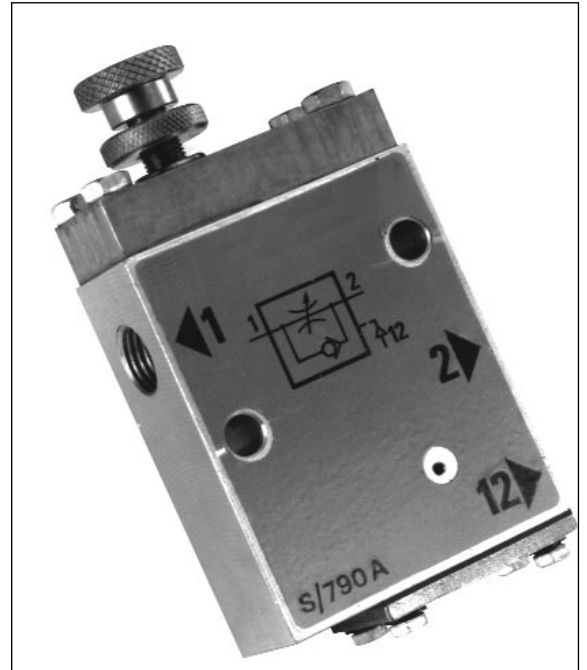




- Precision control of regulated flow
- Air operated by-pass enables flow regulation to be overridden
- Enables cylinder speeds to be varied during stroke
- Assists the cushioning of cylinders moving heavy loads at high speeds
- Adjustment can be locked
- Suitable for wall mounting



### Technical Data

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operation:

Uni-directional with air operated by-pass

Mounting:

Through-holes in valve body

Port Size:

G<sup>1</sup>/<sub>4</sub>

Operating Pressure:

0 - 10 bar

Operating Temperature:

-20°C\* to +80°C

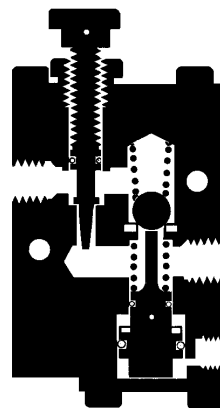
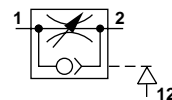
\*Consult our Technical Service for use below +2°C

### Materials

Aluminium body, brass end plates, adjusting knob and locking ring, steel regulating needle, nitrile rubber seals.

### Ordering Information

To order, quote model number S/790

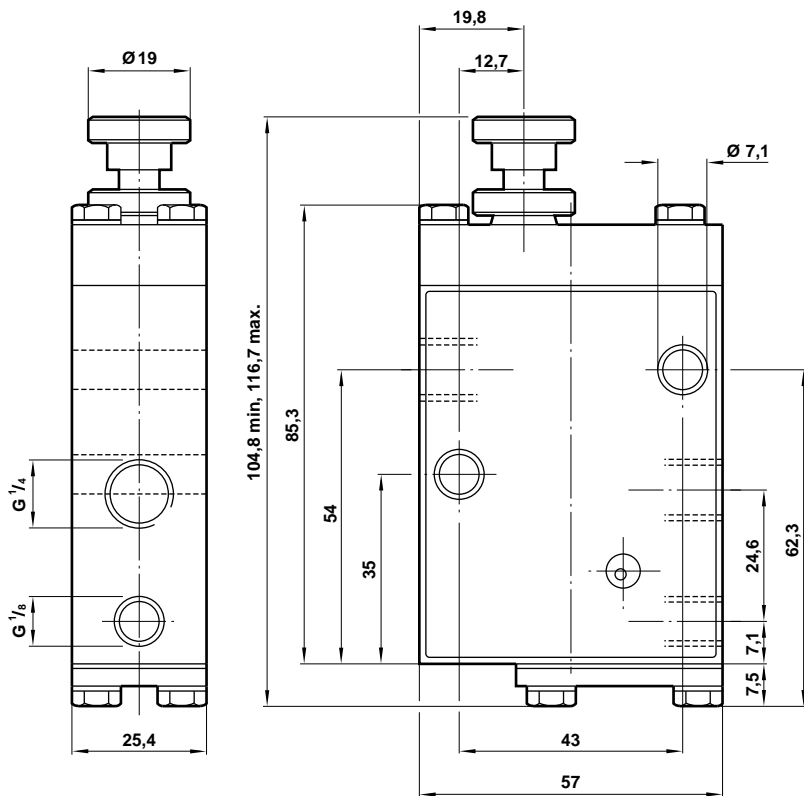




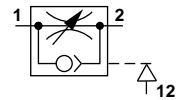
General Information

Model	Type	Port Size	Weight (kg)	Spares kit
S/790	Uni-directional	G1/4	0,44	QS/790/00

Precision Flow Regulator with By-pass



Model Number: **S/790**  
 Type: Uni-directional



Free flow is from '2' to '1' in the normal condition and in both directions when the by-pass is operated.

The by-pass feature of this regulator enables the regulated flow to be overridden by means of a pilot signal to give full flow from the inlet port '1' to the outlet port '2'. By this means the speed of a cylinder can be varied during the stroke by applying a signal to the regulator to override the regulated flow and give full bore operation. On removal of the signal the cylinder is slowed to its regulated speed.

The by-pass may be operated several times during the stroke if required. Where heavy loads are to be moved at high speed, the S/790 can be used to give unrestricted speed during the main part of the stroke and then regulating it prior to the cylinder going into cushion to assist cushioning.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. **System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.** System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products where applicable.