12 S	○	2FFI brass - 2FFI stainless steel - 3FFH - FFH - FSH
12	20	3/4"	TM 2FI34 S	○	2FFI stainless steel - 3FFH - FFH - FSH
16	25	1"	TM 2FI1 S	○	2FFI stainless steel - FFH - FSH
24	37.5	1-1/2"	TM 2FI112 S	○	2FSI-FFI
32	50	2"	TM 2FI2 S	○	2FSI-FFI



Dust protections for female couplings

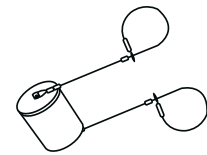
Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
06	10	3/8"	TM FHV06 S	○	FHV
08	12.5	1/2"	TM FHV08 S	○	
12	20	3/4"	TM FHV12 S	○	
16	25	1"	TM FHV16 S	○	
20	31.5	1-1/4"	TM FHV20 S	○	
24	37.5	1-1/2"	TM FHV24 S	○	
32	50	2"	TM FHV32 S	○	

Aluminium dust protections



Dust protections for male couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
04	6.3	1/4"	TF 2FI14 S	○	2FFI stainless steel - FFH
06	10	3/8"	TF 2FN38 S	○	2FFI stainless steel - 3FFH - FFH
08	12.5	1/2"	TF 2FI12 S	○	2FFI brass - 2FFI stainless steel - 3FFH - FFH
12	20	3/4"	TF 2FI34 S	○	2FFI stainless steel - 3FFH - FFH
16	25	1"	TF 2FI1 S	○	2FFI stainless steel - FFH
24	37.5	1-1/2"	TF 2FI112 S	○	2FSI-FFI
32	50	2"	TF 2FI2 S	○	2FSI-FFI



Dust protections for male couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
08	12.5	1/2"	TF FHV08 S	○	FHV
08	12.5	1/2"	TF FHV12 S	○	
12	20	3/4"	TF FHV06 S	○	
16	25	1"	TF FHV16 S	○	
20	31.5	1-1/4"	TF FHV20 S	○	
24	37.5	1-1/2"	TF FHV24 S	○	
32	50	2"	TF FHV32 S	○	

Acetal Resin dust protections



Dust protections for female couplings

Size			Details		
dash	mm	inch	Part number	Colour	Available for Series
06	10	3/8"	TAF 38	●	3FFH - FFH - FSH
06	10	3/8"	TAF 38 G	●	
06	10	3/8"	TAF 38 M UV	●	
06	10	3/8"	TAF 38 N	●	
06	10	3/8"	TAF 38 R	●	
06	10	3/8"	TAF 38 R UV	●	
06	10	3/8"	TAF 38 UV	●	
06	10	3/8"	TAF 38 V	●	
06	10	3/8"	TAF 38 V UV	●	

Seals Kits



Size			Details		
dash	mm	inch	Part number	Material	Available for Series
02	3.2	1/8"	SK FFH02	NBR - PTFE	FFH
04	6.3	1/4"	SK MF 14	PUR	
06	10	3/8"	SK FFH06 V	FKM - PTFE	
06	10	3/8"	SK FFH06	PUR	
06	10	3/8"	SK FHV06	NBR - PTFE	FHV
08	12.5	1/2"	SK FFH08 V	FKM - PTFE	FFH
08	12.5	1/2"	SK FFH08	PUR - PTFE	
08	12.5	1/2"	SK FHV08	FKM - PUR	FHV
10	16	5/8"	SK FFH10	PUR - PTFE	FFH
12	20	3/4"	SK FFH12	PUR - PTFE	
12	20	3/4"	SK FHV12	FKM - PUR	FHV
16	25	1"	SK FFH16	PUR - PTFE	FFH
16	25	1"	SK FHV16	FKM - PUR	FHV
20	31.5	1-1/4"	SK FHV20	FKM - PUR	
24	37.5	1-1/2"	SK FHV24	FKM - PUR	
32	50	2"	SK FHV32	NBR - PTFE	