

**Olympian Plus
Pressure Relief Valve
3/4", 1", 1 1/4", 1 1/2" Port Sizes**

- **Olympian plug in system**
- **Helps protect compressed air systems from over pressure by retarding excessive pressure build up**
- **Integral pilot design provides superior sensitivity, accuracy, and quick response to over pressure conditions**
- **High relief flow**
- **Threaded relief port for silencer or piped exhaust**


Technical Data

Fluid: Compressed air

Maximum pressure: 20 bar (300 psig)

Operating temperature*: -20° to +80°C (0° to +175°F)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Gauge ports:

1/8 PTF with PTF yoke ports

Rc1/8 with ISO Rc yoke ports

Rc1/8 with ISO G yoke ports

Exhaust port:

1" PTF with PTF yoke ports

Rc1 with ISO Rc yoke ports

Rc1 with ISO G yoke ports

Materials:

Body: Aluminium

Intermediate body: Aluminium

Bonnet: Aluminium

Bottom plug: Aluminium

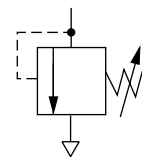
Adjusting screw: Steel

Elastomers: Synthetic rubber

Yoke: Aluminium

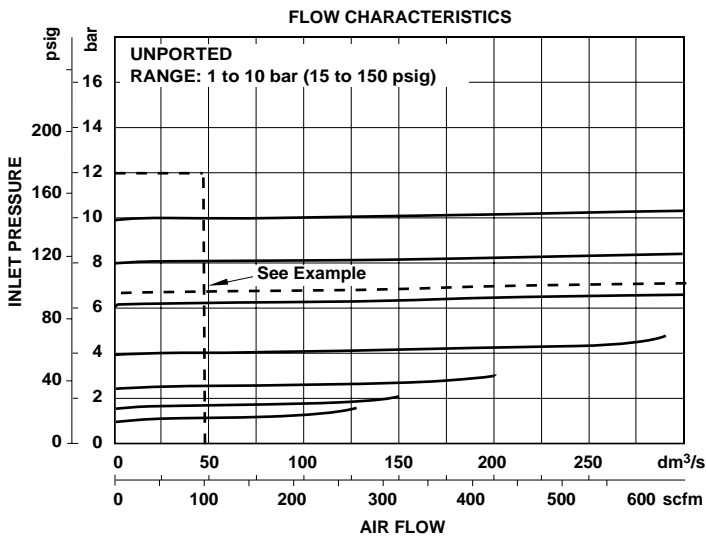
Ordering Information

See *Ordering Information* on the following pages.

ISO Symbol




Typical Performance Characteristics



How to Select a Relief Valve

The function of a relief valve is to help prevent an over pressure condition that could result in damage to downstream equipment. Typically, a pressure regulator reduces the supply pressure from the air compressor to a suitable working pressure. The relief valve is installed downstream of the regulator to protect downstream equipment from high pressure spikes. Flow capacity of the relief valve selected must equal or exceed the flow and pressure rating of the air compressor.

EXAMPLE: If your compressor delivers 47 dm³/s (100 scfm) at 12 bar (175 psig) and your system requires a working pressure of 6.2 bar (90 psig), the relief valve must have a set pressure slightly higher than the 6.2 bar (90 psig) working pressure and be capable of flowing 47 dm³/s (100 scfm) at 12 bar (175 psig), or pressures less than 12 bar (175 psig).

Ordering Information. Models listed include a yoke with ISO G threads, and a relief valve with 1 to 10 bar (15 to 150 psig) operating adjustment range*. a gauge is not included.

Port Size	Model	Weight kg (lb)
G3/4	V68H-6GD-RMN	2,21 (4.91)
G1	V68H-8GD-RMN	2,20 (4.89)
G1 1/4	V68H-AGD-RMN	2,22 (4.93)
G1 1/2	V68H-BGD-RMN	2,26 (5.02)

Alternative Models

V 6 8 H - ★ ★ ★ - R ★ ★

Port Size	Substitute
3/4"	6
1"	8
1 1/4"	A
1 1/2"	B
None	N

Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G
No Yoke (<i>N</i> in 5th position). Rc gauge and exhaust ports.	N
No Yoke (<i>N</i> in 5th position). PTF gauge and exhaust ports.	A

Gauge	Substitute
With	G
Without	N

Outlet Pressure Adjustment Range*	Substitute
0,4 to 4 bar (0 to 60 psig)	F
1 to 10 bar (15 to 150 psig)	M
0.7 to 17 bar (10 to 250 psig)	S

Adjustment	Substitute
Slotted screw	D

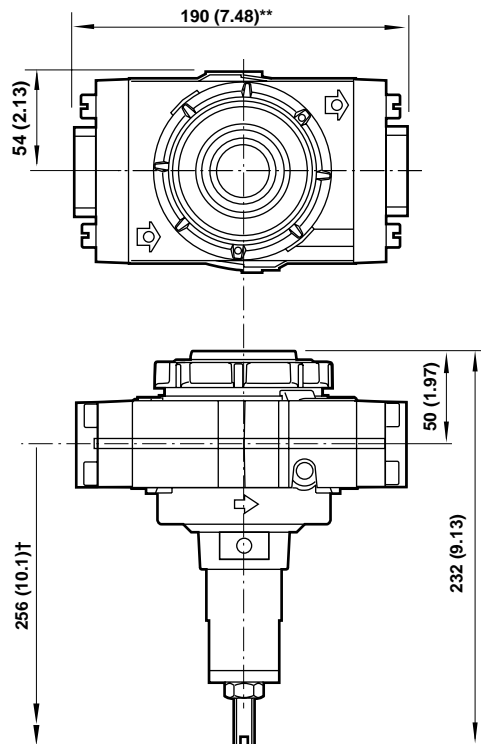
* Relief valve can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.



Accessories

Wall Mounting Bracket	Ø 50 mm Pressure Gauge R1/8 Connection 1/8 PTF Connection	Silencer
3/4" ported yoke: 18-001-979	4 bar (60 psig): 18-013-011 18-013-202	R1: MB008B
1" ported yoke: 18-001-979	10 bar (150 psig): 18-013-013 18-013-204	1" PTF: MB008A
1 1/4" ported yoke: 18-001-978	25 bar (360 psig): 18-013-014 18-013-206	
1 1/2" ported yoke: N/A		

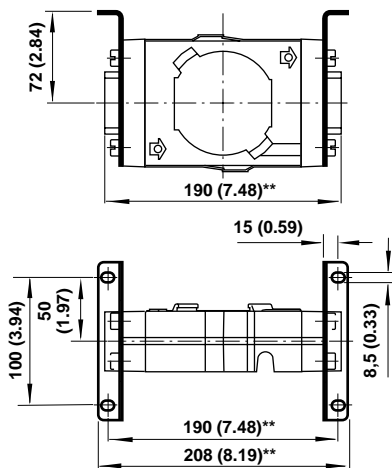
Dimensions mm (inches)



** Add 10mm (0.39") 1-1/4" and 1-1/2" models.
 † Minimum clearance required to remove unit.

Bracket Mounting

Use 4 mm (5/32") screws to mount bracket to wall.



** Add 10 mm (0.39") for 1 1/4" and 1 1/2" models.

Bracket Kit Reference

Item	Type	Part Number
Wall Bracket	3/4" ported yoke	18-001-979
	1" ported yoke	18-001-979
	1 1/4" ported yoke	18-001-978
	1 1/2" ported yoke	N/A



Service Kits

Item	Part Number
Service kit	4384-300

Service kit includes, valve spring, slip ring, valve assembly, diaphragm assembly and necessary seals and 'o' rings.

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.