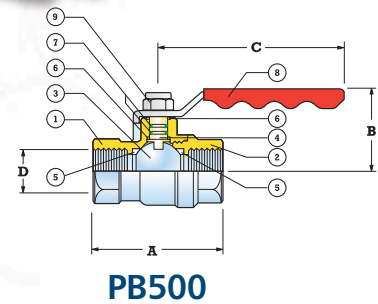


PB500 FULL BORE QUARTER TURN BALL VALVE RANGE



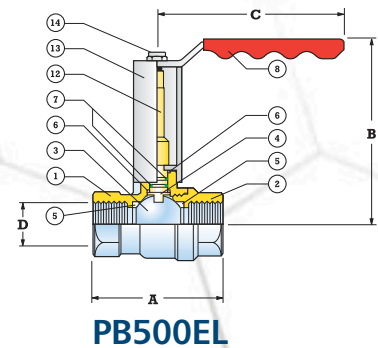
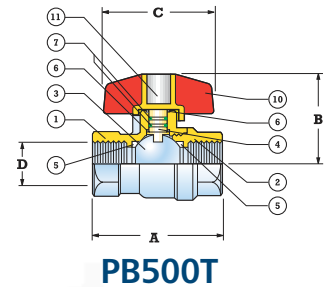
RANGE

Patt. No.	Sizes											
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
PB500	•	•	•	•	•	•	•	•	•	•	•	•
PB500 AT	•	•	•	•	•	•	•	•	•	•	•	•
PB500 PT	•	•	•	•	•	•	•	•	•	•	•	•
PB500T	•	•	•	•	•	•	•	•	•	•	•	•
PB500T AT	•	•	•	•	•	•	•	•	•	•	•	•
PB500T PT	•	•	•	•	•	•	•	•	•	•	•	•
PB500EL	•	•	•	•	•	•	•	•	•	•	•	•
PB500EL AT	•	•	•	•	•	•	•	•	•	•	•	•
PB500EL PT	•	•	•	•	•	•	•	•	•	•	•	•



DIMENSIONS (MM)

Patt. No.	Description	Sizes											
		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
PB500	A Face to Face	48	48.5	59	67.5	79.5	95	100	122	150	177	214	
	B Centre Line to Lever	35	35	39	50	55	62	77.5	84	97	122	136	
	C Lever Length	91.5	91.5	91.5	105	105	105	165	165	180	255	255	
	D Bore	10	10	15	20	25	32	40	50	65	80	100	
	Weight kg	0.15	0.15	0.23	0.41	0.62	1.11	1.57	2.32	3.83	6.60	11.56	
PB500T	A Face to Face	48	48.5	59	67.5	79.5							
	B Centre Line to Lever	36.5	36.5	40	50.5	55							
	C Lever Length	48.5	48.5	48.5	60	60							
	D Bore	10	10	15	20	25							
	Weight kg	0.16	0.16	0.24	0.42	0.63							
PB500EL	A Face to Face	48	48.5	59	67.5	79.5	95	100	122	150	177	214	
	B Centre Line to Lever	86	86	90	122	126	133	154	160	158	200	214	
	C Lever Length	91.5	91.5	91.5	105	105	105	165	165	180	255	255	
	D Bore	10	10	15	20	25	32	40	50	65	80	100	
	Weight kg	0.20	0.20	0.28	0.51	0.72	1.21	1.78	2.53	4.16	7.15	12.11	



FLOW RATES*

Description	Sizes											
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
Cv	6.9	11.0	19.9	48.0	81.9	141.6	234.0	341.6	626.0	994.5	1591.2	
Kv	5.9	9.4	17.0	41.0	70.0	121.0	200.0	292.0	535.0	850.0	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.



FEATURES

- All sizes rated PN25.
- Full bore.
- Quarter turn operation.
- Blow-out and vandal-proof assembly.
- 1/4" to 4" sizes.
- P.T.F.E. (Teflon) ball seals.
- Viton 'O' ring stem seal.
- ISO 7 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 Parallel Thread PT.

MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Forged Brass, Chrome Plated (1/4 to 2")
		Gravity Die Cast Brass, Chrome Plated (2 1/2 to 4")
2	End Piece	Forged Brass, Chrome Plated (1/4 to 2")
		Gravity Die Cast Brass, Chrome Plated (2 1/2 to 4")
3	Ball	Brass Bar, Chrome Plated (1/4 to 1/2")
		Forged Brass, Chrome Plated (3/4 to 2")
		Gravity Die Cast Brass, Chrome Plated (2 1/2 to 4")
4	Stem	Brass Bar
5	Seats	PTFE (Teflon)
6	Thrust Washer	PTFE (Teflon)
7	Stem 'O' Ring	Viton
8	Red Lever	High Temperature PVC Insulated Zinc Plated Steel
9	Nut (Self Locking)	Zinc Plated Steel
10	Red Tee Handle	Forged Brass, Painted
11	Security Screws	Nickel Plated Brass
12	Extended Stem	Brass bar
13	Extended Sleeve	Aluminium
14	Nut (Self Locking)	Zinc Plated Steel

ACCESSORIES

LD Locking Device

Locking Device	Suitability
LD 1	suits 1/4", 3/8" and 1/2"
LD 2	suits 3/4", 1" and 1 1/4"
LD 3	suits 1 1/2" and 2"
LD 4	suits 2 1/2"
LD 5	suits 3" and 4"

A range of matching long shank warded action padlocks is available to suit the locking devices as follows:

Padlock

Padlock	Suitability
PDK 3	suits 1/4", 3/8", 1/2", 3/4", 1" and 1 1/4"
PDK 4	suits 1 1/2" and 2"
PDK 5	suits 2 1/2", 3" and 4"

PRESSURE EQUIPMENT DIRECTIVE CATEGORY

Sizes											
1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP

Cat II carries the CE Mark.

SUITABLE FOR

Steam	Water	Oil	Air	Gases			
✓	✓	✓	✓	Inert	Combustible	Corrosive	Oxygen
				✗	✗	✗	✗

VACUUM CONDITIONS

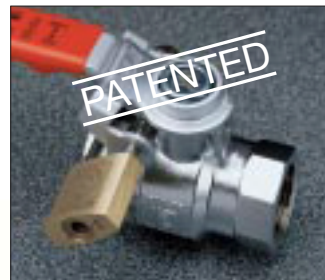
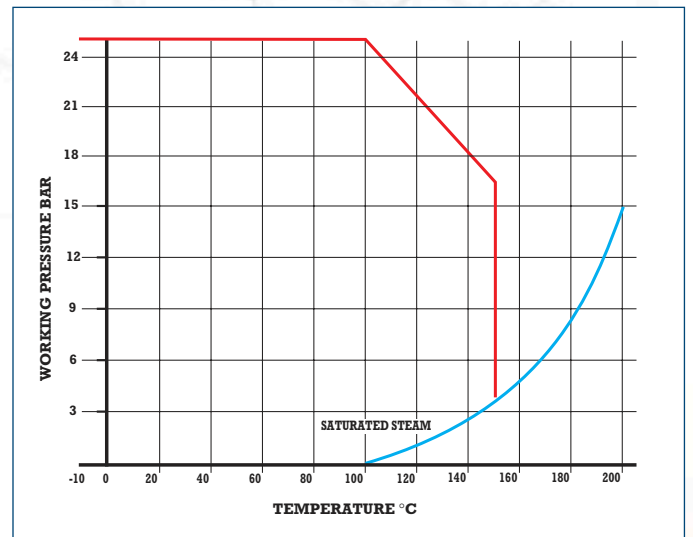
Can be used in a vacuum at 10⁻³ torr.

MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 150°C	Shell	Seat
1/4 to 4"	25.0	16.5	37.5	27.5

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°C	Temperatures up to 302°C	Shell	Seat
1/4 to 4"	362.6	293.3	543.9	398.9

PRESSURE AND TEMPERATURE RATINGS



The LD Locking Device can be utilised to prevent unauthorised operation of any standard lever handle product.

The locking device shown is type LD1 and LD2. To fit LD3, 4 and 5 the handle locking nut must be removed. The locking device is then fitted and the locking nut reattached.