PB500 Ball valve

steam | water | heating | oil | compressed air | gas inert | gas combustible | gas corrosive

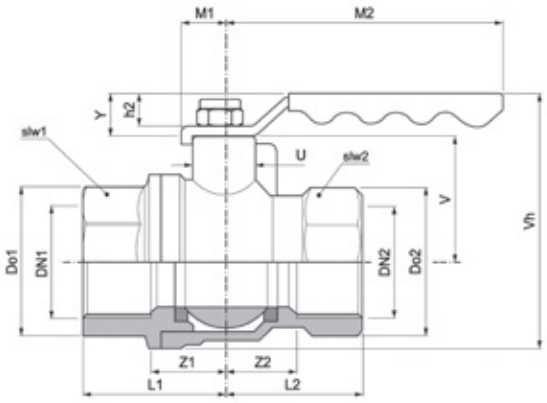


specification

- all sizes PN25
- full bore
- quarter turn operation
- blow-out and vandal-proof assembly
- yellow lever handle
- ¼" to 4" sizes
- chrome plated
- PTFE ball seals
- forged brass body
- FPM "O" ring stem seal
- ISO7-1 RC taper thread formally BS21/BSEN 10226
- ANSI (NPT) American taper thread (AT)
- ISO 228G parallel thread formally BS2779

DN	Connection	ISO7-1 Rc (taper)	ISO 288 G (PT)	ANSI (NPT) (AT)	Total (kg)	Cv	Kv	Kv gas
DN8	¼"	242101	242060	242121	0.15	6.9	5.9	3.8
DN10	⅜"	242102	242061	242122	0.15	11.0	9.4	4.2
DN15	½"	242103	242062	242123	0.23	19.9	17.0	11.3
DN20	¾"	242104	242063	242124	0.40	48.0	41.0	23.8
DN25	1"	242105	242064	242125	0.61	81.9	70.0	31.1
DN32	1 ¼"	242106	242065	242126	0.95	141.6	121.0	67.2
DN40	1 ½"	242107	242066	242127	1.33	234.0	200.0	101.5
DN50	2"	242108	242067	242128	2.18	341.6	292.0	148.0
DN65	2 ½"	242109	242068		3.75	626.0	535.0	-
DN80	3"	242110	242069		6.20	994.5	850.0	-
DN100	4"	242111	242070		10.45	1591.2	1360.0	-

*Cv - flow rate in US GPM at a pressure drop of 1 psi. *Kv - flow rate in m3 per hour at a pressure drop of 1 bar. *Kv Gas - flow rate in m3 per hour at a pressure drop of 1 mbar.



Dimensions (mm)

	Do1/Do2	DN1/DN2	h2	L1/L2	M1	M2	slw1/slw2	U	V	Vh	Y	Z1/Z2
DN8	26.0	¼"	18.0	24.0	9.0	83.0	22.0	9.0	16.0	52.0	21.0	14.0
DN10	29.0	⅜"	18.0	24.0	9.0	84.0	25.0	9.0	16.0	53.0	21.0	15.0
DN15	35.0	½"	18.0	30.0	10.0	94.0	31.0	10.0	20.0	61.0	21.0	18.0
DN20	42.0	¾"	18.0	34.0	10.0	103.0	36.0	11.0	31.0	76.0	21.0	20.0
DN25	49.0	1"	19.0	40.0	10.0	115.0	42.0	11.0	35.0	85.0	22.0	24.0
DN32	58.0	1 ¼"	19.0	48.0	11.0	130.0	50.0	12.0	42.0	97.0	22.0	29.0
DN40	69.0	1 ½"	20.0	50.0	11.0	135.0	60.0	13.0	57.0	119.0	23.0	30.0
DN50	83.0	2"	20.0	62.0	12.0	159.0	71.0	15.0	67.0	137.0	23.0	37.0
DN65	103.0	2 ½"	21.0	75.0	13.0	185.0	89.0	17.0	75.0	158.0	24.0	45.0
DN80	123.0	3"	22.0	89.0	14.0	212.0	107.0	19.0	99.0	195.0	25.0	53.0
DN100	150.0	4"	24.0	107.0	15.0	249.0	130.0	21.0	111.0	224.0	27.0	64.0

Material specification

Nr	Component	Material
1	Body, chrome plated	Forged brass (¼" to 2") Gravity die cast brass (2 ½" to 4")
2	End piece, chrome plated	Forged brass (¼" to 2") Gravity die cast brass (2 ½" to 4")
3	Ball, chrome plated	Brass bar (¼" to ½") Forged brass (¾" to 2") Gravity die cast brass (2 ½" to 4")
4	Stem	Brass bar
5	Seats	PTFE
6	Thrust washer	PTFE
7	Stem "O" ring	FPM
8	Lever handle, zinc plated	High temperature PVC insulated steel
9	Nut (self locking)	Zinc plated steel

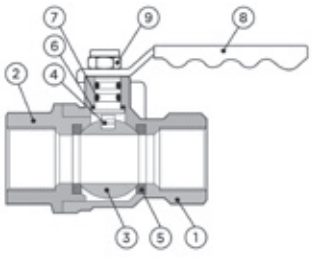
Pressure equipment directive category

Gas / compressed air applications ¼" - ¾" SEP
1" - 4" CAT1
All other applications ¼" - 4" SEP

Maximum pressure conditions

Size	Max Pressure (bar)	Min/Max Temperature (°C)	Test Pressure Shell (bar)	Test Pressure Seat (bar)	Max Pressure (psi)	Min/Max Temperature (°F)	Test Pressure Shell (psi)	Test Pressure Seat (psi)
water ¼" to 4"	25.0	- 10°C + 150°C	37.5	27.5	362.6	14°F + 302°F	543.9	398.9
Size	**Max Pressure (bar)**	**Min/Max Temperature (°C)**	**Test Pressure Shell (bar)**	**Test Pressure Seat (bar)**	**Max Pressure (psi)**	**Min/Max Temperature (°F)**	**Test Pressure Shell (psi)**	**Test Pressure Seat (psi)**
gas ¼" to 4"	5 (10*)	- 20°C + 60°C	37.5	27.5	87.0 (145*)	-4°F + 140°F	543.9	392.9

*LPG only



Pressure & temperature ratings

