

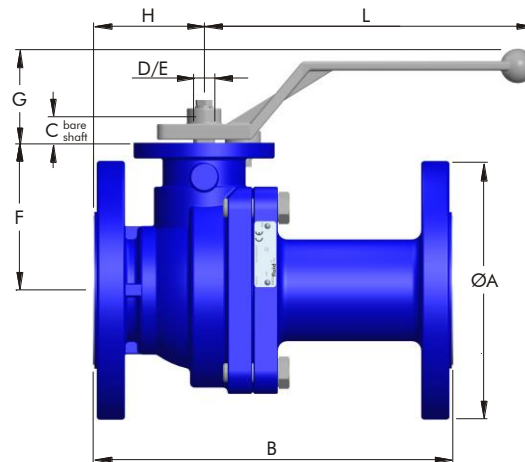
DN15 – DN100 / 1/2" - 4" full port, ceramic ball

Operating Conditions

- Temperature range from -40°C (-40°F) up to $+150^{\circ}\text{C}$ ($+300^{\circ}\text{F}$), depending on lining material
- Pressure range from 1mbar (0.01 psi) up to 16 bar (232 psi), depending on size/pressure/temperature

Manual Valve

Standard version with hand lever

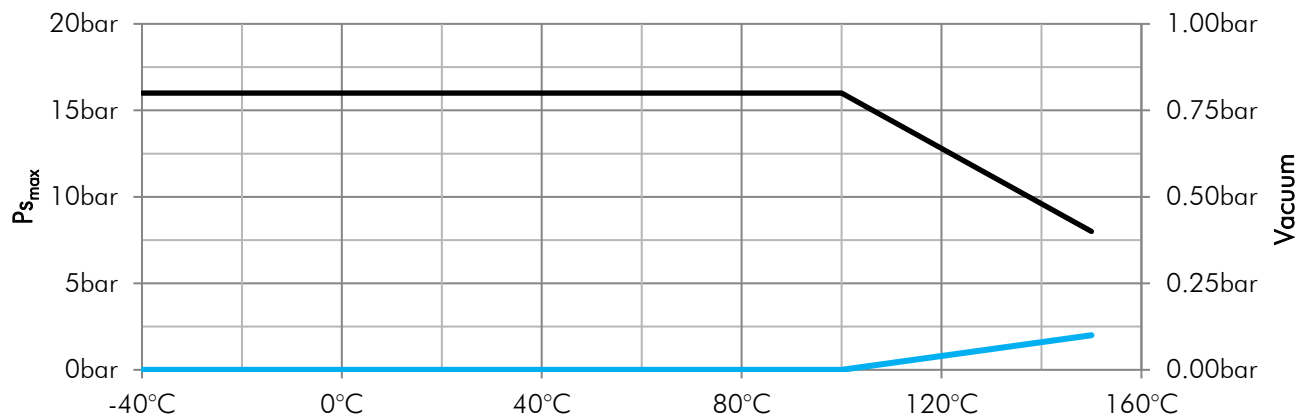


Dimensions in mm (lbs = kg x 2.2)

DN Size nom.	ØA DIN	ØA ANSI	B DIN	B ANSI	C	D dia.	E DD	F	G	H	L	ISO	kg DIN	kg ANSI	kg Handle
15/1/2"	95	95	130	130	19	14	11	64	58	50	161	F05	3.6	3.6	0.32
20/3/4"	105	105	150	150	19	14	11	66	58	50	161	F05	4.5	4.5	0.32
25/1"	115	108	160	127	19	14	11	70	58	50	161	F05	5.3	4.9	0.32
40/1 1/2"	150	127	200	165	19	14	11	87	58	64	211	F07	9.7	8.6	0.36
50/2"	165	152	230	178	19	14	11	94	58	71	211	F07	12.2	11.3	0.36
80/3"	200	190	310	203	23	18	14	115	62	81	251	F07	20.3	18.6	0.41
100/4"	220	229	350	229	23	24	17	130	62	92	315	F10	29.0	28.0	0.90

Face to face B acc. to DIN EN 558-1 range 1 resp. ASME B16.10

Pressure-/Temperature Diagram



Low temperature or austenitic steels are required for use below -10°C operating temperature.

Torque Values in Nm (in-lbs = Nm x 8.85)

Max. torque values for ceramic balls and PFA-lined bodies

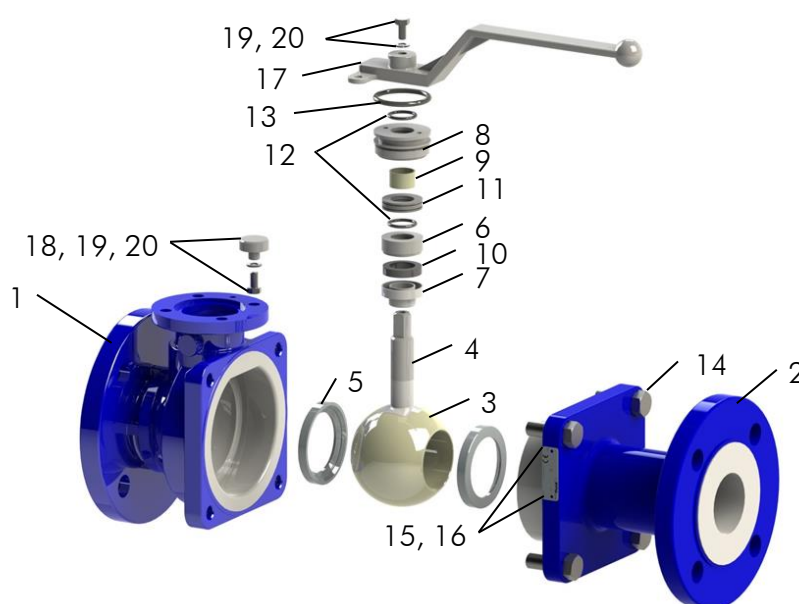
DN Size nom.	DIN15 1/2"	DIN20 3/4"	DIN25 1"	DIN40 1 1/2"	DIN50 2"	DIN80 3"	DIN100 4"
Torque nom.	8	8	12	23	30	65	95
max. allow.	24	24	36	70	90	200	300

- Stated values to be break-away torques without any consideration of safety factors (min. 1.3) for pneum. actuators.

Standard Version (Picture showing Valve DN50 PN16 WCB, PFA-lined, ceramic ball, ETFE-encaps. shaft, with handlever)

Parts List

Manual Valve compl.



Item	Qty.	Description	Material Description	Material No. DIN 17440/41
1	1	Body Half Left, lined, RAL 5005	WCB/PFA	1.0619
2	1	Body Half Right, lined, RAL 5005	WCB/PFA	1.0619
3	1	Ball solid	Ceramic	
4	1	Shaft, encapsulated	Duplex/ETFE	1.4462
5	2	Ball Seat	PTFE	
6	1	Pressure Sleeve	SS316L	1.4404
7	1	Sealing Sleeve	PTFE	
8	1	Threaded Bushing	SS316L	1.4404
9	1	Bearing	C.Steel/PTFE	
10	1	Elastomer Insert	VMQ	
11	4	Belleville Spring	Spring Steel	1.8159
12	2	O-Ring	FPM	
13	1	O-Ring	FPM	
14	4	Hex. Head Cap Screw	A2-70	1.431
15	1	Name Plate 42 x 14 CE	A2	1.4301
16	2	Hammer Screw 2.49 x 4.76	A2	1.431
17	1	Handlever	SS304	1.4308
18	1	Stop	SS316L	1.4404
19	2	Hex. Head Cap Screw	A2-70	1.431
20	2	Lock Washer	SS304	1.431