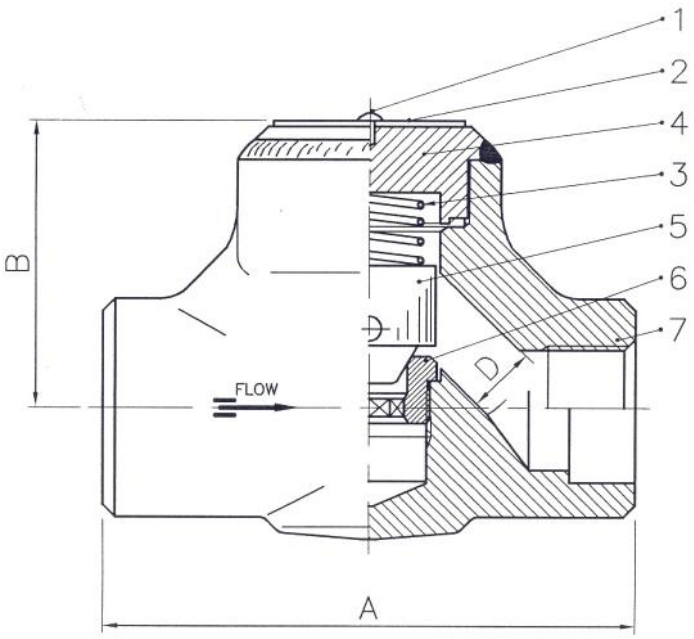
FORGED PISTON/BALL CHECK VALVES

2500 Lbs

DT-FPCV-009

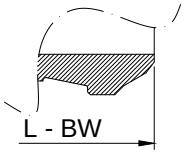


BASIC DESIGN STANDARDS

Basic Design	ISO 15761 – BS5352
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



BW Welded-End version

**** Also available BALL check valve type**

BILL OF MATERIALS STANDARD ACCORDING TO ASTM

		Carbon Steel		Alloy Steel	Stainless Steel
No	**Part Name**	**A105/F6 (**)**	**A105/F6 HF**	**F11/F6 HF (**)**	**SS316**
01	Rivet	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
02	Name Plate	Aluminium	Aluminium	Aluminium	INOX
03	Spring	ASTM A479 TP316L	ASTM A479 TP316L	ASTM A479 TP316L	ASTM A479 TP316L
04	Cover	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L
05	Piston/Ball	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L
06	Seat	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L
07	Body	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L

* Recommended Spare Parts

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FORGED PISTON/BALL CHECK VALVES

2500 Lbs

FORGED STEEL PISTON CHECK VALVES CLASS 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

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

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