

FHV



Screw to connect flat face coupling.

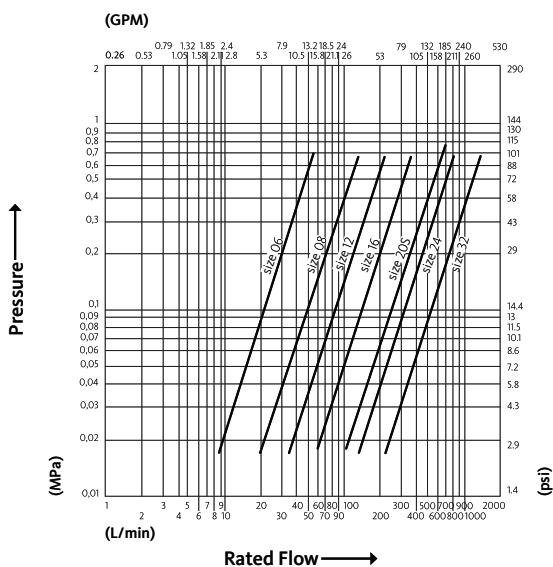
Screw-on flat face couplings, suitable to construction equipment and heavy duty applications. The Zinc-Nickel plating guarantees a remarkable resistance to corrosion. Connectable by hand up to 35 MPa residual pressure in the male half. No hose torsion during connection and disconnection thanks to the internal bearing system. Equipped with a safety sleeve to prevent accidental disconnections due to vibrations. Aluminum and pvc dust caps available. Faster proprietary profile. Part Number with ET have Extended Temperature range (from -30° to 120 °C) in connected configuration. Part Number with HD (Heavy Duty) are equipped with a double Bearing Ball system and greasing nipple.



Applications



Pressure Drop



Test performed according to ISO 18869

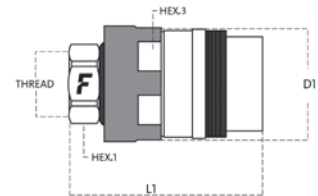
Technical Specifications

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 MPa	32	0.01		140	140	160
08	12.5	1/2"	53 MPa	70	0.01		140	140	160
12	20	3/4"	46 MPa	120	0.02		140	140	160
16	25	1"	53 MPa	200	0.03		140	140	160
20	31.5	1-1/4"	46 MPa	350	0.03		140	140	160
24	37.5	1-1/2"	46 MPa	420	0.03		140	140	160
32	50	2"	35 MPa	750	0.03		100	80	120

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

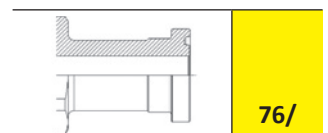
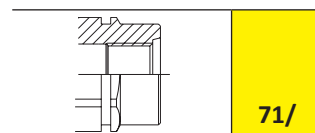
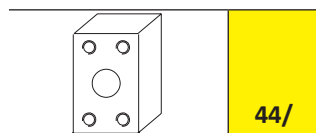
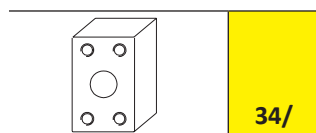
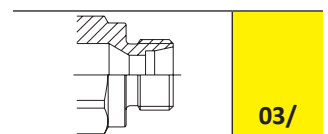
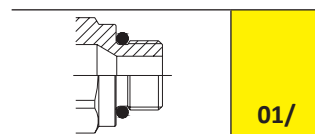
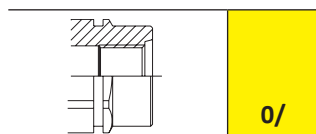
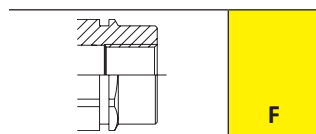
Valve Type	Flat
Connection	Screw to Connect
Disconnection	Unscrew to Disconnect
Connection Under Pressure	Allowed Male Half up to W.P.



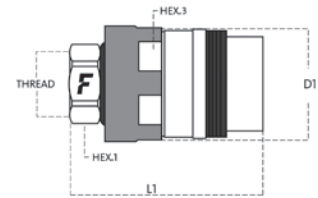


FHV

Size		Thread details			FEMALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		HEX3		
						mm	inch	mm	inch	mm	inch	mm	inch	
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	34	1.34	
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	45	1.77	
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	45	1.77	
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	52	2.05	
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	52	2.05	
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	52	2.05	
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	52	2.05	
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	60	2.36	
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	FHV12 34NPT F	129.5	5.1	64	2.52	46	1.81	60	2.36	
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	60	2.36	
20	3/4"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV12 1GAS F	129.5	5.1	64	2.52	46	1.81	60	2.36	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV16 1GAS F HD1*	138	5.43	70	2.76	55	2.17	70	2.76	
25	1"	03/ METRIC	ISO 8434-1-S	M42x2 MALE 30S	FHV16-3/4220 F	158	6.22	74	2.91	55	2.17	70	2.76	
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	70	2.76	
25	1"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1	FHV16-76/16 F	191	7.52	74	2.91	55	2.17	70	2.76	
25	1"	0/ BSPP	BS 5380	BSPP 1 FEMALE ORB	FHV16-71/1G F	138	5.43	74	2.91	55	2.17	70	2.76	
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	70	2.76	
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	70	2.76	
25	1"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1	FHV16-44/16 F	158	6.22	81.2	3.2	55	2.17	70	2.76	
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	70	2.76	
25	1"	01/ METRIC	ISO 6149-2	M33x2 MALE	FHV16-1/3320 F	159	6.26	74	2.91	55	2.17	70	2.76	
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	70	2.76	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	FHV16 1NPT F	138	5.43	74	2.91	55	2.17	70	2.76	
25	1"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FHV16 114NPT F	138	5.43	74	2.91	55	2.17	70	2.76	
25	1"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV16 114GAS F	138	5.43	74	2.91	55	2.17	70	2.76	
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	FHV16 1GAS F	138	5.43	74	2.91	55	2.17	70	2.76	
31.5	1-1/4"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV20ET-76/20 F	207.2	8.16	74	2.91	55	2.17	70	2.76	
31.5	1-1/4"	71/ BSPP	JIS B 2351-1	BSPP 1-1/4 FEMALE ORB	FHV20ET-71/114GF	146.7	5.78	74	2.91	55	2.17	70	2.76	
31.5	1-1/4"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV20ET-44A/20 F	167.2	6.58	74	2.91	-	-	70	2.76	
31.5	1-1/4"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV20ET-44/20 F	167.2	6.58	74	2.91	-	-	70	2.76	
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	FHV20ET 114NPT F	146.7	5.78	74	2.91	55	2.17	70	2.76	
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV20ET 114GAS F	146.7	5.78	74	2.91	60	2.36	70	2.76	
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FHV20ET 112GAS F	146.7	5.78	74	2.91	60	2.36	70	2.76	

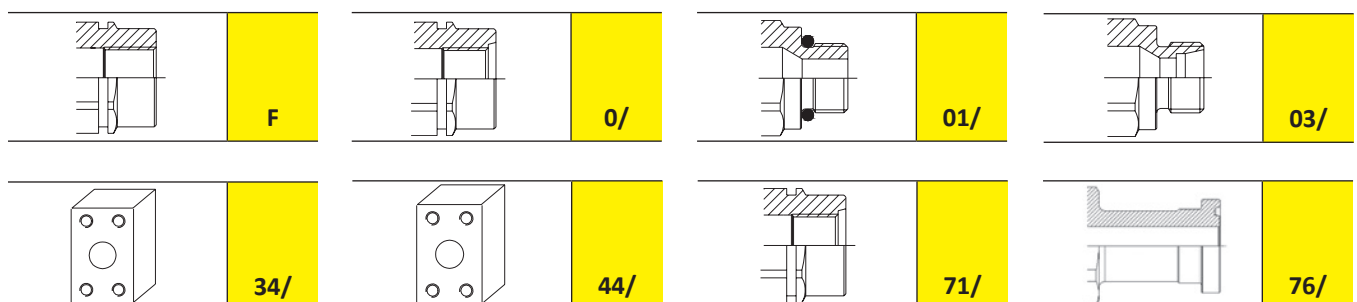


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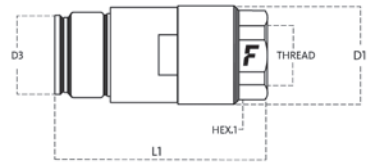


Size		Thread details			FEMALE									
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread)		D1		HEX1		HEX3		
						mm	inch	mm	inch	mm	inch	mm	inch	
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	FHV24 112GAS F HD1*	170.4	6.71	95	3.74	65	2.56	95	3.74	
37.5	1-1/2"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/2	FHV24-76/24 F	236	9.29	100	3.94	65	2.56	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	95	3.74	
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	115	4.53	
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	115	4.53	
50	2"	F NPTF	ANSI B1.20.3	NPTF 2" FEMALE	FHV32 2NPT F	200.2	7.88	124	4.88	85	3.35	115	4.53	

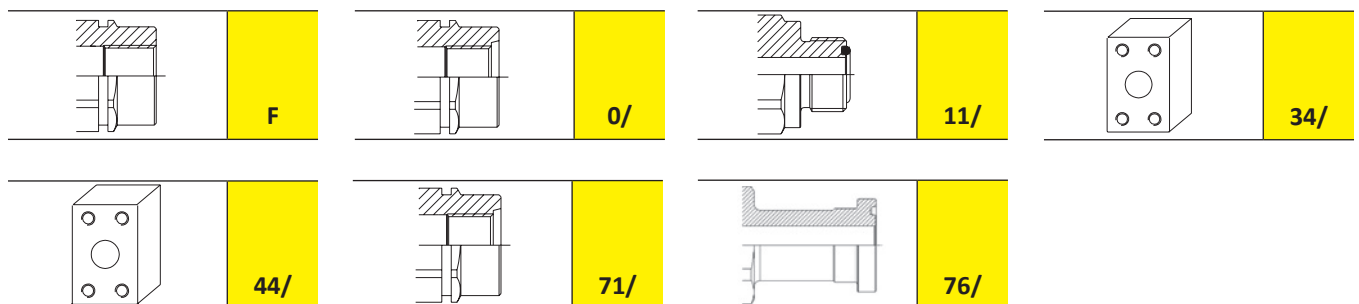
* Version with grease nipple and double bearing.



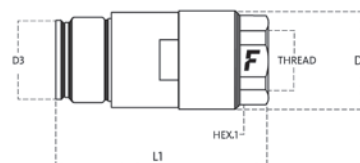
FHV



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"	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
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
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
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
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
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
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
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"	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"	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"	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"	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"	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
31.5	1-1/4"	76/ SAE	ISO 6162-2	SAE FLANGE HEAD 1-1/4	FHV20ET-76/20 M	234.8	9.24	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	FHV20ET-71/114GM	165.8	6.53	68	2.68	47.8	1.88	55	2.17
31.5	1-1/4"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV20ET-44A/20 M	172.5	6.79	47.8	1.88	47.8	1.88	55	2.17
31.5	1-1/4"	44/ METRIC	ISO 6162-1	METRIC FLANGE 1-1/4	FHV20ET-44/20 M	172.5	6.79	47.8	1.88	47.8	1.88	55	2.17
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	FHV20ET 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	FHV20ET 114GAS 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 1-1/2" FEMALE	FHV20ET 112GAS M	165.8	6.53	68	2.68	47.8	1.88	60	2.36
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	68.9	2.71	75	2.95
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	68.9	2.71	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	68.9	2.71	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	68.9	2.71	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	68.9	2.71	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"	O/ SAE	ISO 11926-1	1-5/8"-12 UN FEMALE ORB	FHV24 114SAE M	187.1	7.37	84.5	3.33	68.9	2.71	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	68.9	2.71	75	2.95	
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	68.9	2.71	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	68.9	2.71	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	68.9	2.71	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



Aluminium dust protections



Seals Kits

	F		O/		11/		34/
	44/		71/		76/		