

Cast iron variable orifice valve double regulating PN16

GENERAL INFORMATION

Size	Pattern No.	Pack 1 Qty	Code	Barcode
DN50	V952V	1	15503	5022050232434
DN65	V952V	1	15504	5022050244598
DN80	V952V	1	15505	5022050244819
DN100	V952V	1	15506	5022050245014
DN125	V952V	1	15507	5022050245076
DN150	V952V	1	15508	5022050245137
DN200	V952V	1	15509	5022050245205

DIMENSIONS (mm)

Code	Description	A	B	Kg
15503	DN50 V952V	230	260	12.80
15504	DN65 V952V	290	293	17.70
15505	DN80 V952V	310	305	23.60
15506	DN100 V952V	350	323	30.00
15507	DN125 V952V	400	353	45.00
15508	DN150 V952V	480	388	56.00
15509	DN200 V952V	600	453	105.00

GUARANTEE

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.



Installation, Operating and Maintenance Instructions.

V952/V952V Double Regulating Valves Series:



V952 Ductile Iron DRV, V952V VODRV Ductile iron double regulating valves

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 carries the CE mark and require a Declaration of Conformity. Valves classified from the piping chart would not be included in Category IV.

Section 1- Technical Details

1.1 The Pegler Commercial Double Regulating Valve series (available from Pegler Yorkshire Group) are intended for the isolation and regulation of sections of pipe work and equipment in HVAC applications and general commercial applications. The valves have non rising stems and operated by wheel handles.

1.2 Tube compatibility

Valve Type	Flange Connection Specification
V952, V952V PN16	Flanges to EN1092-2 PN16

1.3 Pressure and Temperature ratings

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, this should be within the "shell test pressure for the body" to a maximum of 1.5 times the PN rating of the valve 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.

Technical Performance Specification

V952 Double regulating valve
Flanges to EN1092-2 PN16
Non rising stem
Face to face dimensions to EN558-1
Size range DN65 to DN200
Ductile iron body and bonnet
Temperature range -10°C to +120°C

IOM V952, V952V

Page 1 of 6
27/04/12

Pegler Yorkshire
St. Catherine's Avenue,
Doncaster, South Yorkshire, DN4 8DF.
www.pegler.yorkshire.co.uk





V952V Variable Orifice Double Regulating Valve
Flanges to EN1090-2 PN6
Non rising stem
Face to face dimensions to EN558-1
Size range DN65 to DN200
Ductile iron body and bonnet
Supplied with two DZR brass test points for flow measurement.
Temperature range -10°C to +120°C

Section 2-Installation

2.1 Electrical continuity

All metallic pipework should comply with the equipotential bonding requirements of the current edition of the IEE wiring regulations (BS7671:2001). After all plumbing work has been completed continuity checks are to be conducted by a qualified electrician in accordance with the regulations.

2.2 Heat free

The Pegler V952, V952V Series offers Heat free jointing across its whole range with flanged connection technology. These valve connections must not be brazed.

2.3 Insulation

For all Pegler V952, V952V Series valves, it is recommended that you adhere to the insulation requirements as specified by the Water Supply (Water Fittings) Regulations 1999, ensuring at all times that access for valve operation is taken into consideration.

2.4 Valve selection

Valves must be properly selected for their intended services 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 must be considered as part of the valve selection.

Double regulating valves perform best when they are installed in an upright position. The direction of flow must be respected as indicated by the cast body arrow. They are fitted when the valve is in the open position.

Double regulating valves are designed for isolation and regulation or throttling of flow.

2.5 Location/end of line service

To ensure ease of operation, adjustment, maintenance and repair, valve siting should be decided during the system design phase.

Pegler double regulating valves are not suitable for end-of-line service.

Where double regulating valves are required for end of line service a blanking flange must be fitted to the downstream end of the valve.

2.6 Pre Installation- Health and 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 utilized 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 depressurised, 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 nameplates, body or data plate. They 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 valve 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. Design 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 – Flanged valves

Double regulating balancing valves, when used in conjunction with a V953 metering stations, space should always left to allow access for manometer probes to be inserted into the test points.

Unpack the valve.

Check that the valve is correct for its intended use. Before valve installation the pipe work to which the valve is to be connected should be inspected for cleanliness and freedom from debris.

Before valve installation the pipe work to which the valve is to be connected should be inspected for cleanliness and freedom from debris.

Before valve installation the pipe work to which the valve is to be connected should be inspected for cleanliness and freedom from debris.

Before valve installation the pipe work to which the valve is to be connected should be inspected for cleanliness and freedom from debris.

Ensure that any flange protectors are removed.

Check that the flow paths are clear and that the threads are clean and free from debris.

Ensure that the valve is fully open during installation.

Flange components have their own design limitations and correct selection and compatibility is vital.

Flange material specification:

Pressure and temperature must not exceed its rating

Gasket selection must be in line with the rating of the flange

The fluid being handled will affect the gasket selection.

All bolts must be compatible with the mating flange being used

Pipe and its mating flange should be cleaned and made ready for assembly.

A clean and appropriate gasket should be selected for the flange type being used.

Flat face and raised faces flanges should not be mixed.

Piping should be properly supported with the use of correctly sized hanging or securing brackets.

All pipes need to be aligned correctly to ensure that the valve integrity is maintained, avoiding twisting and distortion of the valves structure and valve damage.

As the valve is assembled in the pipeline ensure that the bolts are placed and secured with nuts at hand tightness employing the crossover method of tightening to secure a sound and leak tight joint.

Double regulating balancing valves provide positive shut off but when installing the valve respect for the flow direction must be made as indicated by the body arrow.

Use suitable hangers close to both ends of the valve in order to remove stresses transmitted by the pipe.

Section 3 Testing

3.1 TESTING

DN50-DN200 - each products shall be pneumatically tested at 6 bar (90psig) for 5 sec. There shall be no signs of visible leakage from the Body / Bonnet joint, surfaces or seals.

IOM V952, V952V

Page 3 of 6
27/04/12

Pegler Yorkshire
St. Catherine's Avenue,
Doncaster, South Yorkshire, DN4 8DF.
www.pegler.yorkshire.co.uk


Pegler Yorkshire



After testing the valves shall be left fully 'Open'.

Type Testing-These tests shall be carried out at Pegler Limited on a sample basis in accordance with BS6001.
DN50-DN200 PN16

- | | |
|--------------------------|----------|
| a) Hydrostatic body test | 24 bar |
| b) Hydraulic seat test | 17.6 bar |
| c) Pneumatic body test | 6 bar |
| d) Pneumatic seat test | 6 bar |

PN rated valves

V952, V952V Double regulating valves are categorised as S.E P. (Sound Engineering Practice) as such must not be CE marked.

PN	Non-shock pressure at temperature range	Non-shock pressure at Maximum temperature
16	16 bar -10°C up to 120°C	16bar at 120°C
	Suitable for use with Group 2 Liquids only	

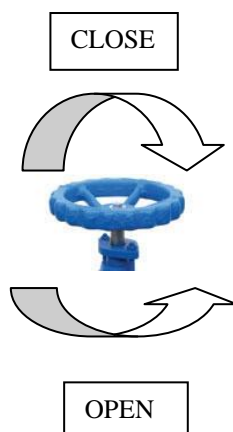
Not suitable for use with Group 1 Liquids, Group 1 or Group 2 Gases

Certification

Non applicable

Operation/ Commissioning

Pegler V952, V952V series valves: To open – an anti clockwise rotation of the hand wheel will open the valve. When it will go no further then rotate the hand wheel clockwise a ½ turn. To close- a clockwise turn of the hand wheel. Closure will be confirmed when the handle can be turned no further.



V952, V952V PN16

V952 series double regulating balancing valves and commissioning valves (when used with V953 Metering stations) are designed for regulating and throttling service. The V952 has a double regulating or memory stop feature. Once a regulated position is attained the cap on the valve handle may be removed. A brass threaded screw can be observed. Using a screwdriver this can then be turned until a positive stop is felt. Replace the cap. Whenever the valve is closed for isolating the valve can be reopened to the previous setting without re commissioning.

Regulating positions are readable on the scale counter on the valve stem as the valve handle is turned to achieve a set flow rate.

IOM V952, V952V

Page 4 of 6
27/04/12

Pegler Yorkshire
St. Catherine's Avenue,
Doncaster, South Yorkshire, DN4 8DF.
www.pegler.yorkshire.co.uk





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 disk to become tight in the valve. The valve may become stiff to operate in these circumstances.

Suitable hand protection should be worn when operating valves used in extreme temperature 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.

Should a valve need replacing then the following should be taken into consideration.

The valve should be at zero pressure and ambient temperature before any valve replacement is carried out.

The correct fitting tools and equipment should be used for valve replacement work.

Separate means of draining the pipe work must be provided when carrying out any replacement of V952, V952V ductile iron double regulating valves.

Where there may be any system debris this should be collected and /or filtered by installation of the appropriate protective device.

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.

3.2 Additives

It is strongly recommended to consult a commissioning engineer in conjunction with the manufacturer prior to their use.

3.3 Warranty

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 in 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.

IOM V952, V952V

Page 5 of 6
27/04/12

Pegler Yorkshire
St. Catherine's Avenue,
Doncaster, South Yorkshire, DN4 8DF.
www.pegler-yorkshire.co.uk


Pegler Yorkshire



Section 4-Storage

Valves should be stored off the ground in a clean, dry, indoor area. Where desiccant bags are included these should be changed after a period of six months.

Pegler valves are supplied in appropriate packaging to give adequate protection from damage. Cast or ductile iron and steel valves may also have end protection caps.

When Pegler valves are fitted to pressure equipment or assemblies, suitable protective devices may be required.

Section 5 -Contact details

For further details please contact our technical department: **0800 156 0050**

**Pegler Yorkshire Group Limited,
St. Catherine's Avenue,
Doncaster,
South Yorkshire
DN4 8DF**

tech.helpline@pegler-yorkshire.co.uk
www.pegler-yorkshire.co.uk