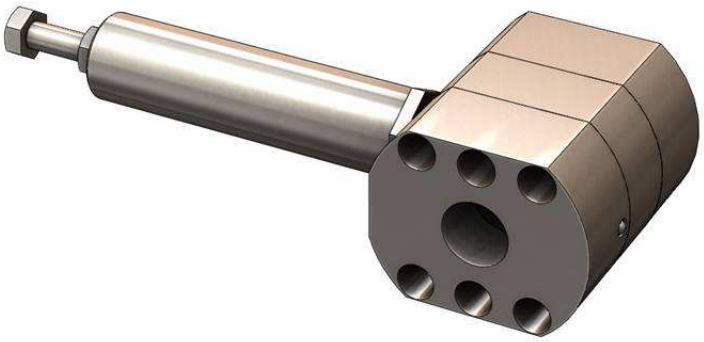
Janus
CONTROL VALVE

PRESSURE CONTROL VALVE

The Water Hydraulics Co. Ltd.

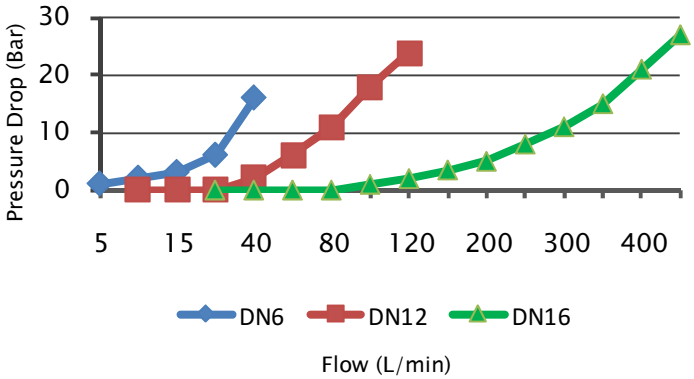
A patented range of valves that can control the pressure of corrosive fluids in hydraulic systems. Designed specifically for fluids with low viscosity the valves offers accurate control with high resistance to flow erosion experienced in pressure control applications. The valve fully conforms to the Pressure Equipment Directive and can include internal burst disc assemblies for safety applications.

SPECIFICATION	
Max Inlet Pressure	180 Bar
Operating Pressure Range	10 to 30 Bar 25 to 100 Bar 70 to 160 Bar
Flow Range – DN3 – DN6 – DN12 – DN16	0–10 L/min 0–30 L/min 0–120 L/min 0–450 L/min
Construction Materials	316 Stainless Steel Polymer or Ceramic



Flow Characteristics

Variation between cracking and full flow pressure

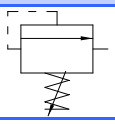


Seals
Standard valves are supplied with Nitrile seals. Alternatives are available on request

Noise:
The valve offers very low noise output even when relieving at high system pressures. The usual high pitch "squeal" associated with water relief valves is not generated with this range of valves

Relief Setting:
The operating pressure range must be specified on all orders. Not only the spring force varies with pressure but also the actuation piston is sized to give both accuracy and precision in low, medium and high pressure valves.

Drip rate:
The valves do not offer 100% seal below set pressure. A drip rate when operating at 75% of its set pressure will result

ORDERING CODES	DN6	DN6 M'fold	DN12	DN16
 Pressure Control Valve	207BXSW	2M07BXSW	207DXSW	207EXSW

The Water Hydraulics Co. Ltd.
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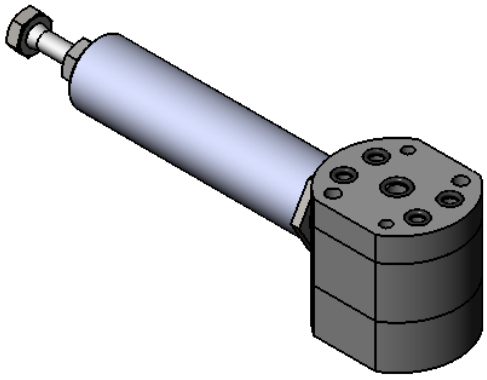
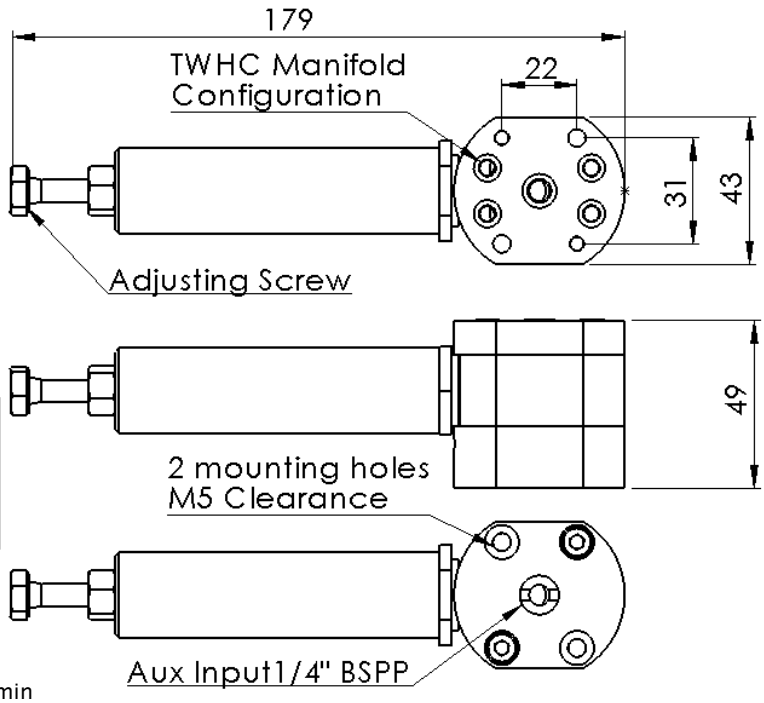
Website: www.waterhydraulics.co.uk

FM 87247

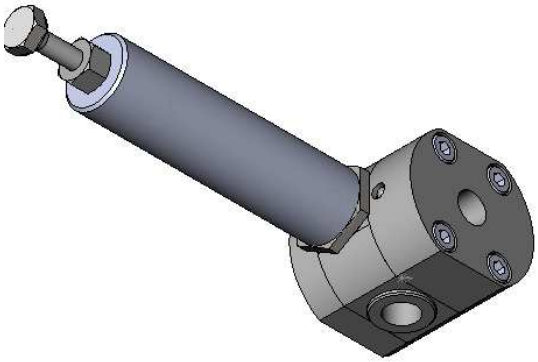
2M07BXSW

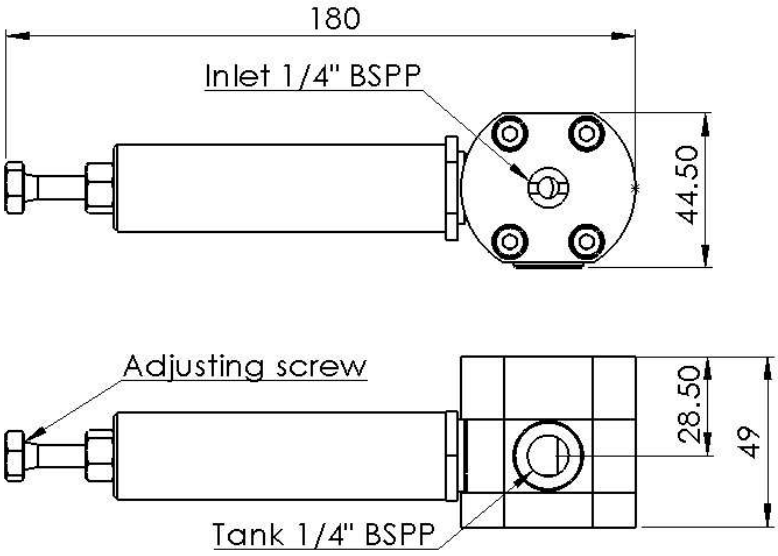




Maximum flow on the manifold relief valve 22l/min

207BXSW





Maximum flow on the stand alone DN6 relief valve 30l/min

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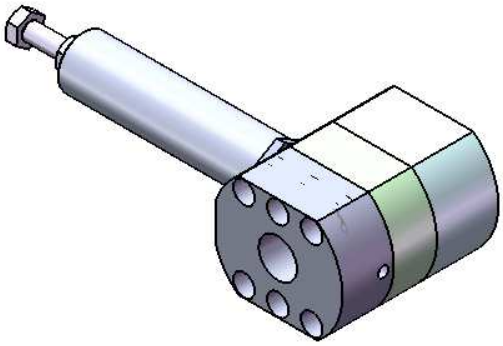
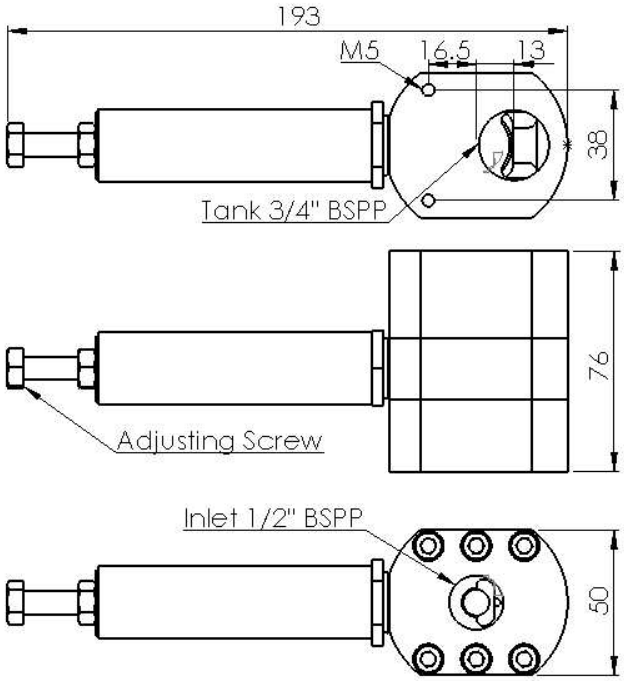
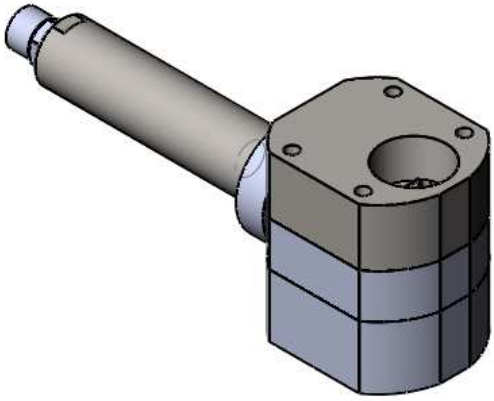
207DXSW

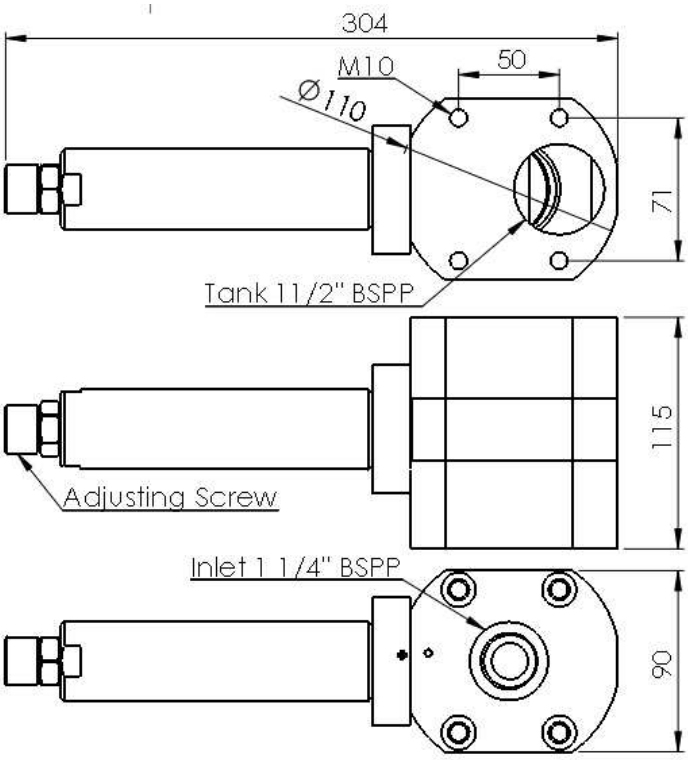




Maximum flow on the DN12 relief valve 120 l/min

207EXSW





Maximum flow on the DN16 relief valve 450 l/min

The pressure control valves are not “Safety Accessories” as defined in the Pressure Equipment Directive 97/23/EC.

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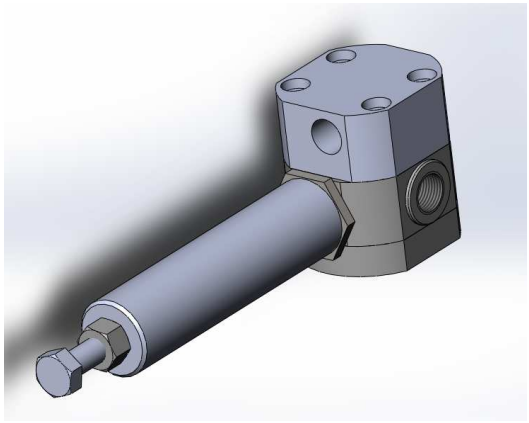
CONTROL VALVE

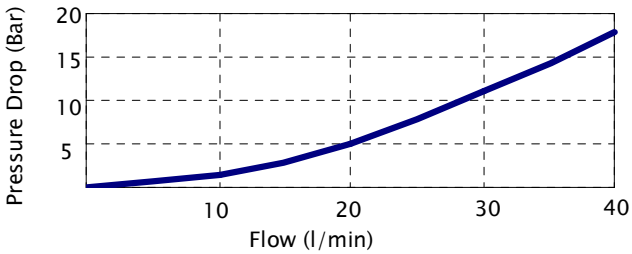
PRESSURE REDUCING VALVE

A patented range of valves designed to control pressure in a hydraulic system using tap water to EU directive 98/83/EC. Designed specifically for fluids with low viscosity the valves offers accurate control with high resistance to flow erosion experienced in pressure control applications.

SPECIFICATION	
Max Inlet Pressure	180 Bar
P Out setting Range	10 to 30 Bar 25 to 100 Bar 70 to 160 Bar
Max Flow	30 L/min
Feed Gallery Diameter	6mm
Porting	1/4" BSP (Parallel)
Construction Materials	316 Stainless Steel Polymer



Flow Characteristics



Function

Designed to protect equipment from high system pressure in multi function circuits.

An example of use is to limit the force of a cylinder when higher system pressure is needed for other functions.

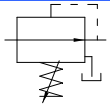
The valve is designed to limit the pressure in the P out port even if there is zero flow demand in this line. This function ensures cylinder force control even under stall or reaching an end stop condition.

The valve restricts the inlet when nearing the control pressure setting and with the same action relieves the service line to tank ensuring only minimal energy is lost from the system.

The pressure can be reduced to a maximum by 70% of the inlet pressure in one stage, e.g. 100 bar system pressure minimum reduced pressure 30 bar

Reverse Flow

The valve does not offer a restriction with reverse flow.

ORDERING CODES	DN6
 Reducing Valve	209BXSW

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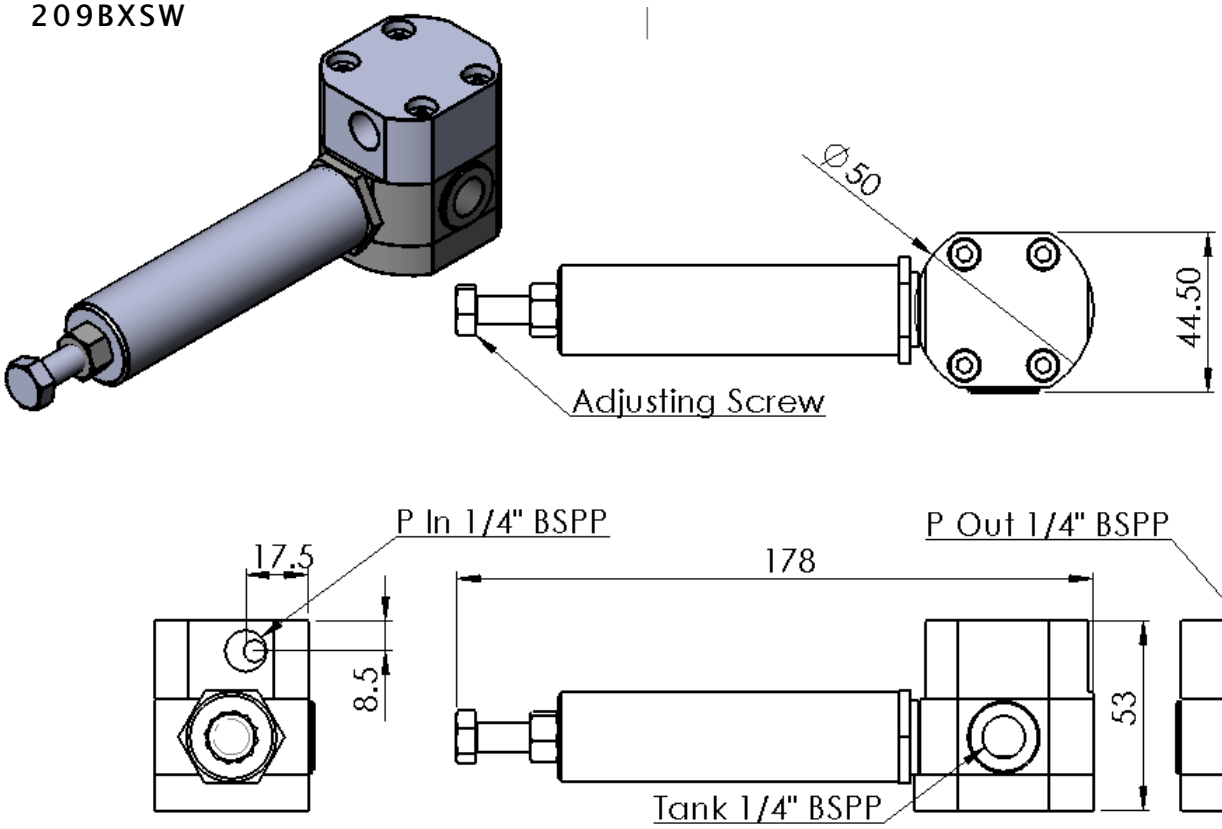
CONTROL VALVE

PRESSURE REDUCING VALVE

209BXSW



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