



Presreg valves

PRODUCT RANGE

Presreg Valves design and manufacture a comprehensive range of high quality pressure control and flow equipment for use with liquid and gas systems.

Presreg Valves have been supplying industry leaders with a full range of high integrity pressure and flow valves for 30 years. Clients include international companies across the medical, scientific, off shore and subsea sectors.

The Presreg range is suitable for accurately controlling gases and liquids to 1050bar pressure with additional features such as electrical actuation and control feedback facilities.

Presreg is owned by Loughborough based, JRE Precision Limited. JRE Precision holds ISO 9001: 2008 and manufactures the Presreg range to provide individual solutions for special applications and assisting with customer development programmes. Due to their unique ability to accommodate short production runs JRE Precision is a leading partner for pioneering businesses.

The strength of the company is centred on being able to manufacture, assemble and test in-house their range of critical components. Products are individually tested and certified and we have approved facilities and procedures for cleaning OXYGEN and HIGH PURITY equipment.

Presreg Valves product profile includes:-

- High Pressure Upstream & Downstream Regulators
- High Flow Regulators
- Electronic signal controlled Pressure Regulators
- Pneumatic Dome Loading Regulators
- Pressure Relief Valves
- High Pressure / Zero Leakage Isolation Valves
- Pilot Operated Isolation and ESD Valves
- System Protection / Fail-safe Valves
- Automatic Change over Valves
- Pipeline Filtration
- Bespoke Valves and System Design / Manufacture

Every valve is hydraulically tested at 1.5x MWP and gas tested (where appropriate) at 1.1x MWP. Test certificates are always issued with each valve or batch of valves and refer to individual testing data.

OXYGEN and HIGH PURITY CLEANING AVAILABLE ON MOST OF OUR PRODUCTS.

Our products are used in many different fields of operation, including the following:

- medical and breathing gas regulation
- high pressure hydraulic & gas controls for oil and gas fields
- aircraft support panels
- submarine ballast control valves
- Compressed airline control
- Natural gas monitoring panels
- Brewery industry
- Oxygen clean environments

At PRESREG VALVES we are able to use a multitude of materials to match your design and application. Materials include:-

- Stainless Steel 316 and 303
- Super Duplex
- Brass
- Bronze
- Aluminium
- Mild steel
- Hastelloy

ORDERING PRESREG VALVES

SPARES AND REBURFISHMENT SERVICES.

Regulators are identified by an individual serial number traceable to the original order for the purpose of spares, replacements etc. Spares kits are available for all of our product range. To get prices, please contact PRESREG VALVES and have the serial number of the valves to be serviced to hand. We also offer a complete refurbishment service which is done in house. Refurbished product is returned re-tested and re-certified.

The products described in this leaflet are a representative sample of our standard range. Many operating features, materials of construction and thread configurations can be readily changed to suit customer's requirements whilst maintaining realistic delivery times. Also forming part of the service we offer is a design/development and manufacturing facility in order to produce specialised valves and equipment for

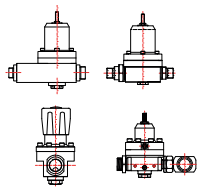
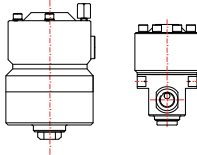
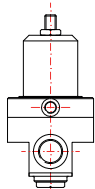
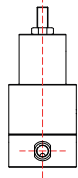
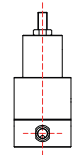
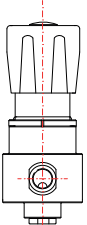
individual applications. If your objective is to control flow or pressure within liquid and gas systems we stand ready to serve your needs.

CUSTOMER INFORMATION

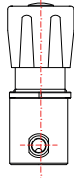
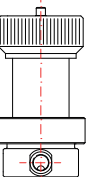
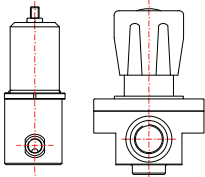
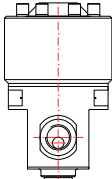
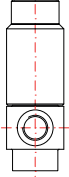
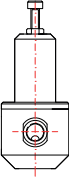
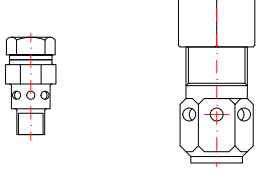
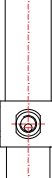
When ordering or enquiring about our products it is helpful if the following information is available to aid selection:

- Inlet Pressure
- Flow rate
- Fluid/Gas to be controlled
- Outlet Pressure Range
- Material Requirements
- Downstream pressure release requirements (venting)
- Optional extras required

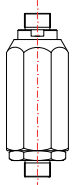
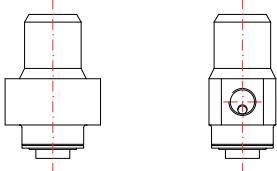
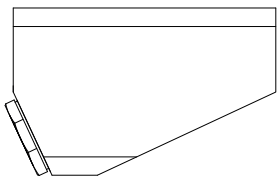
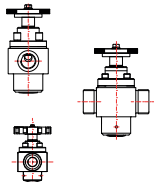
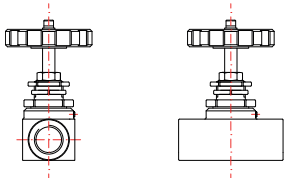
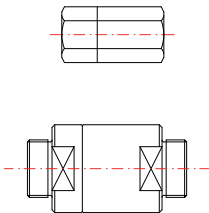
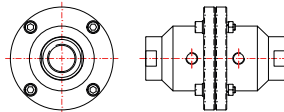
PRESSURE REGULATORS

SERIES 100/101	DESCRIPTION	FEATURES
	<p>Hand controlled pressure regulator range incorporating high flow and high accuracy capabilities. Suitable for inlet pressure up to 6000psi (414bar). Outlet pressures up to 2000psi (138bar). Various port sizes from 1/2" to 2". Bubble tight shut off.</p>	<p>Choice of standard material options suitable for most liquid and gas applications including OXYGEN and N.A.C.E Specifications. Optional downstream pressure and captured venting features also available.</p>
SERIES 102	DESCRIPTION	FEATURES
	<p>Dome loaded Pressure control regulator with high flow/high accuracy performance. Suitable for inlet pressures up to 6000psi (414bar). Outlet pressures up to 6000psi (414bar). Various port sizes from 1/2" to 1 1/2". Bubble tight shut off.</p>	<p>Selection of standard material combinations available to suit most gaseous and liquid applications including OXYGEN and N.A.C.E Specifications. Line loaded or pilot source pressure control.</p>
SERIES 103	DESCRIPTION	FEATURES
	<p>Economical hand control pressure regulator with high flow and high accuracy over low outlet pressure ranges. Suitable for inlet pressures up to 3000psi (207bar). Outlet pressures up to 150psi (10bar). Various port sizes from 3/8" to 1/2". Bubble tight shut off.</p>	<p>Standard material options in Stainless steel, Brass and Aluminium. Compatible with most liquid and gas duties. Locking screw or hand adjustment. Optional downstream venting.</p>
SERIES 105	DESCRIPTION	FEATURES
	<p>Miniature, low flow, and low outlet pressure range. Economical design reduces cost. Suitable for inlet pressures up to 4600psi (320bar). Outlet pressures up to 1500psi (100bar). 1/4" Porting as standard, BSP, BSPT or NPT. Bubble tight shut off.</p>	<p>Stainless and Brass models and high purity options. Locking Screw or Hand adjustment options. Integral main valve filter option available.</p>
SERIES 106/116	DESCRIPTION	FEATURES
	<p>Hand controlled pressure reducing valve range, utilising modular assemblies. Modular construction allows complete flexibility for operational requirements and ease of maintenance with minimal downtime. Medium Flow. Suitable for inlet pressures up to 10000psi (690bar). Outlet pressures up to 10000psi (690bar) various port sizes from 1/4" to 1/2". Bubble tight shut off.</p>	<p>Available in Stainless Steel, Brass Bronze and Aluminium and suitable for most liquid and gas applications including OXYGEN and N.A.C.E Specifications. Inter-changeable valve and pressure modules with many optional features including captured venting and gauge ports.</p>
SERIES 107	DESCRIPTION	FEATURES
	<p>The big brother of the 106/116 range, with high flow capabilities. Utilises modular assemblies. Modular construction allows complete flexibility for operational requirements and ease of maintenance with minimal downtime. Suitable for inlet pressures up to 6000psi (414bar) Outlet pressures up to 6000psi (414bar). Various port sizes from 1/4" to 3/4". Bubble tight shut off.</p>	<p>Available in Stainless Steel, Brass Bronze and Aluminium and suitable for most liquid and gas applications including OXYGEN and N.A.C.E Specifications. Many options available including captured venting and gauge ports.</p>

PRESSURE MAINTAINING AND RELIEF VALVES

SERIES 150	DESCRIPTION	FEATURES
	<p>Hand control pressure maintaining regulator range incorporating modular, interchangeable construction for complete flexibility of choice. Control line pressure ranges up to 10000psi (690bar). Port Sizes from 3/8" to 1/2" Bubble tight seal back.</p>	<p>Available to suit most liquid and gaseous applications with material options in Stainless steel, Bronze and Aluminium. Interchangeable valve and pressure sensing modules and many optional extras including pressure locking and gauge port.</p>
	<p>Miniature hand control pressure maintaining regulator. Control line pressure ranges up to 250psi (17bar). Port Sizes from 1/8" to 1/4". Bubble tight seal back.</p>	<p>Stainless steel or Brass material options with high purity version also available. Lock screw or hand adjustment and optional safe venting feature.</p>
	<p>Hand control pressure maintaining regulator range. Accurate high flow performance with pilot signal bias if required on certain models. Control line pressure ranges up to 1500psi (104bar). Body ratings up to 4000psi (276bar). Port sizes 3/8" to 1". Bubble tight seal back.</p>	<p>Stainless steel construction with other material options available. Balanced seating feature optional on certain models. Locking screw or hand adjustment options.</p>
	<p>Dome loaded high accuracy fully balanced controller. Large flow capacities with minimum over pressure characteristics and fast re-seat. Control line pressure up to 7000psi (483 bar). Port sizes 1/2" to 2". Bubble tight sealing.</p>	<p>Stainless steel or Brass material options with high purity version also available. Lock screw or hand adjustment and optional safe venting feature.</p>
	<p>Direct acting, compact, spring loaded pressure relief valve. Good exhaust and seal back characteristics. Available in 5 pressure ranges up to 5000psi (345bar). Body rating up to 6000psi (414bar). Standard port Sizes 3/8" (all ports). Bubble tight re-seat.</p>	<p>Stainless Steel or bronze material options available as standard with Oxygen and N.A.C.E versions also available. 'L' or 'T' Porting configurations and alignment adaptor for ease of installation.</p>
	<p>Direct acting, spring loaded pressure relief valve. Good exhaust and seal back performance. Setting ranges up to 500psi (35bar). Port sizes 1/2" as standard (all ports). Bubble tight re-seat. Body rating 1000psi.</p>	<p>Stainless steel construction with special material options available to suit individual requirements, including Oxygen and N.A.C.E specifications.</p>
	<p>Small direct acting spring loaded relief valves. Exhausting direct to atmosphere. Good discharge and re-seat characteristics. Ranges up to 1000psi (69bar). Port sizes 1/4" to 1/2". Body rating up to 4000 psi. Bubble tight shut off.</p>	<p>Economic construction in brass or stainless steel. Suitable for all non-aggressive gases. Simple configuration for pipework or vessel protection.</p>
	<p>Large capacity, direct acting, spring loaded relief valve. Designed for accurate repeat venting of large flows. Port sizes: 1" x 1" x 1" or 1 1/4" x 1 1/4" x 2". Maximum setting: 1" valve 2300psi (160bar) 1 1/4" valve 700psi (48bar). Body rating up to 4000psi (276bar). Bubble tight re-seat</p>	<p>Constructed in brass, oxygen compatible materials as standard with other material options to suit individual applications also available. 'T' port configuration as standard. Other arrangements to suit individual applications are available.</p>

ANCILLARY EQUIPMENT

SERIES 200	DESCRIPTION	FEATURES
	In-line large capacity, high pressure filter. Male or female ports 1/2" to 1 1/2". 2.5 to 60 micron filtration. Up to 6000psi (414bar) Pressure rating.	Available from standard range in Brass, Stainless steel, Aluminium and Bronze. Easy filter replacement. Oxygen and N.A.C.E. compatible versions available.
SERIES 201	DESCRIPTION	FEATURES
	Tee filter. In-line ports with element change from the base. Female port connections 3/8" and 1/2". Filtration range from 5 to 60 micron. Pressure rating up to 6000psi (414bar).	Compact, easily maintained unit. Available in Brass, Bronze and Stainless steel, Oxygen and N.A.C.E. specifications. Alignment adaptors also available. Easily maintainable with filter element capable of change without removing body from the line.
SERIES 202	DESCRIPTION	FEATURES
	Large Capacity 'Y' Filter. Female ports in 3/4" and 1". Filtration range from 5 to 60 micron Pressure rating up to 6000psi (414bar).	Robust easily maintained unit. Available in Brass, Bronze and Stainless steel, Oxygen and N.A.C.E. specifications.
SERIES 400/401 & 404	DESCRIPTION	FEATURES
	High Pressure stop valve ranges. Fully balanced design to ensure easy operation at pressures up to 6000psi (414bar). Port sizes from 1/4" to 2" Male or Female. Bubble tight seal.	Bronze or Stainless steel construction. Soft Seating. Easy operation. Panel mounting. Non-rising spindle design. Material options for Oxygen or N.A.C.E. Specifications.
SERIES 402	DESCRIPTION	FEATURES
	Neat, compact stop valve range. Bubble tight shut off at operating pressures up to 4000psi (276bar). Economical design reduces cost. Rising stem type. Port sizes 1/4" to 1" Female.	Bronze, Stainless steel and Aluminium construction. Soft Seating. Easy operation. Panel mounting.
SERIES 500/501 & 502	DESCRIPTION	FEATURES
	Compact pressure relief or non-return valve. Good flow. Positive seating. Low pressure loss. Pressures up to 6000psi (414bar). Suitable for liquid or gas. 1/4" to 1 1/4" connections. Specials available on request.	Positive seal, low differential opening pressure. Available in Bronze or Stainless steel. Other material options to suit individual requirements.
SERIES 911	DESCRIPTION	FEATURES
	Pilot operated in-line stop valves. Compact design with good flow path. Available in port sizes from 1/2" to 3" with body ratings up to 2000psi (138bar). Signal pilot pressures from 50-2000psi (3.4 to 138bar). Bubble tight seal at shut off.	Stainless steel, Brass and Bronze options with other materials available for individual specifications. Fully balanced spool enables low pressure signal to operate high pressure systems.

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