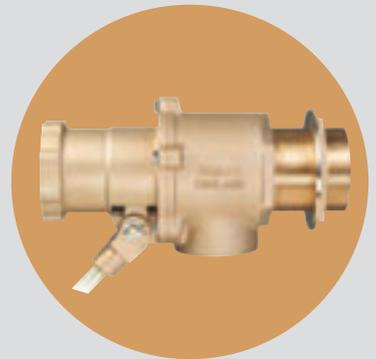


# PRESTEX

Valves and Fittings



# PEGLER QUALITY, SERVICE AND MORE THAN A CENTURY IN THE

Established in 1899 and proud of its time-honoured principles of quality, innovation and customer service, Pegler is respected the world over as one of the leading manufacturers of 21st-century plumbing and heating products – products which continue to set the standards for today's global market. Out of this great tradition has come the comprehensive Prestex range of valves and fittings.

## **Prestex quality and pedigree**

- Prestex valves and fittings have long been trusted and respected in the industry for quality, design, reliability and overall value for money.
- Robust construction under the most stringent quality control conditions assures a long working life.
- Pegler investment in advanced manufacturing techniques to complement the traditional skills of the workforce has achieved BS EN ISO 9001:2000 Quality Assurance accreditation.
- Where appropriate, Prestex products comply with kite mark British Standards or the European norm, and independent testing and certification ensure that quality is maintained.
- Every Prestex product is made to perform better and to last longer – by any standards, the one true measure of value for money.

## **Prestex innovation**

- Every valve and fitting in the Prestex range is the result of Pegler's unceasing dedication to not only finding new and better solutions to customers' needs – but also to further improving

quality and performance through new and better manufacturing techniques.

- Products such as Optiflush and Peglertherm are perfect examples of how Pegler's ongoing research and development continues to bring innovative new ideas to the marketplace.

## **Prestex service**

As with all Pegler products, the Prestex range is supported by outstanding customer service.

- Friendly and helpful telephone response.
- Computerised sales ordering and distribution.
- All the technical support and advice you could need from Pegler's expert team and dedicated helpline.

## **Market-leading Prestex fittings**

Prestex is the ideal solution for virtually all domestic and commercial applications. In fact, so comprehensive is the Prestex range that it forms the backbone of any builders merchant's plumbing stock and reputable plumber's fittings bag.

- With Prestex compression fittings you're safe and secure in the knowledge that the range is designed, manufactured and tested to meet appropriate UK and international standards, EN1254.
- Prestex fluid control solutions meet all the requirements of water regulations and include both single and double check valves for controlling the direction of water flow.
- For isolating pipes, Prestex gives you the option of compact ball-operated isolating valves or, for heavier applications, gate valves. Where flow regulation as well as isolation is required, use stop valves for in-line control and bib taps for terminal control
- An extensive range of Prestex float valves gives water level control at high and low pressures.
- More specialist Prestex products include water-saving Optiflush, temperature-safe and easy-maintenance Peglertherm, and a general range of wastes and draincocks.



# ND VALUE FOR MONEY. HE MAKING.



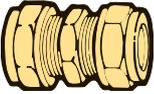
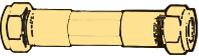
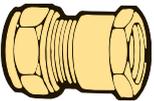
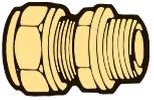
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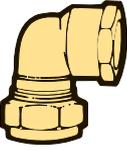
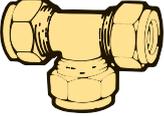
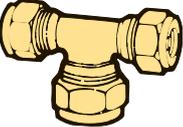
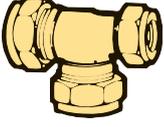
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# 4 COMPRESSION FITTINGS TYPE A – EN1254



STRAIGHT COUPLINGS	Brass	DZR* (Prefix DR)	Chromium Plated Brass (Suffix CP)
 <p><b>40</b> Straight Coupling Copper x copper</p>	8mm      22mm 10mm     22 x 15mm 10 x 8mm   28mm 12mm     28 x 15mm 15mm     28 x 22mm 15 x 8mm   35mm 15 x 10mm   42mm 15 x 12mm   54mm 18mm 18 x 15mm	15mm 22mm 28mm 35mm 42mm 54mm	15mm 22mm 28mm
 <p><b>40CO</b> Crossover Coupling Copper x copper</p>	15mm 18mm 22mm 28mm		
 <p><b>40R</b> Repair Coupling 100mm long (slip) copper x copper</p>	15mm		
 <p><b>41</b> Straight Coupling Copper x female iron</p>	8mm x 1/4"    22mm x 1/2" 10mm x 1/4"    22mm x 3/4" 10mm x 3/8"    22mm x 1" 10mm x 1/2"    28mm x 3/4" 15mm x 1/4"    28mm x 1" 15mm x 3/8"    35mm x 1 1/4" 15mm x 1/2"    42mm x 1 1/2" 15mm x 3/4"    54mm x 2"	15mm x 1/2" 15mm x 3/4" 22mm x 3/4" 22mm x 1" 28mm x 1" 35mm x 1 1/4" 42mm x 1 1/2" 54mm x 2"	15mm x 1/2" 22mm x 3/4" 28mm x 1"
 <p><b>42</b> Straight Coupling Copper x male iron</p>	8mm x 1/4"    22mm x 1/2" 10mm x 1/4"    22mm x 3/4" 10mm x 3/8"    22mm x 1" 10mm x 1/2"    28mm x 1/2" 12mm x 1/2"    28mm x 3/4" 15mm x 1/4"    28mm x 1" 15mm x 3/8"    28mm x 1 1/4" 15mm x 1/2"    35mm x 1" 15mm x 3/4"    35mm x 1 1/4" 18mm x 1/2"    42mm x 1 1/2" 18mm x 3/4"    54mm x 2"	15mm x 1/2" 22mm x 3/4" 22mm x 1" 28mm x 1" 35mm x 1 1/4" 42mm x 1 1/2" 54mm x 2"	15mm x 1/2" 22mm x 3/4" 28mm x 1"
 <p><b>42W</b> Straight Coupling Copper x male iron 38mm (1 1/2") screw with backnut</p>	15mm x 1/2" 22mm x 3/4" 28mm x 1"		
 <p><b>83</b> Straight Coupling with Draincock* (Type B) Copper x copper</p>	15mm		

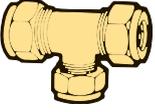
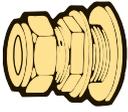
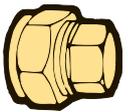
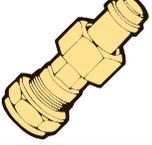
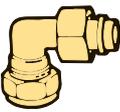
\* Not Kitemarked

ELBOWS	Brass	DZR* (Prefix DR)	Chromium Plated Brass (Suffix CP)
 <p><b>44</b> Elbow Copper x copper</p>	8mm            28mm 10mm        28 x 15mm 12mm        28 x 22mm 15mm        35mm 18mm        42mm 22mm        54mm 22 x 15mm	15mm 22mm 28mm 35mm 42mm 54mm	15mm 22mm 28mm 35mm
 <p><b>45</b> Elbow Copper x male iron</p>	10mm x 3/8"    22mm x 1" 12mm x 3/8"    28mm x 1" 12mm x 1/2"    35mm x 1 1/4" 15mm x 1/2"    42mm x 1 1/2" 22mm x 1/2"    54mm x 2" 22mm x 3/4"	15mm x 1/2" 15mm x 3/4" 22mm x 3/4" 22mm x 1" 28mm x 1"	15mm x 1/2"
 <p><b>45SD</b> Slow Bend with Draincock* Copper x male iron</p>	22mm x 3/4" 28mm x 1" Type A draincock		
 <p><b>45TP</b> Elbow with Taper Thread Copper x male iron (ISO7-R)</p>	15mm x 1/2"		
 <p><b>45W</b> Elbow Copper x male iron 38mm (1 1/2") screw with backnut</p>	22mm x 3/4"	28mm x 1"	
 <p><b>46</b> Elbow Copper x female iron</p>	15mm x 3/8"    22mm x 1" 15mm x 1/2"    28mm x 3/4" 15mm x 3/4"    28mm x 1" 18mm x 1/2"    35mm x 1 1/4" 22mm x 1/2"    42mm x 1 1/2" 22mm x 3/4"    54mm x 2"	15mm x 1/2" 22mm x 3/4" 22mm x 1" 28mm x 1"	15mm x 1/2"
TEES			
 <p><b>50</b> Equal Tee All ends for copper</p>	8mm            35mm 10mm        42mm 15mm        54mm 18mm 22mm 28mm	15mm 22mm 28mm 35mm 42mm 54mm	15mm 22mm 28mm
 <p><b>50A</b> Tee – Both Ends Reduced All ends for copper</p>	15 x 22mm	22 x 28mm	
 <p><b>50B</b> Tee – One End Reduced All ends for copper</p>	18 x 15mm 22 x 15mm 28 x 15mm 28 x 22mm		22 x 15mm 28 x 15mm 28 x 22mm

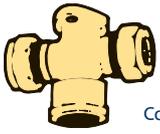
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# 6 COMPRESSION FITTINGS TYPE A – EN1254



TEES	Brass	DZR* (Prefix DR)	Chromium Plated Brass (Suffix CP)
 <p><b>50C</b> Tee – Branch Reduced All ends for copper</p>	22 x 15mm 28 x 15mm 28 x 22mm	22 x 15mm    42 x 28mm 28 x 15mm    42 x 35mm 28 x 22mm    54 x 15mm 35 x 15mm    54 x 22mm 35 x 22mm    54 x 28mm 35 x 28mm    54 x 35mm 42 x 15mm    54 x 42mm 42 x 22mm	22 x 15mm 28 x 15mm
 <p><b>50D</b> Tee – One End Reduced &amp; Branch Reduced All ends for copper</p>	18 x 15mm 22 x 15mm	22 x 15mm 28 x 22mm	22 x 15mm
 <p><b>51H</b> Heater Tee Copper branch x female iron x male iron</p>	15mm x 1/2"		
 <p><b>52</b> Tee Copper x female iron end</p>	15mm x 1/2" 22mm x 1/2" 22mm x 3/4"		15mm x 1/2"
 <p><b>54</b> Tee Copper x female iron branch</p>	15mm x 1/2"    28mm x 1/2" 18mm x 1/2"    28mm x 3/4" 22mm x 1/2"    28mm x 1" 22mm x 3/4"		
TANK CONNECTORS			
 <p><b>35</b> Flanged Tank Connector Copper x flange and backnut</p>	15mm    35mm 22mm    42mm 28mm    54mm	15mm    35mm 22mm    42mm 28mm    54mm	
STOP ENDS			
 <p><b>37</b> Stop End Copper x blank end</p>	12mm 15mm 22mm 28mm	15mm    35mm 22mm    42mm 28mm    54mm	15mm
TAP CONNECTORS			
 <p><b>43</b> Straight Swivel Tap Connector Copper x union nut</p>	15mm x 1/2" 15mm x 3/4" 22mm x 3/4"	15mm x 1/2" 22mm x 3/4"	15mm x 1/2" 22mm x 3/4"
 <p><b>43B</b> Bent Swivel Tap Connector Copper x union nut</p>	15mm x 1/2" 22mm x 3/4"	15mm x 1/2"	15mm x 1/2" 22mm x 3/4"

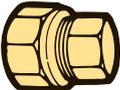
\* Not Kitemarked

WALL PLATE FITTINGS	Brass	DZR* (Prefix DR)	Chromium Plated Brass (Suffix CP)
 <p><b>54X</b> Tee with Bracket Copper x female iron branch</p>	15mm x 1/2"		
 <p><b>57X</b> Bibtap Wall Flange (3 hole) Copper x female iron</p>	15mm x 1/2"		
 <p><b>58X</b> Bibtap Wall Flange (2 hole) Copper x female iron</p>	15mm x 1/2" 22mm x 3/4"	15mm x 1/2"	15mm x 1/2" 22mm x 3/4"
REDUCERS			
 <p><b>102/3/4</b> Reducing Set* For reducing 'Type A' ends to accept smaller pipe</p>	10 x 8mm    35 x 22mm 12 x 10mm    35 x 28mm 15 x 8mm    42 x 15mm 15 x 10mm    42 x 18mm 15 x 12mm    42 x 22mm 18 x 10mm    42 x 28mm 18 x 12mm    42 x 35mm 18 x 15mm    54 x 15mm 22 x 15mm    54 x 18mm 22 x 18mm    54 x 22mm 28 x 15mm    54 x 28mm 28 x 22mm    54 x 35mm 35 x 15mm    54 x 42mm	22 x 15mm 28 x 15mm 28 x 22mm	22 x 15mm
SUNDRIES			
 <p><b>37A</b> Blanking Off Disc*</p>	15mm 22mm 28mm		
 <p><b>103</b> Brass Cone* For Type A joints</p>	6mm    22mm 8mm    28mm 10mm    35mm 12mm    42mm 15mm    54mm 18mm		
 <p><b>C103</b> Copper Cone* For Type A joints</p>	8mm    35mm 10mm    42mm 12mm    54mm 15mm    3/4" 22mm 28mm		
 <p><b>105</b> Type A Capnut For Type A joints</p>	8mm    28mm 10mm    35mm 12mm    42mm 15mm    54mm 18mm 22mm	15mm 22mm 28mm 35mm 42mm 54mm	8mm    22mm 10mm    28mm 12mm    35mm 15mm
 <p><b>114</b> Spanner* For 15mm octagonal capnut</p>	15mm		

\* Not Kitemarked

# 8 PL COMPRESSION FITTINGS FOR POLYETHYLENE PIPE

## STOP ENDS

	<b>PL37</b> Stop End Polyethylene x blank end	20mm 25mm
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## STRAIGHT COUPLINGS

	<b>PL40</b> Straight Coupling Polyethylene x polyethylene	20mm 25mm
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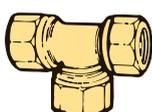
	<b>PL40</b> Straight Coupling Metric polyethylene x Imperial polyethylene	20mm x 1/2" 25mm x 3/4"
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	<b>PL40A</b> Straight Coupling Polyethylene x copper	20 x 15mm 25 x 15mm 25 x 22mm 32 x 28mm 3/8" x 15mm
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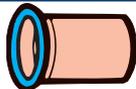
## ELBOWS

	<b>PL44</b> Elbow Polyethylene x polyethylene	20mm 25mm
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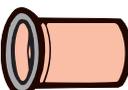
## TEES

	<b>PL50</b> Equal Tee All ends for polyethylene	20mm 25mm
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## IMPERIAL STIFFENERS

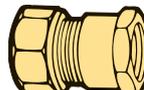
	<b>PL108</b> Stiffeners C Class (blue) For use with imperial pipe to BS 1972	3/8" 1/2" 3/4" 1"
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## METRIC STIFFENERS

	<b>PL113</b> Stiffener for MDPE	20mm 25mm 32mm 50mm 63mm
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## CAPNUTS

	<b>PL105</b> Capnuts For Prestex PL	20mm 25mm 32mm 50mm 63mm
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	<b>PL41</b> Straight Coupling Polyethylene x female iron	20mm x 1/2" 25mm x 1/2" 25mm x 3/4"
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	<b>PL42</b> Straight Coupling Polyethylene x male iron	20mm x 1/2" 25mm x 3/4"
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## WALL PLATE FITTINGS

	<b>PL58X</b> Bibtap Wall Flange (2 hole) Polyethylene x female iron	20mm x 1/2" 25mm x 3/4"
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## ADAPTORS

	<b>PL31</b> Adaptor Polyethylene x plain tail for copper	25 x 15mm
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## REDUCERS

	<b>PL102/3/4</b> Reducing Set For reducing polyethylene ends to accept smaller polyethylene pipe	25 x 20mm
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## SUNDRIES

	<b>PL103</b> Cone For Prestex PL	20mm 25mm 32mm 50mm 63mm	3/8" 1/2" 3/4" 1"
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RANGE			
Patt. No.	Description	Sizes (mm)	
		15	22
801	Single Check Valve	•	•
802	Double Check Valve	•	•
802CP	Chrome Plate Double Check Valve	•	
8028	Double Check Valve and Service valve	•	
FL1*	Filling Loop	•	
FL1 + Kit*	Filling Loop with Capping-Off Kit	•	
Kit	Capping-Off Kit for use with Pegler Filling Loops	•	

\*Comply with Water Supply (Water Fittings) Regulations 1999 R24.2

**STANDARDS**  
Single check valves are manufactured to BS 6282 Part 1.  
Double check valves are manufactured to BS 6282 Part 1.  
All check valve products are WRAS approved.

**MATERIAL**  
Single and double check valves are manufactured in dezincification resistant metal (DZR).

**PRESSURE/TEMPERATURE RATING**  
10 bar at 80°C (max working)  
0.03 bar (low test pressure)  
16 bar (high test pressure)

FLOW RATE		
Patt. No.	Sizes (mm)	
	15	22
801	0.50	0.82
802	0.47	0.90
8028	0.065	

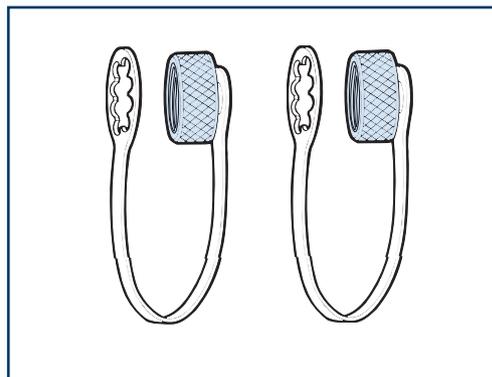
Note: Flow rate is measured in litres per second when experiencing a 0.15 bar pressure drop across the valve for single check valves, and a 0.30 bar pressure drop for double check valves.

**THREADING**  
Compression connections are to EN 1254; 15mm equates to 1/2" BSP, 22mm are unique to Prestex.

FACE TO FACE DIMENSIONS (MM)		
Patt. No.	Sizes (mm)	
	15	22
801	57	69
802	82	104
8028	102	
FL1 ‡	508	

‡ Note: The stainless steel braided hose is 406mm long.

WEIGHTS (APPROX. KG)		
Patt. No.	Sizes (mm)	
	15	22
801	0.11	0.24
802	0.18	0.23
8028	0.182	
FL1	0.45	
Kit	0.04	



**Capping-Off Kit for filling loops**



## FLOWRATE

Flow rates for servicing valves and washing machine taps are in excess of those specified in BS 6675, notably 15mm 0.16 l/s, 22mm 0.32 l/s at 0.10 bar running pressure.

## THREADING

Compression connections are to EN 1254. Female iron swivel union connections are to ISO 228 Parallel. Male connections are to ISO 228 Parallel.

## DIMENSION (MM)

### STRAIGHT PRODUCTS

Patt. No.	Size	Face to Face
806	15mm x 1/2"	57
806	22mm x 3/4"	85
808	15mm	59
808	22mm	70
809	15mm x 3/4"	51

### ANGLE PRODUCTS

Patt. No.	Size	Top of Outlet Centre Line	Outlet Centre line to bottom of inlet	Inlet Centre line to outlet
807	15mm x 1/2"	19	29	30
809B	15mm x 3/4"	28	28	34
79	1/2"	50	34	26

### TEE VALVES

Patt. No.	Size	Face to Face	Centre Line to end	Centre line to top of lever
809T	15mm x 3/4"	56	39	28

## WEIGHTS (APPROX. KG)

Patt. No.	Size	Weight
806	15mm x 1/2"	0.12
806	22mm x 3/4"	0.62
807	15mm x 1/2"	0.14
808	15mm	0.12
808	22mm	0.21
809	15mm x 3/4"	0.13
809B	15mm x 3/4"	0.10
809T	15mm x 3/4"	0.13
79	1/2"	0.22

† Export Sales only.

## RANGE

SERVICING VALVES		Sizes			
Patt. No.	Description	15	15 x 1/2"	22	22 x 3/4"
806	Straight Pattern, copper x swivel union		•		•
807	Angle Pattern, copper x swivel union		•		
808	Straight Pattern, copper x copper	•		•	

WASHING MACHINE TAPS		Size
Patt. No.	Description	15 x 3/4"
809	Straight Pattern, copper x male iron (hot and cold)	•
809B	Angle Pattern, copper x male iron (hot and cold)	•
809T	Tee Pattern, copper x male iron (hot and cold)	•

ANGLE VALVES		Size
Patt. No.	Description	1/2"
79†	Angle Pattern (hot and cold)	•

## STANDARDS

Pegler servicing valves and washing machine taps are manufactured to the performance standards of BS 6675, and 15mm 808, 15mm x 1/2" 806 and 15mm x 3/4" 809 carry WRAS approval.  
The Angle valve complies with Pegler performance standards.

## MATERIAL

All isolating valves are manufactured in Brass and Chrome plated.

## PRESSURE/TEMPERATURE RATING

**Servicing Valves/Washing Machine Taps:**  
 16 bar at 30°C  
 10 bar at 65°C  
 6 bar at 110°C  
 5 bar at 120°C  
 20 bar  
 5 bar pneumatic test

**Angle Valves:**  
 10 bar at 95°C (max working)  
 15 bar pneumatic test



59 ECCP



PL59



59



69

## RANGE

Type A Range		Sizes (mm)				
Patt. No.	Description	15	22	28	35	42 54
59	Brass Stopvalve, copper x copper	•	•	•		
59 FGK	Brass Stopvalve with ferrule guard and key, copper x copper	•	•	•		
59 ECCP	Chromium Plated Brass Stopvalve with crosstop ( hot or cold), copper x copper	•				
GM59	Stopvalve (Gunmetal body/ brass head), copper x copper	•	•	•	•	•
GM59 FGK	Stopvalve with ferrule guard and key (Gunmetal body/brass head), copper x copper		•			
69	Brass Stopvalve with Draincock, copper x copper	•				
GM69	Stopvalve with Draincock (Gunmetal body/brass head), copper x copper	•				

Metric Polyethylene Range		Sizes (mm)						
Patt. No.	Description	20x15	25x15	25x22	32x28	20	25	32
PL59	Stopvalve (Gunmetal body/brass head), polyethylene x polyethylene					•	•	•
PL59A	Stopvalve (Gunmetal body/brass head), polyethylene x copper	•	•	•	•			

Unless stated, all Compression Stopvalves are supplied with a crutch top.

## STANDARDS

All Pegler compression end stopvalves are manufactured in accordance with BS 1010.

## MATERIAL

Pegler compression end stopvalves are manufactured in Forged or Cast Brass or Gunmetal.

## PRESSURE/TEMPERATURE RATING

All sizes are rated 16 bar at 30°C (cold working)  
 15/22mm or equivalent are rated 10 bar at 90°C (max working)  
 28mm or equivalent and larger sizes are rated 10 bar at 85°C (max working)  
 All sizes – 20 bar (test pressure)

## COMPRESSION ENDS

Compression connections on all stopvalves are to EN 1254.

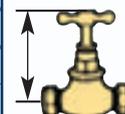
## DIMENSIONS (MM)

Patt. No.	FACE TO FACE					
	15	22	28	35	42	54
59	84		90	115		
GM59	75	90	115	125	140	165
69	97	119				
GM69	75					



Patt. No.	HEIGHT OPEN						
	20x15	25x15	25x22	32x28	20	25	32
PL59					89	105	127
PL59A	81	86	96	131			
PL69						100	

Patt. No.	HEIGHT OPEN					
	15or20	22or25	28or32	35	42	54
59	90	100	120	135	155	180
69	90	103				



Note: Heights for FGK and ECCP versions will vary slightly.

## WEIGHTS (APPROX. KG)

Patt. No.	Weights (kg)						
	15	22	28	35	42	54	
59	0.39	0.57	1.21				
69	0.49						

Patt. No.	Weights (kg)						
	20x15	25x15	25x22	32x28	20	25	32
PL59					0.48	0.80	1.37
PL59A	0.40	0.48	0.66	1.34			

Note: Weights are shown for the Gunmetal version. Brass versions are slightly lighter.

# 12 STOP VALVES FOR IRON



## RANGE

Type A Range		Sizes						
Patt. No.	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
744F	Brass Stopvalve with crutch top, female iron x female iron	•	•	•	•	•	•	•
744F IW	Brass Stopvalve with Alloy Wheel, female iron x female iron	•	•	•	•	•		
744F ECCP	Chromium Plated Brass Stopvalve with crosstop (cold), female iron x female iron	•						

Other stopvalves		Sizes		
Patt. No.	Description	1/2"	3/4"	1"
709†	Brass Stopvalve with crutch top, female iron x female iron		•	•
89†	Concealed Chromium Plated Brass Stopvalve (hot and cold), female iron x female iron		•	•

‡ Note: Supplied with iron wheel as standard.  
 † Export sales only

## STANDARDS

All Pegler Stopvalves for Iron, with the exception of the 709 and 89, are manufactured in accordance with BS 1010. The 709 and 89 comply with Pegler performance standards.

## MATERIAL

Pegler compression end stopvalves are manufactured in Forged or Cast Brass.

## PRESSURE/TEMPERATURE RATING

1/2" or 3/4" sizes are rated 16 bar at 90°C (max working)  
 1" plus sizes are rated 16 bar at 85°C (max working)  
 All sizes – 20 bar

## THREADING

Female connections on all stopvalves are to BS 21 Taper.

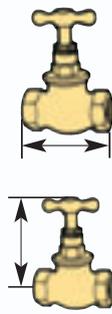
## DIMENSIONS

FACE TO FACE		Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	
744F	56.5	67	86	95	103	130	184	
709	54	63.5	77					
89	54	58.7						

MAXIMUM HEIGHT		Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	
744F	90	100	122	135	155	180	230	
709	66.5	71.5	100					
89	104	104						

Note: Dimensions for the MF version are identical to the standard 744F where as heights for IW, FGK and ECCP versions will vary slightly.



## WEIGHTS (APPROX. KG)

Weights		Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	
744F	0.34	0.52	1.08	1.64	2.11	4.03	8.40	
709	0.21	0.33	0.70					
89	0.41	0.47						

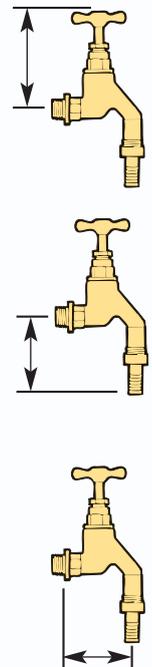
Note: Weights shown are for crutch handle versions where options exist.



RANGE			
HEAVY PATTERN BIBTAPS			
Patt. No.	Description	1/2"	3/4"
141	Brass Finish with crutch top	•	•
141EC	Chromium Plated with crosstop (hot or cold)	•	•
141HU	Hose Union Pattern, Brass Finish with crutch top (Suitable for use with 1/2" hose or 3/4" adaptors)	•	•
141HU FGK	Hose Union Pattern, Brass Finish with Ferrule Guard and Key (Suitable for use with 1/2" hose or 3/4" adaptors)	•	•
141HUEC	Chromium Plated Hose Union Pattern with crosstop (hot or cold) (Suitable for use with 1/2" hose or 3/4" adaptors)	•	
142HU	Bibplus, combined Bibtap with integral double check valve, hose union pattern with crutch top (Suitable for use with 1/2" hose or 3/4" adaptors)	•	
142HU FGK	Bibplus, combined Bibtap with integral double check valve, hose union pattern with Ferrule Guard and Key (Suitable for use with 1/2" hose or 3/4" adaptors)	•	
LIGHT PATTERN BIBTAPS			
Patt. No.	Description	1/2"	3/4"
701†	Brass Finish	•	•
723†	Hose Union Pattern, Brass Finish	•	•
723AT†	Hose Union Pattern, Brass Finish, Screwed 3/4" American thread on nose	•	

Note: All light pattern bibtaps are supplied with crutch top.  
† Export Sales only.

DIMENSIONS (MM)		
HEIGHT OPEN		
Patt. No.	1/2"	3/4"
141/142	96	101
701/723	70	80
Centre line of inlet to top of crutch Note: Heights for FGK and EC versions will vary slightly.		
DROP		
Patt. No.	1/2"	3/4"
141	16	22
141HU	61	77
142HU	76	
701	12	12
723	38	46
Centre line of inlet to outlet		
WIDTH		
Patt. No.	1/2"	3/4"
141/142	65	88
701	65	71
723	75	87
Inlet flange to centre of outlet		



STANDARDS
Heavy Pattern Bibtaps are manufactured in accordance with BS 1010.
Light Pattern Bibtaps are manufactured to Pegler performance standards.

MATERIAL
Pegler Bibtaps are manufactured in Forged or Cast Brass.

PRESSURE/TEMPERATURE RATING
10 bar at 90°C (max working)
5 bar pneumatic test

WEIGHTS (APPROX. KG)		
Patt. No.	1/2"	3/4"
141	0.39	0.64
141HU	0.48	0.78
142HU	0.50	
701	0.21	0.33
723	0.25	0.40

# 14 PB700 FULL BORE QUARTER TURN BALL VALVES

**PB700T**

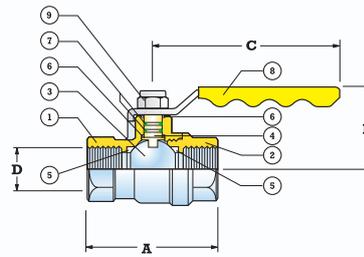


**PB700**

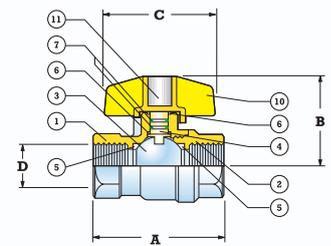


## FEATURES

- All sizes rated PN40.
- Full bore.
- Quarter turn operation.
- Blow-out and vandal-proof assembly.
- 1/4" to 4" sizes.
- P.T.F.E. (Teflon) ball seals.
- Double 'O' ring Viton stem seals.
- BS 21 Taper Thread.



**PB700**



**PB700T**

## 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"	
PB700	•	•	•	•	•	•	•	•	•	•	•	•
PB700T	•	•	•	•	•							

## DIMENSIONS (MM)

Patt. No.	Description	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
PB700	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	0.16	0.16	0.25	0.45	0.68	1.2	1.64	2.92	4.15	7.14	11.00
PB700T	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	0.14	0.26	0.27	0.49	0.72						

## 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
Kv Gas	3.8	4.2	11.3	23.8	31.1	67.2	101.5	148.0			

\* 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.

TESTED TO EN 331

1/4" to 2"



### MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 110°C	Temperatures up to 186°C	Shell	Seat
1/4" to 2"	40.0	10.0	60.0	44.0
2 1/2" to 4"	40.0	10.0	60.0	44.0

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures 212°F	Temperatures up to 389°F	Shell	Seat
1/4" to 2"	580.2	145.0	870.2	638.2
2 1/2" to 4"	580.2	145.0	870.2	638.2

### SUITABLE FOR

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

† The valves are suitable for British Gas Applications Family Gases 1, 2 and 3.  
 †† Suitable in applications where moisture is completely absent.

### GAS APPLICATIONS CONDITIONS

-20°C to +60°C maximum 5 bar. British Gas (MOP 5).  
 For LPG: maximum 10 bar.

### 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	Cat I	Cat I	Cat I	Cat I	Cat I	Cat I	

Cat I carries the CE Mark.

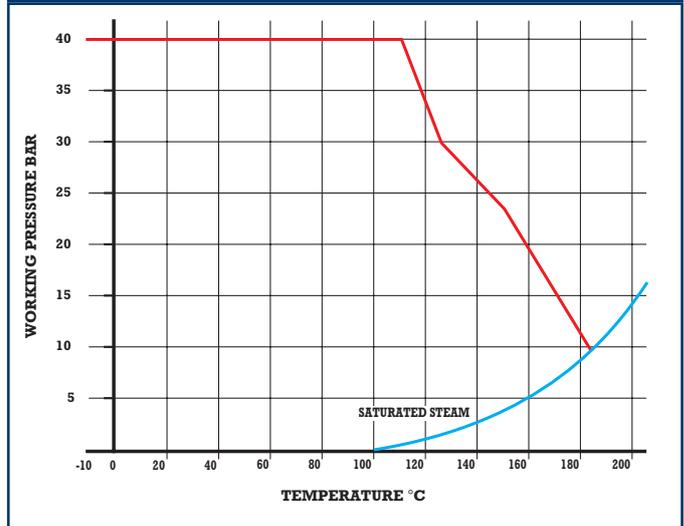
Sizes 1/4" to 2" suitable for group 1 liquids and gases.

Sizes 2 1/2" 3" and 4" suitable for group 1 gases (10 bar max) and group 2 liquids.

### 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	Yellow Lever	High Temperature PVC Insulated Zinc Plated Steel
9	Nut (Self Locking)	Zinc Plated Steel
10	Yellow Tee Handle	Aluminium, Painted
11	Security Screws	Nickel Plated Brass

### PRESSURE AND TEMPERATURE RATINGS



### 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"

#### STEM EXTENSION KITS

Stem Extension	Suitability
PBSEK 7	suits 1/4", 3/8", 1/2" and 15mm
PBSEK 8	suits 3/4", 1, 1 1/4", 22mm, 28mm and 35mm
PBSEK 9	suits 1 1/2", 2", 42mm and 54mm
PBSEK 10	suits 2 1/2"
PBSEK 11	suits 3" and 4"



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.



# 16 PB500 FULL BORE QUARTER TURN BALL VALVE RANGE – RED

**PB500T**

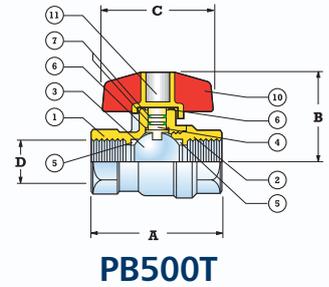
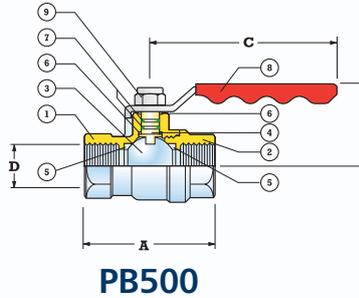


**PB500**



## 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 seals.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 Parallel Thread PT.



## 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 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	0.24	0.44	0.63	1.15	1.61	2.79	3.80	6.79	10.85	
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	0.25	0.27	0.31	0.60	0.80							

## 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 m<sup>3</sup> per hour at a pressure drop of 1 bar.

### 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°F	Temperatures up to 302°F	Shell	Seat
1/4" to 4"	362.6	293.3	543.9	398.9

### SUITABLE FOR

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

### PRESSURE EQUIPMENT DIRECTIVE CATEGORY

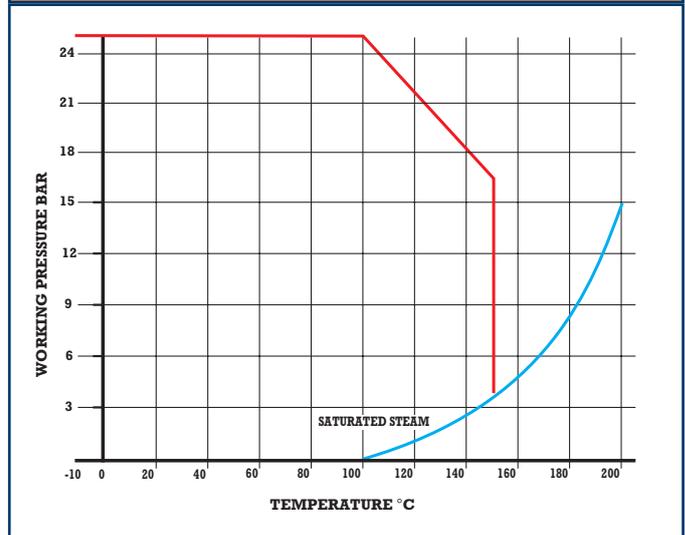
Sizes										
1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP

Suitable for group 2 liquids only.

### 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	Aluminium, Painted
11	Security Screws	Nickel Plated Brass

### PRESSURE AND TEMPERATURE RATINGS



### 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"

#### STEM EXTENSION KITS

Stem Extension	Suitability
PBSEK 7	suits 1/4", 3/8", 1/2" and 15mm
PBSEK 8	suits 3/4", 1, 1 1/4", 22mm, 28mm and 35mm
PBSEK 9	suits 1 1/2", 2", 42mm and 54mm
PBSEK 10	suits 2 1/2"
PBSEK 11	suits 3" and 4"



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.



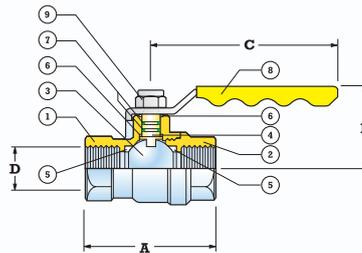
# 18 PB500 YELLOW FULL BORE QUARTER TURN BALL VALVE RANGE



PB500 Yellow

## 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 seals.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).



## 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 YELLOW	•	•	•	•	•	•	•	•	•	•	•	•
PB500 AT YELLOW			•	•	•	•	•	•				

## 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	0.24	0.44	0.63	1.15	1.61	2.79	3.80	6.79	10.85

## 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 m<sup>3</sup> per hour at a pressure drop of 1 bar.

TESTED TO EN 331  
1/4" to 2"



### 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°F	Temperatures up to 302°F	Shell	Seat
1/4" to 4"	362.6	293.3	543.9	398.9

### SUITABLE FOR

Steam	Water	Oil	Air†	Gases			
✓	✓	✓	✓	Inert	Combustible†	Corrosive††	Oxygen
				✓	✓	✓	X

† The valves are suitable for British Gas Applications Family Gases 1, 2 and 3.  
†† Suitable in applications where moisture is completely absent.

### GAS APPLICATIONS CONDITIONS

-20°C to +60°C maximum 5 bar. British Gas (MOP 5).  
for LGP maximum 10 bar.

### 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	CAT I	CAT I	CAT I	CAT I	CAT I	CAT I	

Cat I carries the CE Mark.

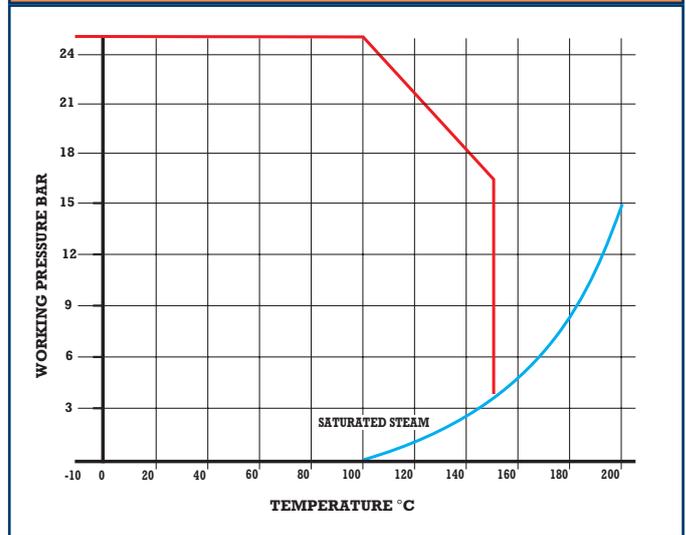
Sizes 1/4" to 3" are suitable for group 1 liquids and gases.

Sizes 4" is suitable for group 1 gas (10 bar max) and group 2 liquids.

### 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	Yellow Lever	High Temperature PVC Insulated Zinc Plated Steel
9	Nut (Self Locking)	Zinc Plated Steel

### PRESSURE AND TEMPERATURE RATINGS



### 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"

#### STEM EXTENSION KITS

Stem Extension	Suitability
PBSEK 7	suits 1/4", 3/8", 1/2" and 15mm
PBSEK 8	suits 3/4", 1, 1 1/4", 22mm, 28mm and 35mm
PBSEK 9	suits 1 1/2", 2", 42mm and 54mm
PBSEK 10	suits 2 1/2"
PBSEK 11	suits 3" and 4"



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.



# 20 PB300 FULL BORE QUARTER TURN BALL VALVE RANGE



PB300T

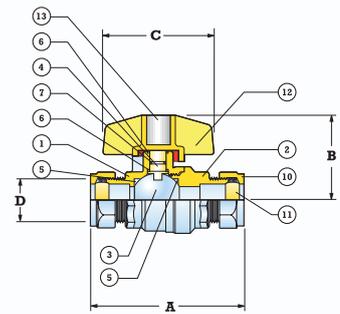
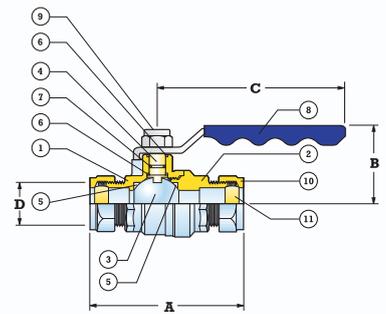


PB300



RANGE						
Sizes						
Patt. No.	15	22	28	35	42	54
PB300	•	•	•	•	•	•
PB300T	•	•	•			

DIMENSION (MM)							
Sizes							
Patt. No.	Description	15	22	28	35	42	54
PB300	A Face to Face	77.5	88	96	119	132.5	161.5
	B Centre Line to Lever	39	50	55	62	77.5	84
	C Lever Length	91.5	105	105	105	165	165
	D Bore	15	20	25	32	40	50
	Weight kg	0.28	0.48	0.73	1.32	1.92	3.24
PB300T	A Face to Face	77.5	88	96			
	B Centre Line to Lever	40	50.5	55			
	C Lever Length	48.5	60	60			
	D Bore	15	20	25			
	Weight kg	0.30	0.52	0.77			



FLOW RATES*						
Sizes						
Description	15	22	28	35	42	54
Cv	19.9	48.0	81.9	141.6	234.0	341.6
Kv	17.0	41.0	70.0	121.0	200.0	292.0

\* Cv – flow rate in US GPM at a pressure drop of 1 psi.  
 \* Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

SUITABLE FOR							
Steam	Water	Oil	Air	Gases			
✓	✓	✓	✓	Inert	Combustible†	Corrosive††	Oxygen
				✓	✓	✓	X

† The valves are suitable for British Gas Applications Family Gases 1, 2 and 3.  
 †† Suitable in applications where moisture is completely absent.

**GAS APPLICATIONS CONDITIONS**  
 -20°C to +60°C maximum 5 bar. British Gas (MOP 5).  
 For LPG: maximum 10 bar

TESTED TO EN 331



Yellow Lever and Tee  
15, 22 and 28mm

### FEATURES

- All sizes rated PN16.
- Full bore.
- Quarter turn operation.
- Blow-out and vandal-proof assembly.
- 15mm to 54mm sizes.
- P.T.F.E. (Teflon) ball seals.
- Viton 'O' ring stem seals.
- Choice of red, yellow or blue sleeve.
- Prestex compression ends to EN 1254/2 (formerly BS 864/2).

### MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 30°C	Temperatures up to 120°C	Shell	Seat
15mm to 54mm	16.0	5.0	24.0	17.6

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 86°F	Temperatures up to 248°F	Shell	Seat
15mm to 54mm	232.1	72.5	348.1	253.8

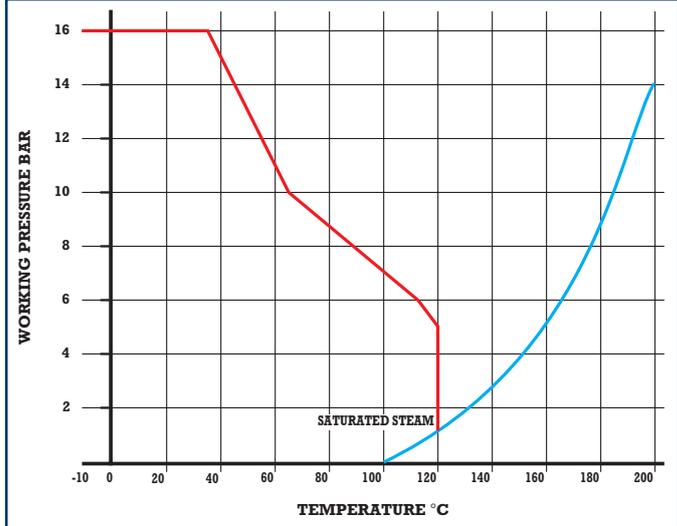
### PRESSURE EQUIPMENT DIRECTIVE CATEGORY

Sizes					
15	22	28	35	42	54
SEP	SEP	SEP	SEP	SEP	SEP

### MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Forged Brass, Chrome Plated (15 to 54mm)
2	End Piece	Forged Brass, Chrome Plated (15 to 54mm)
3	Ball	Brass Bar, Chrome Plated (15mm)
		Forged Brass, Chrome Plated (22 to 54mm)
4	Stem	Brass Bar
5	Seats	PTFE (Teflon)
6	Thrust Washer	PTFE (Teflon)
7	Stem 'O' Ring	Viton
8	Lever (Red, Yellow or Blue)	High Temperature PVC Insulated Zinc Plated Steel
9	Nut (Self Locking)	Zinc Plated Steel
10	Compression Nut	Forged Brass, Chrome Plated
11	Compression Cone	Brass
12	Tee Handle (Red, Blue or Yellow)	Aluminium, Painted
13	Security Screw	Nickel Plated Brass
14	Extended Stem	Brass Bar
15	Extended Sleeve	Aluminium
16	Nut (Self Locking)	Zinc Plated Steel

### PRESSURE AND TEMPERATURE RATINGS



### ACCESSORIES

#### LD LOCKING DEVICE

Locking Device	Suitability
LD 1	suits 15mm
LD 2	suits 22mm, 28mm and 35mm
LD 3	suits 42mm and 54mm

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

#### PADLOCK

Padlock	Suitability
PDK 3	suits 22mm, 28mm and 35mm
PDK 4	suits 42mm and 54mm

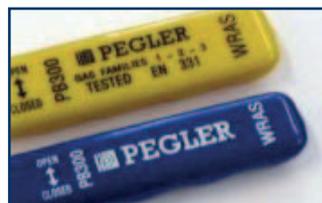
#### STEM EXTENSION KITS

Stem Extension	Suitability
PBSEK 7	suits 15mm
PBSEK 8	suits 22mm, 28mm and 35mm
PBSEK 9	suits 42mm and 54mm



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.



#### OPTIONAL HANDLES

**YELLOW LEVER** – For visual identification of gas applications. Standard lever only on sizes 15mm-28mm. EN 331 TESTED.

**BLUE LEVER** – For visual identification of cold water applications. Standard lever only on sizes 15mm-54mm.



**YELLOW TEE HANDLE** – For visual identification of gas applications only on sizes 15mm-28mm. EN 331 TESTED.

**BLUE TEE HANDLE** – For visual identification of cold water applications only on sizes 15mm-28mm.



# 22 PB100 FULL BORE QUARTER TURN BALL VALVE RANGE

## FEATURES

- Brass body.
- Full bore.
- Quarter turn operation.
- Blow-out vandal-proof assembly.
- 1/2" to 2" sizes
- PTFE ball seals.
- Nitrile 'O' ring seals.
- BS 21 Taper Thread.
- ISO 228 (BS 2779) Parallel Thread.
- ANSI (NPT) American Thread.
- Chrome plated finish.
- PN25 rated.



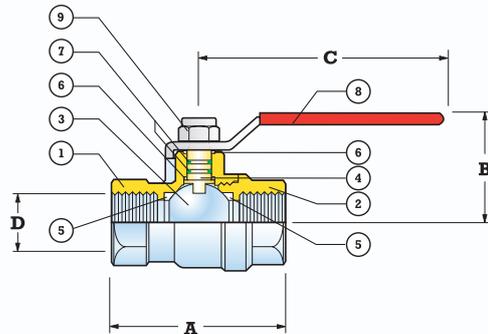
PB100

## RANGE

Patt. No.	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
PB100	•	•	•	•	•	•
PB100PT	•	•	•	•	•	•
PB100AT	•	•	•	•	•	•

## DIMENSIONS (MM)

Description	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	50	58	69	81	88.5	110
B Centre Line to Lever	46	50	52	70	76	83
C Lever Length	100	100	110	135	135	165
D Port Bore	14.5	19	25	30	38	47.5
Weight kg	0.176	0.25	0.38	0.624	0.84	1.45



## FLOW RATES\*

	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv	19.9	48.0	81.9	141.6	234.0	341.6
Kv	17.0	41.0	70.0	121.0	200.0	292.0

\* 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.

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 120°C	Temperatures up to 20°C	Shell	Seat
1/2" to 2"	4.0	25.0	37.5	27.5

## SUITABLE FOR

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

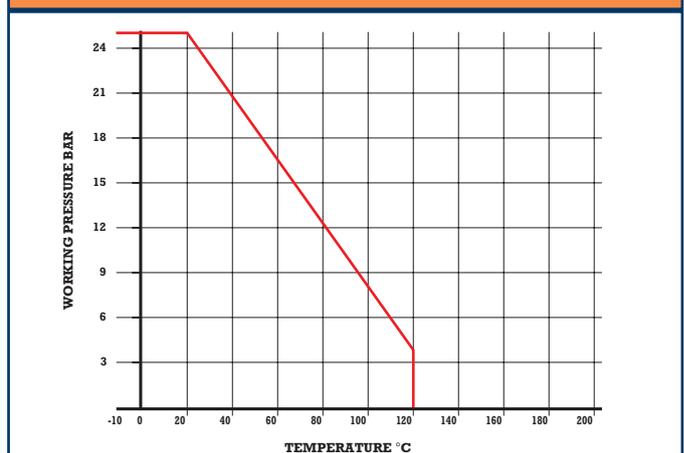
## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

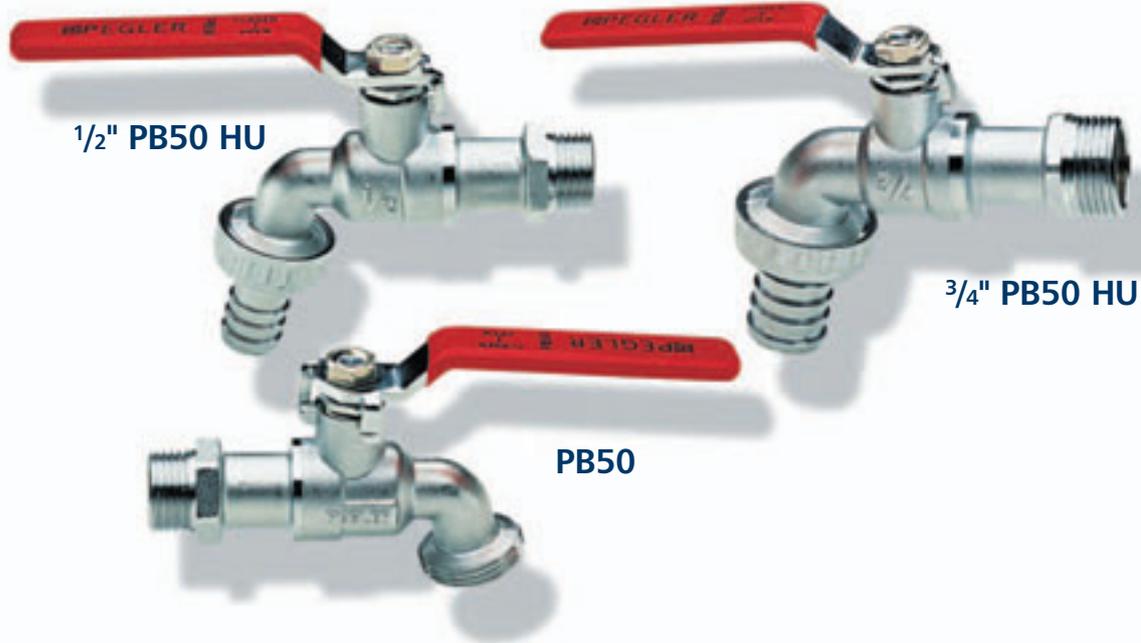
Sizes					
1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
SEP	SEP	SEP	SEP	SEP	SEP

## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Brass
2	End Piece	Brass
3	Ball	Chrome Plated Brass
4	Stem	Brass
5	Seats	PTFE
6	Friction Washer	PTFE
7	'O' Rings	Nitrile Rubber
8	Lever	Dip-Coated on CP Steel
9	Handle Nut	Steel

## PRESSURE & TEMPERATURE RATINGS





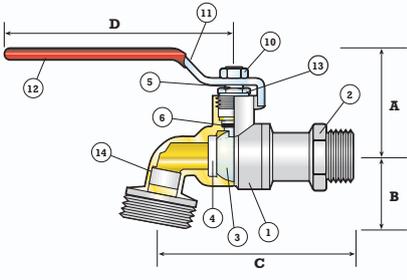
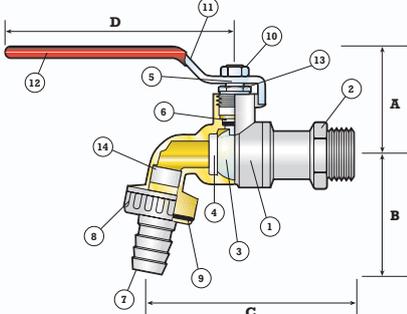
FEATURES	
•	Chrome plated Brass.
•	Quarter turn operation.
•	Inlet thread BS 2779 Parallel.
•	Ball valve operation.
•	1/2" and 3/4" with hose connection.
•	1/2" option with 3/4" AT hose thread (PB50).
•	PN16 rated.

RANGE		
Patt. No.	Sizes	
	1/2"	3/4"
PB50 HU	•	•
PB50	•	-

DIMENSIONS (MM)		
Description	Sizes	
	1/2"	3/4"
A Centre Line to Top of Lever	45	45
B Centre Line to End of Tailpipe/Outlet	45	50
C Inlet to Centre of Outlet	PB50 HU	89
	PB50	86
D Centre of Spindle to End of Lever	93	93
Weight kg	PB50 HU	0.257
	PB50	0.220

MAXIMUM PRESSURE CONDITIONS			
Size	Maximum Pressure Conditions (bar)		
	Temperatures up to 60°C		Temperatures up to 100°C
1/2"	16	8	8
3/4"	16	8	8
1/2" x 3/4"	16	8	8

SUITABLE FOR							
Steam	Water	Oil	Air	Gases			
				Inert	Combustible	Corrosive	Oxygen
X	✓	✓	X	X	X	X	X



MATERIAL SPECIFICATION		
No.	Component	Material
1	Body	MS58 Brass
2	Cap	MS58 Brass
3	Ball	MS58 Brass
4	Ball Seal	PTFE
5	Spindle	MS58 Brass
6	Spindle Seal	NBR
7	Hose Pipe	MS58 Brass
8	Hose Nut	MS58 Brass
9	Hose Union 'O' Ring	NBR
10	Lever Nut	Brass
11	Lever	A3 Steel
12	Lever Grip	PVC
13	Gland Nut	MS58 Brass
14	Flow Straightener	Polyethylene

# 24 PB52 HU BRASS BALL VALVE BIB TAPS

3/4" PB52 HU



1/2" PB52 HU



## FEATURES

- Chrome plated Brass.
- Quarter turn operation.
- 20mm long inlet thread BS 2779 Parallel.
- Ball valve operation.
- 1/2" and 3/4" with hose connection.
- PN16 rated.
- Black cast lever.
- Lockable in a closed position.
- Suitable for drum and tank fitting.

## RANGE

Patt. No.	Sizes	
	1/2"	3/4"
PB52 HU	•	•

## DIMENSIONS (MM)

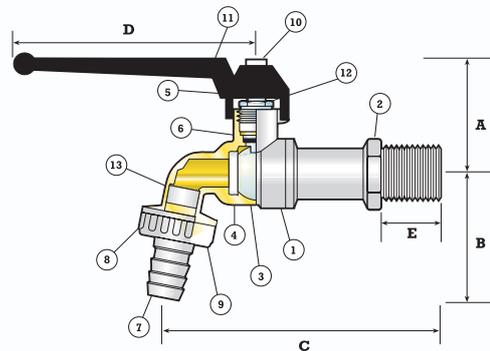
Description	Sizes	
	1/2"	3/4"
A Centre Line to Top of Lever	45	45
B Centre Line to End of Tailpipe/Outlet	45	50
C Inlet to Centre of Outlet	105	105
D Centre of Spindle to End of Lever	88	88
E Inlet Tail	20	20
Weight kg	0.28	0.36

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)	
	Temperatures up to 60°C	Temperatures up to 100°C
1/2"	16	8
3/4"	16	8

## SUITABLE FOR

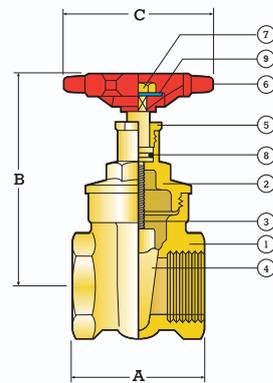
Steam	Water	Oil	Air	Gases			
X	✓	✓	X	Inert	Combustible	Corrosive	Oxygen
				X	X	X	X



## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	MS58 Brass
2	Cap	MS58 Brass
3	Ball	MS58 Brass, Chromium Plated
4	Ball Seal	PTFE
5	Spindle	MS58 Brass
6	Spindle Seal	NBR
7	Hose Pipe	MS58 Brass
8	Hose Nut	MS58 Brass
9	Hose Union 'O' Ring	NBR
10	Lever Securing Screw	Brass, Chromium Plated
11	Lever	Cast Aluminium, Painted Black
12	Gland Nut	MS58 Brass
13	Flow Straightener	Polyethylene

1065



## FEATURES

- Non-rising stem.
- 'O' Ring gland packing seal.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).

## RANGE

Patt. No.	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1065	•	•	•	•	•	•
1065AT	•	•	•	•	•	•

## DIMENSIONS

Description	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	46	50	57	64	68	81
B Height	70	80	95	115	125	155
C H'wheel Diam	60	60	70	85	95	105
Weight kg	0.27	0.37	0.58	0.94	1.19	2.09

## FLOW RATES\*

	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv	16.4	37.4	66.7	105.3	150.9	269.1
Kv	14.0	32.0	57.0	90.0	129.0	230.0

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 25°C	Temperatures up to 93°C	Shell	Seat
1/2" to 2"	17.5	17.5	26.3	19.3

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 77°F	Temperatures up to 200°F	Shell	Seat
1/2" to 2"	253.8	253.8	381.5	279.5

## SUITABLE FOR

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

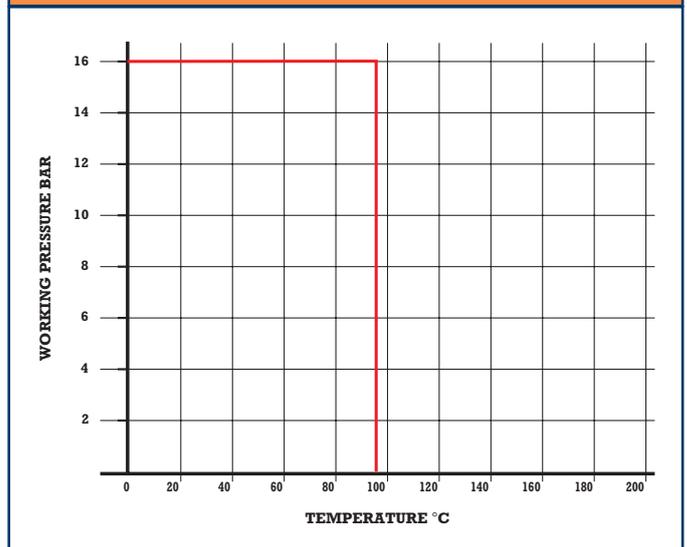
## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

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

## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Forged Brass
2	Bonnet	Forged Brass
3	Stem	Brass Bar
4	Wedge	Forged Brass
5	Gland Screw	Brass Bar
6	Handwheel	Aluminium
7	Handwheel Nut	Brass Bar
8	'O' Rings	Nitrile Rubber
9	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



## FEATURES

- BS 5154 PN20 Series B.
- Non-rising stem.
- Solid wedge.
- High quality PTFE packing.
- Can be re-packed under pressure.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT)
- ISO 228 Parallel Thread
- Lockshield option

## RANGE

Patt. No.	Sizes								
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
1068	•	•	•	•	•	•	•	•	•
1068AT	•	•	•	•	•	•	•	•	•
1068PT	•	•	•	•	•	•	•	•	
1068LS	•	•	•	•	•	•			

## DIMENSIONS

Description	Sizes								
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A Face to Face	52	56	65	73	76	90	102	114	134
B Height	85	95	110	125	145	170	205	240	290
C H'wheel Diam.	60	60	70	75	95	105	120	155	155
Weight kg	0.31	0.46	0.72	1.07	1.33	2.45	3.38	5.17	8.84

## FLOW RATES\*

Description	Sizes								
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Cv	16.4	37.4	66.7	105.3	150.9	269.1	500.8	795.6	1273.0
Kv	14.0	32.0	57.0	90.0	129.0	230.0	428.0	680.0	1088.0

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 180°C	Shell	Seat
1/2" to 4"	20.0	9.0	30.0	22.0

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 356°F	Shell	Seat
1/2" to 4"	290.1	130.5	435.1	319.1

## SUITABLE FOR

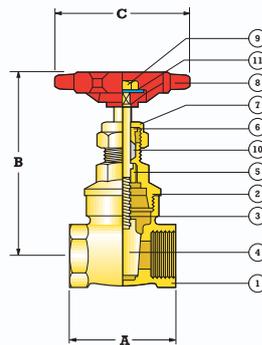
Steam	Water	Oil	Air	Gases			
✓	✓	✓	✗	Inert	Combustible	Corrosive	Oxygen
				✗	✗	✗	✗

Special test required for air or gas.

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

Sizes								
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

1068

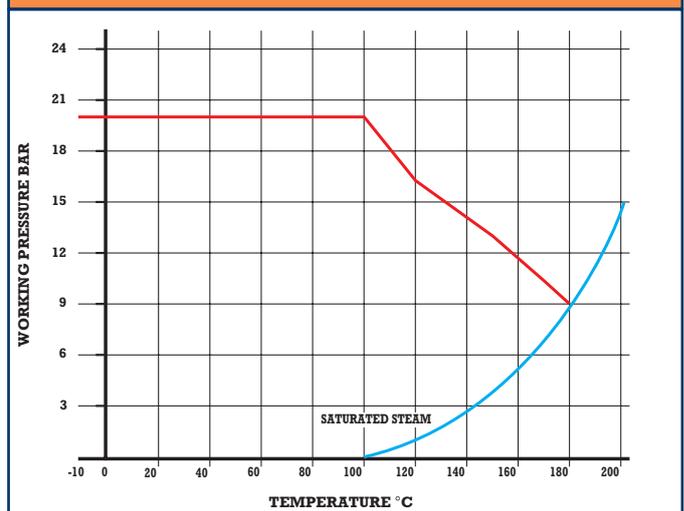


1068 Lockshield

## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Forged Brass (1/4" to 2")
		Gravity Die Cast Brass (2 1/2" to 4")
2	Bonnet	Forged Brass (1/4" to 3")
		Gravity Die Cast Brass (4")
3	Stem	Brass Bar
4	Wedge	Forged Brass (1/4" to 2 1/2")
		Gravity Die Cast Brass (3 & 4")
5	Stem Ring	Brass Bar
6	Gland	Brass Bar
7	Gland Nut	Brass Bar (1/4" to 1")
		Forged Brass (1 1/4" to 4")
8	Handwheel	Aluminium
9	Handwheel Nut	Brass Bar
10	Gland Packing	PTFE
11	Rating Disc	Aluminium
12	Lockshield	Brass Bar

## PRESSURE & TEMPERATURE RATINGS



## FEATURES

- BS 5154 PN32 Series B.
- Non-rising stem.
- Gunmetal wedge, head, stem and stem ring.
- High quality PTFE packing.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 Parallel Thread.

## RANGE

Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1072	•	•	•	•	•	•
1072AT	•	•	•	•	•	•
1072PT	•	•	•	•	•	•

## DIMENSIONS

Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	64	65	75	90	97	105
B Height	100	110	130	145	165	200
C H'wheel Diam.	70	75	85	95	120	120
Weight kg	0.47	0.69	1.02	1.57	2.44	3.43

## FLOW RATES\*

Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv	16.4	37.4	66.7	105.3	150.9	269.1
Kv	14.0	32.0	57.0	90.0	129.0	230.0
Kv GAS	9.3	18.6	25.3	50.0	65.5	116.6

\*Cv – flow rate in US GPM at a pressure drop of 1 psi.

\*Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

\*Kv Gas – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 mbar.

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 198°C	Shell	Seat
1/2" to 2"	32.0	14.5	48.0	35.2

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 389°F	Shell	Seat
1/2" to 2"	464.1	210.3	696.2	510.5

## SUITABLE FOR

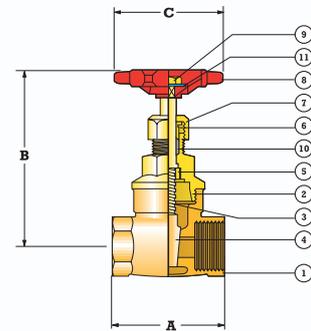
Steam	Water	Oil	Air	Gases			
✓	✓	✓	✗	Inert	Combustible	Corrosive	Oxygen
				✗	✗	✗	✗

Special test required for air or gas.

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

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

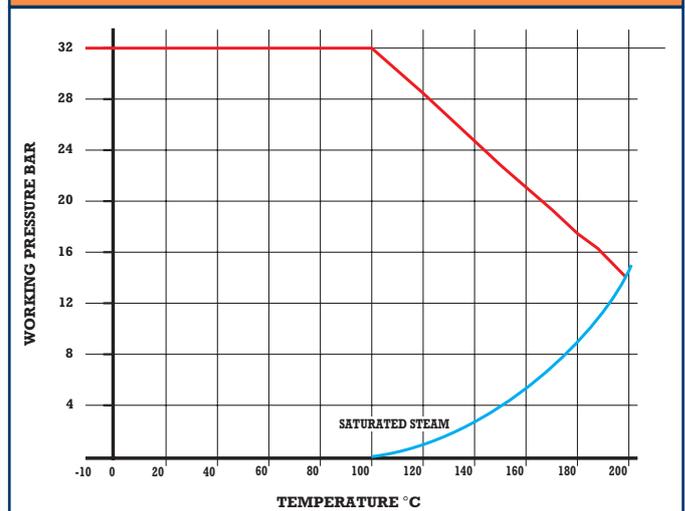
1072



## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Gunmetal
2	Bonnet	Gunmetal
3	Stem	Gunmetal
4	Wedge	Gunmetal
5	Stem Ring	Gunmetal
6	Gland	Brass Bar
7	Gland Nut	Brass Bar
8	Handwheel	Aluminium
9	Handwheel Nut	Brass Bar
10	Gland Packing	PTFE
11	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



# 28 1070/125 BRONZE FULL BORE GATE VALVE RANGE



1070/125

## FEATURES

- BS 5154 PN20 Series B.
- Non-rising stem.
- Solid Gunmetal wedge.
- High quality PTFE packing.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 (BS 2779) Parallel Thread PT.

## 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"
1070/125	•	•	•	•	•	•	•	•	•	•	•
1070/125AT											
1070/125PT			•	•	•	•	•	•	•	•	•

## DIMENSION (MM)

Patt. No.	Sizes										
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A Face to Face	43	43	52	56	65	73	76	90	102	114	134
B Height	85	85	85	95	110	125	145	170	205	240	290
C H'wheel Diam.	60	60	60	60	70	75	95	105	120	155	155
Weight kg	0.24	0.25	0.32	0.46	0.69	1.03	1.40	2.28	3.68	5.42	10.59

## FLOW RATES\*

Patt. No.	Sizes										
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Cv	5.5	8.8	16.4	37.4	66.7	105.3	150.9	269.1	500.8	795.6	1273.0
Kv	4.7	7.5	14.0	32.0	57.0	90.0	129.0	230.0	428.0	680.0	1088.0

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 180°C	Shell	Seat
1/4" to 4"	20.0	9.0	30.0	22.0

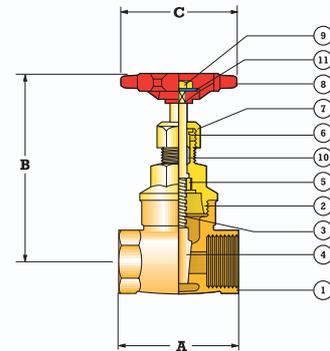
Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 356°F	Shell	Seat
1/4" to 4"	290.1	130.5	435.1	319.1

## SUITABLE FOR

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

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

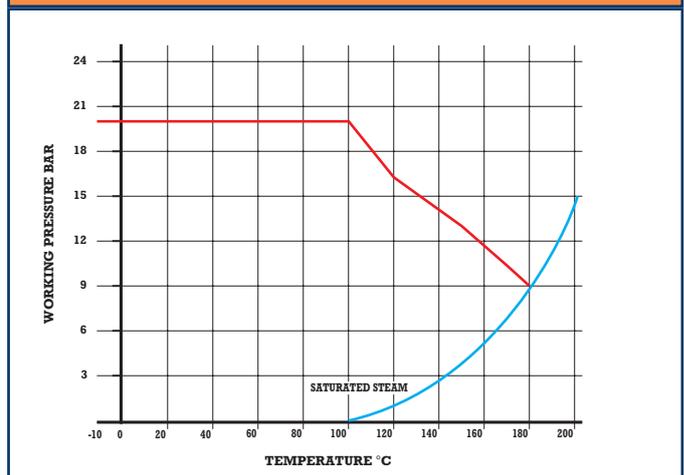
Sizes											
1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP



## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Gunmetal
2	Bonnet	Forged Brass (1/4 to 3")
		Gravity Die Cast Brass (4")
3	Stem	Brass Bar
4	Wedge	Gunmetal
5	Stem Ring	Brass Bar
6	Gland	Brass Bar
7	Gland Nut	Brass Bar (1/4 to 1")
		Forged Brass (1 1/4 to 4")
8	Handwheel	Aluminium
9	Handwheel Nut	Brass Bar
10	Gland Packing	PTFE
11	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS





15mm to 35mm  
(Brass)

**FEATURES**

- Available in a choice of Bronze or Brass.
- Non-rising stem.
- Solid wedge.
- Compression ends.
- High quality PTFE packing.
- All sizes available with Lockshield.
- Prestex compression ends to EN 1254/2 (formerly BS 864/2).

**RANGE**

		Sizes					
Patt. No.		15	22	28	35	42	54
63	Brass Gate Valve, copper x copper	•	•	•	•		
63LS	Brass Lockshield Gate Valve, copper x copper	•	•	•			
GM63	Gunmetal Gate Valve, copper x copper	•	•	•	•	•	•
GM63 LS	Gunmetal Lockshield Gate Valve, copper x copper	•	•				

**DIMENSIONS (MM)**

Sizes						
Description	15	22	28	35	42	54
A Face to Face	72	81	90	107	113	129
B Height	83	93	111	124	146	174
C 'H'wheel Diam.	60	60	70	75	95	105
63 Weight kg	0.31	0.47	0.65	1.26	-	-
GM63 Weight kg	0.32	0.48	1.18	1.16	1.60	2.70

**FLOW RATES\***

Sizes						
	15	22	28	35	42	54
Cv	16.4	37.4	66.7	105.3	150.9	269.1
Kv	14.0	32.0	57.0	90.0	129.0	230.0

\* Cv – flow rate in US GPM at a pressure drop of 1 psi.  
\* Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

**MAXIMUM PRESSURE CONDITIONS**

Size	Maximum Pressure Conditions (bar)		Test Pressures (psi)	
	Temperatures up to 30°C	Temperatures up to 120°C	Shell	Seat
15 to 54	16.0	5.0	24.0	17.5

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 77°F	Temperatures up to 200°F	Shell	Seat
15 to 54	232.1	72.5	348.1	253.8

**SUITABLE FOR**

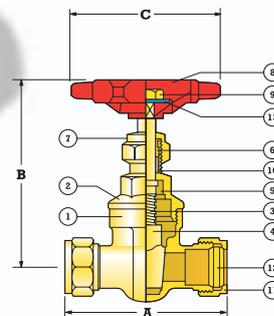
Steam	Water	Oil	Air	Gases			
X	✓	✓	X	Inert	Combustible	Corrosive	Oxygen
				X	X	X	X



63



63LS



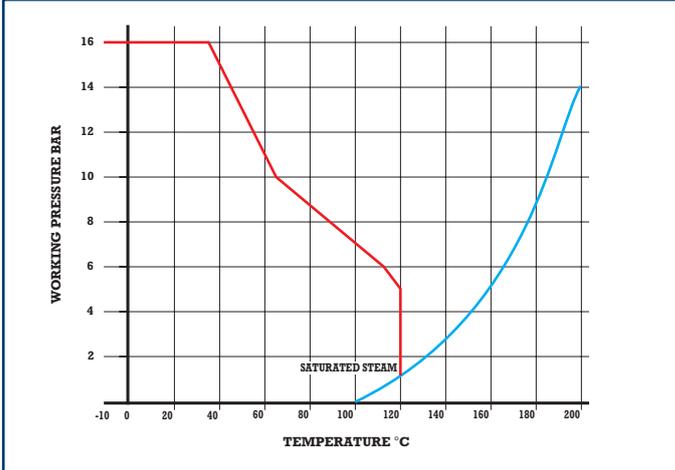
**MATERIAL SPECIFICATION**

No.	Component	Material
1	Body	Brass
		Gunmetal (GM)
2	Bonnet	Forged Brass
3	Stem	Brass Bar
4	Wedge	Brass
		Gunmetal (GM)
5	Stem Ring	Brass Bar
6	Gland	Brass Bar
7	Gland Nut	Brass Bar (15 and 22mm)
		Forged Brass (28 to 54mm)
8	Handwheel	Aluminium
9	Handwheel Nut	Brass Bar
10	Compression Nut	Forged Brass
11	Compression Cone	Brass
12	Rating Disc	Aluminium
13	Lockshield	Brass Bar

**PRESSURE EQUIPMENT DIRECTIVE CATEGORY**

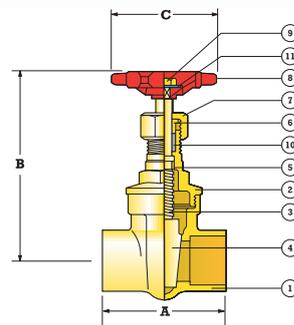
Sizes					
15	22	28	35	42	54
SEP	SEP	SEP	SEP	SEP	SEP

**PRESSURE & TEMPERATURE RATINGS**



# 30 P81M BRASS FULL BORE GATE VALVE RANGE

P81M



## FEATURES

- Non-rising stem.
- Solid Brass wedge.
- High quality PTFE packing.
- Solder ends (end feed) dimensionally conforming to either EN 1254/1 (formerly BS 864/2).

## RANGE

Patt. No.	Sizes		
	15	22	28
P81M	•	•	•

## DIMENSIONS (MM)

Description	Sizes		
	15	22	28
A Face to Face P81M	51	61	76
B Height	83	93	111
C H'wheel Diam.	60	60	75
Weight kg	0.27	0.63	0.91

## FLOW RATES\*

	Sizes		
	15	22	28
Cv	16.4	37.4	66.7
Kv	14.0	32.0	57.0

\* Cv – flow rate in US GPM at a pressure drop of 1 psi.  
 \* Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 180°C	Shell	Seat
15 to 28	20.0	9.0	30.0	22.0

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 356°F	Shell	Seat
15 to 28	290.1	130.5	435.1	319.1

## SUITABLE FOR

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

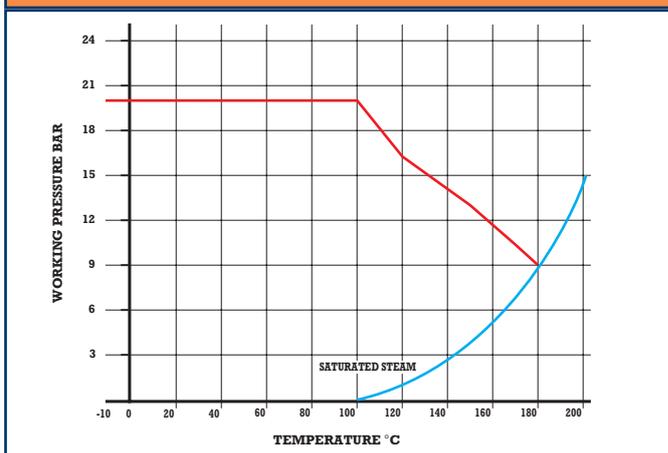
## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

Sizes		
15	22	28
SEP	SEP	SEP

## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Forged Brass
2	Bonnet	Forged Brass
3	Stem	Brass Bar
4	Wedge	Forged Brass
5	Stem Ring	Brass Bar
6	Gland	Brass Bar
7	Gland Nut	Brass Bar (15 to 28)
8	Handwheel	Aluminium
9	Handwheel Nut	Brass Bar
10	Gland Packing	PTFE
11	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



Note: The performance of this valve may be limited by the inlet/outlet connections. We recommend that installation of this valve should be carried out with the aid of a heat resisting compound in order to maintain the integrity of the valve.

## FEATURES

- BS 5154 PN32 Series B/NM.
- Rising stem.
- P.T.F.E. renewable disk.
- High quality PTFE packing.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 (BS 2779) Parallel Thread (PT).



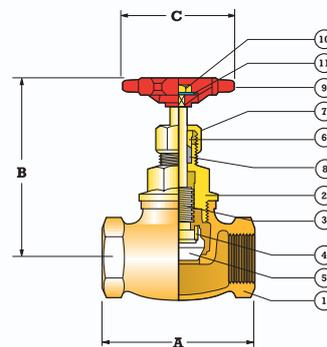
1029

## RANGE

Patt. No.	Sizes							
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1029	•	•	•	•	•	•	•	•
1029AT			•	•	•	•	•	•
1029PT			•	•	•	•	•	•

## DIMENSIONS

Description	Sizes							
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	48	46	57	65	78	89	100	121
B Height	76	76	95	98	114	138	159	170
C H'wheel Diam.	60	60	75	75	85	95	105	120
Weight kg	0.20	0.22	0.38	0.54	0.84	1.36	1.76	2.62



## FLOW RATES\*

Description	Sizes							
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv	0.8	1.3	2.3	5.9	11.7	18.7	26.9	49.1
Kv	0.7	1.1	2.0	5.0	10.0	16.0	23.0	42.0
Kv Gas	0.5	0.5	1.3	2.9	4.4	8.9	11.7	21.3

\* 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.

## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Gunmetal
2	Bonnet	Forged Brass (1/4" to 2")
3	Stem	Brass Bar
4	Disk Holder	Brass Bar (1/4" to 2")
5	Disk Ring	Brass Bar
6	Disk	Glass Filled PTFE
7	Disk Nut	Brass Bar (1/4" to 2")
8	Gland	Brass Bar
9	Gland Nut	Brass Bar (1/4" to 2")
10	Packing	PTFE
11	Handwheel	Aluminium (1/4" to 2")
12	Handwheel Nut	Brass Bar
13	Rating Disc	Aluminium

## SUITABLE FOR

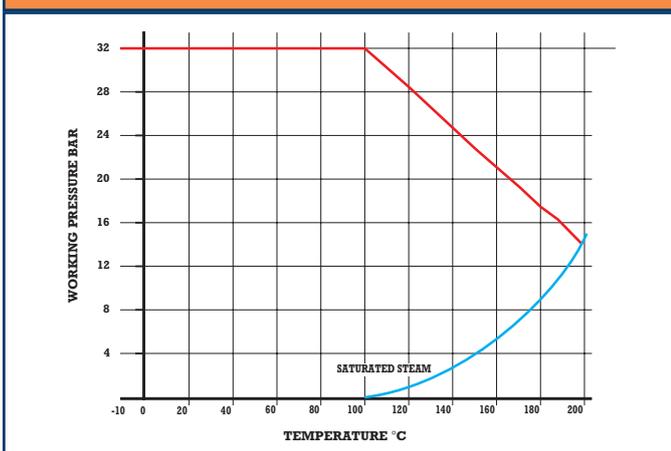
Steam	Water	Oil	Air	Gases			
✓	✓	✓	✓	Inert	Combustible†	Corrosive††	Oxygen
				✓	✓	✓	✗

† The valves are suitable for British Gas Applications Family Gases 1, 2 and 3.  
 †† Suitable in applications where moisture is completely absent.

## VACUUM CONDITIONS

Can be used in a vacuum at 10<sup>-3</sup> torr.

## PRESSURE & TEMPERATURE RATINGS



## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 198°C	Shell	Seat
1/4" to 2"	32.0	14.0	48.0	35.2
Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 86°F	Temperatures up to 248°F	Shell	Seat
1/4" to 2"	464.1	203.1	696.1	510.5

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

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

Cat I products carry the CE Mark.

# 32 1031 BRONZE GLOBE VALVE RANGE

## FEATURES

- BS5154 PN32 Series B.
- Rising stem.
- Integral seat and metal valve.
- High quality PTFE packing.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 (BS 2779) Parallel Thread (PT).

## RANGE

Patt. No.	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1031	•	•	•	•	•	•
1031AT	•	•	•			

## DIMENSIONS (MM)

Description	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	57	65	78	89	100	121
B Height Open	95	98	114	138	159	170
C 'H'wheel Diam.	75	75	85	95	105	120
Weight kg	0.39	0.55	0.87	1.45	1.83	2.61

## FLOW RATES\*

	Sizes					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv	2.3	5.9	11.7	18.7	26.9	49.1
Kv	2.0	5.0	10.0	16.0	23.0	42.0
Kv Gas	1.3	2.9	4.4	8.9	11.7	21.3

\* 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.

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 198°C	Shell	Seat
1/2" to 2"	32.0	14.0	48.0	35.2

Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures 212°F	Temperatures up to 389°F	Shell	Seat
1/2" to 2"	464.1	203.1	696.2	510.5

## SUITABLE FOR

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

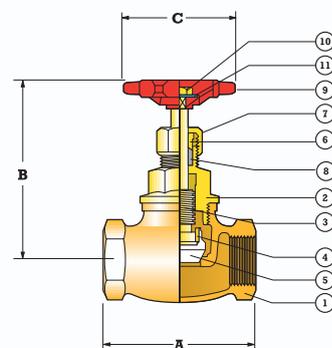
**VACUUM CONDITIONS** Can be used in a vacuum at 10<sup>-3</sup> torr.

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

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



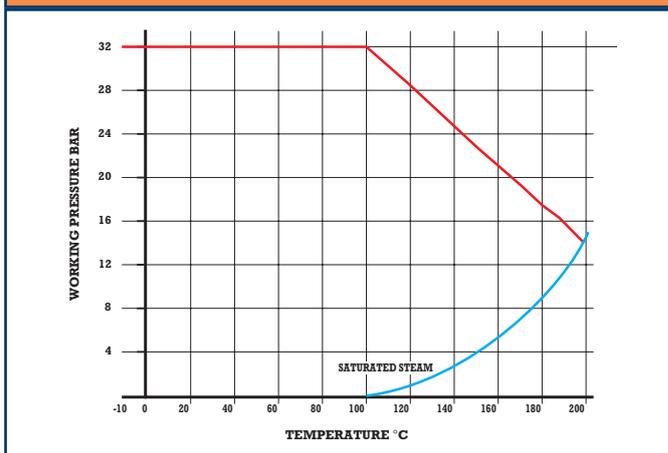
1031



## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Gunmetal
2	Bonnet	Forged Brass
3	Stem	Brass Bar
4	Disk Ring	Brass Bar
5	Disk	Brass Bar
6	Gland	Brass Bar
7	Gland Nut	Brass Bar
8	Packing	PTFE
9	Handwheel	Aluminium
10	Handwheel Nut	Brass Bar
11	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



## FEATURES

- BS 5154 PN32 SERIES B.
- Horizontal fixing.
- Metal seat.
- Body arrow indicates direction of flow.
- BS 21 Taper Thread.
- ANSI (NPT) American Taper Thread (AT).
- ISO 228 (BS 2779) Parallel Thread (PT).

1039



## RANGE

Sizes						
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1039	•	•	•	•	•	•
1039AT	•	•	•			
1039PT	•	•	•			

## DIMENSIONS (MM)

Sizes						
Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A Face to Face	57	65	78	89	100	121
B Height	30	40	45	55	60	65
Weight kg	0.28	0.44	0.68	1.14	1.46	2.24

## FLOW RATES\*

	Sizes											
	1/2"			3/4"				1"				
Flow (l/s)	0.025	0.050	0.100	0.200	0.075	0.100	0.150	0.200	0.050	0.100	0.200	0.400
Cv	1.0	1.7	2.2	3.0	2.8	3.5	3.9	4.0	2.2	4.1	7.3	9.8
Kv	0.8	1.5	1.9	2.6	2.4	2.9	3.4	3.5	1.9	3.6	6.3	8.5
	1 1/4"			1 1/2"				2"				
	Flow (l/s)	0.060	0.080	0.200	0.600	0.100	0.300	0.500	0.700	0.200	0.400	0.800
Cv	2.5	3.4	7.9	16.1	4.6	12.4	19.4	24.8	8.0	15.5	29.4	45.9
Kv	2.2	2.9	6.8	13.9	3.9	10.7	16.8	21.4	6.9	13.4	25.4	39.7

\* Cv – flow rate in US GPM at a pressure drop of 1 psi.

\* Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

## MINIMUM OPERATING CONDITIONS

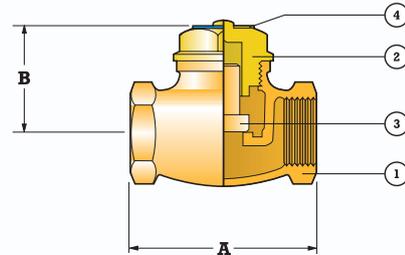
Sizes 1/2" to 1" require 0.5 bar (7.25 psi) minimum line pressure with a differential pressure of 1 to 1.5 psi to allow the valve to open and close.

## SUITABLE FOR

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

## MAXIMUM PRESSURE CONDITIONS

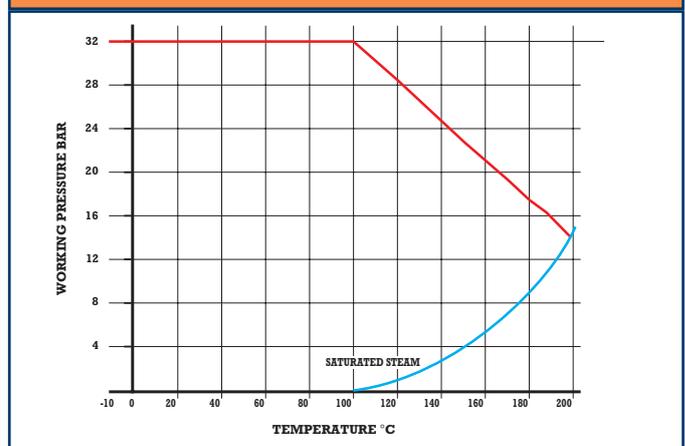
Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 198°C	Shell	Seat
1/2" to 2"	32.0	14.0	48.0	35.2
Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures 212°F	Temperatures up to 389°F	Shell	Seat
1/2" to 2"	464.1	203.1	696.2	510.5



## MATERIAL SPECIFICATION

No.	Component	Material
1	Body	Gunmetal
2	Cap	Forged Brass (1/2" to 1 1/4") Gravity Die Cast Brass (1 1/2" to 2")
3	Valve	Brass (1/2" to 2")
4	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

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



1062



## FEATURES

- BS 5154 PN25 Series B.
- Horizontal or vertical fixing (upward flow only).
- Metal seat and swing type metal disc.
- Body arrow indicates direction of flow.
- BS 21 Taper Thread.

## RANGE

Patt. No.	Sizes		
	1/2"	3/4"	1"
1062	•	•	•

## DIMENSIONS (MM)

Description	Sizes		
	1/2"	3/4"	1"
A Face to Face	58	72	83
B Height	34	40	51
Weight kg	0.27	0.48	0.72

## FLOW RATES\*

	Sizes											
	1/2"				3/4"				1"			
Flow (l/s)	0.04	0.10	0.20	0.40	0.04	0.10	0.40	1.00	0.01	0.20	0.30	1.00
Cv	2.1	4.3	5.9	6.5	3.1	6.3	15.6	17.6	8.8	16.0	21.1	29.1
Kv	1.8	3.7	5.1	5.7	2.7	5.5	13.6	15.3	7.7	13.9	18.4	25.3

\* Cv – flow rate in US GPM at a pressure drop of 1 psi.

\* Kv – flow rate in m<sup>3</sup> per hour at a pressure drop of 1 bar.

## MINIMUM OPERATING CONDITIONS

Sizes 1/2 to 1" require 0.5 bar (7.25 psi) minimum line pressure with a differential pressure of 1 to 1.5 psi to allow the valve to open and close.

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	Temperatures up to 100°C	Temperatures up to 186°C	Shell	Seat
1/2" to 1"	25.0	10.5	37.5	27.5

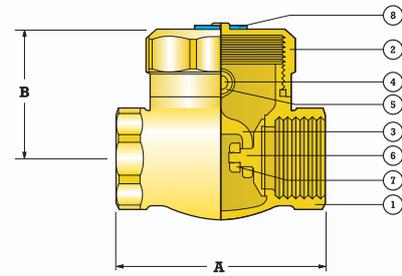
Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures 212°F	Temperatures up to 389°F	Shell	Seat
1/2" to 1"	362.6	152.3	543.9	398.9

## SUITABLE FOR

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

## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

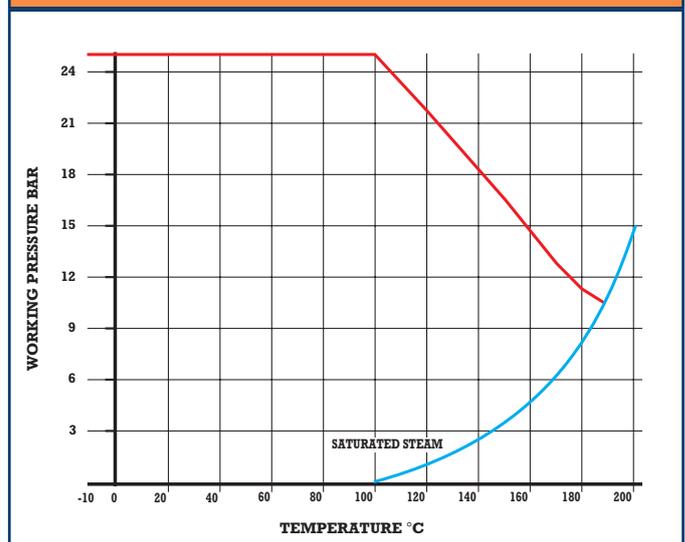
Sizes		
1/2"	3/4"	1"
SEP	SEP	SEP



## MATERIAL SPECIFICATION

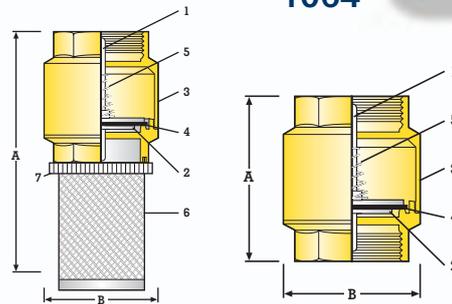
No.	Component	Material
1	Body	Forged Brass (1/2" and 3/4")
		Gravity Die Cast Brass (1")
2	Cap	Forged Brass
3	Swinger	Brass Bar
4	Swinger Pin	Brass Bar
5	Bush	Brass Bar
6	Valve	Brass Bar
7	Nut	Brass Bar
8	Rating Disc	Aluminium

## PRESSURE & TEMPERATURE RATINGS



# 36 1063/1064 BRASS SPRING ACTION CHECK AND FOOT VALVES AND FOOT VALVES

FEATURES	
<b>1063</b>	
<ul style="list-style-type: none"> <li>• Brass.</li> <li>• Horizontal, vertical or oblique fixing.</li> <li>• Stainless steel spring.</li> <li>• Flow directional arrow on body.</li> <li>• 1/2" to 4" sizes.</li> <li>• ISO 228 Parallel Thread (PT).</li> <li>• BS 21 Taper Thread.</li> <li>• ANSI (NPT) American Thread (AT).</li> <li>• Maximum operating temperature, 90°C.</li> </ul>	
<b>1064</b>	
<ul style="list-style-type: none"> <li>• Brass.</li> <li>• Horizontal, vertical or oblique fixing.</li> <li>• Stainless steel spring.</li> <li>• Flow directional arrow on body.</li> <li>• 1/2" to 4" sizes.</li> <li>• ISO 228 Parallel Thread (PT).</li> <li>• BS 21 Taper Thread.</li> <li>• ANSI (NPT) American Thread (AT).</li> <li>• Maximum operating temperature, 90°C.</li> <li>• Stainless Steel filter.</li> <li>• ABS body to filter connection.</li> <li>• Removable, screw in filter.</li> </ul>	



RANGE		Sizes								
Patt. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
1063PT	•	•	•	•	•	•	•	•	•	
1064PT	•	•	•	•	•	•	•	•	•	
1064AT	•	•	•	•	•	•				

PRESSURE EQUIPMENT DIRECTIVE CATEGORY		Sizes								
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		

DIMENSIONS (MM)		Sizes									
Patt. No.	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
1063	A Face to Face	49.5	57.5	61.5	66	76	87	100	110	114	
	B Diameter	34	41.5	47	58.5	69	84.5	103	112	145	
	Weight kg	0.124	0.232	0.251	0.389	0.581	0.852	1.380	1.966	2.830	
1064	A Face to Face	83	96	107	120	136	159	181	201	217	
	B Diameter	34	41.5	47	58.5	69	84	103	112	145	
	Weight kg	0.13	0.20	0.27	0.40	0.57	0.81	1.50	1.89	3.04	

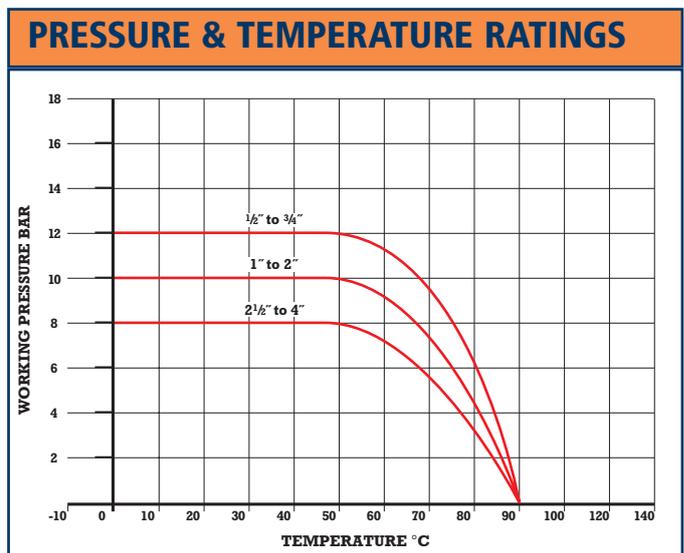
MATERIAL SPECIFICATION		
No.	Component	Material
1	Pin	ABS
2	Pin Washer	ABS
3	Body	Brass
4	Sealing Washer	EPDM Rubber
5	Spring	Stainless Steel 18/8
6	Filter	Stainless Steel 18/8
7	Filter/Body Connection	ABS

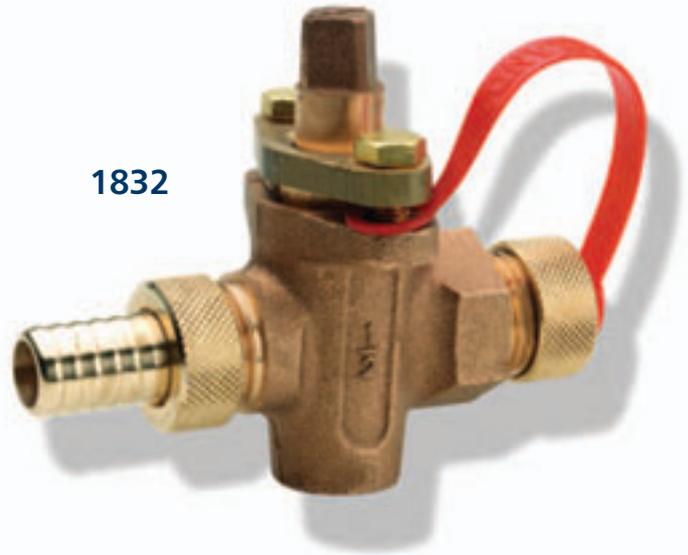
MAXIMUM PRESSURE CONDITIONS		
Size	Maximum Pressure Conditions	
	(bar)	(psi)
1/2" and 3/4"	12.0	174
1" to 2"	10	145
2 1/2" to 4"	8	116

These are maximum permissible working pressures

Size	Maximum Pressure Conditions	
	(°C)	(°F)
2 1/2" to 4"	90	194

SUITABLE FOR								
	Steam	Water	Oil	Air	Gases			
					Inert	Combustible	Corrosive	Oxygen
1063	✗	✓	✗	✓	✗	✗	✗	✗
1064	✗	✓	✗	✓	✗	✗	✗	✗





1832

**FEATURES**

- Adjustable gland and accurately ground-in tapered plug to ensure water tightness.
- Rectangular port (area approximately equal to the nominal bore of the cock).
- Male Parallel Thread ISO 228 x Hose Union.
- Supplied with Iron lever.

**RANGE**

Patt. No.	Sizes		
	1/2"	3/4"	1"
1832	•	•	•

**DIMENSIONS (MM)**

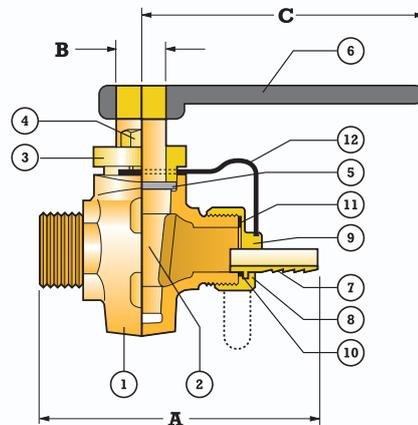
Description	Sizes		
	1/2"	3/4"	1"
A Face to Face	93	117	145
B Square Head	10.3	13.5	15.9
C Lever Length	86	95	121
Weight kg	0.44	0.76	1.32

**MAXIMUM PRESSURE CONDITIONS**

Size	Maximum Pressure Conditions (bar)	Test Pressures Shell (psi)
1/2" to 1"	10.0 (up to 120°C)	20.0
1/2" to 1"	145.0 (up to 248°F)	290.1

**MATERIAL SPECIFICATION**

No.	Component	Material
1	Body	Gunmetal
2	Plug	Gunmetal
3	Gland	Brass Bar (1/2" and 3/4")
		Forged Brass (1")
4	Bolt	Brass Bar
5	Gland Packing	PTFE
6	Lever	Cast Iron
7	Pipe	Brass Bar
8	Boss	Brass Bar (1/2")
		Forged Brass (3/4" and 1")
9	Cap	Brass Bar
10	'O' ring	WRc Approved Rubber
11	'O' ring or washer	'O' Ring – WRc Approved Rubber (1/2")
		Washer – Akulon (3/4" and 1")
12	Strap	Nylon 6



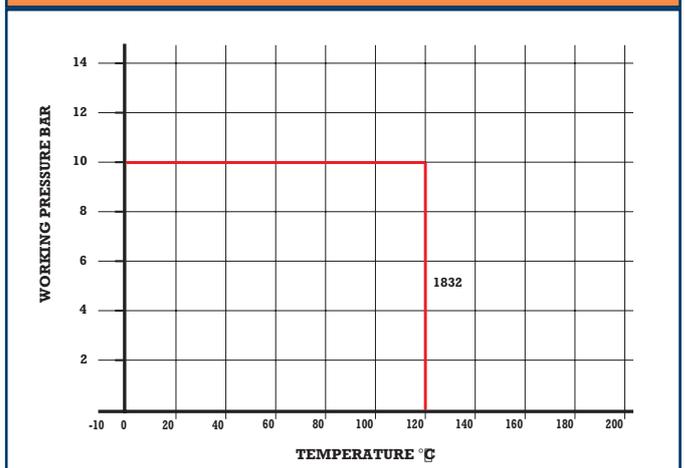
**SUITABLE FOR**

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

**PRESSURE EQUIPMENT DIRECTIVE CATEGORY**

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

**PRESSURE & TEMPERATURE RATINGS**



# 38 PEGLER THERM IN-LINE MIXING VALVES 402H/402U/402UA



402H



402U

## FEATURES

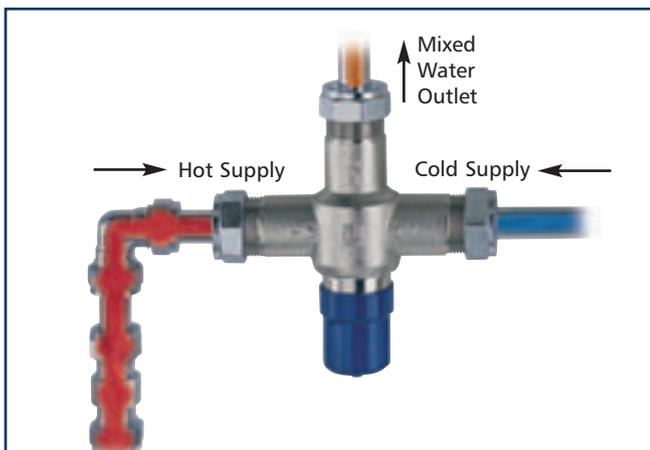
Peglertherm in-line mixing valves are designed to eliminate the risk of scalding and are suitable for use in a wide range of public, health care, social, commercial and domestic applications.

- Suitable for sinks, wash basins, bath, bidets, single point showers, hair wash sprays and domestic hot water systems.
- Simple to install and service.
- Temperature pre-set to 43°C, but easily adjustable on site.
- WRAS approved for a wide variety of uses.
- Complies with NHS Model Engineering Specification DO8.
- Choice of standard connections 402H or easy to service 402U with union connections and 402UA with 90° angle side cocks.

## INSTALLATION

The 402 is fitted with internal strainers but where debris is a particular problem we recommend the fitting of serviceable external strainers. The 402 can be fitted in any orientation provided the hot and cold supplies are connected as marked on the valve body (C = cold supply H = hot supply).

The Peglertherm 402H and 402U are supplied with 22mm pipe connections as standard but can be adapted to accept 15mm pipe by using the reducing sets supplied.



**Note:** We would recommend the fitting of servicing valves on the inlet supplies to aid any future isolation requirements for 402H and 402U. To ensure proper performance of the 402 range the isolation valves should always be fully open during operation.

## ADJUSTMENT

The valve is supplied pre-set at approximately 43°C. The valve must be adjusted to suit conditions on site.

## IN SERVICE TESTING

The normal service frequency is one year but site conditions may mean that the service checks should be undertaken more frequently. It is recommended that the service procedure in the NHS Document DO8 is followed.

Maximum continuous temperatures during testing should not exceed the following values:

Bidet 40°C    Shower 43°C    Washbasin 43°C  
Bath 44°C    Bath 46°C

If it is found to be impossible to obtain the correct setting point a service is required. The Peglertherm 402 should not normally require part replacement. However a full range of spares is available on request.

## APPROVALS

The Peglertherm 402 has been approved by WRAS Certificate Number 0301049 for the following uses:

Code	Operating Range	Application	
HP-B	High pressure	Bidet – maximum temperature –	38°C
HP-S	High pressure	Shower – maximum temperature –	41°C
HP-W	High Pressure	Washbasin – maximum temperature –	41°C
HP-T44	High pressure	Bath with fill temperature up to –	44°C
HP-T46	High pressure	Bath fill temperature up to –	46°C (assisted)
LP-B	Low pressure	Bidet – maximum temperature –	38°C
LP-S	Low pressure	Shower – maximum temperature –	41°C
LP-W	Low pressure	Washbasin – maximum temperature –	41°C

Under the terms of the TMV3 Scheme the valve must be installed under the following conditions:

Operating Pressure Range	High Pressure	Low Pressure
Maximum static pressure (bar)	10	10
Flow pressure, hot and cold (bar)	1 - 5	0.2 - 1
Hot supply temperature (°C)	52 - 65	52 - 65
Cold supply temperature (°C)	5 - 20	5 - 20

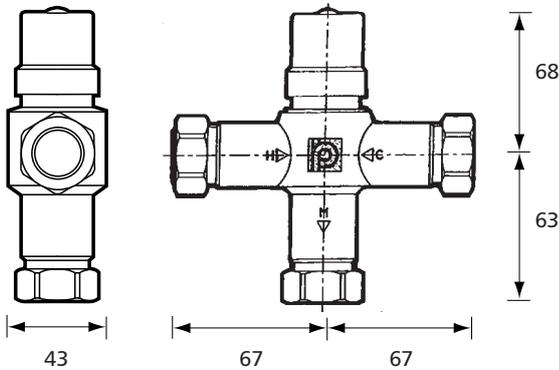
**Note:** Valves operating outside these conditions cannot be guaranteed to operate as type 3 Valves. The use of a Pressure Reducing Valve to achieve balanced supply conditions is recommended where necessary.



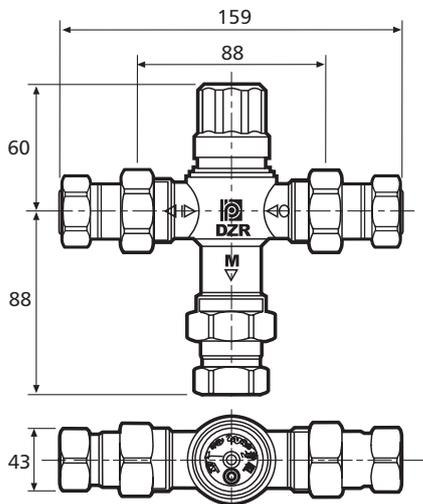
402UA

**DIMENSIONS**

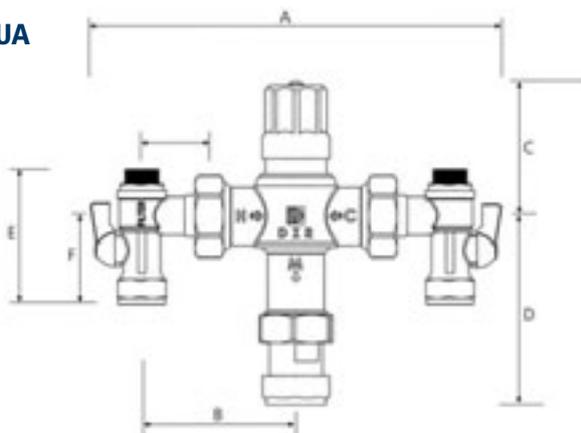
402H



402U



402UA



**TECHNICAL SPECIFICATION**

	General operating parameters	TMV3 approved parameters
Minimum mixed temperature	30°C	38°C
Maximum mixed temperature	50°C	46°C
Maximum temperature deviation	+/- 2°C	+/- 2°C
Maximum hot inlet temperature	85°C	65°C
Maximum hot/cold cold/hot inlet pressure ratio	5 to 1	N/A
Maximum static pressure	12 bar	10 bar
Minimum dynamic flow pressure	0.1 bar	0.2 bar
Minimum hot inlet to mixed outlet temperature differential	10°C	10°C
Flow with 0.2 bar differential pressure loss	9.0L/M	9.0L/M
Flow 1.0 bar differential pressure loss	18L/M	18L/M

**GENERAL SPECIFICATION**

Materials: DZR Brass      Surface Finish: Nickel

Water Connections:

402H 22mm compression with 15mm reducing sets supplied

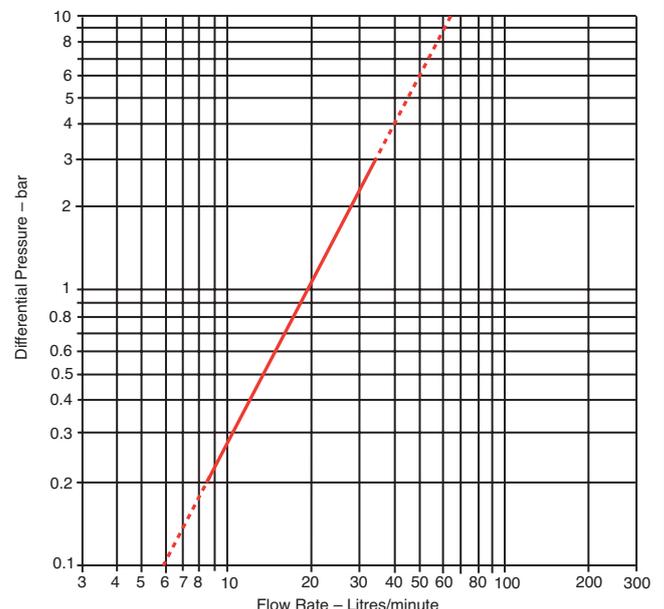
402U 22mm compression with 15mm reducing sets and union connections supplied

402UA 22mm compression outlet with 15mm reducing (15mm) set and 15mm side cocks supplied

402UA 22mm compression all ends (22mm)

**FLOW RATE**

The flow rate is given under balanced inlet conditions



# 40 PEGLER THERM 404 IN-LINE MIXING VALVES



404



404UA

## FEATURES

Peglertherm in-line mixing valves are designed to eliminate the risk of scalding and are suitable for use in a wide range of public, social housing, commercial and domestic applications.

- Suitable for sinks, wash basins, bath, bidets, single point showers, hair wash sprays and domestic hot water systems.
- Simple to install and service.
- Temperature pre-set to 43°C, but easily adjustable on site.
- WRAS approved for a wide variety of uses.

## INSTALLATION

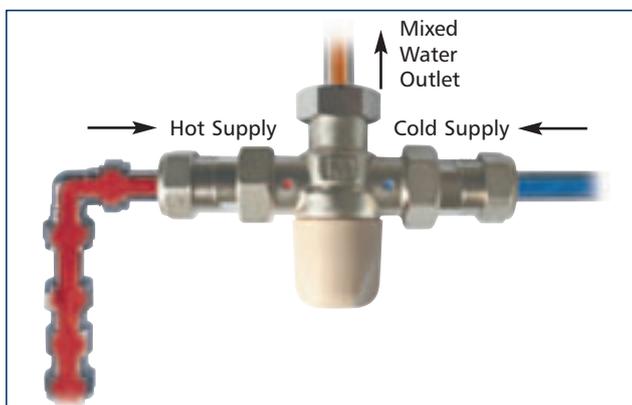
The 404 is supplied with internal strainers but where debris is a particular problem we recommend the fitting of serviceable external strainers. The 404 can be fitted in any orientation provided the hot and cold supplies are connected as marked on the valve body

(C = cold supply, H = hot supply. Blue indice = cold supply, Red indice = hot supply).

The Peglertherm 404 is supplied with compression connections for copper tube.

Designation of use HP & LP. ref 97083 97084 – compliance with EN1111, EN287 and BS1415 Pt2 (TMV2).

Thermostatic mixing valves are temperature sensitive devices and must not be subjected to extreme temperatures, either hot or cold, in use or installation.



**Note:** We would recommend the fitting of full bore servicing valves on the inlet supplies to aid any future isolation requirements. To ensure proper performance of the 404 isolation valves, they should always be fully open during operation. Isolation valves should be installed as close as practicable to the mixing valve inlets.

## PRESSURES

Pressure at the valve inlets must be within the 10-1 ratio under flow conditions. The size and layout of pipework and in-line fittings must take this into consideration.

Optimum performance is achieved with equal pressure.

Minimum Working Pressure 0,1 bar

Maximum Working Pressure 5 bar

Maximum Static Pressure 10 bar

Minimum Flow Rate 5 L/min

See Table 1 for conditions of normal use.

## WATER REGULATIONS

MIXING VALVES must be installed in accordance with local Water Authority Water Regulations (Water Supply (Water Fittings) Regulations 1999). Your attention is therefore drawn to any installation requirements which may be applicable.

This product is fitted with a WRAS approved listed single check valve cartridge for both the hot and cold supplies to the valve. If supplying a submerged outlet additional protection will be required.

**ISOLATING VALVES** Isolation valves must be installed on the hot and cold connectors.

**STRAINERS** Strainers must be installed on the hot and cold connectors.

## TEMPERATURE DIFFERENTIAL CHARACTERISTICS

Table 1 – conditions of normal use

Operating Pressure Range	High Pressure	Low Pressure
Maximum static pressure - bar	10	10
Flow pressure, hot and cold - bar	1 to 5	0.1 to 5
Hot supply temperature - °C	55 to 65	55 to 65
Cold supply temperature - °C	≤ 25	≤ 25

The temperature differential for MIXING VALVE must be 10°C

## IN SERVICE TESTING

The purpose of in-service tests is to regularly monitor and record the performance of the thermostatic mixing valve. Deterioration in performance can indicate the need for service work on the valve and/or the water supplies.



## APPLICATIONS

### High Pressure (EN1111:1999)

Bidets  
Showers  
Wash hand basin  
Bath fill

### Low Pressure (EN1287:1999)

Bidets  
Showers  
Wash hand basins

## ADJUSTMENT AND COMMISSIONING

The thermostatic controller is supplied factory pre-set at 43 °C. However, installation conditions will dictate that the product be adjusted on site. To adjust the temperature supply remove the plastic cap on top of the valve and adjust with the key provided.

- To increase the temperature turn anti-clockwise
- To decrease the temperature turn clockwise
- To set the valve to a maximum mixed water temperature (see table 2).

Table 2

Application	Mixed water temperature °C
Shower	41 °C
Washbasin	41 °C
Bidet	38 °C
Bath	44 °C

The temperatures and pressures must be stabilised and checked before commissioning (allow mixed water to flow for 1 minute prior final setting). All parameters must be in accordance with TABLE 1 above.

**Note:** After adjustment replace the cap to prevent tampering. This valve must not be used to mix water above a temperature of 46 °C. **Hot water can burn and it is strongly recommended that both comfort and safety levels are considered when selecting a set temperature.**

## MAINTENANCE

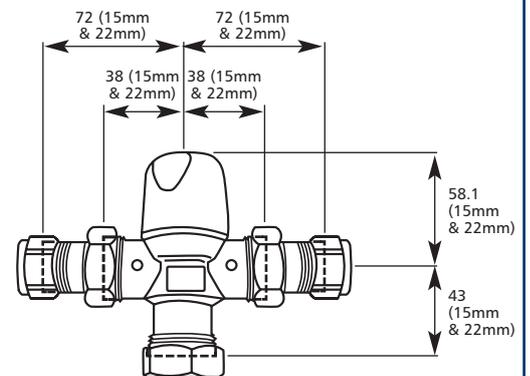
**PURPOSE:** Since the installed supply conditions are likely to be different from those applied in the laboratory tests, it is appropriate, at commissioning, to carry out some simple checks and tests on each mixing valve to provide a performance reference point for future in-service tests. For further information on service tests and maintenance refer to the 404 installation instructions.

## GENERAL SPECIFICATION

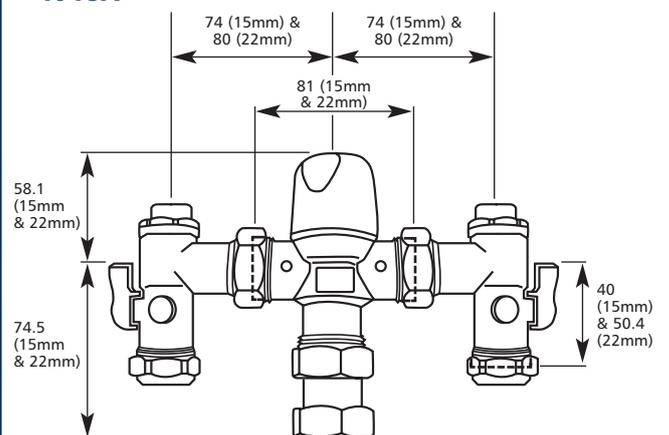
Materials:	DZR Brass
Surface Finish:	Nickel
Water Connection: 404	15mm 22mm Wafer Strainers Single check valves on inlets
Water Connection: 404UA	15mm 22mm Single check valves on inlets Angle valves with strainers Isolating valves Test points

## DIMENSIONS

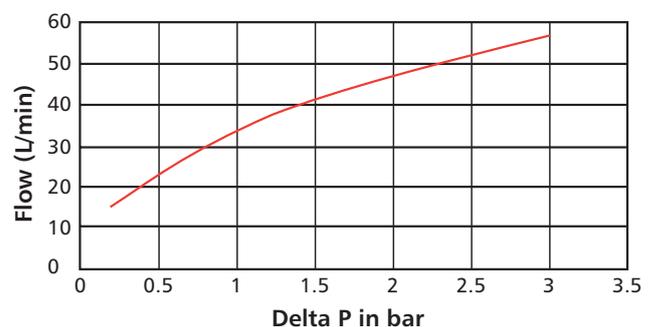
### 404



### 404UA



## FLOW RATE





## FEATURES

- Demand Activated Passive Infra-Red sensing technology.
- Complies with Water Regulation R25.12 and BS 6700.
- Suitable for all pressures from 0.05 bar to 12 bar.
- Hygiene Flush feature (every 12 hours).
- Installer friendly test mode set up with audible location assistance.
- Pre-wired for easy installation.
- Battery or mains operated.
- Low battery indicator warning signal. (Battery version only).
- Recess mountable into any standard double patress box.
- Reduces limescale build up through controlled flushing.

## STANDARDS & WATER REGULATION REQUIREMENTS

The Water Regulations are concerned with the amount of water utilised per hour in the flushing process. The table below summarises the maximum flow requirements per urinal bowl/slab.

These requirements combined with those of BS 6700 which state that no more than 3 flushes per hour are permissible clearly demand an accurate means of control.

The Optiflush is designed to give you the maximum amount of flexibility in set up to ensure that every installation is capable of complying with the water byelaws and BS 6700.

Number of Urinal Bowls/Slabs	1	2	3	4	5	6
Maximum Flow Requirement (litres per hour)	10	15	22.5	30	37.5	45

Note: Figures for two or more bowls/slabs are calculated based on using 7.5 litres per hour per bowl as a maximum.

## HOW IT WORKS

**(1) PICK UP**

The Optiflush's passive infra-red detector senses movement in the cloakroom.

**(2) DELAY**

Knowledge that the cloakroom has been utilised is then stored by the Optiflush for a pre-set delay period (determined by the installer).

**(3) DELAY**

During the delay period, subsequent users of the cloakroom are not detected by the Optiflush.

**(4) FLUSH**

The Optiflush activates the solenoid latching valve and water is released for a measured length of time to fill the cistern and subsequently flush the urinals.

**(5) RE-SET**

Once the flushing operation is complete, the Optiflush closes the valve, re-sets itself and awaits the next user to begin the cycle again.

## LOCATION

The Optiflush can be surface mounted on the wall or recess mounted into a standard double patress box.

Typically the product control box will be situated in close proximity to the valve and for this purpose the components are supplied pre wired to simplify installation. The control box can be sited in excess of 0.5m distance away from the valve but in this instance you will have to re-wire the product.

Choice of location should always enable the product to sense movement in the room. To ensure that the product is sited correctly it comes with an audible test mode setting allowing the installer to clearly hear if the product is sensing movement by approaching it from a number of different directions.

## SET UP

The Flexibility of the Optiflush stems from its setting controls. A simple set of control switches enables the installer to vary the delay time between flushes and the fill time of the cistern. Thus variations between installations such as pressure ratings or cistern sizes can be easily accommodated.

## RECOMMENDED DELAY TIME

Number of Urinals/Bowls/slabs	A (20 minutes)	B (30 minutes)	C (40 minutes)
1	—	4.5 litre Cistern	—
2	4.5 litre Cistern	—	9 litre Cistern
3	—	9 litre Cistern	13.6 litre Cistern
4	9 litre Cistern	13.6 litre Cistern	18.2 litre Cistern
5	9 litre Cistern	18.2 litre Cistern	—
6	13.6 litre Cistern	18.2 litre Cistern	—

## RECOMMENDED FILL TIME SETTINGS

Static Pressure (bar)	Cistern Size			
	4.5 litre	9 litre	13.6 litre	18.2 litre
0.05				
0.1				
0.2				
0.5				
1.0				
2.0				
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				

Key to settings	Period	1	2	3	4
	Time		1.5 minutes	3 minutes	7 minutes

## GENERAL SPECIFICATION

### POWER

**OP1 BATTERY operated version**  
**Voltage:** 9 Volts D.C.  
**Current:** Nominal 0.03mA  
**Battery Supply:** 9 Volts PP3 (MN1604) Alkaline Batteries.

**OP2 MAINS operated version**  
**Voltage:** 230 Volts A.C. 50Hz  
**Current:** Nominal 0.0031 mA  
**Battery Supply:** 230 Volts AC Fused 1 amp.

### SOLENOID VALVE

12 Volt 6 Watt D.C latching type.

### PRESSURE RANGE

Suitable for all pressures from 0.05 bar to 12.0 bar.

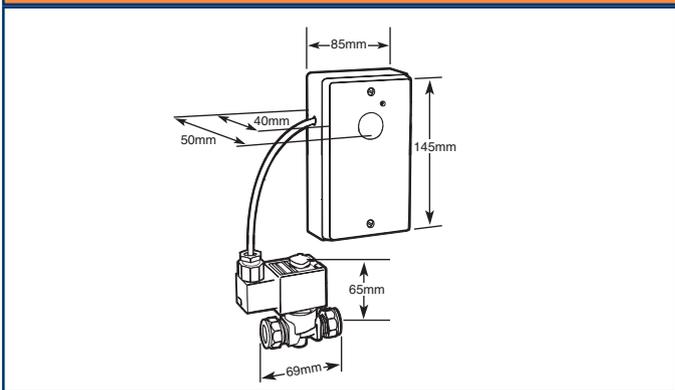
### FLOW RATE

CV Flow value 0.15  
 KV Flow value 0.17

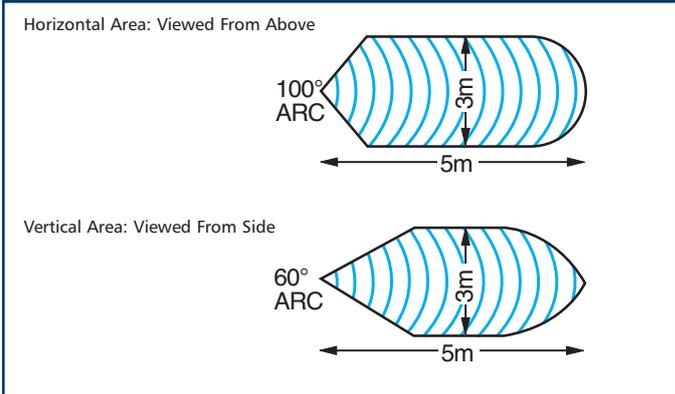
### SERVICING/REGULATION

A Stopvalve should be positioned upstream of the Optiflush valve for the purposes of servicing and flow regulation. Under no circumstances should the flow be restricted downstream of the Optiflush (i.e. pet cocks should be fully open or removed).

## DIMENSIONS (MM)



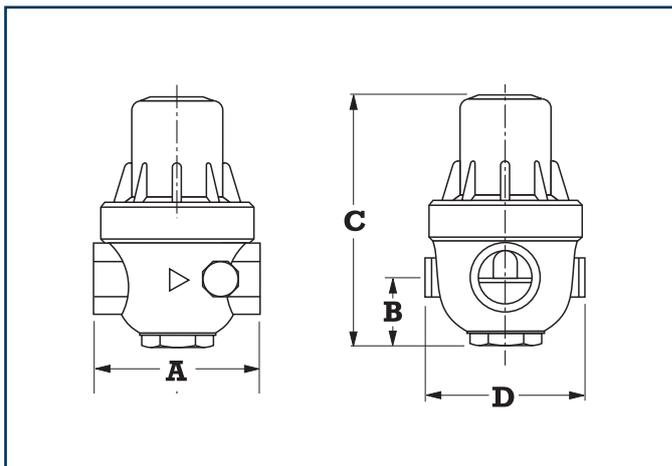
## DETECTION AREA





FEATURES	
<b>PRESSURE GAUGE</b>	
<ul style="list-style-type: none"> <li>• Rear entry.</li> <li>• Pressure range: 0-10 bar.</li> <li>• Robust brass/high impact plastic body.</li> <li>• Reference pointer on dial.</li> </ul>	
<b>PRV</b>	
<ul style="list-style-type: none"> <li>• High performance 'yoke' construction.</li> <li>• Drop tight seal.</li> <li>• 1/2" and 3/4" sizes.</li> <li>• DZR body.</li> <li>• WRAS approved.</li> </ul>	

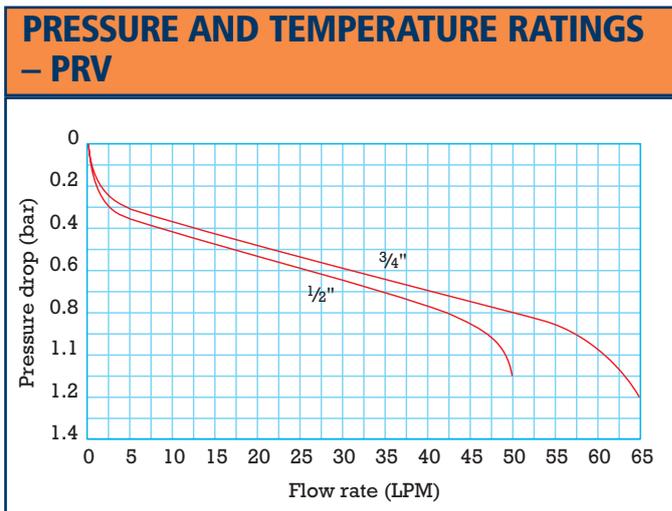
DIMENSIONS (MM)		
Description	Sizes	
	1/2" F	3/4" F
A	76	76
B	30.5	30.5
C	115	115
D	72	72
Weight kg	1.12	1.08



MAXIMUM PRESSURE CONDITIONS – PRV		
Size	Max Inlet Pressure Conditions (bar)	Min Outlet Pressure Conditions (bar)
	Temperatures up to 80°C	Temperatures up to 80°C
1/2"	16.0	5.5
3/4"	16.0	5.5

MATERIAL SPECIFICATION		
No.	Component	Material
A	Body	DZR Brass
B	Diaphragm	NBR
C	Seals	NBR
D	Bonnet	Alloy

SUITABLE FOR							
Steam	Water	Oil	Air	Gases			
				Inert	Combustible	Corrosive	Oxygen
X	✓	✓	✓	X	X	X	✓



PERFORMANCE – GAUGE	
Max. working pressure:	10 bar
Max. Temperature:	80°C
Min. Operating Temperature:	1°C

MATERIALS – GAUGE	
Body:	Brass/high impact plastic



**FEATURES**

- 15 or 22mm compression connection.
- Drop tight seal.
- Compact easy set design.
- 0-25 bar inlet pressure range.
- Two gauge connection points.
- WRAS approved.
- DZR body.

**RANGE**

Patt. No.	Sizes	
	15mm	22mm
15mm PRV-2	•	
22mm PRV-2		•

**DIMENSIONS (MM)**

Description	Sizes	
	15mm PRV-2	22mm PRV-2
D	15	22
L	86.5	92
H	105	105
Weight Kg	0.421	0.453

**PERFORMANCE**

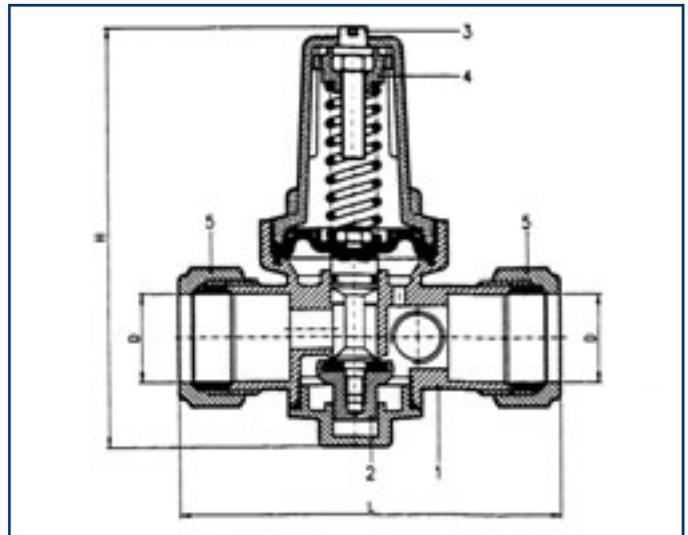
Max. Inlet Pressure	25 bar
Outlet Pressure	Adjustable between 1 bar to 6 bar
Max. Fluid Temperature	80 °C
Installation	In any position

**FLOW RATES**

Description	Sizes	
	15	22
PRV-2	50 l/min	100 l/min

**SUITABLE FOR**

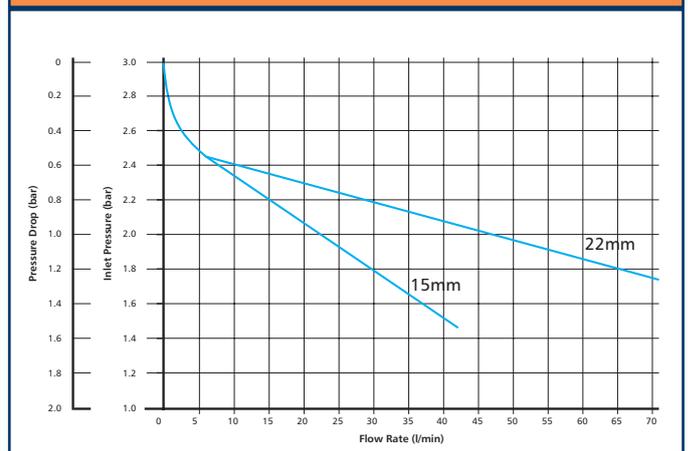
Water	Neutral Liquids	Compressed Air
✓	✓	✓



**MATERIAL SPECIFICATION**

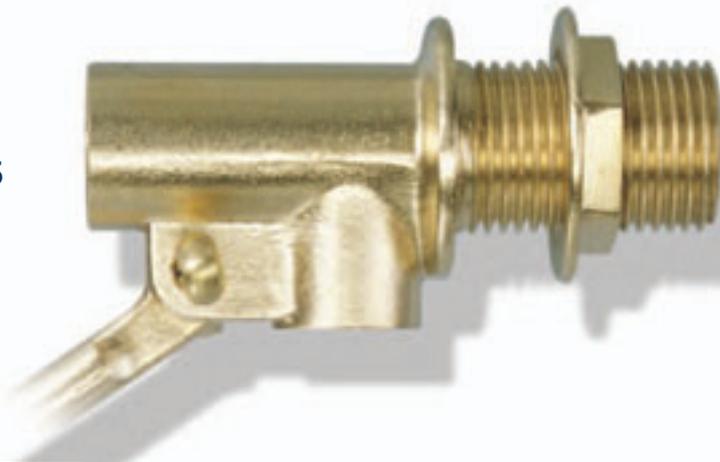
No.	Component	Material
1	Body	DZR Brass CW602N
2	Shutter	DZR Brass CW602N
3	Adjusting Screw	Galvanised Steel
4	Spring Guide	Plastic
5	Connections	Brass CW614N

**PRESSURE AND TEMPERATURE RATINGS**



# 46 MOH PORTSMOUTH PATTERN FLOATVALVES

855/856



## FEATURES

- Conventional design with integral tail and seat.
- Size range from 3/8" to 2" available in Brass with 1 1/2" and 2" sizes also available in Bronze (Gunmetal).
- Suitable for pressures up to 14 bar (200 psi).
- High and low pressure variations.
- Recommended for temperatures from 0-85°C.

## FLOW RATE & SIZE SELECTION CHART (GPM)

	Static Pressure		855 Floatvalve						856 Floatvalve		
	PSI	Feet	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3/8"	1/2"	3/4"
LOW PRESSURE	0.5	1.15	0.25	0.82	1.85	2.50	5.90	11.70	0.61	0.61	1.85
	1.0	2.30	0.35	1.16	2.60	3.50	8.30	16.50	0.86	0.86	2.60
	2.0	4.60	0.50	1.65	3.70	4.90	11.80	23.50	1.20	1.20	3.70
	4.0	9.20	0.70	2.33	5.20	6.90	16.60	33.70	1.70	1.70	5.20
	7.0	16.10	0.93	3.10	6.90	9.20	21.90	43.10	2.30	2.30	6.90
	10.0	23.10	1.10	3.70	8.20	11.00	26.30	52.50	2.70	2.70	8.20
	15.0	34.60	1.40	4.50	10.10	13.50	32.30	64.40	3.30	3.30	10.10
	20.0	46.20	1.60	5.20	11.70	15.60	37.30	74.40	3.90	3.90	11.70
	25.0	57.70	1.76	5.80	13.00	17.40	41.60	83.10	4.30	4.30	13.00
	30.0	69.30	1.93	6.40	14.30	19.10	45.60	91.00	4.70	4.70	14.30
	35.0	80.80	2.10	6.90	15.40	20.60	49.20	98.30	5.10	5.10	15.40
	40.0	92.40	2.20	7.40	16.50	22.00	52.60	105.00	5.50	5.50	16.50
HIGH PRESSURE	50.0	115.00	2.50	8.20	18.40	24.60	58.70	117.00	NOT SUITABLE FOR PRESSURES ABOVE 40 P.S.I. USE 855		
	60.0	138.00	2.70	9.00	20.20	27.00	64.40	128.00			
	70.0	161.00	2.90	9.60	21.50	28.80	68.60	136.00			
	80.0	184.00	3.10	10.30	23.30	31.00	74.00	147.00			
	90.0	207.00	3.30	11.00	24.70	33.00	79.00	157.00			
	100.0	231.00	3.50	11.60	26.00	34.70	84.00	165.00			
	110.0	254.00	3.70	12.20	27.30	36.50	87.00	173.00			
	125.0	289.00	3.90	13.00	29.20	39.00	93.00	186.00			
	150.0	346.00	4.30	14.20	31.80	42.50	101.00	202.00			
	175.0	404.00	4.60	15.30	34.40	46.00	109.00	218.00			
200.0	462.00	5.00	16.50	37.00	49.40	118.00	235.00				

## WEIGHTS OF COPPER & PLASTIC BALL FLOATS TO SUIT ALL FLOATVALVES

Ball Float Size	Copper Ball Float Weight (kg)	Plastic Ball Float Weight (kg)
3"	-	0.04
4 1/2"	0.11	0.08
5"	0.14	0.09
5 1/2"	0.17	-
6"	0.20	0.17
8"	0.50	0.35
10"	0.71	0.59
12"	1.13	0.91
14"	2.36	-
15"	2.64	-
16"	3.04	-

Note: Ball floats are only supplied in export shipments, all copper ball floats are supplied in halves.

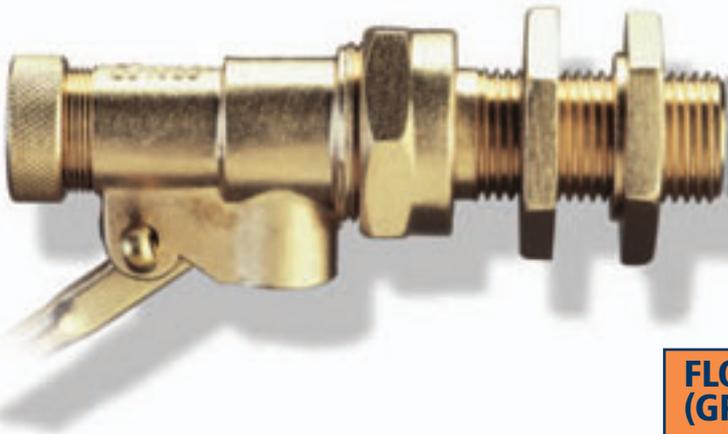
### Flow Rate and Size Selection Chart General Notes:

The discharge through a floatvalve is governed by the running pressure maintained at its inlet. In practice this is difficult to measure and so the tables shown indicate the 'estimated' flow rate in G.P.M. that will occur at various static heads for each size of floatvalve or for each size of seat in floatvalves that accept a variety of seat sizes. The flow rates quoted will only occur when the floatvalve is fully open and will reduce as the water level in the tank rises. Excessive pipe runs to the floatvalve will result in lower running pressures and thus reduced flow rates.

## RANGE

	Patt. No.	Size	Piston Material	Backnut Material	Seat Bore	Tail Length	Lever Length	Recommended Float Size		Weight Approx KG
								Copper	Plastic	
HIGH PRESSURE	855	1/2"	Nylon	Brass	1/8"	1 1/4"	10"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.24
	855-Z	1/2"	Brass	Brass	1/8"	1 1/4"	10"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.26
	855	3/4"	Brass	Brass	1/4"	1 1/2"	13"	5 1/2" x 5/16"W	5" x 5/16"W	0.41
	855	1"	Brass	Brass	3/8"	1 1/2"	14"	6" x 3/8"W	6" x 3/8"W	0.69
	855	1 1/4"	Brass	Brass	7/16"	2"	16"	8" x 3/8"W	8" x 3/8"W	0.86
	855	1 1/2"	Brass	Brass	5/8"	2"	21 21/32"	10" x 1/2"W	10" x 1/2"W	2.27
	855	2"	Brass	Brass	5/8"	2"	21 21/32"	12" x 1/2"W	12" x 1/2"W	2.68
	855	1 1/2"	Bronze(GM)	Brass	5/8"	2"	21 21/32"	10" x 1/2"W	10" x 1/2"W	1.55
	855	2"	Bronze(GM)	Brass	5/8"	2"	21 21/32"	12" x 1/2"W	12" x 1/2"W	1.64
LOW PRESSURE	856	3/8"	Brass	Brass	7/32"	1 1/4"	7 1/4"	-	3" x 5/16"W	0.24
	856	1/2"	Nylon	Brass	7/32"	1 1/4"	10"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.26
	856-Z	1/2"	Brass	Brass	7/32"	1 1/4"	10"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.26
	856	3/4"	Brass	Brass	3/8"	1 1/2"	13"	5 1/2" x 5/16"W	5" x 5/16"W	0.40

Note: Where the same flow rate is quoted for 2 sizes of floatvalve, select the smaller size if the indicated flow rate is more than 5% in excess of the flow rate required.



857/859

## FEATURES

- Designed with interchangeable parts to make replacement easy.
- Size range from 1/2" to 2".
- 1/2" to 1" sizes are manufactured in Brass, larger sizes are in Bronze (Gunmetal).
- Removable seats in nylon (1/2" and 3/4") or bronze.
- Choice of plastic or brass backnuts and plastic or brass piston on 1/2" size.
- Suitable for pressures up to 14 bar (200 psi).
- High and low pressure variations.
- Recommended for temperatures from 0-85 °C.

## FLOW RATE & SIZE SELECTION CHART (GPM)

	Static Pressure		BS 1212 PART 1 Seat Bore Size								
	P.S.I.	Feet	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	15/16"	1"	1 1/4"
LOW PRESSURE	0.5	1.15	0.20	0.82	1.84	3.28	5.12	7.37	11.50	13.10	20.50
	1.0	2.30	0.29	1.16	2.61	4.65	7.25	10.40	16.30	18.60	29.00
	2.0	4.60	0.41	1.65	3.69	6.57	10.30	14.80	23.10	26.30	41.00
	4.0	9.20	0.58	2.33	5.22	9.29	14.50	20.90	32.60	37.10	58.00
	7.0	16.10	0.77	3.08	6.90	12.30	19.20	27.60	43.20	49.10	77.00
	10.0	23.10	0.92	3.69	8.27	14.70	23.00	33.10	51.70	58.90	92.00
	15.0	34.60	1.13	4.52	10.10	18.00	28.20	40.50	63.40	72.00	113.00
	20.0	46.20	1.31	5.22	11.70	20.80	32.50	46.80	73.00	83.00	130.00
	25.0	57.70	1.46	5.82	13.00	23.20	36.30	52.30	82.00	93.00	145.00
	30.0	69.30	1.60	6.40	14.30	25.50	39.80	57.30	90.00	102.00	159.00
35.0	80.80	1.73	6.90	15.50	27.50	43.00	62.00	97.00	110.00	172.00	
40.0	92.40	1.85	7.38	16.50	29.50	46.00	66.00	103.00	118.00	184.00	
MEDIUM PRESSURE	50.0	115.00	2.06	8.24	18.50	32.80	51.00	74.00	115.00	131.00	205.00
	60.0	138.00	2.26	9.02	20.20	36.00	56.00	81.00	125.00	144.00	225.00
	70.0	161.00	2.44	9.74	21.80	38.80	61.00	87.00	136.00	155.00	243.00
	80.0	184.00	2.60	10.40	23.30	41.50	65.00	93.00	146.00	166.00	260.00
	90.0	207.00	2.76	11.00	24.70	44.00	69.00	99.00	155.00	176.00	275.00
HIGH PRESSURE	100.0	231.00	2.92	11.60	26.10	46.50	73.00	105.00	163.00	186.00	291.00
	110.0	254.00	3.06	12.20	27.40	48.80	76.00	109.00	172.00	195.00	305.00
	125.0	289.00	3.26	13.10	29.20	52.10	81.00	117.00	183.00	208.00	325.00
	150.0	346.00	3.58	14.30	32.00	57.10	89.00	128.00	200.00	228.00	356.00
	175.0	404.00	3.86	15.40	34.60	61.60	96.00	138.00	216.00	246.00	385.00
200.0	462.00	4.13	16.50	37.00	65.90	103.00	148.00	231.00	267.00	412.00	

### Flow Rate and Size Selection Chart general Notes:

The discharge through a floatvalve is governed by the running pressure maintained at its inlet. In practice this is difficult to measure and so the tables shown indicate the 'estimated' flow rate in G.P.M. that will occur at various static heads for each size of floatvalve or for each size of seat in floatvalves that accept a variety of seat sizes. The flow rates quoted will only occur when the floatvalve is fully open and will reduce as the water level in the tank rises. Excessive pipe runs to the floatvalve will result in lower running pressures and thus reduced flow rates.

## RANGE

	Patt. No.	Size	Piston Material	Backnut Material	Seat Bore	Tail Length	Lever Length	Recommended Float Size		Weight Approx kg	
								Copper	Plastic		
HIGH PRESSURE	NYLON SEAT	857 N	1/2"	Nylon	Brass	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.39
		857 N-Z	1/2"	Nylon	Nylon	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.34
		857 N-S	1/2"	Nylon	Brass	No. 5 (3/16")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.39
		857 N-Y	1/2"	Brass	Brass	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.42
		857 N-X	1/2"	Nylon	Brass	No. 3 (1/8")	1 1/4"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.41
		857 N-W	1/2"	Nylon	Brass	No. 3 (1/8")	1 7/8"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.43
		857 N-V	1/2"	Brass	Brass	No. 3 (1/8")	1 7/8"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.48
		857 N-U	1/2"	Nylon	Brass	No. 3 (1/8")	2 1/2"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.45
	BRONZE SEAT	857 N	3/4"	Brass	Brass	No. 6 (1/4")	1 1/4"	13"	5 1/2" x 5/16"W	5" x 5/16"W	0.90
		857 N	1"	Bronze	Brass	No. 9 (3/8")	1 1/2"	16"	6" x 7/16"W	6" x 7/16"W	1.67
		857 B-Y	1/2"	Brass	Brass	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.43
		857 B-V	1/2"	Brass	Brass	No. 3 (1/8")	1 7/8"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.47
		857 B	3/4"	Brass	Brass	No. 6 (1/4")	1 1/4"	13"	5 1/2" x 5/16"W	5" x 5/16"W	0.92
		857 B	1"	Bronze	Brass	No. 9 (3/8")	1 1/2"	16"	6" x 7/16"W	6" x 7/16"W	1.69
		857 B	1 1/4"	Bronze	Bronze	No. 19 (3/4")	1 7/8"	22 1/2"	8" x 9/16"W	10" x 9/16"W	3.78
LOW PRESSURE	NYLON SEAT	859 N	1/2"	Brass	Brass	No. 9 (3/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.50
		859 N-V	1/2"	Brass	Brass	No. 9 (3/8")	1 7/8"	10 1/2"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.53
		859 N	3/4"	Brass	Brass	No. 13 (1/2")	1 1/4"	13"	5 1/2" x 5/16"W	5" x 5/16"W	0.90
		859 N	1"	Bronze	Brass	No. 16 (5/8")	1 1/2"	16"	6" x 7/16"W	6" x 7/16"W	1.67
	BRONZE SEAT	859 B	1/2"	Brass	Brass	No. 9 (3/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.42

Note: It is normal practice to consider the 857 as a high pressure floatvalve and the 859 as a low pressure. It is, however, possible to use a low pressure valve at high pressures provided an appropriate float is used to ensure shut off at the higher pressure. Similarly, a high pressure valve can be used at low pressures provided the resulting lower flow rates are acceptable. Where two seat size options exist for different sizes of floatvalve, select the smaller size of floatvalve if the flow rate through the seat is more than 5% in excess of the flow required.

858/860



FLOW RATE & SIZE SELECTION CHART (GPM)						
	Static Pressure		BS 1212 PART 1 Seat Bore Size			
	PSI	Feet	1/8"	3/16"	1/4"	3/8"
LOW PRESSURE	0.5	1.15	0.18	0.41	0.55	0.71
	1.0	2.30	0.25	0.58	0.78	1.00
	2.0	4.60	0.35	0.82	1.10	1.40
	4.0	9.20	0.50	1.16	1.56	2.00
	7.0	16.10	0.66	1.53	2.02	2.60
	10.0	23.10	0.79	1.83	2.46	3.20
	15.0	34.60	0.97	2.25	3.00	3.87
	20.0	46.20	1.12	2.60	3.49	4.47
	25.0	57.70	1.25	2.90	3.90	5.00
	30.0	69.30	1.34	3.17	4.27	5.48
MEDIUM PRESSURE	35.0	80.80	1.48	3.43	4.61	5.90
	40.0	92.40	1.58	3.67	4.93	6.30
	50.0	115.00	1.77	4.10	5.50	7.10
	60.0	138.00	1.94	4.50	6.00	7.74
	70.0	161.00	2.10	4.85	6.50	8.30
	80.0	184.00	2.24	5.20	6.98	8.90
HIGH PRESSURE	90.0	207.00	2.37	5.50	7.40	9.50
	100.0	231.00	2.50	5.80	7.80	10.00
	110.0	254.00	2.62	6.08	8.20	10.50
	125.0	289.00	2.79	6.48	8.70	11.20
	150.0	346.00	3.06	7.10	9.50	12.20
	175.0	404.00	3.30	7.67	10.30	13.20
	200.0	462.00	3.53	8.20	11.00	14.10

**Flow Rate and Size Selection Chart general Notes:**  
 The discharge through a floatvalve is governed by the running pressure maintained at its inlet. In practice this is difficult to measure and so the tables shown indicate the 'estimated' flow rate in G.P.M. that will occur at various static heads for each size of floatvalve or for each size of seat in floatvalves that accept a variety of seat sizes. The flow rates quoted will only occur when the floatvalve is fully open and will reduce as the water level in the tank rises. Excessive pipe runs to the floatvalve will result in lower running pressures and thus reduced flow rates.

FEATURES	
•	Designed with a discharge arrangement to prevent back siphonage and thus comply with the Water Supply (Water Fittings) Regulations 1999. DETR Guidance G 16.2.
•	Available in 1/2" and 3/4" sizes.
•	Approval pending with WRC.
•	Manufactured in Brass.
•	Flow controlled by rubber diaphragm which isolates the plunger and helps to reduce the risk of sticking in waters with a high lime content.
•	Suitable for pressures up to 14 bar (200 psi).
•	High and low pressure variations.
•	Recommended for temperatures from 0-85°C.

RANGE											
		Patt. No.	Size	Diaphragm Material	Backnut Material	Seat Bore	Tail Length	Lever Length	Recommended Float Size		Weight Approx kg
								Copper		Plastic	
HIGH PRESSURE	NYLON SEAT	858 N	1/2"	Rubber	Brass	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.45
		858 N-Z	1/2"	Rubber	Nylon	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.40
		858 N-V	1/2"	Rubber	Brass	No. 3 (1/8")	1 7/8"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.47
		858 N	3/4"	Rubber	Brass	No. 6 (1/4")	1 1/2"	8 3/4"	6" x 5/16"W	6" x 5/16"W	0.52
	BRONZE SEAT	858 B	1/2"	Rubber	Brass	No. 3 (1/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.47
		858 B-V	1/2"	Rubber	Brass	No. 3 (1/8")	1 7/8"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.49
LOW PRESSURE	NYLON SEAT	860 N	1/2"	Rubber	Brass	No. 9 (3/8")	1 1/4"	8 3/4"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.54

**Note:** It is normal practice to consider the 858 as a high pressure floatvalve and the 860 as a low pressure. It is, however, possible to use a low pressure valve at high pressures provided an appropriate float is used to ensure shut off at the higher pressure. Similarly, a high pressure valve can be used at low pressures provided the resulting lower flow rates are acceptable. Where two seat size options exist for different sizes of floatvalve, select the smaller size of floatvalve if the flow rate through the seat is more than 5% in excess of the flow required.



901

## FEATURES

- Designed to minimise the effect of changing water pressures.
- Size range from 1/2" to 1" available in Brass with 1 1/4" to 6" available in Bronze (Gunmetal).
- Smoothly controlled closure ensures a fast quiet shut off.
- Line pressure assists closing thus reducing the length of lever required.
- One size of seat and one size of ball float suits any working pressure up to 14 bar or the maximum recommended (detailed below).
- Recommended for temperatures from 0-85°C.

## FLOW RATE & SIZE SELECTION CHART (GPM)

Static Pressure		901 – Floatvalve Size									
BAR	PSI	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
0.5	7.2	4.9	12.5	28.0	50.0	70.0	110.0	250.0	310.0	450.0	800.0
1.0	14.5	6.9	17.7	38.0	71.0	100.0	150.0	350.0	440.0	630.0	1130.0
1.5	21.7	8.4	21.7	48.0	87.0	120.0	190.0	430.0	540.0	770.0	1380.0
2.0	29.0	9.7	25.0	55.0	100.0	140.0	220.0	500.0	620.0	890.0	1600.0
2.5	36.2	10.9	28.0	62.0	112.0	150.0	250.0	560.0	690.0	1000.0	1780.0
3.0	43.5	11.9	31.0	68.0	122.0	170.0	270.0	610.0	760.0	1100.0	1950.0
4.0	58.0	13.8	35.0	80.0	142.0	190.0	320.0	710.0	880.0	1270.0	2250.0
5.0	72.0	15.3	39.0	88.0	157.0	220.0	350.0	790.0	980.0	1400.0	2500.0
6.0	87.0	16.8	43.0	96.0	173.0	240.0	380.0	870.0	1070.0	1550.0	2750.0
7.0	101.0	18.2	46.0	104.0	186.0	260.0	420.0	940.0	1160.0	1670.0	2950.0
8.0	116.0	19.5	50.0	110.0	200.0	280.0	440.0	1000.0	1250.0	1800.0	3200.0
9.0	130.0	20.7	53.0	118.0	212.0	300.0	470.0	1060.0	1320.0	1900.0	3400.0
10.0	145.0	21.7	56.0	125.0	223.0	315.0	500.0	1120.0	1390.0	2000.0	3550.0
11.0	159.0	22.8	59.0	130.0							
12.0	174.0	23.8	61.0	136.0							
13.0	188.0	24.9	64.0	142.0							
14.0	203.0	25.7	66.0	148.0							

NOT SUITABLE FOR PRESSURES ABOVE 10 BAR

Flow Rate and Size Selection Chart general Notes

The discharge through a floatvalve is governed by the running pressure maintained at its inlet. In practice this is difficult to measure and so the tables shown indicate the 'estimated' flow rate in G.P.M. that will occur at various static heads for each size of floatvalve or for each size of seat in floatvalves that accept a variety of seat sizes. The flow rates quoted will only occur when the floatvalve is fully open and will reduce as the water level in the tank rises. Excessive pipe runs to the floatvalve will result in lower running pressures and thus reduced flowrates.

## RANGE

		Patt. No.	Size	Piston Material	Backnut Material	Seat Bore	Tail Length	Lever Length	Recommended Float Size		Weight Approx kg
									Copper	Plastic	
REDUCED BORE	BRASS CONSTRUCTION	901	1/2"	brass	brass	5/16"	1 1/4"	11"	4 1/2" x 5/16"W	4 1/2" x 5/16"W	0.47
		901	3/4"	brass	brass	1/2"	1 1/4"	12 7/8"	5 1/2" x 5/16"W	5" x 5/16"W	0.91
		901	1"	brass	brass	3/4"	1 1/2"	10 1/16"	6" x 7/16"W	6" x 7/16"W	1.56
	BRONZE CONSTRUCTION	901	1 1/4"	bronze	bronze	1 1/64"	1 7/8"	10 13/16"	8" x 9/16"W	8" x 9/16"W	3.40
		901	1 1/2"	bronze	bronze	1 3/16"	1 7/8"	10 13/16"	10" x 9/16"W	10" x 9/16"W	3.42
		901	2"	bronze	bronze	1 1/2"	2 1/8"	11 1/8"	12" x 5/8"W	12" x 5/8"W	5.84
		901	2 1/2"	bronze	bronze	2 1/4"	3"	19"	12" x 9/16"W	-	5.11
		901	3"	bronze	bronze	2 1/2"	3 1/2"	20"	14" x 3/4"W	-	8.25
		901	4"	bronze	bronze	3"	4"	21"	15" x 3/4"W	-	12.78
		901	6"	bronze	bronze	4"	5"	23"	16" x 7/8"W	-	24.55

Note: Where two sizes or two patterns of floatvalve are capable of providing the required flow rate, select the smaller size if the indicated flow rate is more than 10% in excess of the flow rate required.

# 50 DRAINCOCKS & FITTINGS



DRAINCOCKS RANGES			
DRAINCOCKS HEAVY PATTERN			
Patt. No.	Description	Sizes	
		1/2"	3/4"
833	Brass Draincock, Type A to BS 2879/2, gland seal on spindle	•	•
833LS	Brass Draincock, Type A to BS 2879/2, with Lockshield, gland seal on spindle	•	
833GM	Brass Draincock, Type A to BS 2879/2, gland seal on spindle	•	
833GMLS	Brass Draincock, Type A to BS 2879/2, with Lockshield, gland seal on spindle	•	
838	Brass Draincock, Type A to BS 2879/2, with plain inlet, gland seal on spindle	•	
DRAINCOCKS LIGHT PATTERN			
Patt. No.	Description	Sizes	
		1/2"	3/4"
834	Brass Draincock, Type B	•	•
836	Brass Draincock, Type B with plain inlet	•	

**STANDARDS** Heavy pattern draincocks are manufactured to BS 2879/2 Type A. Light pattern draincocks conform to Pegler performance standards.

**MATERIAL** Draincocks are manufactured in Forged Brass or Gunmetal. Pressure/Temperature Rating 20 bar at 120°C (max working).

**THREADING** Male connections are to BS 21 Taper.

SPRING SAFETY VALVES RANGE			
Patt. No.	Description	Sizes	
		1/2" x 3/4" Outlet	3/4" x 1" Outlet
816 - SV	Spring safety valve	•	•

**MATERIAL** All are manufactured in Brass.

**THREADING** Female x Female, supplied with male nipple.

**PRESSURE RATING** Factory set at 2.5 bar.

**SPRING** Stainless steel.

BACKNUTS RANGES							
Patt. No.	Description	Sizes					
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
915	Heavy Pattern	•	•	•			
915L	Light Pattern	•	•	•	•	•	•

**MATERIAL** All are manufactured in Brass.

**THREADING** BS 2779 Parallel.

AIRCOCK KEYS			
Patt. No.	Description	Sizes	
		1/8"	1/4"
1069	Radiator Air Cock	•	•
Key	Aircock Key	•	

**MATERIAL** All are manufactured in Brass to BS EN 12164.

**THREADING** (1069) BS 21 Taper.

PRESSURE EQUIPMENT DIRECTIVE		
Patt. No.	Sizes	
	1/2"	3/4"
833GM	SEP	-
816 - SV	Cat 4	Cat 4

Category 4 is marked CE1115.

RANGE		
SINK WASTES		
Patt. No.	Description	Finish
		Chromium Plate
1 1/2" 772	Sink waste, slotted, 3 3/8" flange, 3 1/2" tail, metal backnut	•
1 1/2" 772 NS	Sink waste, no slot, 3 3/8" flange, 3 1/2" tail, metal backnut	•
1 1/2" 772 NS/1 3/8"	Sink waste, no slot, 3 3/8" flange, 1 3/8" tail, metal backnut	•
1 1/2" 779	Combined sink waste and overflow, plastic backnut	•
BASIN WASTES		
Patt. No.	Description	Finish
		Chromium Plate
1 1/4" 772L/PN	Basin waste, slotted, 2 7/16" flange, 3 1/2" tail, plastic backnut	•
1 1/4" 772L	Basin waste, slotted, 2 7/16" flange, 3 1/2" tail, metal backnut	•
1 1/4" 772LNS	Basin waste, no slot, 2 7/16" flange, 3 1/2" tail, metal backnut	•
1 1/4" 778	Combined basin waste and overflow, plastic backnut	•
BATH WASTES		
Patt. No.	Description	Finish
		Chromium Plate
1 1/2" 765	Bath waste, 2 7/8" flange, 1 1/8" tail, metal backnut	•
1 1/2" 765/2	Bath waste, 2 7/8" flange, 2" tail, metal backnut	•
1 1/2" 771	Combined bath waste with pop-up	•
1 1/2" 777	Combined bath waste and overflow, plastic backnut	•
SHOWER WASTES		
Patt. No.	Description	Finish
		Chromium Plate
1 1/2" 762	Shower waste, flush grated, slotted, 3 3/8" flange, 3 1/2" tail, metal backnut	•
1 1/2" 762NS	Shower waste, flush grated, no slot, 3 3/8" flange, 3 1/2" tail, metal backnut	•
1 1/2" 764NS	Shower waste, flush grated, no slot, 2 7/8" flange, 2 3/8" tail, metal backnut	•
STOPPERS AND PLUGS		
Patt. No.	Description	Finish
		Chromium Plate
774	Taphole stopper	•
1 1/4" Plug	Brass Basin Plug	•
1 1/2" Plug	Brass Bath Plug	•

Where appropriate Chromium Plated wastes are supplied with a plastic plug.

772L



772L



771



779



762



772



**STANDARDS**

Where a Mazak (metal) backnut is utilised all wastes comply with BS 3380:1982.

**MATERIAL**

All wastes are manufactured in Brass to BS 2872 or BS 2874. The majority are supplied with backnuts in Mazak (metal) to BS 1004:1972 Alloy A.



## FEATURES

Manufactured to EN 1254 (formerly BS 864/2), and carrying the prestigious Kite mark, Prestex 'Type A' compression fittings are suitable for mechanically joining copper or stainless steel tube by means of compressing a cone onto the tube without the application of heat.

The range is designed for use with copper tube to BS EN 1057:1996 (formerly BS 2871:Part 1), BS 2871:Part 2, or stainless steel tube to BS 4127:1994.

Fittings are available in a choice of brass or DZR brass bodies, all with brass capnuts as standard.

Sizes range from 8mm up to 54mm, covering a wide range of product alternatives including straights, elbows, tees, crosses and reducers to cope with all installation requirements.

## GENERAL SPECIFICATION

Nominal Pipe Size	Guide to Tightening
8mm	¾ to 1 Turn
10mm	¾ to 1 Turn
12mm	¾ to 1 Turn
15mm	¾ to 1 Turn
18mm	¾ to 1 Turn
22mm	¾ to 1 Turn
28mm	¾ to 1 Turn
35mm	1 to 1¼ Turns
42mm	1 to 1¼ Turns
54mm	1 to 1¼ Turns

### Notes

1. Jointing compounds or sealants are not necessary with PRESTEX fittings; the use of these materials could impair the efficiency of the joint and may contravene local water regulations.

2. Over-tightening will not produce a better joint, and may lead to problems in service. Type A fittings as specified in EN 1254 are suitable for use at the following pressures and temperatures.

## TECHNICAL SPECIFICATION

Medium	Service temp up to °C	Max working pressure	
		bar	psi
Water OR Light Mineral Oils 8 to 54mm sizes	30	16	232
	65	10	145
	110	6	87
Compressed Air Non-Shock 8 to 28mm sizes only	120	5	72
	30	7	100
Saturated Steam	120	3	43
LPG 8 to 28mm sizes only	30	1	15
Natural Gas 8 to 28mm sizes	60	5	73

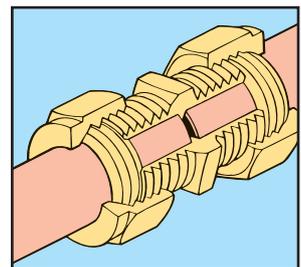
Note: Chromium plated Type A compression fittings comply with the same criteria as un-plated fittings.

## HOW TO MAKE A TYPE A JOINT

1. Ensure that the fitting is the correct size for the pipe being used. Cut the pipe to length, making sure that the cut is square and the pipe is not deformed. Remove any burrs from the cut ends.

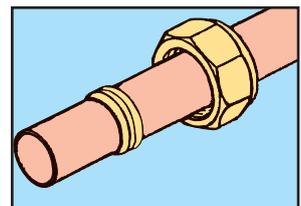
### EITHER

- 2a. Insert the pipe into the fitting without removing the capnut and cone, ensuring that the cone is in the correct position and that the pipe makes firm contact with the stop in the body of the fitting.

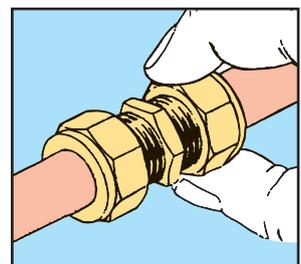


### OR

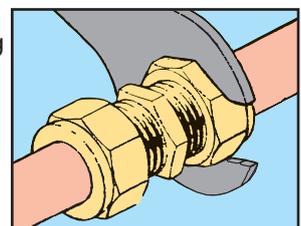
- 2b. Unscrew the capnut and cone from the fitting. Slide the capnut and cone onto the pipe, and insert the pipe into the fitting as far as the stop.



3. In both cases, tighten the capnut onto the fitting until the pipe cannot be rotated by hand. A drop of light machine oil on the threads will facilitate tightening (particularly on larger sizes).



4. Tighten the capnut with a good, well-fitting spanner, using the table below as a guideline taking into consideration any variations in installation conditions.





## FEATURES

Manufactured to EN 1254-3 and EN 1254-4 and approved under the renowned WRc approval scheme, Prestex PL compression fittings are suitable for mechanically joining metric or imperial sized polyethylene by means of compressing a cone onto the tube which is internally supported by a stiffener.

The range is designed for use with metric sized MDPE polyethylene pipe to BS 6572:1985 and BS 6730:1986 or for use with imperial sized polyethylene pipe to BS 1972:1967 and BS 3284:1967. Fittings have bodies and capnuts in dezincification resistant (DZR) metal.

Sizes range from 20mm to 32mm. Fittings and stiffeners are available to join metric sizes to imperial and polyethylene pipe to copper or iron, making the range versatile and adaptable for all installation requirements.

## GENERAL SPECIFICATION

Pipe	Maximum working pressure	
	bar	psi
BS 6572 Blue or Black Metric Size	12	175
BS 1972 or BS 3284 BLACK Imperial Size:		
CLASS B	6	87
CLASS C	9	130
CLASS D	12	175

PRESTEX PL fittings are suitable for cold water applications up to 20°C to the pressure limit of the pipe.

**Note:** Blue pipe to BS 6572 is intended for underground use only. When used above ground it should be protected from sunlight by enclosure in ducts or buildings.

## TECHNICAL SPECIFICATION

Size	Maximum working pressure		
	20mm	25mm	32mm
TEST FORCE (KILO NEWTONS)	1.9	2.5	4.1
TEST FORCE (LBS)	427	562	921

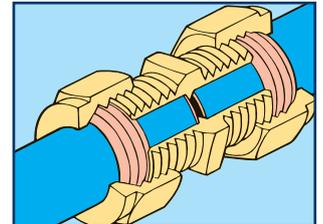
**Note:** Chromium plated Type A compression fittings comply with the same criteria as un-plated fittings.

## HOW TO MAKE A PL COMPRESSION JOINT

1. Ensure that the fitting is the correct size for the pipe used. Cut the pipe to length, making sure that the cut is square and the pipe is not deformed. Remove any burrs from the cut ends.
2. Insert the appropriate stiffener fully into the end of the pipe until the flange of the stiffener is in contact with the pipe end. If necessary use a sharp knife to produce a small chamfer on the leading edge of the pipe bore.

### EITHER

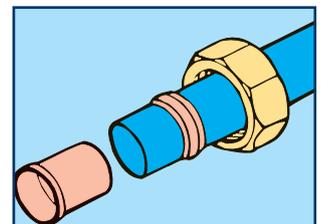
- 3a. Insert the pipe into the fitting without removing the capnut and cone, ensuring that the cone is in the correct position and that the pipe makes firm contact with the stop in the body of the fitting.



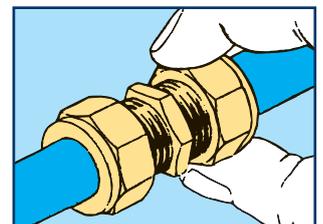
### OR

- 3a. Unscrew the capnut and cone from the fitting. Slide the capnut and cone onto the pipe, and insert the pipe into the fitting as far as the stop.

4. In both cases, tighten the capnut onto the fitting by hand as far as possible. A drop of light machine oil on the threads will facilitate tightening (particularly on larger sizes).



5. Fully tighten the capnut with a good well-fitting spanner.



**Note:** Jointing compounds or sealants are not necessary with PRESTEX PL fittings: the use of these materials could impair the efficiency of the joint.

**Note:** Because metric Prestex PL cones are not symmetrical you should always check to see that the cone is the right way round i.e. that the leading edge is the smaller.

## DESIGN CONSIDERATIONS

Stress corrosion cracking (SCC) is a phenomenon that occurs occasionally with brass compression fittings. It is almost always introduced during installation, either from over-tightening of fittings or contamination from a corrosive substance.

The usual corrosive substance involved in SCC is ammonia or ammoniacal compounds, which can be found in cleaning fluids, refrigeration gases, sewage waste products, building materials, insulating materials (especially foams) and flame and smoke retarding treatments. An essential ingredient in the SCC process is moisture. Moisture on the fitting or pipework allows the corrosive substance to collect and become more concentrated. This is a particular problem in chilled water installations, where insulating materials allow the condensed moisture to be retained and kept in close contact with the fitting surface.

Pegler does not recommend the use of brass components in chilled water applications.

Where all components upon which the integrity of the fitting is dependent, ones made from SCC resistant or immune materials, such as copper or

gunmetal, are recommended. If compression fittings are used then they should be assembled exactly in accordance with our published instructions and securely bound by a moisture barrier such as Densotape® to prevent moisture build up on the fitting.

The following installation practices should be adhered to when installing compression fittings in order to avoid SCC:

1. Do not overtighten brass components.
2. Use correctly fitting spanners.
3. Use a drop or two of light oil on the threads of fittings of sizes 35mm and above.
4. Avoid contaminating the threads or nuts with jointing compounds.

Minimise the risk of contamination from a potential corrosive substance. Wrapping susceptible fittings in a vapour barrier or applying impermeable paints can be helpful in preventing contact with a corrosive substance.

## PRESSURE/TEMPERATURE RATING TABLES

SERVICE TEMP °C	Maximum Permissible Working Pressure (Bar)							
	PN16	Class100	Class 150	PN20	PN25	PN32	Class 250	PN40
	Flanged or Threaded	Flanged	Flanged	Threaded	Flanged or Threaded	Threaded	Threaded	Threaded
	Series B	Series B	Series B	Series B	Series B	Series B	Series A	Series A
-10 to 66	16.0	13.8	15.5	20.0	25.0	32.0	34.5	40.0
100	16.0	11.9	14.3	20.0	25.0	32.0	34.5	40.0
120	13.5	11.1	13.5	17.2	21.8	28.3	34.5	40.0
150	9.5	9.3	12.4	13.0	16.5	22.8	34.5	38.5
170	7.0	6.9	11.7	10.3	12.8	19.2	34.5	35.5
180			11.3	9.0	11.3	17.4	34.5	34.0
186			11.1		10.5	16.2	33.1	32.8
198						14.0	30.4	30.4
200							30.2	30.0
220							25.8	25.5
250							19.4	19.5
260							17.5	17.5

	Ball Valves	Gate Valves	Globe Valves	Check Valves
PN40	PB700			
PN32		1072	1029 1031	1039
PN25	PB500 PB100			1060A 1062
PN20		1070/125 1068 1068LS		
PN16	PB300*	63* GM63*		
UNRATED		1065 P81M		1063 1064

Note: Intermediate values may be interpolated. Full details should be obtained from the main catalogue pages.

\*Denotes Temperature/Pressure limited by end connection.

CONVERSION FORMULAS	
<b>1. TEMPERATURE</b> Celcius to Fahrenheit $^{\circ}\text{F} = \left( \frac{9 \times ^{\circ}\text{C}}{5} \right) + 32$	Fahrenheit to Celsius $^{\circ}\text{C} = 5 \times \left( \frac{^{\circ}\text{F} - 32}{9} \right)$
<b>2. PRESSURE</b> Bar to psi x 14.5038	psi to bar ÷ 14.5038
<b>3. WEIGHT</b> Kg to lbs x 2.2046	lbs to Kg ÷ 2.2046
<b>4. MEASUREMENT</b> mm to inches ÷ 25.4	inches to mm x 25.4

**GAS APPLICATIONS**

Where indicated Pegler valves are suitable for use with water, steam, oil and certain gases. It is common practice for manufacturers to claim that their valves are suitable with gas. In fact, gases vary widely in their properties and the following explanation is offered for guidance.

Gases may be classified as follows:-

**Class 1. INERT**  
 Air, argon, carbon dioxide, helium, nitrogen

**Class 2. COMBUSTIBLE**  
 Hydrogen, methane, natural gas, town gas

**Class 3. CORROSIVE**  
 Chlorine, sulphur dioxide

**Class 4. OXYGEN**

**THE SUITABILITY OF PEGLER VALVES FOR HANDLING DIFFERENT CLASSES OF GAS**

**Class 1. INERT**  
 Entirely suitable. We recommend the renewable disk valves for preference. When ordering please state the specific purpose for which the valve is required.

**Class 2. COMBUSTIBLE**  
 There is no technical reason why our valves should not be used. However, in view of the hazards involved and the special requirements and approvals required by British Gas, we do not make any general recommendation for this class of gas unless specified, but will be pleased to discuss specific applications.

**Class 3. CORROSIVE**  
 Copper alloy valves are only suitable for such application if moisture is completely absent.

**Class 4. OXYGEN**  
 Oxygen can react dangerously with oils and greases, and normal lubricants cannot be used so brass/bronze valves are not recommended for this use.



The perfect commercial partnership



Pegler is an expert in the production of Taps, Mixers and Valve products. It boasts an unrivalled track record for integrity, quality, reliability and innovation.



Yorkshire is a specialist in the production of metal plumbing and heating fittings. It has an established reputation for manufacturing quality products.



LUXURY TAP SOLUTIONS



HEATING CONTROLS



VALVES AND FITTINGS



UTILITY TAP SOLUTIONS



INTEGRAL SOLDER RING FITTINGS



THE PUSH-FIT JOINTING SYSTEM



THE PRESS-FIT JOINTING SYSTEM



COMPRESSION FITTINGS



END FEED FITTINGS



COMMERCIAL VALVES

# PRESTEX

## Valves and Fittings

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Northern team:

Telephone: 0870 1200281 Fax: 01302 560108

Southern team:

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Western team:

Telephone: 0870 1200283 Fax: 01302 560109

Eastern team:

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