

1039 Bronze Horizontal Lift Type Check Valve





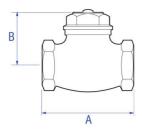
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119052

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1039 PT



DIMENSIC	NS (mm)			
Code	Description	A	В	Kg
119005	1/4 1039 GM HORIZONTAL CHECK VALVE	44	30	0.14
119006	3/8 1039 GM HORIZONTAL CHECK VALVE	46	30	0.18
119007	1/2 1039 GM HORIZONTAL CHECK VALVE	57	30	0.28
119008	3/4 1039 GM HORIZONTAL CHECK VALVE	65	40	0.44
119009	1 1039 GM HORIZONTAL CHECK VALVE	78	45	0.68
119010	1.1/4 1039 GM HORIZONTAL CHECK VALVE	89	55	1.14
119011	1.1/2 1039 GM HORIZONTAL CHECK VALVE	100	60	1.46
119012	2 1039 GM HORIZONTAL CHECK VALVE	121	65	2.24
119013	2.1/2 1039 GM HORIZONTAL CHECK VALVE	159	100	5.83
119014	3 1039 GM HORIZONTAL CHECK VALVE	187	115	8.38
119015	4 1039 GM HORIZONTAL CHECK VALVE	235	130	16.21
119025	1/4 1039 AT GM HORIZONTAL CHECK VALVE	44	30	0.14
119026	3/8 1039 AT GM HORIZONTAL CHECK VALVE	46	30	0.18
119027	1/2 1039 AT GM HORIZONTAL CHECK VALVE	57	30	0.28
119028	3/4 1039 AT GM HORIZONTAL CHECK VALVE	65	40	0.44
119029	1 1039 AT GM HORIZONTAL CHECK VALVE	78	45	0.64
119030	1.1/4 1039 AT GM HORIZONTAL CHECK VALVE	89	55	1.14
119031	1.1/2 1039 AT GM HORIZONTAL CHECK VALVE	100	60	1.44
119032	2 1039 AT GM HORIZONTAL CHECK VALVE	121	65	2.24
119034	3 1039 AT GM HORIZONTAL CHECK VALVE	187	115	8.38
119035	4 1039 AT GM HORIZONTAL CHECK VALVE	235	130	16.21
119045	1/4 1039 PT GM HORIZONTAL CHECK VALVE	44	30	0.14
119046	3/8 1039 PT GM HORIZONTAL CHECK VALVE	46	30	0.18
119047	1/2 1039 PT GM HORIZONTAL CHECK VALVE	57	30	
119048	3/4 1039 PT GM HORIZONTAL CHECK VALVE	65	40	
119049	1 1039 PT GM HORIZONTAL CHECK VALVE	78	45	
119050	1.1/4 1039 PT GM HORIZONTAL CHECK VALVE	89	55	1.14
119051	1.1/2 1039 PT GM HORIZONTAL CHECK VALVE	100	60	1.44
119052	2 1039 PT GM HORIZONTAL CHECK VALVE	121	65	2.24

PRESSURE & TEMPERATURE

1039 Bronze Horizontal Lift Type Check Valve		Maximum Cold Working Pressure (bar)	Maximum Hot Working Pressure (bar)	
3/4 1039 AT GM HORIZONTAL CHECK VALVE	0.5 -1.0 bar	32.0 bar at temperatures up to 100oC	14.0 bar at temperatures up to 198oC	

Number	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
4	Rating Disc	Aluminium

CARE & MAINTENANCE

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.

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

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 –

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.

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

CE MARKING & THE ATEX Directive 94/9/EC

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

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

of ignition, which operates in a dust free environment and the fluid being transported is cold, inert gas or non-flammable liquid. The The regulations will not apply to a valve without a potential source equisite level of protection for valves not exempt from

preventative maintenance it should give years of trouble-free the fluids that they are intended to carry. Interactions between service. They must be compatible with the system design conditions. Provided it is installed correctly and receives adequate regulations is defined as Group II category 2 and shall bear Valves must be properly selected for their intended service iollowing markings: ⟨Ex⟩ II 2 GD X oressure and temperature requirements and must be suitable to VALVE SELECTION Selection, Storage & Protection

potentially explosive atmosphere created by: end-of-line service.

to which the valve is being installed or maintained. appropriate to the hazard presented by the nature of the process exceeded and reduction or elimination of any potential hazards. nade to consider the possibility of operational limits

pumps (when fitted) must be turned off. The pipeline must be depressurised, drained and vented. Valves must be fully opened to ensure release of any pipeline or valve pressure. Fitters must be trained in manual and mechanical handling to . Before installing or removing a valve the pipeline circulating

metals in the pipe system and the valve must be considered as on the valve nameplate, body or data plate. These must not be The valve selected must be suitable for the required service enable them to safely lift and install Pegler valves. conditions. The pressure and temperature limitations are indicated

system debris. Protective devices may need to be fitted and Valve seats, seals and internal components can be damaged by

/aives snould be stored off the ground in a clean, dry, indoor area

Where desiccant bags are included with the valve these should be

appropriate and so adequate protection from damage is provided assemblies, suitable protective devices may be required. When Pegler valves are fitted with pressure equipment ³egler valves are supplied in cardboard cartons or are bagged as

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

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

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

To ensure ease of operation, adjustment, maintenance and repair LOCATION/END-OF-LINE SERVICE

valve siting should be decided during the system design phase. To they must be adequately supported.

The 1072, 1070/125, 1065 and 1068 Gate valves are suitable for prevent imposing strain on the valve seat, pipe work and valves

Globe, Check, Flanged and Lever Gate valves are not suitable for blanking plug to the downstream end of the valve. Pegler Bali end of line service but we strongly recommend the fitting of a

Before starting work on any installation a risk assessment must be INSTALLATION Health & Safety

 Protective clothing and safety equipment must be utilised as being

pipe upstream and 3 diameters downstream are suitable flow arrow on the body. The valve will function correctly providing i Horizontal and Vertical pattern check valves may be fitted in Ball valves may be fixed in any orientation, always leaving horizontal pipe work with the cap upper most and vertically with the enough space for the 90° operation of the lever handle velocities of 3 metres per second. If the valve is situated such that direction. Check valves having 6 diameters of straight length of low in an upwards direction. The valve is marked with a directional Excessive force during assembly and hand wheel operation. titted so that the fluid transported follows the indicated flow

system flushing may be required. Any flushing fluid used to clean the pipeline must not cause any

wheels, levers or stems. . Pegler valves must not be misused by lifting them by their hand

erosive service, or for carrying fluids containing abrasive solids. conditions, fire testing, fire hazard environment, corrosive or fluids and must not be used where this could occur. Designs for this valve do not allow for decomposition of unstable There is no allowance for corrosion in the design of these valves. Pegler valves are not designed to withstand the effects of fire, Pegler valves are not suitable for fatigue loading, creep

and maintaining valves. 10. All Health and Safety Rules must be followed when installing wind, earthquakes and traffic.

valve has been selected for installation. Unpack the valve and check that the flow paths and valve threads Check the body markings and nameplate to ensure that the correc

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

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

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

the valve. Closure will be confirmed when the handle can be turned operation.

compound can lead to valve failure on the body ends. Threads should be engaged correctly when tightening the valve onto the explosion proof and comply with the ATEX Directive and Standards be forced outwards and will not enter the valve. Over use of the valve in order to remove stresses transmitted by the pipe Any electrical component e.g. actuators, limit switches must valves and seats by the use of hand wheels or levers larger than to the joint being made. Severe damage can occur to stems close to reciprocating pumps, then the velocity should not exceed non uniform or pulsating flow enters the valve, e.g. the valve is pipe. The wrench should always be fitted on the body end adjacent hose originally supplied by the manufacturer, and by wheel keys

as listed in BS EN 1127-1 clause 6.4.5.

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

be turned no turther.

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

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

valves used in extreme temperature applications. Globe valves are Caution: Suitable hand protection should be worn when operating

suitable for regulating and throttling service. Check Valves

pipe only and not in the valve threads. Surplus compound will then damage. Care should be taken to apply jointing compound to the penetration of the pipe into the valve that would otherwise cause Confirm that the pipe threading length is correct to avoid excessive ? metres per second. Use suitable hangers close to both ends c ensuring the handle slot engages on to the body lug. Insert the then be rotated through 180° and refitted on to the valve spindle so that it is across the line of the pipe in which it is installed. Full screw. The T handle can then be lifted from the valve. This should key of the appropriate size can be used to remove the securing with the pipe work. To lock the valve in the open position a hexagor PB T Models have lockable handles for use in both open and opening and closing is completed when a full 90° is achieved and closed positions. In the fully open position the T handle is in line with the pipe run in which it is installed. To close - turn the lever 90'

temperature applications. The valve should only be used in the fully cause the ball to become tight in the valve. The valve may be Caution: Service applications with extremes of temperature may orotection should be worn when operating valves used in extreme become stiff to operate in these circumstances. Suitable hand standard lever handle. pipe insulation is being used. This version is only available with lifts the lever away from the body and is particularly useful when

PB EL models are fitted with an extended spindle mechanism that

securing screw and re-tighten with the hexagon key.

open or fully closed position. Ball valves are not suitable egulating or throttling applications. MAINTENANCE

this should be collected and/or tiltered by installation of the 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 could lead to failure. The correct fitting tools and equipment should nazards ensuing must be considered as part of this assessment possibility of operational limits being exceeded and the potentia ensuring longer term operational efficiency of the selected valve condition and any development of unforeseen conditions, which This should be implemented to include visual checks on the valve's Such a program would need to include a risk assessment and a blanned procedure of how the maintenance will be carried out. The \ regular maintenance program is the most efficient method o

To close the valve a clockwise rotation of the hand wheel will close appropriate protective device. Gland Adjustment. - The gland may need adjustment during

installation and then periodically thereafter to maintain a sterr giand seal.

necessary

however, in the event of maintenance being necessary, gate and globe valves do not normally require any maintenance Gland Replacement - Under normal working conditions Pegle nspected at 3 monthly intervals to check for gland leakage. NOTE: It is recommended that within the 1st year the gland

any

lechnical Department for further information available from Sales Office.

PB LEVER HANDLE To open - turn the lever 90° so that it is in line the flow within the pipeline and there is no external method c The Horizontal/vertical pattern check valves operate according to Before starting work, de-pressurise the system, turn off following procedure should be followed:

must be taken not to damage the valve stem.

Re-assemble the gland ring and gland nut. and push down firmly.

necessary to achieve a satisfactory seal. operating ck for leak required

and the valve which need to be considered. Appropriate flushing

commissioning the system as this would help extend the valve life and cleaning of the plpe work Installation should take place when There may also be interactions between metals in the pipe system the valve performance as this could lead to premature valve failure nature of the fluid being carried through the valve could also affect valves can be adversely affected and valve failure may occur. The pressure and temperature requirements the life expectancy of the

Ball valves and Check valves are generally NOT suitable for Plate will invalidate the CE compliance of this valve. Pegler Reference Material: Pegler Valves Package Brochure, Pegle

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

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 failure. Slacken and remove disc nut and disc. securely during this process so that there is no distortion to the valve threads. Any damage to the threads could lead 1029 Renewable Valve Disc Replacement. to valve

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. type as appropriate. Re-attach a replacement disc and disc nut. The valve disc can be replaced with an equivalent size disc and Assess damage to valve seat replacing the whole valve if

Installation, Operating & Maintenance Instructions are N.B. The 1029 Globe valves have non-metallic PTFE valve discs. egler recommended spares must be used. Ö Pegler export@pegler.co.uk

ring. Using a suitable tool, lift out the existing packing nut, nameplate and hand wheel. Remove the gland nut sure the stem and stuffing box are clean & free from debris. Care circulating pumps. Slacken the hand wheel nut and remove the and gland and make

Fit a replacement Pegler packing gland into the stuffing box

considering the compatibility of the system design and the

When a valve is properly selected for its service conditions it should

PRODUCT LIFE SPAN

years of trouble-free service provided it is installed corrective receives adequate preventative maintenance. By

tightness should be made, further adjust the gland nut as Tighten the gland nut and confirm stem resistance while the valve. Once line pressure is re-established a check Re-attach the handwheel, nameplate and nut.

NB. Permanent removal of the gland nut and /or the Data.

be subject to a "permit to work" system.

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PB500 RED PB700

26.0 33.5

30.5 33.5

30.5 33.5 39.5 39.5

PB300 RED/BLUE PB500 YELLOW

25*

25 Bar - 10°C to 100°C 25 Bar - 10°C to 100°C 40 Bar - 10°C to 110°C

16.5 Bar at 150°C

10 Bar at 180°C

PB 700

Product

PED Categorisation Table

3/4" 1" 1.1/4" 1.1/2"

S.E.P

Cat 1 Cat 1 S.E.P S.E.P

> Cat 1 ٧

Cat 1

Cat 1

2.1/2 S.E.P Cat 1

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PB500 RED

16.5 Bar at 150°C

6

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40*

OPERATIONAL LIMITS

Non- Shock Pressure @ Temp. Range Non- Shock Pressure @ Max. Range

PB300 YELLOW

PB100

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1070/125

1072 ᇙ

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1070/125

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P81M

1070/125 1072

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1072 1068 **6**5

ස P81 M

GM63

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1029 GM63

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16 Bar - 10°C to 30°C 16 Bar - 10°C to 30°C

5 Bar at 120°

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

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32 Bar - 10°C to 100°C 32 Bar - 10°C to 100°C

25 Bar - 10°C to 100°C

10.5 Bar at 186 10.5 Bar at 186°C

1062 1060/ 1039

14 Bar at 198°

14 Bar at 198°

5 Bar at 120°

GM63 63

14 Bar at 198°

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1063 1064

1060A

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26.6 26.6

10 bar for Gas

833GM, GM 1832

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20 Bar - 10°C to 100°C

13 Bar at 120°

10 Bar at 120

90°C 90°C

1064

1063

10 Bar - 0°C to 120°C 0°C to 90°C 0°C to 90°C

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25 Bar - 10°C to 100°C

16 Bar - 10°C to 30°C 16 Bar - 10°C to 30°C

5 Bar at 120°

Bar at 120°

PB 100

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S.E.P S.E.P S.E.P

S.E.P S.E.P 5 bar at 120°0

PB300 RED/BLUE

PB500 YELLOW

S.E.P S.E.P S.E.P 1/4"

S.E.P S.E.P **3/8**□

S.E.P

S.E.P

Cat 1

S.E.P 1/2

S.E.P S.E.P

S.E.P

S.E.P

S.E.P Cat 1

Cat 1

Cat 1

PB300 YELLOW

S.E.P

S.E.P S.E.P

S.E.P

S.E.P Cat 1

S.E.P

S.E.P Cat 1

17.5 Bar - 0°C to 25°C

17.5 Bar at 93°

9 Bar at 180°

25.7

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8 16

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8 20 Bar - 10°C to 100°C

20 Bar - 10°C to 100°C 32 Bar - 10°C to 100°C

20 Bar - 10°C to 100°C 14 Bar at 198° 9 Bar at 180° 9 Bar at 180°

1070/125 P81M

1072

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