

Forged Steel Valve



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FVF BRAND, RELIABLE QUALITY FOR YOU
CE&ISO 9001:2015 CERTIFIED ACQUIRED
15 YEARS FLUID SOLUTION EXPERIENCES
EXPORTING TO OVER 40 COUNTRIES
EXCELLENT VALUE-ADDED SERVICE.



We focus on Details
We Make Different
FVF Brand, that can be trust.

FVF Brand Found in year 2010, we specialize in Manufacturing Various Lined Valves, Multi-Port Ball Valve, Control Valves and Pipe Fittings.

The products are mainly widely used in modern anti-corrosion engineering fields such as Lithium Battery, petroleum, chemical industry, pharmacy, printing and dyeing, electrical engineering, ship building, metallurgy, military industry, semiconductor chemistry, electronic phosphoric acid, etc.

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With over ten years Exporting Experiences, we have the confident to give you best support from pre-sales to after-sales Service.

FVF Product Line:

Lined Valves (Lined Butterfly Valve, Lined Ball Valve, Lined Diaphragm Valve etc.)

Ceramaic Valves (Ceramaic Ball Valve, Ceramaic Gate Valve, Ceramaic Butterfly Valve etc.)

Pneumatic Valves (Pneumatic Butterfly Valve, Ball Valve etc.)

Electric Valves (Electric Butterfly Valve, Ball Valve etc.)

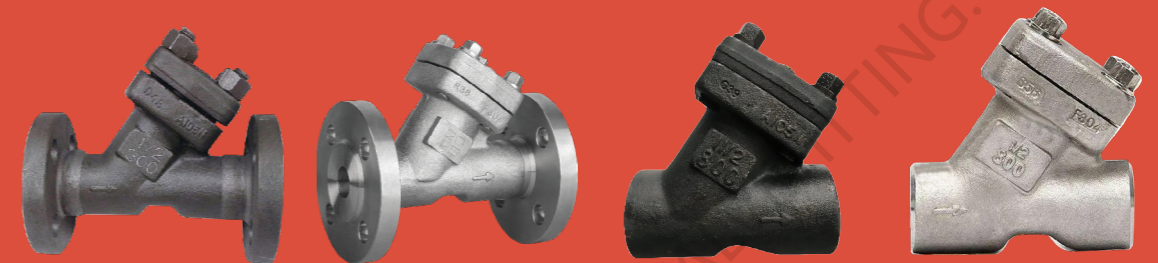
Multi-Port Ball Valve (3-Way Ball Valve, 4-Way Ball Valve, 5-Way Ball Valve)

Manual Valve (Check Valve, Gate Valve, Globe Valve etc.)

Pipe Fittings (150LBS Thread Pipe Fittings, Butt-Weld Fittings, 3000PSI Pipe Fittings)

Stainless Steel Flanges

FVF[®]
FVF TECHNOLOGY CO., LIMITED



Y-Type Strainers

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.

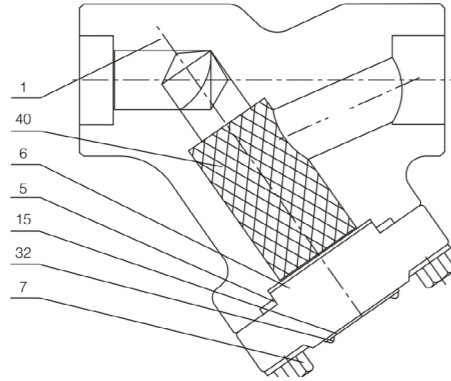


Y-Type Strainers

FVF TECHNOLOGY CO., LIMITED



Y-type strainer



Application standards

- Design and manufacture conform to: BS5352
- Connection ends conform to:
 - Socket welded ends conform to ANSI B16.11, JB/T1751
 - Screw ends conform to ANSI B1.20.1, JB/T7306
 - Butt-welded ends conform to ANSI B16.25, JB/T12224
 - Flange ends conform to ANSI B16.5, JB79
- Test and inspection conform to:
 - API598; GB/T13927; JB/T9092
- Structure features: Bolted bonnet or welded bonnet
- Materials conform to ANSI/ASTM
- Main materials: A105; LF2; F5; F11; F22; F304(L); F316(L); F347; F321; F51; Monel; Alloy 20# etc.

Carbon steel temperature-pressure rate

CL150-285 P.S.I @100 °F	CL800-1975 P.S.I @100 °F
CL300 - 740 P.S.I @100 °F	CL1500-3705 P.S.I @100 °F
CL600 - 1480 P.S.I @100 °F	CL2500-6170 P.S.I @100 °F

Material List of Main Parts

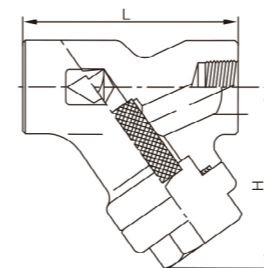
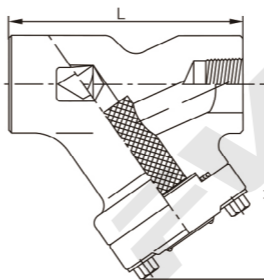
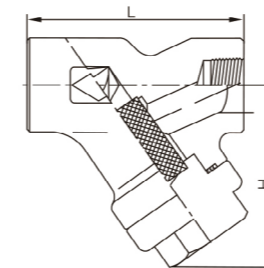
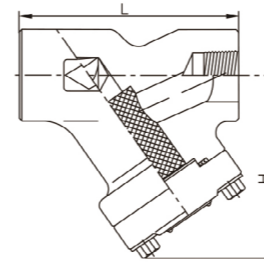
NO.	part name	A105/F6a	A105/F6aHFS	LF2/304	F11/F6aHF	F304(L)/304(L)	F316(L)/316(L)	F51/F51
1	Body	A105	A105	Lf2	F11	F304(L)	F316(L)	F51
5	Gasket	304 + Flexible Graphite	304 + Flexible Graphite	304 + Flexible Graphite	304 + Flexible Graphite	304 + Flexible Graphite	304 + Flexible Graphite	304 + Flexible Graphite
6	Bonnet	A105	A105	LF2	F11	F304(L)	F316(L)	F51
7	Bolt	B7	B7	L7	B16	B8(M)	B8(M)	B8M
15	Nameplate	AL	AL	AL	AL	AL	AL	AL
32	Rivet	H62	H62	H62	H62	H62	H62	H62
40	Filter screen	304	304	304	304	304(L)	316(L)	316(L)

Y-Type Strainers

FVF TECHNOLOGY CO., LIMITED



Y-type strainer



CL800

Bolted bonnet, full port and reduced port

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	-	-
Face to face(mm)	L	98	98	98	120	140	140	170	-	-
Height(open)(mm)	H	70	70	70	100	110	120	120	-	-
Flow port dimension (mm)	d	7	9	13	17.5	30	30	35	-	-
Weight(kg)		2.2	2.2	2.1	4.2	8.9	8.9	10	-	-

CL800

Welded bonnet, full port and reduced port

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	R.P	-	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	-	-
Face to face(mm)	L	98	98	98	120	140	140	170	-	-
Height(open)(mm)	H	65	65	65	95	105	110	110	-	-
Flow port dimension (mm)	d	7	9	13	17.5	23	30	35	-	-
Weight(kg)		1.8	1.8	2.0	3.5	9	8.0	12	-	-

CL900-CL1500

Bolted bonnet, full port

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	Face to face(mm)	L	120	120	120	140	170	170	220
Height(open)(mm)	H	70	70	100	110	110	120	150	-
Flow port dimension (mm)	d	9	12	15	20	28	32	40	-
Weight(kg)		2.1	4.2	9	8.9	10	18.6	20	-

CL900-CL1500

welded bonnet, full port

Threaded, butt-welded or socket welded ends; design to BS5352

Specification (NPS)	F.P	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
	Face to face(mm)	L	120	120	120	140	170	170	220
Height(open)(mm)	H	65	65	95	105	110	110	140	-
Flow port dimension (mm)	d	9	12	15	20	28	32	40	-
Weight(kg)		2.0	3.5	8.0	8.0	12	16	18	-

Operating Torque of Trunnion Mounted Ball Valve

FVF TECHNOLOGY CO., LIMITED



Operating Torque of Trunnion Mounted Ball Valve

The operating torque of the soft seat floating ball valve in the datasheet is calculated based on room temperature and clean medium. When selecting the driving device, it is recommended that the torque of the driving device be at least 1.3 times the operating torque of the valve. When

selecting the driving device, consideration should be given to high or low temperature conditions, as well as non clean media, which may increase the operating torque of the valve. The operating torque of a metal seat floating ball valve is approximately 3~4 times that of a soft seat floating ball valve.

Operating Torque of Soft Seat Trunnion Mounted Ball Valve, N.m

DN	NPS	Class150 PN20	Class300 PN50	Class600 PN110	Class900 PN150	Class1500 PN260	Class2500 PN420	PN16	PN25	PN40	PN63	PN100	PN160	JIS 10K	JIS 20K
40	1½	-	-	-	-	100	160	-	-	-	-	-	-	-	-
50	2	-	-	70	100	155	250	-	-	-	-	70	105	-	-
65	2½	-	-	120	170	265	420	-	-	-	-	120	180	-	-
80	3	-	-	280	320	500	800	-	-	-	-	230	340	-	-
100	4	110	200	340	480	750	1200	100	140	170	240	340	500	100	170
125	5	180	290	550	780	1200	1900	160	220	260	350	550	820	160	260
150	6	340	480	800	1100	1700	2700	300	380	450	600	800	1150	300	450
200	8	500	850	1700	2400	3700	5900	450	630	750	1300	1700	2500	450	750
250	10	830	1400	2800	4000	6200	9900	750	1050	1250	2000	2800	4200	750	1250
300	12	1400	2400	4200	5900	9100	-	1250	1750	2100	2900	4200	6200	1250	2100
350	14	2200	3100	5800	8100	-	-	2000	2600	2800	3700	5800	-	2000	2800
400	16	2600	4800	7500	10500	-	-	2350	3200	4300	5800	7500	-	2350	4300
450	18	3700	6100	9500	-	-	-	3300	4600	5500	-	-	-	3300	5500
500	20	4800	7500	11500	-	-	-	4300	6000	6800	-	-	-	4300	6800
600	24	8200	12000	16500	-	-	-	7400	10000	11000	-	-	-	7400	11000
650	26	9600	15000	-	-	-	-	-	-	-	-	-	-	-	-
700	28	12000	19000	-	-	-	-	-	-	-	-	-	-	-	-
750	30	14000	22000	-	-	-	-	-	-	-	-	-	-	-	-
800	32	16000	28000	-	-	-	-	-	-	-	-	-	-	-	-
900	36	20000	35000	-	-	-	-	-	-	-	-	-	-	-	-

Chemical Analysis And Physical Properties of ASTM Common Materials

FVF TECHNOLOGY CO., LIMITED



Materials of Body and Bonnet

Chemical composition	Carbon steel	Cryogenic		Alloy steel				Austenitic stainless steel ASTM-A182						Duplex stainless steel
	A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F304L	F316	F316L	F347H	F51
C	0.35	0.35	0.20	0.15	0.08-0.12	0.10-0.20	0.05-0.15	0.08	0.04-0.10	0.035	0.08	0.035	0.04-0.1	0.030
Mn	0.60-1.05	0.60-1.35	0.90	0.30-0.60	0.30-0.60	0.30-0.80	0.30-0.60	2.00	2.00	2.00	2.00	2.00	2.00	2.00
P	0.035	0.035	0.035	0.030	0.020	0.040	0.040	0.045	0.045	0.045	0.045	0.045	0.045	0.030
S	0.040	0.040	0.040	0.030	0.010	0.040	0.040	0.030	0.030	0.030	0.030	0.030	0.030	0.20
Si	0.10-0.35	0.10-0.35	0.20-0.35	0.50	0.20-0.50	0.50-1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ni	0.40	0.40	3.3-3.7	0.50	0.40	-	-	8.0-11.0	8.0-11.0	8.0-13.0	10.0-14.0	10.0-15.0	9.0-13.0	4.5-6.5
Cr	0.30	0.30	0.30	4.0-6.0	8-9.5	1.00-1.50	2.00-2.50	18.0-20.0	18.0-20.0	18.0-20.0	16.0-18.0	16.0-18.0	17.0-20.0	21-23
Mo	0.12	0.12	0.12	0.44-0.65	0.85-1.05	0.44-0.65	0.87-1.13	-	-	-	2.00-3.00	2.00-3.00	-	2.5-3.5
Mechanical property	ASTM A105	LF2	LF3	F5	F91	F11Class2	F22Class3	F304	F304H	F304L	F316	F316L	F347H	F51
Tensile strength	70	70-95	70-95	70	85	70	75	75	75	70	75	70	75	90
Yield strength	36	36	37.5	40	60	40	45	30	30	25	30	25	30	65
Elongation at Rupture	22	22	22	20	20	20	20	30	30	30	30	30	30	25
Reduction of area	30	30	35	35	40	30	30	50	50	50	50	50	50	45
Brinell hardness	187(2)	197	197	143-217	≤ 248	143-207	156-207	-	-	-	-	-	-	-

Materials of Trim and Bolt

Chemical composition	Trim materials					Bolt materials				
	AISI 410	AISI 416	AISI 420	ASTM B164 Monel	Stellite Gr.6	ASTM A193 B7	ASTM A193 B8	ASTM A430 430	ASTM A2H 2H	ASTM A194 G8
C	0.15max.	0.15max.	0.15max.	0.3max.	1.00	0.37-0.49	0.08max.	0.12max.	0.40max.	0.08max.
Mn	1.00max	1.25max	1.00max	2.0max.	1.00max.	0.65-1.10	2.0max.	1.00max.	1.00max.	2.00max.
P	0.040	0.060max	0.040	-	-	0.035	0.045	0.040	0.040max.	0.045
S	0.030	0.15max.	0.030	0.025	-	0.04	0.030	0.030	0.050max.	0.030
Si	1.00max	1.00max	1.00max.	0.5max.	1.00	0.15-0.35	1.00max	1.00max	0.40max.	1.00max.
Cr	11.5-13.5	12.0-14.0	12.0-14.0	-	28.00	0.75-1.20	18.0-20.0	14.0-18.0	-	18.0-20.0
Ni	-	-	-	63.0max	3.0max.	-	8.00-11.0	-	-	8.00-11.0
Mo	-	0.600max.	-	-	-	0.15-0.25	-	-	-	-
Cu	-	-	-	28.0-37.0	-	-	-	-	-	-
Other element	-	-	-	Fe: 2.5max.	Fe: 3.00max. W: 4.0 Co: balance	-	-	-	-	-
Mechanical property	410	416	420	ASTM A164	Gr.6	B7	B8	430	2H	G8
Tensile strength	99/85 70/130	85/170 85/170	149/298 105/210	70(2) 49.2	-	125 87.8	75 52.7	75.4 53	- -	- -
Yield strength	59/170 42/120	59/128 42/90	119/199 84/140	25(2) 17.6	-	105 73.8	30 21	40 28	- -	- -
Elongation at Rupture	(15)(1)	(10)(1)	(8)(1)	(35)(2)	-	16	30	28	-	-
Reduction of area	50/75	8/60	5/40	-	-	50	50	65	-	-
Brinell hardness	180/375	180/375	300-600	-	HRC min.37	-	-	160	248-352	126-300

