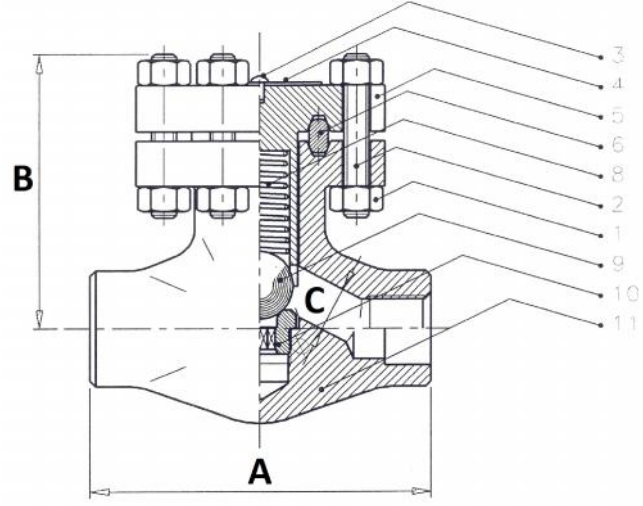
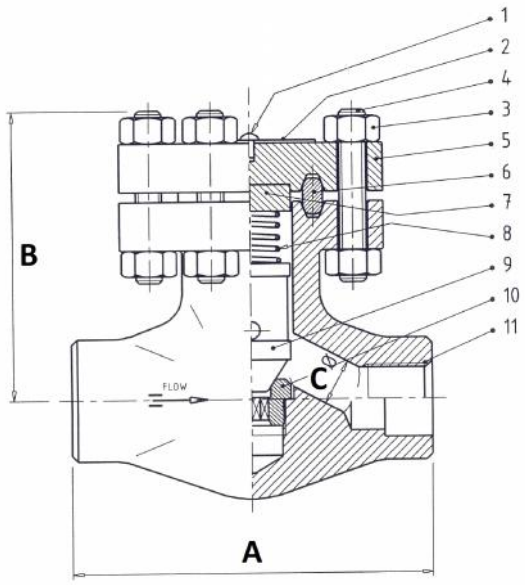


2500 Lbs

DT-FPCV-005



BASIC DESIGN STANDARDS

Basic Design ISO 15761 – BS5352

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

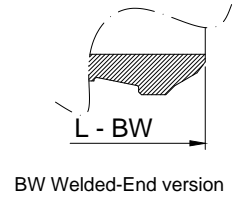
Ends SW according to ANSI B16.11 /

Dimensions NPT-F according to ASME B1.20

Bore Full

TEST PRESSURE TO API 598 bar

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



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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 HF
01	Rivet	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
02	Name Plate	Aluminium	Aluminium	Aluminium	INOX
03	Bolts B/C	A193 B7	A193 B7	A193 B7	A193 B8
04	Cover	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L
05	Gasket B/C	F316 + Graphoil	F316 + Graphoil	F316 + Graphoil	F316 + Graphoil
06	Hinge Pin	A479 TP316	A479 TP316	A479 TP316	A479 TP316L
07	Seat	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L + ST.6
08	Swing	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L + ST.6
09	Hinge	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316L
10	Nut	A194 Gr.8	A194 Gr.8	A194 Gr.8	A194 Gr.8
11	Body	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L

* Recommended Spare Parts

2500 Lbs

SIZE (Full Bore)		DIMENSION in mm				
Inches	mm	L	H	C	D	Kg
1/4"	8	110	105	-	7	7
3/8"	10	110	105	-	8	7
1/2"	15	110	105	-	11	7
3/4"	20	120	110	-	14	7.2
1"	25	130	125	-	19	9
1-1/4"	32	-	-	-	-	-
1-1/2"	40	210	160	-	28	24
2"	50	240	170	-	36	26

FORGED STEEL PISTON CHECK VALVES CLASS 2500 LBS

ASTM A182 F316	PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34		
Temperature °C	WORKING PRESSURE (bar.g)		
	ASTM A105N (a)		
	A105	F11	F316
-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	326.3	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
677	-	-	84.8
704	-	-	66.9
732	-	-	55.2
760	-	-	43.4
788	-	-	33.4
816	-	-	23.8

(a) Permissible, but not recommended for prolonged usage above 427 °C