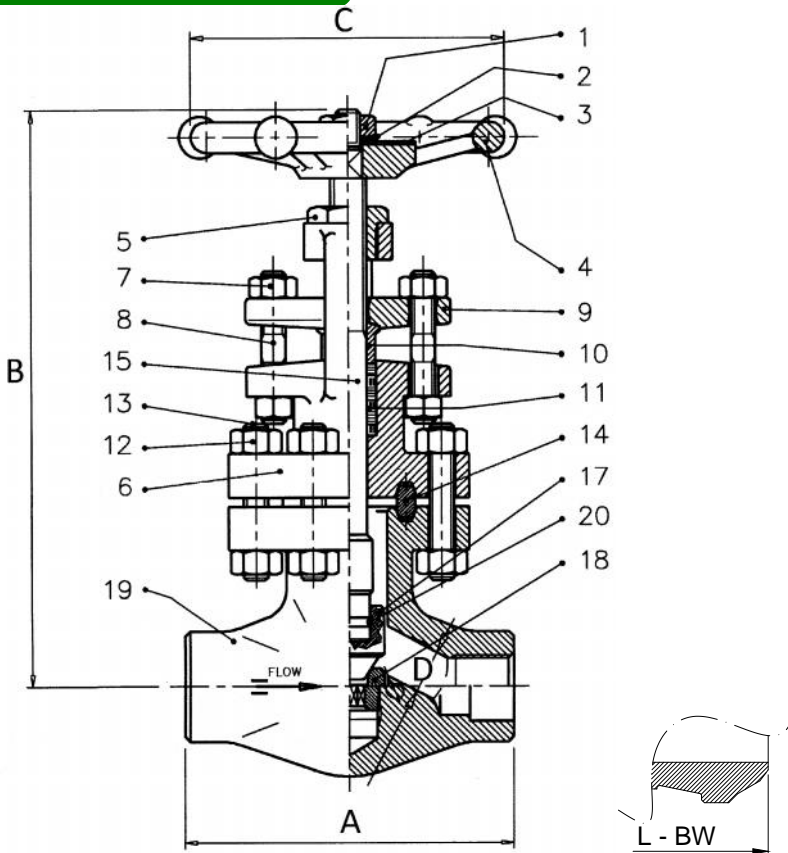


2500 Lbs

DT-FDV-005



BW Welded-End version

BASIC DESIGN STANDARDS

Basic Design ISO 15761 – BS5352

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

Ends SW according to ANSI

Dimensions B16.34 / NPT-F according to ASME B1.20

Bore Full

TEST PRESSURE TO API 598 bar

Class	Shell (water)	Seat (water)	Seat (air)
2500	638	474	6.0

BILL OF MATERIALS STANDARD ACCORDING TO ASTM

No	Part Name	Carbon Steel		Alloy Steel	Stainless Steel
		A105/F6	LF2/304	F11/F6 HF	SS316
01	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	A194 Gr.8
02	Whasher	Carbon Steel	Carbon Steel	Carbon Steel	A194 Gr.8
03	Name Plate	Aluminium	Aluminium	Aluminium	INOX
04	Handwheel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel + Rislant
05	Yoke Sleeve	AISI 416	AISI 416	AISI 416	AISI 416
06	Bonnet	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A182 F316L
07	Gland Nuts	A194 Gr. 2H	A194 Gr. 2H	A194 Gr. 2H	A194 Gr.8
08	Gland Studs	AISI 410	AISI 410	AISI 410	A193 B8M
09	Gland Flange	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A316
10	Packing Gland	A479 TP410	A479 TP410	A479 TP410	A479 TP316L
11	Packing	Graphoil	Graphoil	Graphoil	Graphoil
12	B/B Nuts	A194 Gr. 2H	A194 Gr. 2H	A194 Gr. 2H	A194 Gr.8
13	B/B Studs	A193 B7	A193 B7	A193 B7	A193 B8
14	Gasket B/B	SOFT IRON	SOFT IRON	SOFT IRON	SOFT IRON
15	Stem	A479 TP410	A479 TP304	A479 TP410	A479 TP316L
16	Thrust Bearing	A479 TP410	A479 TP410	A479 TP410	A479 TP316L
17	Disc	A479 TP410	A479 TP304	A479 TP410 + STL.6	A479 TP316L
18	Seat	A479 TP410	A479 TP304	A479 TP410 + STL.6	A479 TP316L
19	Body	ASTM A105N	ASTM A350 LF2	ASTM A182 F11	ASTM A182 F316L
20	Wire Joint	Inconel 750	Inconel 750	Inconel 750	ASTM A182 F316L

* Recommended Spare Parts

2500 Lbs

FORGED STEEL GLOBE VALVES CLASS 2500

ANSI CLASS 2500

PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34

Temperature °C	WORKING PRESSURE (bar.g)		
	ASTM A105N (a)	ASTM A182 F316 (c)	ASTM A182 F11 (b)
-29 to 38	425.5	413.8	431.0
93	387.9	355.9	431.0
149	377.2	321.4	414.8
204	364.1	295.2	398.3
260	344.1	274.5	382.1
316	314.5	259.3	347.6
343	308.6	255.2	338.3
371	306.2	249.7	326.2
399	289.7	245.5	305.5
427	236.6	242.8	291.7
454	153.8	240.0	280.0
482	98.6	238.6	258.3
510	59.3	222.1	183.1
538	29.7	201.0	124.1
566	-	197.6	82.8
593	-	175.5	55.2
621	-	135.9	35.5
649	-	106.6	21.7
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
 (b) Permissible, but not recommended for prolonged usage above 594 °C
 (c) For welding end valves only: Flanged end ratings terminate at 538°C

SIZE (Full Bore)		DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/4"	8	110	260	120	7	4.5
3/8"	10	110	260	120	8	4.5
1/2"	15	110	270	120	11	5
3/4"	20	120	275	140	14	8
1"	25	130	290	140	19	10.7
1-1/4"	32	210	390	170	24	24
1-1/2"	40	210	415	260	28	32
2"	50	240	425	260	36	37