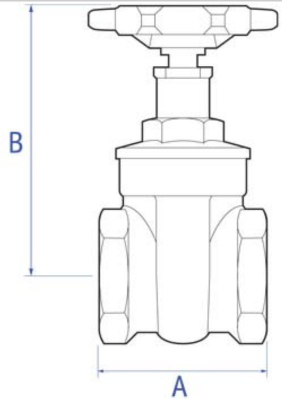
Pegler

Forged brass full way gate valve

1065 Gate valve

Size	Pattern No.	Pack 1 Qty	Pack 2 Qty	Code	Barcode	Price (£) ex VAT test
1/2"	1065	10	0	202007	5013866014741	£22.07
3/4"	1065	10	0	202008	5013866014758	£27.39
1"	1065	5	0	202009	5013866014765	£40.34
1.1/4"	1065	5	0	202010	5013866014772	£61.04
1.1/2"	1065	2	0	202011	5013866014789	£85.50
2"	1065	2	0	202012	5013866014796	£118.90
1/2"	1065 AT	10	0	202042	5022050233769	£22.07
3/4"	1065 AT	10	0	202043	5022050233806	£27.39
1"	1065 AT	5	0	202044	5022050233844	£40.34
1.1/4"	1065 AT	5	0	202045	5022050233882	£61.04
1.1/2"	1065 AT	2	0	202046	5022050233318	£85.50
2"	1065 AT	2	0	202047	5022050233356	£118.90
1/2"	1065 PT	10	0	202052	5022050397652	£22.07
3/4"	1065 PT	10	0	202053	5022050397706	£27.39
1"	1065 PT	5	0	202054	5022050397720	£40.34
1.1/4"	1065 PT	5	0	202055	5022050397744	£61.04
1.1/2"	1065 PT	2	0	202056	5022050397768	£85.50
2"	1065 PT	2	0	202057	5022050397782	£118.90

1065 Gate valve



Code	Description	A	B	Kg
202007	1/2" 1065	46	70	0.27
202008	3/4" 1065	50	80	0.37
202009	1" 1065	57	95	0.58
202010	1.1/4" 1065	64	115	0.94
202011	1.1/2" 1065	68	125	1.19
202012	2" 1065	81	155	2.09
202042	1/2" 1065 AT	46	70	0.27
202043	3/4" 1065 AT	50	80	0.37
202044	1" 1065 AT	57	95	0.58
202045	1.1/4" 1065 AT	64	115	0.94
202046	1.1/2" 1065 AT	68	125	1.19
202047	2" 1065 AT	81	155	2.09
202052	1/2" 1065 PT	46	70	0.27
202053	3/4" 1065 PT	50	80	0.37
202054	1" 1065 PT	57	95	0.58
202055	1.1/4" 1065 PT	64	115	0.94
202056	1.1/2" 1065 PT	68	125	1.19
202057	2" 1065 PT	81	155	2.09

Pegler Yorkshire reserve the right to change specifications

Size	Pattern No.	Code	Kv m3/h	Cv - US GPM
1/2"	1065	202007	14.00	-
3/4"	1065	202008	32.00	-
1"	1065	202009	57.00	-
1.1/4"	1065	202010	90.00	-
1.1/2"	1065	202011	129.00	-
2"	1065	202012	230.00	-

Size	Pattern No.	Code	Kv m3/h	Cv - US GPM
1/2"	1065 AT	202042	14.00	16.40
3/4"	1065 AT	202043	32.00	37.40
1"	1065 AT	202044	57.00	66.70
1.1/4"	1065 AT	202045	90.00	105.30
1.1/2"	1065 AT	202046	129.00	150.90
2"	1065 AT	202047	230.00	269.10
1/2"	1065 PT	202052		
3/4"	1065 PT	202053		
1"	1065 PT	202054		
1.1/4"	1065 PT	202055		
1.1/2"	1065 PT	202056		
2"	1065 PT	202057		

Pegler Yorkshire reserve the right to change specifications

Valves and Fittings

Pegler Yorkshire Customcare 5 Year Guarantee - Terms and Conditions

Products are subject to a 5 year guarantee that is between Pegler Yorkshire and the final purchaser of the product.

The guarantee is subject to proof of purchase being supplied.

This guarantee does not affect any statutory rights the consumer may have in law.

The guarantee covers manufacturing or material defects and does not cover parts subject to normal wear and tear.

This product range has been designed for the use of homeowners, domestic and commercial applications and therefore the guarantee is subject to the product being properly selected for their intended service conditions.

The guarantee is not applicable where the product is fitted contrary to the conditions in the fitting instructions.

This is reinforced where valves are covered by the European Pressure Equipment Directive (PED97/23/EC) where Installation, Operating and Maintenance Instructions are supplied with each product and/or carton.

Provided it is installed correctly and receives adequate preventative maintenance it should give years of trouble –free service.

Abusive behaviour and accidental damage to the product are not covered by this guarantee.

The extent of this liability is limited to the cost of the replacement of the defective item and not to fitting or consequential damages.

Description	Minimum Operating Pressure (bar)	Maximum Cold Working Pressure (bar)	Maximum Hot Working Pressure (bar)
1065 Gate valve	No Minimum Operating Pressure	17.5 bar at temperatures up to 93oC	Not Suitable for Maximum Hot Working Pressure

Care
No regular aesthetic care is required for this product

Maintenance
A regular maintenance program is the most efficient method of ensuring longer term operational efficiency of the selected valve. Such a program would need to include a risk assessment and a planned procedure of how the maintenance will be carried out. The possibility of operational limits being exceeded and the potential hazards ensuring must be considered as part of this assessment. This should be implemented to include visual checks on the valve’s condition and any development of unforeseen conditions, which could lead to failure. The correct fitting tools and equipment should be used for valve maintenance work. Separate means of draining the pipe work must be provided when carrying out any maintenance to valves. Where there may be any system debris this could be collected and /or filtered by installation of the appropriate protective device.

For further help please contact your local engineer.

If your product is under warranty please contact the Service Support Team on: 0800 1560050

Regulations
THE PRESSURE EQUIPMENT DIRECTIVE 97/23/EC and CE MARKING
The Pressure Equipment Regulations 1999 (SI 1999/2001) have now been introduced into United Kingdom law.

Valves with a maximum allowable pressure greater than 0.5 bar are covered by these new Regulations. Valves are categorised according to their maximum working pressure, size and rising level of hazard. The level of hazard varies according to the fluid being carried. Fluids are classified as Group 1, dangerous fluids or Group 2, all other fluids including steam. The Categories designated are SEP (sound engineering practice). Valves up to and including 25mm (1”) are designated SEP regardless of the fluid group. Those identified as having increased hazard are Categorised as, I, II, III or IV. All valves designated as SEP do not bear the CE mark nor require a Declaration of Conformity. Categories I, II, III or IV carry the CE mark and require a Declaration of Conformity. Valves classified from the piping chart would not be included in Category IV.

Size	Pattern No.	Code	PED Categorisation
1/2"	1065	202007	SEP
3/4"	1065	202008	SEP
1"	1065	202009	SEP
1.1/4"	1065	202010	SEP
1.1/2"	1065	202011	SEP
2"	1065	202012	SEP
1/2"	1065 AT	202042	-
3/4"	1065 AT	202043	-
1"	1065 AT	202044	-
1.1/4"	1065 AT	202045	-
1.1/2"	1065 AT	202046	-
2"	1065 AT	202047	-
1/2"	1065 PT	202052	-
3/4"	1065 PT	202053	-
1"	1065 PT	202054	-
1.1/4"	1065 PT	202055	-
1.1/2"	1065 PT	202056	-
2"	1065 PT	202057	-

Pegler Yorkshire reserve the right to change specifications

Component	Material
Body	Forged Brass
Bonnet	Forged Brass
Stem	Brass Bar
Wedge	Forged Brass
Gland Screw	Brass Bar
Handwheel	Aluminium
Handwheel Nut	Brass Bar
O Rings	Nitrile Rubber
Rating Disc	Aluminium

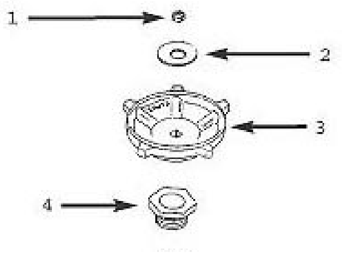
Steam	Water	Oil	Air	Gas Inert	Gas Combustible†	Gas Corrosive††	Gas Oxygen
no	yes	yes	no	no	no	no	no

Pegler Yorkshire reserve the right to change specifications

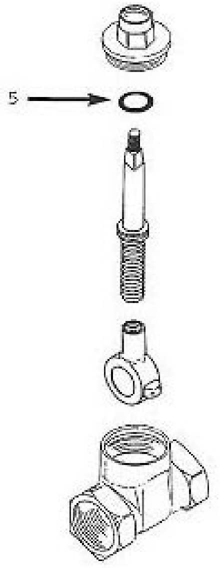
Gas application guide

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
Class 1. INERT Air, argon, carbon dioxide, helium, nitrogen
† Valves are suitable for British Gas Applications Family Gases 1, 2 and 3.
†† Suitable in applications where moisture is completely absent.

1065 Gate valve



Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
			1			
1	WN1 HANDWHEEL NUT BRASS (M5)	850481	5013866060977	01/01/1900	To Current	£0.61
1	WN1 HANDWHEEL NUT BRASS (M5)	850481	5013866060977	01/01/1900	To Current	£0.61
1	WN1 HANDWHEEL NUT BRASS (M5)	850481	5013866060977	01/05/1997	To Current	£0.61
1	WN2 HANDWHEEL NUT BRASS	850482	5013866060984	01/01/1990	30/04/1997	£0.61



Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
	(M6)					
1	WN2 HANDWHEEL NUT BRASS (M6)	850482	5013866060984	01/01/1900	To Current	£0.61
1	WN2 HANDWHEEL NUT BRASS (M6)	850482	5013866060984	01/01/1900	To Current	£0.61
1	WN2 HANDWHEEL NUT BRASS (M6)	850482	5013866060984	01/01/1900	To Current	£0.61

Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
2						
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69
2	RATING DISC 1065 - SIZE 1	850421	5013866060557	01/01/1900	To Current	£0.69

Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
3						
3	W1 HANDWHEEL (RED)	850100	5013866059513	01/01/1900	To Current	£8.37
3	W1 HANDWHEEL (RED)	850100	5013866059513	01/01/1900	To Current	£8.37
3	W3 HANDWHEEL (RED)	850101	5013866059520	01/05/1997	To Current	£8.37
3	W4 HANDWHEEL (RED)	850102	5013866059537	01/01/1990	30/04/1997	£8.37
3	W5 HANDWHEEL (RED)	850103	5013866059544	01/01/1900	To Current	£8.37
3	W6 HANDWHEEL (RED)	850104	5013866059551	01/01/1900	To Current	£13.27
3	W7 HANDWHEEL (RED)	850105	5013866059568	01/01/1900	To Current	£13.27

Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
4						
4	GS2 GLAND SCREW	850336	5013866060090	01/01/1900	To Current	£3.34
4	GS2 GLAND SCREW	850336	5013866060090	01/01/1900	To Current	£3.34
4	GS5 GLAND SCREW	850339	5013866060120	01/01/1900	To Current	£4.19
4	GS7 GLAND SCREW	850341	5013866060137	01/01/1900	To Current	£4.19
4	GS9 GLAND SCREW	850343	5013866060151	01/01/1900	To Current	£4.73
4	GS11 GLAND SCREW	850345	5013866060175	01/01/1900	To Current	£5.02

Spare Key	Description	Code	Barcode	Date From	Date To	Price (£) ex VAT
5						
5	OR28 O RING	850370	5013866060281	01/01/1900	To Current	£2.42
5	OR28 O RING	850370	5013866060281	01/01/1900	To Current	£2.42
5	OR29 O RING	850371	5013866060298	01/01/1900	To Current	£2.54
5	OR30 O RING	850372	5013866060304	01/01/1900	To Current	£2.66
5	OR31 O RING	850373	5013866060311	01/01/1900	To Current	£2.66
5	OR32 O RING	850374	5013866060328	01/01/1900	To Current	£2.79

Product Data Sheet: Valves Package

THE PRESSURE EQUIPMENT DIRECTIVE 97/23/EC & CE MARKING

The Pressure Equipment Regulations 1999 (SI 1999/2001) have now been introduced into United Kingdom law. Valves with a maximum allowable pressure greater than 0.5 bar are covered by these new Regulations. Valves are categorised according to their maximum working pressure, size and rising level of hazard. The level of hazard varies according to the fluid being carried. Fluids are classified as Group 1 ,dangerous fluids or Group 2, all other fluids including steam. The categories designated are SEP (sound engineering practice). Valves up to and including 25mm (1") are designated SEP regardless of the fluid group. Those identified as having increased hazard are categorised as, I, II, III or IV. All valves designated as SEP do not bear the CE mark nor require a Declaration of Conformity. Categories I, II, III or IV carry the CE mark and require a Declaration of Conformity. Valves classified from the piping chart would not be included in Category IV.

CE MARKING & THE ATEX Directive 94/9/EC

Concerning equipment and protection systems intended for use in potentially explosive atmospheres. This has been implemented in United Kingdom law by the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmosphere Regulations 1996(31 1996/192) and amended by The Equipment and Protective Systems (amendment) Regulations 2001 (SI2001/3766). The regulations apply to all valves where each valve: a) has its own potential source of ignition. b) operates in a potentially explosive atmosphere created by:

- i) the presence of air/dust mixtures external to the valve.
- ii) the presence of gases, vapours, mists released from the valve through leakage.

The regulations will not apply to a valve without a potential source of ignition, which operates in a dust free environment and the fluid being transported is cold, inert gas or non-flammable liquid. The requisite level of protection for valves not exempt from the regulations is defined as Group II category 2 and shall bear the following markings: ⬡Ex II 2 GD X

VALVE SELECTION *Selection, Storage & Protection*

Valves must be properly selected for their intended service conditions. Provided it is installed correctly and receives adequate preventative maintenance it should give years of trouble-free service. They must be compatible with the system design, pressure and temperature requirements and must be suitable for the fluids that they are intended to carry. Interactions between metals in the pipe system and the valve must be considered as part of the valve selection.

Valves should be stored off the ground in a clean, dry, indoor area.

Where desiccant bags are included with the valve these should be changed after a period of 6 months.

Pegler valves are supplied in cardboard cartons or are bagged as appropriate and so adequate protection from damage is provided. When Pegler valves are fitted with pressure equipment or assemblies, suitable protective devices may be required.

PRESSURE/TEMPERATURE RATING

Valves must be installed in a piping system whose normal pressure and temperature does not exceed the stated rating of the valve. The maximum allowable pressure in valves as specified in the standards is for non-shock conditions. Water hammer and impact should also be avoided.

If system testing will subject the valve to pressures in excess of the working pressure rating, this should be within the "shell test pressure for the body" to a maximum of 1.5 times the PN rating and conducted with the valve fully opened.

It may be hazardous to use these valves outside of their specified pressure and temperature limitations and also when not used for the correct application.

LOCATION/END-OF-LINE SERVICE

To ensure ease of operation, adjustment, maintenance and repair, valve siting should be decided during the system design phase.To prevent imposing strain on the valve seat, pipe work and valves they must be adequately supported.

The 1072, 1070/125, 1065 and 1068 Gate valves are suitable for end of line service but we strongly recommend the fitting of a blanking plug to the downstream end of the valve. Pegler Ball, Globe, Check, Flanged and Lever Gate valves are not suitable for end-of-line service.

INSTALLATION *Health & Safety*

Before starting work on any installation a risk assessment must be made to consider the possibility of operational limits being exceeded and reduction or elimination of any potential hazards.

1. Protective clothing and safety equipment must be utilised as appropriate to the hazard presented by the nature of the process to which the valve is being installed or maintained.
2. Before installing or removing a valve the pipeline circulating pumps (when fitted) must be turned off. The pipeline must be de-pressurised, drained and vented. Valves must be fully opened to ensure release of any pipeline or valve pressure.
3. Fitters must be trained in manual and mechanical handling to enable them to safely lift and install Pegler valves.
4. The valve selected must be suitable for the required service conditions. The pressure and temperature limitations are indicated on the valve nameplate, body or data plate. These must not be exceeded.
5. Valve seats, seals and internal components can be damaged by system debris. Protective devices may need to be fitted and system flushing may be required.
6. Any flushing fluid used to clean the pipeline must not cause any damage to the valve and its components.
7. Pegler valves must not be misused by lifting them by their hand wheels, levers or stems.
8. Pegler valves are not suitable for fatigue loading, creep conditions, fire testing, fire hazard environment, corrosive or erosive service, or for carrying fluids containing abrasive solids. There is no allowance for corrosion in the design of these valves. Designs for this valve do not allow for decomposition of unstable fluids and must not be used where this could occur.
9. Pegler valves are not designed to withstand the effects of fire, wind, earthquakes and traffic.
10. All Health and Safety Rules must be followed when installing and maintaining valves.

INSTALLATION

Unpack the valve and check that the flow paths and valve threads are clean and free from debris.

Check the body markings and nameplate to ensure that the correct valve has been selected for installation.

Gate valves and Globe valves may be fixed in "Vertical pipe work with stem horizontal" or "Horizontal pipe work with stem vertical and upright". Globe valves are marked with a directional flow arrow on the body. The valve will function correctly providing it is fitted so that the fluid transported follows the indicated flow direction.

Make sure that a gate valve is fully closed during installation.

Fitting a gate valve in the open position may cause twisting and the gate and seating may not mate properly. The valve should be operated from fully open to fully closed to test that it has been correctly installed.

The valve should not be installed in horizontal pipe work with stem horizontal because full closure may be impeded by an accumulation of system debris. Pegler Valves are manufactured to exacting standards and, therefore, should not be subjected to misuse. The following should be avoided: ***Careless handling** of the valve (Valves should not be lifted using the hand wheel, lever or the stem). ***Dirt and debris** entering the valve through the end ports. ***Excessive force** during assembly and hand wheel operation.

Ball valves may be fixed in any orientation, always leaving enough space for the 90° operation of the lever handle. Horizontal and Vertical pattern check valves may be fitted in horizontal pipe work with the cap upper most and vertically with the flow in an upwards direction. The valve is marked with a directional flow arrow on the body. The valve will function correctly providing it is fitted so that the fluid transported follows the indicated flow direction. Check valves having 6 diameters of straight length of pipe upstream and 3 diameters downstream are suitable for velocities of 3 metres per second. If the valve is situated such that non uniform or pulsating flow enters the valve, e.g. the valve is close to reciprocating pumps, then the velocity should not exceed 2 metres per second. Use suitable hangers close to both ends of the valve in order to remove stresses transmitted by the pipe. Confirm that the pipe threading length is correct to avoid excessive penetration of the pipe into the valve that would otherwise cause damage. Care should be taken to apply jointing compound to the pipe only and not in the valve threads. Surplus compound will then be forced outwards and will not enter the valve. Over use of compound can lead to valve failure on the body ends. Threads should be engaged correctly when tightening the valve onto the pipe. The wrench should always be fitted on the body end adjacent to the joint being made. Severe damage can occur to stems, valves and seats by the use of hand wheels or levers larger than those originally supplied by the manufacturer, and by wheel keys. Any electrical component e.g. actuators, limit switches must be explosion proof and comply with the ATEX Directive and Standards as listed in BS EN 1127-1 clause 6.4.5.

OPERATION

Gate Valves

To open - an anti-clockwise rotation of the hand wheel will open the valve. When it will go no further return the hand wheel clockwise 1/2 turn. To close the valve a clockwise rotation of the hand wheel will close the valve. Closure will be confirmed when the handle can be turned no further.

Caution: Service applications with extremes of temperature may cause the wedge to become tight in the valve. The valve may be become stiff to operate in these circumstances. Suitable hand protection should be worn when operating valves used in extreme temperature applications. The valve should only be used in the fully open or fully closed position. Gate valves are not suitable for regulating and throttling service.

Globe Valves

To open - an anti-clockwise rotation of the hand wheel will open the valve. When it will go no further return the hand wheel clockwise 1/2 turn.

To close the valve a clockwise rotation of the hand wheel will close the valve. Closure will be confirmed when the handle can be turned no further.

Caution: Suitable hand protection should be worn when operating valves used in extreme temperature applications. Globe valves are suitable for regulating and throttling service.

Check Valves

The Horizontal/vertical pattern check valves operate according to the flow within the pipeline and there is no external method of operation.

Ball Valves

PB LEVER HANDLE To open - turn the lever 90° so that it is in line with the pipe run in which it is installed. To close - turn the lever 90° so that it is across the line of the pipe in which it is installed. Full opening and closing is completed when a full 90° is achieved and the lever is firmly set against the stop on the valve body.

PB T Models have lockable handles for use in both open and closed positions. In the fully open position the T handle is in line with the pipe work. To lock the valve in the open position a hexagon key of the appropriate size can be used to remove the securing screw. The T handle can then be lifted from the valve. This should then be rotated through 180° and refitted on to the valve spindle ensuring the handle slot engages on to the body lug. Insert the securing screw and re-tighten with the hexagon key.

PB EL models are fitted with an extended spindle mechanism that lifts the lever away from the body and is particularly useful when pipe insulation is being used. This version is only available with a standard lever handle.

Caution: Service applications with extremes of temperature may cause the ball to become tight in the valve. The valve may be become stiff to operate in these circumstances. Suitable hand protection should be worn when operating valves used in extreme temperature applications. The valve should only be used in the fully open or fully closed position. Ball valves are not suitable for regulating or throttling applications.

MAINTENANCE

A regular maintenance program is the most efficient method of ensuring longer term operational efficiency of the selected valve. Such a program would need to include a risk assessment and a planned procedure of how the maintenance will be carried out. The possibility of operational limits being exceeded and the potential hazards ensuing must be considered as part of this assessment.

This should be implemented to include visual checks on the valve's condition and any development of unforeseen conditions, which could lead to failure. The correct fitting tools and equipment should be used for valve maintenance work. Separate means of draining the pipe work must be provided when carrying out any maintenance to valves. Where there may be any system debris this should be collected and/or filtered by installation of the appropriate protective device.

Gland Adjustment. - The gland may need adjustment during installation and then periodically thereafter to maintain a stem gland seal.

NOTE: It is recommended that within the 1st year the gland be inspected at 3 monthly intervals to check for gland leakage.

Gland Replacement - Under normal working conditions Pegler gate and globe valves do not normally require any maintenance, however, in the event of maintenance being necessary, the following procedure should be followed:

Before starting work, de-pressurise the system, turn off any circulating pumps. Slacken the hand wheel nut and remove the nut, nameplate and hand wheel. Remove the gland nut and gland ring. Using a suitable tool, lift out the existing packing and make sure the stem and stuffing box are clean & free from debris. Care must be taken not to damage the valve stem.

Fit a replacement Pegler packing gland into the stuffing box and push down firmly.

Re-assemble the gland ring and gland nut.

Re-attach the handwheel, nameplate and nut.

Tighten the gland nut and confirm stem resistance while operating the valve. Once line pressure is re-established a check for leak tightness should be made, further adjust the gland nut as required necessary to achieve a satisfactory seal.

NB. Permanent removal of the gland nut and /or the Data. Plate will invalidate the CE compliance of this valve. Pegler Ball valves and Check valves are generally NOT suitable for maintenance.

According to valve type, gland packing and valve discs may be replaced. Valves within the scope of the ATEX Directive with a protective level defined as Group II catergory 2 will operate in Zone 1 (gases/vapours) or Zone 21 (dust) designated in BS1127-1 Explosion prevention and protection. Tools are either "single spark" e.g. screwdriver, spanner, impact screwdriver or "shower of sparks" e.g. sawing or grinding. Only steel "single spark" tools are permitted in Zones 1 & 21. Tools causing showers of sparks are only permissible if: a) no hazarous explosive atmosphere is present. b) dust deposits have been removed and no dust cloud is present. The use of tools on equipment in Zones 1 and 21 should be subject to a "permit to work" system.

1029 Renewable Valve Disc Replacement.

Before starting work de-pressurise the system, turn off any circulating pumps, and ensure the valve is empty of fluid. Using a suitable wrench remove the complete bonnet assembly from the valve. Care should be taken to ensure the pipework is held securely during this process so that there is no distortion to the valve threads. Any damage to the threads could lead to valve failure. Slacken and remove disc nut and disc.

Assess damage to valve seat replacing the whole valve if necessary.

The valve disc can be replaced with an equivalent size disc and type as appropriate. Re-attach a replacement disc and disc nut.

Re-assemble the bonnet in to the valve body, checking for damage.

Ensure the valve bonnet is joined securely to body and will not leak.

N.B. The 1029 Globe valves have non-metallic PTFE valve discs.

Installation, Operating & Maintenance Instructions are available from Sales Office.

Pegler recommended spares must be used. Refer to Pegler Technical Department for further information.

PRODUCT LIFE SPAN

When a valve is properly selected for its service conditions it should give years of trouble-free service provided it Is installed correctly and receives adequate preventative maintenance. By not considering the compatibility of the system design and the pressure and temperature requirements the life expectancy of the valves can be adversely affected and valve failure may occur. The nature of the fluid being carried through the valve could also affect the valve performance as this could lead to premature valve failure. There may also be interactions between metals in the pipe system and the valve which need to be considered. Appropriate flushing and cleaning of the pipe work Installation should take place when commissioning the system as this would help extend the valve life.

Reference Material: Pegler Valves Package Brochure, Pegler Spares Catalogue, and Spares Price list. A Technical File is held at Doncaster as part of the requirements for compliance to the European Pressure Equipment Directive (PED 97/23 EC).

Head Office:
Pegler Limited, St Catherine's Avenue, Doncaster, South
Yorkshire DN4 8DF England www.pegler.co.uk

UK Sales:
Northern Tel: 0870 1200281 Fax: 01302 560108
Southern Tel: 0870 1200282 Fax: 01302 560458
Western Tel: 0870 1200283 Fax: 01302 560109
uk.sales@pegler.co.uk

Export Sales:
Tel: 44 (0) 1302 855656 Fax: 44 (0) 1302 730513
export@pegler.co.uk

Pegler
QUALITY • RELIABILITY • INNOVATION

Pegler
QUALITY • RELIABILITY • INNOVATION

Engineers Valves

Installation, Operating & Maintenance Instructions
Pressure Equipment Directive

PED 97/23/EC Compliant
A Watertight Guarantee Of Quality

VALVE SUITABILITY

	Product	Steam	Water	Oil	Air	Gas Inert	Gas Combustible	Gas Corrosive	Gas Oxygen
Ball Valves	PB700	✓	✓	✓	✓*	✓*	✓*	✓*	×
	PB500 RED	✓	✓	✓	✓*	×	×	×	×
	PB500 YELLOW	✓	✓	✓	✓*	✓*	✓*	✓*	×
	PB300 RED/BLUE	✓	✓	✓	✓*	×	×	×	×
	PB300 YELLOW	✓	✓	✓	✓*	✓*	✓*	✓*	×
	PB100	×	✓	✓	✓*	×	×	×	×
Gate Valves	1065	×	✓	✓	×	×	×	×	×
	1068	✓	✓	✓	×	×	×	×	×
	1072	✓	✓	✓	×	×	×	×	×
	1070/125	✓	✓	✓	×	×	×	×	×
	P81M	✓	✓	✓	×	×	×	×	×
	63	×	✓	✓	×	×	×	×	×
	GM63	×	✓	✓	×	×	×	×	×
Globe Valves	1029	✓	✓	✓	✓*	✓*	✓*	✓*	×
	1031	✓	✓	✓	×	×	×	×	×
Check Valves	1039	✓	✓	✓	×	×	×	×	×
	1060A	✓	✓	✓	×	×	×	×	×
	1062	✓	✓	✓	×	×	×	×	×
	1063	×	✓	×	✓**	×	×	×	×
	1064	×	✓	×	✓**	×	×	×	×
Drain Cocks	1832	×	✓	×	×	×	×	×	×
	833GM, GM LS	×	✓	×	×	×	×	×	×

* Pressure limited to 10 bar for Air & Gas applications. ** Pressure limited to 5 bar for Air applications.

Thread Depths (mm)

	Product	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Ball Valves	PB700	11.5	11.9	15.4	16.7	19.4	21.7	21.4	26.0	30.5	33.5	39.5
	PB500 RED	11.5	11.9	15.4	16.7	19.4	21.7	21.4	26.0	30.5	33.5	39.5
	PB500 YELLOW	11.5	11.9	15.4	16.7	19.4	21.7	21.4	26.0	30.5	33.5	39.5
	PB300 RED/BLUE	-	-	-	-	-	-	-	-	-	-	-
	PB300 YELLOW	-	-	-	-	-	-	-	-	-	-	-
	PB100	-	-	12.7	14.0	16.2	18.5	18.5	22.8	-	-	-
Gate Valves	1065	-	-	12.7	14.0	16.1	18.5	18.5	22.8	-	-	-
	1068	-	-	15.0	16.3	19.1	21.4	21.4	25.7	30.2	33.3	39.3
	1072	-	-	15.0	16.3	19.1	21.4	21.4	25.7	-	-	-
	1070/125	11.4	11.4	15.0	16.3	19.1	21.4	21.4	25.7	30.2	33.3	39.3
	P81M	-	-	-	-	-	-	-	-	-	-	-
	63	-	-	-	-	-	-	-	-	-	-	-
	GM63	-	-	-	-	-	-	-	-	-	-	-
Globe Valves	1029	7.5	7.9	9.9	11.1	12.3	14.3	14.3	18.2	19.8	22.6	-
	1031	-	-	9.9	11.1	12.3	14.3	14.3	18.2	-	-	-
Check Valves	1039	-	-	9.9	11.1	12.3	14.3	14.3	18.2	-	-	-
	1060A	-	-	15.0	16.3	19.1	21.4	21.4	25.7	25.0	33.0	33.0
	1062	-	-	15.9	16.7	19.0	-	-	-	-	-	-
	1063	-	10.3	12.8	14.2	15.0	15.2	16.4	17.2	19.8	26.0	26.6
	1064	-	10.3	12.8	14.2	15.0	15.2	16.4	17.2	19.8	26.0	26.6
Drain Cocks	1832	-	-	-	-	-	-	-	-	-	-	-
	833GM, GMLS	-	-	-	-	-	-	-	-	-	-	-

OPERATIONAL LIMITS

	Product	PN	Non- Shock Pressure @ Temp. Range	Non- Shock Pressure @ Max. Range
Ball Valves	PB700	40*	40 Bar - 10°C to 110°C	10 Bar at 180°C
	PB500 RED	25	25 Bar - 10°C to 100°C	16.5 Bar at 150°C
	PB500 YELLOW	25*	25 Bar - 10°C to 100°C	16.5 Bar at 150°C
	PB300 RED/BLUE	16	16 Bar - 10°C to 30°C	5 bar at 120°C
	PB300 YELLOW	16*	16 Bar - 10°C to 30°C	5 Bar at 120°C
	PB100	25	25 Bar - 10°C to 100°C	4 Bar at 120°C
Gate Valves	1065	17.5	17.5 Bar - 0°C to 25°C	17.5 Bar at 93°C
	1068	20	20 Bar - 10°C to 100°C	9 Bar at 180°C
	1072	32	32 Bar - 10°C to 100°C	14 Bar at 198°C
	1070/125	20	20 Bar - 10°C to 100°C	9 Bar at 180°C
	P81M	16	20 Bar - 10°C to 100°C	9 Bar at 180°C
	63	16	16 Bar - 10°C to 30°C	5 Bar at 120°C
	GM63	16	16 Bar - 10°C to 30°C	5 Bar at 120°C
Globe Valves	1029	32*	32 Bar - 10°C to 100°C	14 Bar at 198°C
	1031	32	32 Bar - 10°C to 100°C	14 Bar at 198°C
Check Valves	1039	32	32 Bar - 10°C to 100°C	14 Bar at 198°C
	1060A	25	25 Bar - 10°C to 100°C	10.5 Bar at 186°C
	1062	25	25 Bar - 10°C to 100°C	10.5 Bar at 186°C
	1063	8 - 12	0°C to 90°C	90°C
	1064	8 - 12	0°C to 90°C	90°C
Drain Cocks	1832	10	10 Bar - 0°C to 120°C	10 Bar at 120°C
	833GM, GM LS	10	20 Bar - 10°C to 100°C	13 Bar at 120°C

* 10 bar for Gas

PED Categorisation Table

	Product	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Ball Valves	PB700	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	Cat 1	Cat 1	Cat 1	Cat 1	Cat 1	Cat 1
	PB500 RED	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P
	PB500 YELLOW	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	Cat 1	Cat 1	Cat 1	Cat 1	Cat 1	Cat 1
	PB300 RED/BLUE	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
	PB300 YELLOW	-	-	S.E.P	S.E.P	S.E.P	-	-	-	-	-	-
	PB100	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
Gate Valves	1065	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
	1068	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P
	1072	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
	1070/125	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P
	P81M	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
	63	-	-	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-	-	-
	GM63	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
Globe Valves	1029	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	Cat 1	Cat 1	Cat 1	Cat 2	Cat 2	-
	1031	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
Check Valves	1039	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	-	-	-
	1060A	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	Cat 2
	1062	-	-	S.E.P	S.E.P	S.E.P	-	-	-	-	-	-
	1063	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P
	1064	-	-	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P	S.E.P
Drain Cocks	1832	-	-	S.E.P	S.E.P	S.E.P	-	-	-	-	-	-
	833GM, GM LS	-	-	S.E.P	-	-	-	-	-	-	-	-

Category 1 and Category 2 carry the CE mark

Threaded connections

Ensure that threads are prepared correctly to provide a good and long lasting service.

Pipe compound should be applied to pipe ends only and not directly into the valve.

Valves should not be over tightened with a wrench.

Ensure the pipe is threaded to the correct type and length. If the pipe is threaded too short a leak may occur. If the pipe is threaded too long then damage may be made to the valve.

Ensure that good quality tools are used to provide an accurate joint and therefore avoiding the risk of leaking.

Thread tape may be used and applied to the external of the pipe thread after the threads have been cleaned.

Joining the valve and pipe.

Fix the threaded pipe into a vice and then turn the valve on to the pipe.

A close fitting spanner should be applied to the valve hexagon/octagon flats being fixed. By tightening the valve onto the pipe in this way, the valve avoids being distorted with the consequential damage to internal parts.