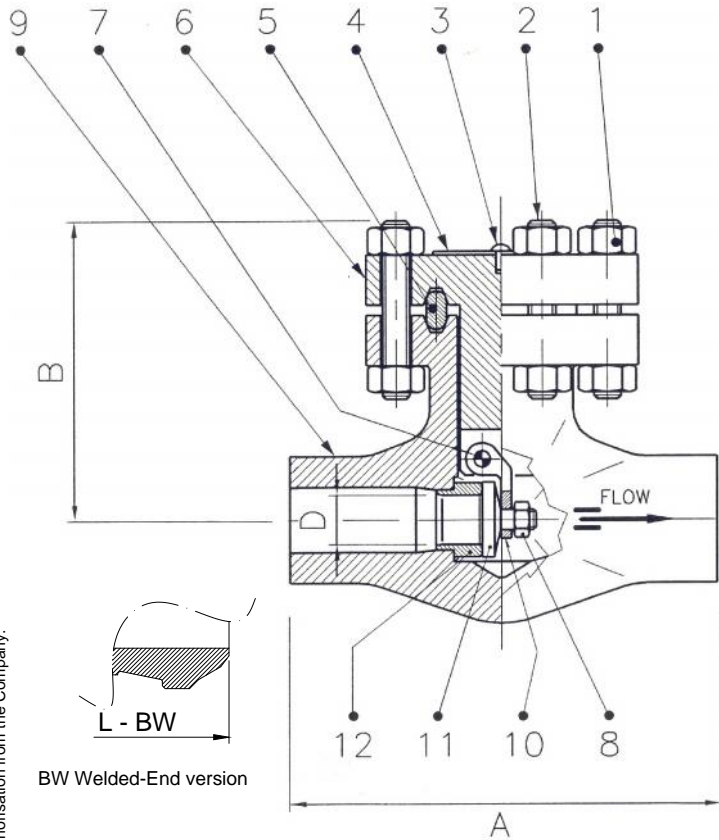


2500 Lbs

DT-FSCV-005



BASIC DESIGN STANDARDS

Basic Design ISO 15761- BS 5352

Wall Thickness / Pressure / Temperature According to ANSI B16.34

Ends Dimensions SW according to ANSI B16.11 / NPT-F according to ASME B1.20

Bore Reduced & Full

TEST PRESSURE TO API 598 bar

Class	Shell (water)	Seat (water)	Seat (air)
2500	638	468	6.0

BILL OF MATERIALS STANDARD ACCORDING TO ASTM

No	Part Name	Carbon Steel		Alloy Steel	Stainless Steel
		A105/F6	A105/F6 HF	F11/F6 HF	SS316
01	Studs B/C	A194 2H	A194 2H	A194 2H	A194 Gr.8
02	Bolts B/C	A193 B7	A193 B7	A193 B7	A193 B8
03	Rivet	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
04	Name Plate	Aluminium	Aluminium	Aluminium	INOX
05	Ring Joint	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
06	Cover	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L
07	Hinge Pin	A479 TP316	A479 TP316	A479 TP316	A479 TP316L
08	Nut	A194 Gr.8	A194 Gr.8	A194 Gr.8	A194 Gr.8
09	Body	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L
10	Hinge	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316L
11	Swing	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L
12	Seat	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L

* Recommended Spare Parts

2500 Lbs

SIZE (Reduced Bore)		DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	-	-	-	-	-
3/4"	20	110	70	-	14	3.1
1"	25	120	77	-	18	4.2
1-1/4"	32	130	105	-	24	5.8
1-1/2"	40	170	115	-	29.5	9.4
2"	50	210	145	-	36	12.1

SIZE (Full Bore)		DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/4"	8	-	-	-	-	-
3/8"	10	-	-	-	-	-
1/2"	15	110	70	-	14	3.1
3/4"	20	120	77	-	18	4.2
1"	25	130	105	-	24	5.8
1-1/4"	32	130	115	-	29.5	9.4
1-1/2"	40	210	145	-	36	12.1
2"	50	210	145	-	40	13.5

FORGED STEEL SWING CHECK VALVES CLASS 2500 LBS

ANSI CLASS 2500

PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34

Temperature °C	WORKING PRESSURE (bar.g)		
	ASTM A105N (a)	ASTM A182 F11 (b)	ASTM A182 SS316 (c)
-29 to 38	425.5	431.0	413.8
93	387.9	431.0	355.9
149	377.2	414.8	321.4
204	364.1	398.3	295.2
260	344.1	382.1	274.5
316	314.5	347.6	259.3
343	308.6	338.3	255.2
371	306.2	326.2	249.7
399	289.7	305.5	245.5
427	236.6	291.7	242.8
454	153.8	280.0	240.0
482	98.6	258.3	238.6
510	59.3	183.1	222.1
538	29.7	124.1	201.0
566		82.8	197.6
593		55.2	175.5
621		35.5	135.9
649		21.7	106.6

- (a) Permissible, but not recommended for prolonged usage above 427 °C
 (b) Permissible, but not recommended for prolonged usage above 594 °C
 (c) For welding end valves only: Flanged end ratings terminate at 538°C