

3/2 Poppet Valves Mechanically Actuated G¹/₈

- Long established and well-proven valves
- Compact size
- Normally closed and normally open models
- May also be used as 2/2 valves



Technical Data

Medium:

Compressed air, filtered, lubricated and non-lubricated or hydraulic fluid

Operation:

Poppet valves, directly actuated

Mounting:

Through-holes in valve body

Port Size:

G¹/₈

Operating Pressure:

2 - 10 bar

Flow (to CETOP RP50P):

'C' - Conductance dm³/s/bar 0,66 S/666/40

'b' - Critical pressure ratio 0,29 S/666/40

Cv 0,20 S/666/40

'C' - Conductance dm³/s/bar 0,66 S/667/40

'b' - Critical pressure ratio 0,15 S/667/40

Cv 0,18 S/667/40

Operating Temperature:

-20°C* to +80°C

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

Materials

Diecast zinc alloy body, plastic piston, nitrile rubber seals.

Ordering Information

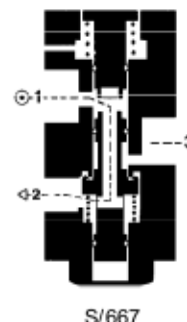
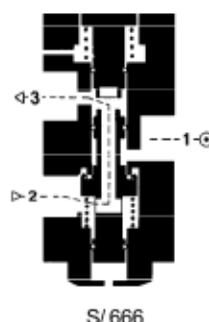
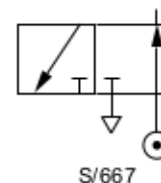
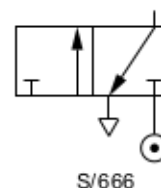
To order, quote model number from table overleaf, e.g. S/666/8 for the Roller Actuated, Spring Return normally closed model.

Alternative Models

Other operator types for the S/666 and S/667 ranges of valves are also available:

Section 5.5. - Pressure operated models

Section 5.7. - Manually operated models





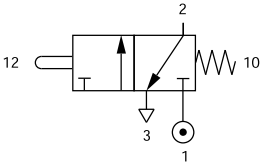
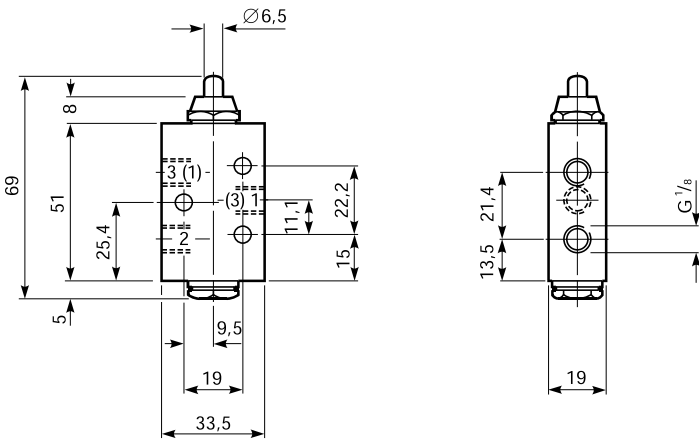
General Information

Model	Type	Operator	Return	Weight (kg)	Spares kit
S/666/14	Normally closed	Plunger	Spring	0,20	QS/666/1/00
S/667/14	Normally open	Plunger	Spring	0,20	QS/667/1/00
S/666/8	Normally closed	Roller	Spring	0,30	QS/666/1/00
S/667/8	Normally open	Roller	Spring	0,30	QS/667/1/00
S/666/108	Normally closed	Roller	Spring	0,30	QS/666/1/00
S/666/48	Normally closed	One-way Trip	Spring	0,30	QS/666/48/00
S/667/48	Normally open	One-way Trip	Spring	0,30	QS/667/48/00
S/666/106	Normally closed	Rod	Spring	0,30	QS/666/1/00
S/666/116	Normally closed	Antenna	Spring	0,30	QS/666/1/00
S/666/126	Normally closed	Antenna	Spring	0,30	QS/666/1/00

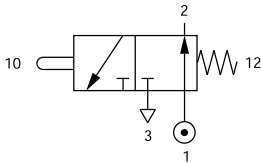
Warning

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 MARTONAIR. 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.

Plunger Actuated, Spring Return

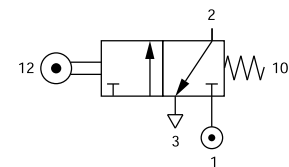
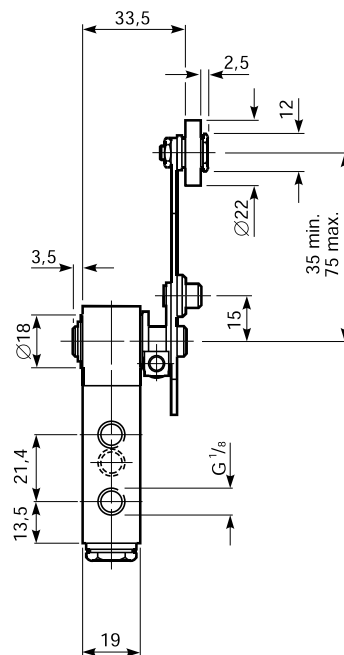


Model Number: **S/666/14**
Type: 3/2 Normally closed
Operating Force: 35 N at 6,3 bar supply
Pre-travel: 0,8 mm closed top seat
Operating Travel: 0,8 mm open bottom seat
Over-travel: 1,5 mm
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.



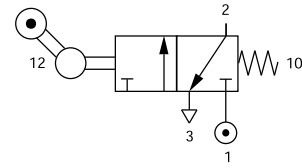
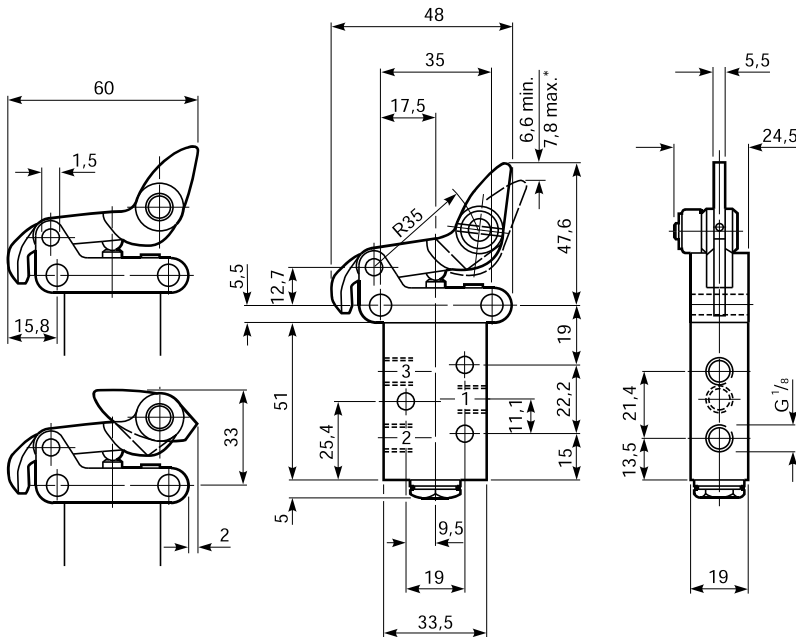
Model Number: **S/667/14**
Type: 3/2 Normally open
Operating Force: 72 N at 6,3 bar supply
Pre-travel: 0,8 mm closed top seat
Operating Travel: 0,8 mm open bottom seat
Over-travel: 1,5 mm
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

Technical drawing of a three-armed bracket. The drawing shows a top view and a side view. The top view includes dimensions for the arm length (30° min., 25° min., 25° min.), the distance between the arms (18), and the overall width (33,5). The side view shows the height of the bracket (90 max*), the distance from the base to the top of the arms (51), and the distance from the base to the top of the mounting holes (25,4). The base has a width of 19 and a height of 5. The mounting holes have a diameter of 11,1. The distance from the base to the top of the mounting holes is 22,2. The distance from the base to the top of the arms is 28,5. The distance from the base to the top of the mounting holes is 15. The distance from the base to the top of the mounting holes is 37,5.





One-way Trip Actuated, Spring Return



Model Number: **S/666/48**

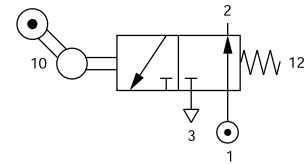
Type: 3/2 Normally closed

Operating Force: 18 N at 6,3 bar supply

Minimum Travel: 6,6 mm

Maximum Travel: 7,8 mm including over-travel
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

*Includes overtravel



Model Number: **S/667/48**

Type: 3/2 Normally open

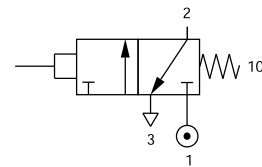
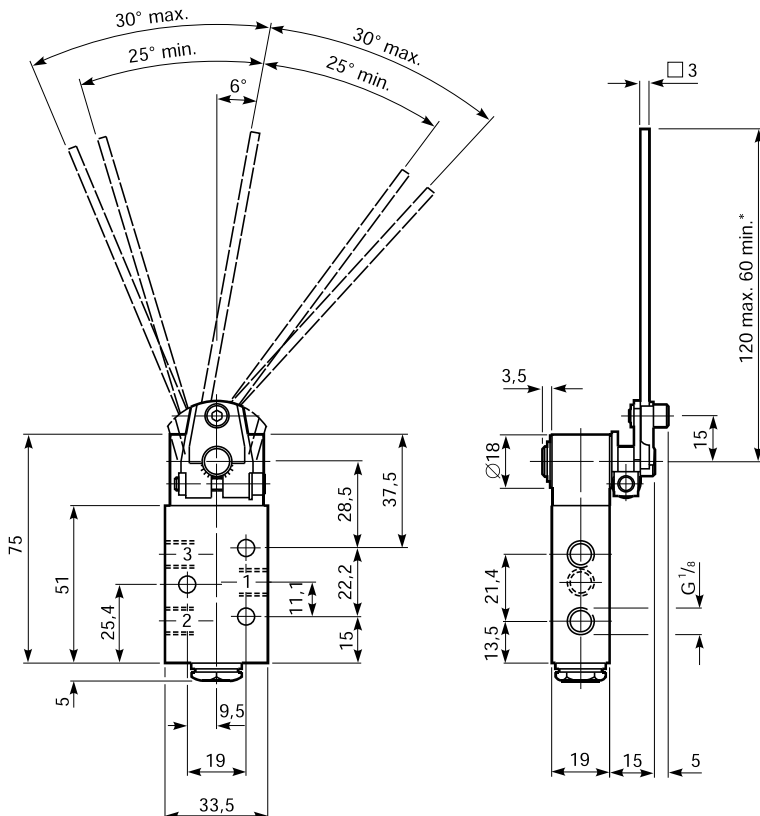
Operating Force: 40 N at 6,3 bar supply

Minimum Travel: 6,6 mm

Maximum Travel: 7,8 mm including over-travel
For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

*Includes overtravel

Variable Rod Actuated, Spring Return



Model Number: **S/666/106**

Type: 3/2 Normally closed

Operating Torque: 0,25 Nm at 6,3 bar supply

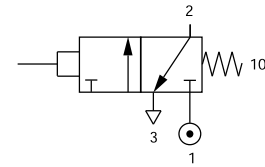
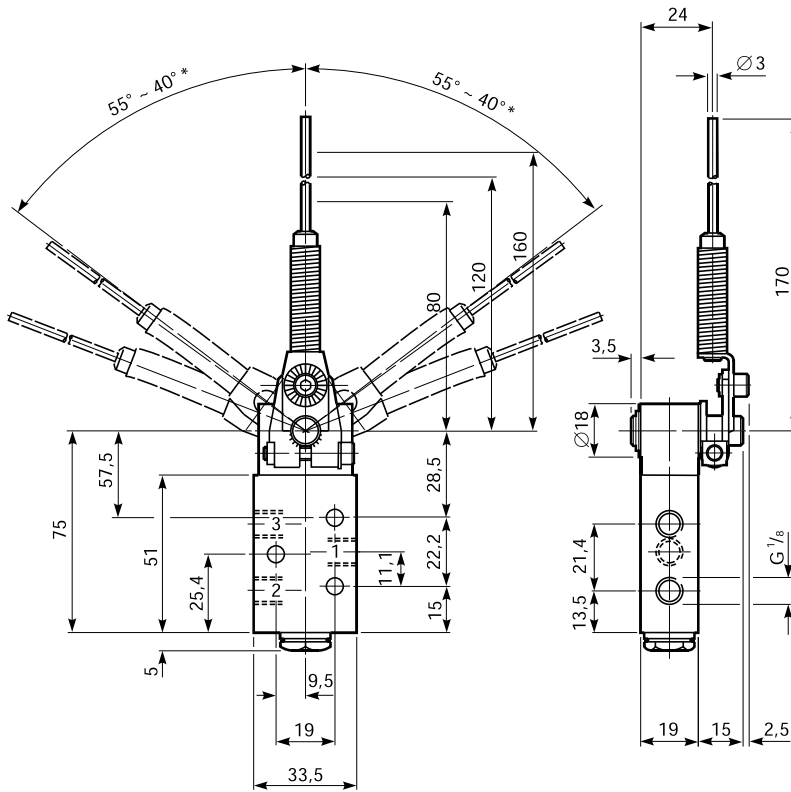
Mechanism may be operated either side of centre line.

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

*Recommended



Antenna Spring Actuated, Spring Return



Model Number: **S/666/116**

Type: 3/2 Normally closed

Operating Torque: 0,25 Nm at 6,3 bar supply

*Rotation at Point of Application: 40° minimum @ 80 mm

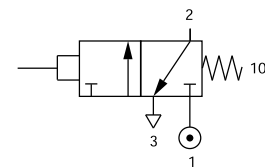
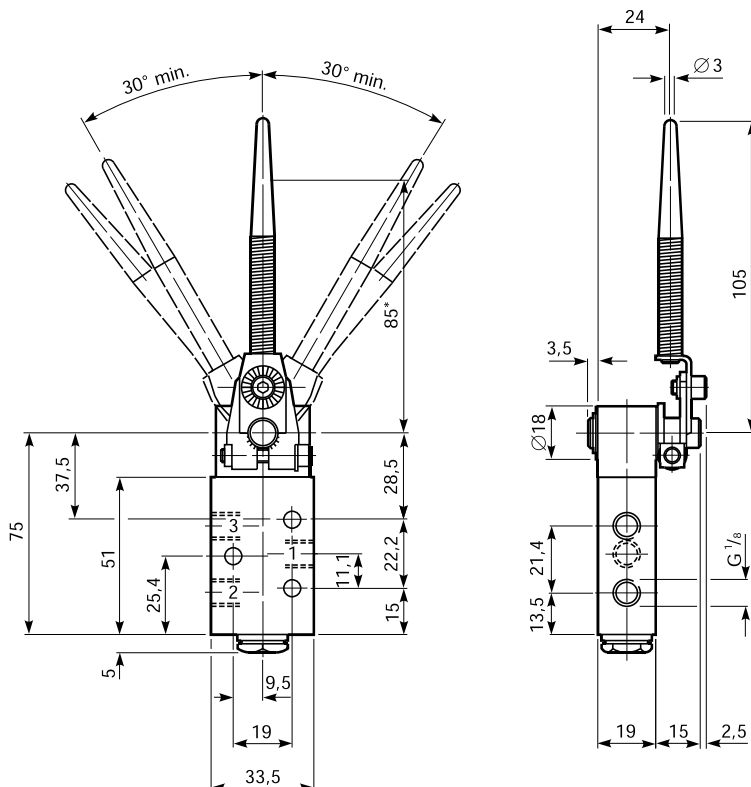
50° minimum @ 120 mm

55° minimum @ 160 mm

Mechanism may be operated either side of centre line.

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.

Antenna Spring Rod Actuated, Spring Return



Model Number: **S/666/126**

Type: 3/2 Normally closed

Operating Torque: 0,25 Nm at 6,3 bar supply

*Point of Application: 85 mm

Mechanism may be operated either side of centre line.

For use as a 2/2 valve the main supply must be connected to port '1' and the exhaust port '3' should be plugged.