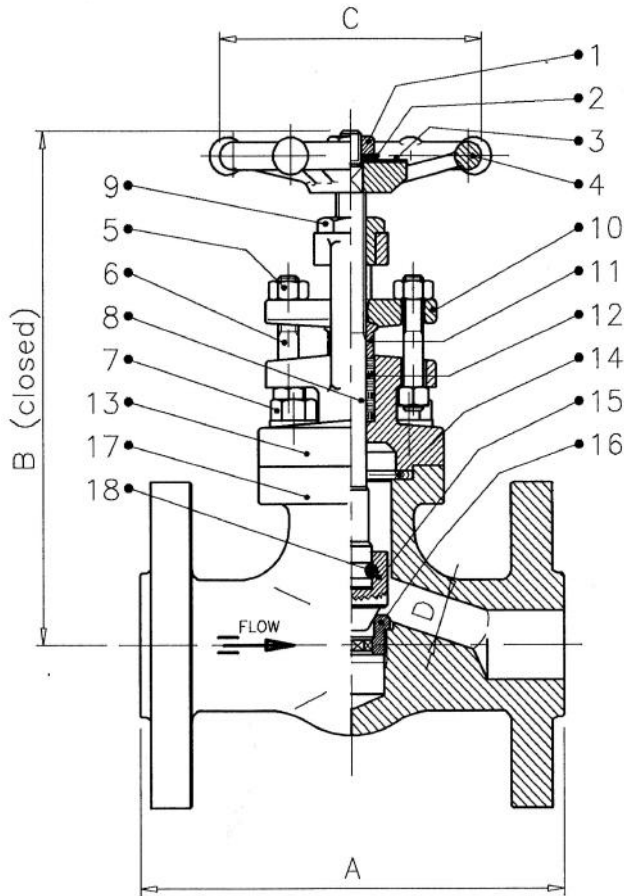


## PN 40 / PN 100

DT-FDV-007



### BASIC DESIGN STANDARDS

Basic Design	DIN 3352 / 3840
Flanges	DIN 2501
Rating	DIN 2401
Face To Face	DIN 3202
Bore	Full

### TEST PRESSURE TO API DIN 3352 Part 1 bar

Rating	Shell (water)	Seat (water)	Seat (air)
PN40	60	48	6.0
PN100	150	120	6.0

### BILL OF MATERIALS STANDARD ACCORDING TO ASTM

No	Part Name	Carbon Steel	Stainless Steel
		C22.8 / (1.4021) HF	1.4401/1.4401
01	Handwheel Nut	Carbon Steel	A194 Gr.8
02	Whasher	Carbon Steel	A194 Gr.8
03	Name Plate	Aluminium	INOX
04	Handwheel	ASTM A105N	Carbon Steel + Rislán
05	Gland Nuts	EN 10269 (1.7709) 21CrMoV 5.7	A2-70
06	Gland Studs	EN 10269 (1.7709) 21CrMoV 5.7	A2-70
07	Bolts B/B	EN 10269 (1.7709) 21CrMoV 5.7	A2-70
08	Stem	EN 10088-3 (1.4021) X20Cr13	X5CrNiMo17-12-2 1.4401
09	Yoke Sleeve	AISI 416	AISI 416
10	Gland Flange	ASTM A105N	ASTM A316
11	Packing Gland	A479 TP316	A479 TP316L
12*	Packing	GTJ+TE. GRAPHITE	Graphoil
13	Bonnet	DIN 17243 (1.0460) C22.8 – P250GH	X5CrNiMo17-12-2 1.4401
14*	Gasket B/B	F316 + Graphoil	F316 + Graphoil
15	Disc	EN 10088-3 (1.4021) X20Cr13 + ST.6	X5CrNiMo17-12-2 1.4401
16	Seat Ring	EN 10088-3 (1.4021) X20Cr13 + ST.6	X5CrNiMo17-12-2 1.4401
17	Body	DIN 17243 (1.0460) C22.8 – P250GH	X5CrNiMo17-12-2 1.4401
18	Wire Joint	ASTM A182 F316L	X5CrNiMo17-12-2 1.4401

\* Recommended Spare Parts

## PN 40 / PN 100

SIZE (Full Bore)		PN40 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	130	170	100	15	4.5
3/4"	20	150	192	120	20	5.5
1"	25	160	225	120	25	7.5
1-1/2"	40	200	285	170	40	13
2"	50	230	310	170	50	17

SIZE (Full Bore)		PN100 RF - DIMENSION in mm				
Inches	mm	A	B	C	D	Kg (HANDWHEEL)
1/2"	15	210	195	120	15	6
3/4"	20	230	258	140	20	8.7
1"	25	230	262	140	25	10.5
1-1/2"	40	260	305	170	40	15
2"	50	300	325	170	50	23

ANSI CLASS  
PN40 / PN100

### PRESSURE – TEMPERATURE RATINGS TO ANSI B16.34

Temperature °C	WORKING PRESSURE (bar.g)			
	DIN 17243 (1.0460) C22.8 – P250GH (a)		X5CrNiMo17-12-2 1.4401 (c)	
	PN40	PN100	PN40	PN100
-29 to 38	39.0	102.1	37.3	99.3
93	37.2	93.1	36.4	85.5
149	34.1	90.7	33.8	77.2
204	31.7	87.6	31.3	70.7
260	28.4	82.8	29.3	65.9
316	26.0	75.5	27.6	62.1
343	23.5	74.1	25.8	61.4
371	21.9	73.4	24.9	60.0
399	21.6	69.7	24.5	59.0
427	21.1	56.9	24.0	58.3
454			23.8	57.6
482			22.6	57.2
510			21.5	53.4
538			19.7	48.3

(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

FORGED STEEL GLOBE VALVES CLASS PN40 PN100 RF