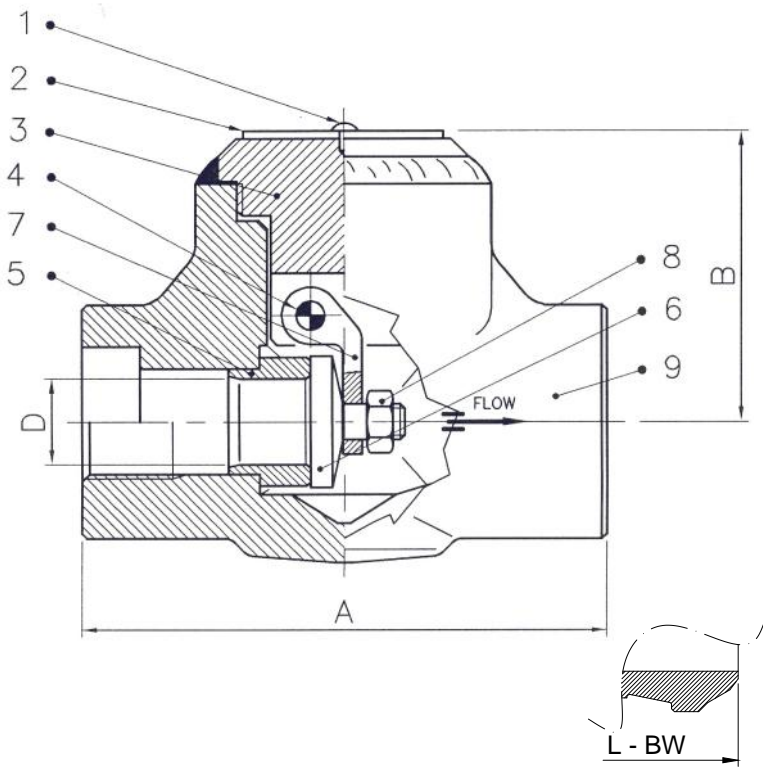


# FORGED SWING CHECK VALVES

1500 Lbs

DT-FSCV-008



BW Welded-End version

**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)
1500	382	280	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	Rivet	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
02	Name Plate	Aluminium	Aluminium	Aluminium	INOX
03	Cover	ASTM A105N	ASTM A105N	ASTM A182 Gr. F11	ASTM A182 Gr. F316L
04	Hinge Pin	A479 TP316	A479 TP316	A479 TP316	A479 TP316L
05	Seat	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L
06	Swing	A479 TP410	A479 TP410 + ST.6	A479 TP410 + ST.6	A479 TP316L
07	Hinge	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316L
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

\* Recommended Spare Parts

This document is the property of OPM ITALIA Srl. It must not be stored, reproduced or disclosed to others without written authorisation from the Company.

# FORGED SWING CHECK VALVES

**1500 Lbs**

**FORGED STEEL SWING CHECK VALVES CLASS 1500 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

ANSI CLASS 1500	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	255.5	258.6	248.3
93	232.8	258.6	213.4
149	226.2	249.0	192.8
204	218.6	239.0	177.2
260	206.6	229.3	164.8
316	188.6	208.6	155.5
343	185.2	202.8	153.1
371	183.8	195.9	149.7
399	173.8	183.4	147.2
427	142.1	175.2	145.5
454	92.4	167.9	144.1
482	59.3	154.8	143.1
510	35.5	110.0	133.1
538	17.9	74.5	120.7
566		49.7	118.6
593		33.1	105.2
621		21.4	81.7
649		13.1	63.8

(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