Hydraulic Inline Pressure Relief Valves

G 3/8" to G 1", up to 350 bar, up to 150 l/min

Series: S-AZGM



Overview

Valve type	Pressure relief valve for inline mounting
Ports	G 3/8", G 1/2", G 3/4", G 1", female thread
Setting ranges	From 3 bar to 350 bar, in ranges for each valve
Nominal flow	30 l/min, 80 l/min or 150 l/min
Operation	Direct-operated (30 and 80 l/min), pilot-operated (150 l/min)
Medium	Hydraulic oil with a mineral oil base

Application

A pressure relief valve limits the system pressure. Use the valve for overpressure protection and for continuous operation.

Install the valve in the pressure line. Port P is the pressure port. When the pressure is more than the set pressure, the valve opens and the oil flows from port T back to the tank.

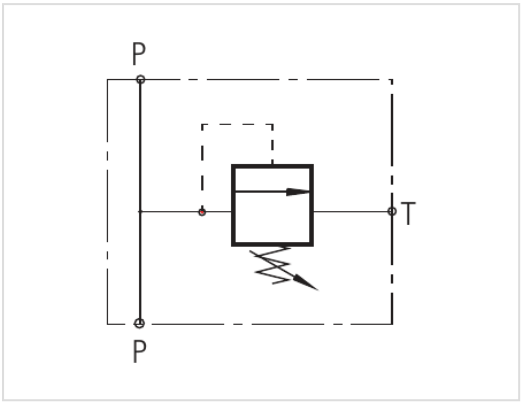
Each valve has a setting range. The minimum setting is measured at a flow of 5 l/min. At a higher flow, the minimum setting increases.

Technical Data

Design	Direct-operated (30 and 80 l/min), pilot-operated (150 l/min)
Port thread	G (BSPP), female: G 3/8", G 1/2", G 3/4", G 1"
Body material	Aluminium
Screw-in valve material	Galvanised steel
Seal material	NBR
Medium	Hydraulic oil with a mineral oil base
Temperature range	-20 °C to +80 °C
Setting ranges	From 3 bar to 350 bar. Minimum setting measured at 5 l/min.
Nominal flow	30 l/min, 80 l/min or 150 l/min
Mounting	Through-holes: Ø 6.5 mm (30 and 80 l/min), Ø 10.5 mm (150 l/min)

Nominal Flow 30 l/min, Direct-Operated

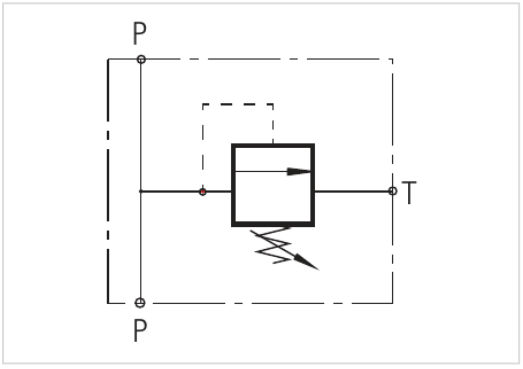
P = pressure port (pressure line from the pump). T = tank port (return line to the tank). Two P ports: the pressure line goes through the body.



SKU	Port	Setting range
H22BU	G 3/8"	5 to 50 bar
H22BV	G 3/8"	30 to 100 bar
H22BW	G 3/8"	50 to 210 bar
H22BX	G 3/8"	100 to 350 bar
H22BY	G 1/2"	5 to 50 bar
H22BZ	G 1/2"	30 to 100 bar
H22C2	G 1/2"	50 to 210 bar
H22C3	G 1/2"	100 to 350 bar

Nominal Flow 80 l/min, Direct-Operated

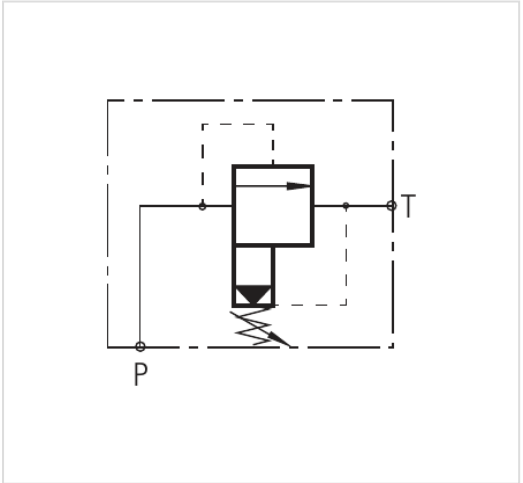
P = pressure port (pressure line from the pump). T = tank port (return line to the tank). Two P ports: the pressure line goes through the body.



SKU	Port	Setting range
H22C4	G 1/2"	5 to 50 bar
H22C5	G 1/2"	30 to 100 bar
H22C6	G 1/2"	80 to 250 bar
H22C7	G 3/4"	5 to 50 bar
H22C8	G 3/4"	30 to 100 bar
H22C9	G 3/4"	80 to 250 bar

Nominal Flow 150 l/min, Pilot-Operated

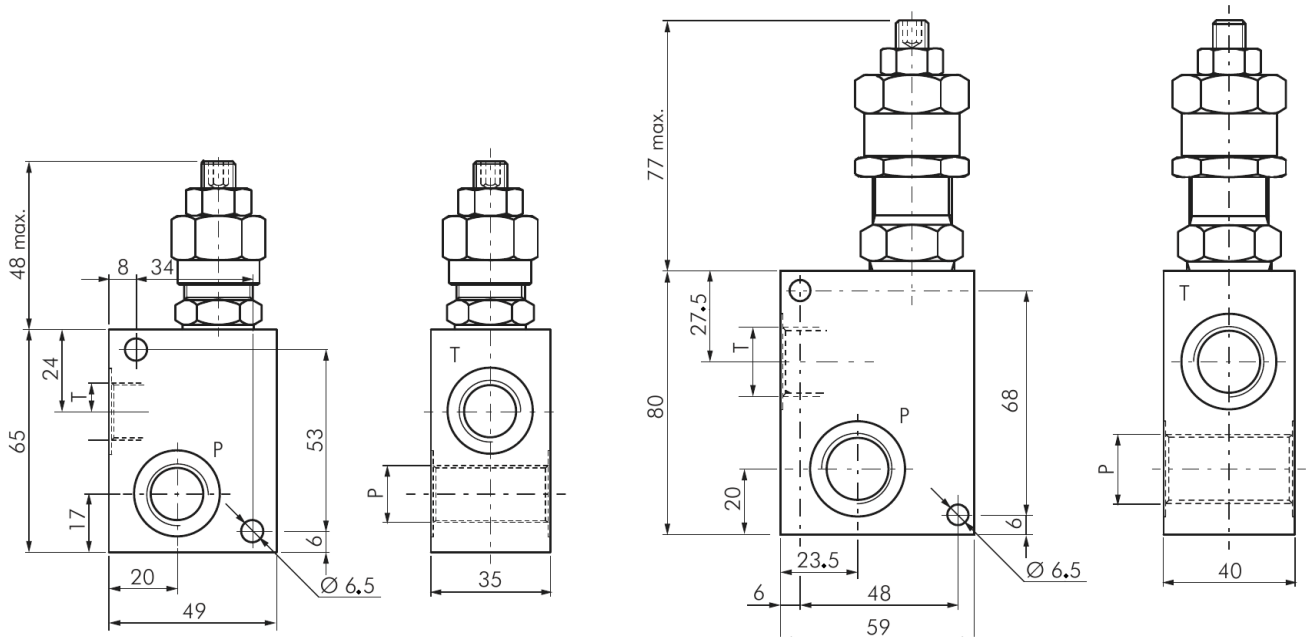
P = pressure port (pressure line from the pump). T = tank port (return line to the tank). One P port and one T port.



SKU	Port	Setting range
H22CA	G 1/2"	3 to 70 bar
H22CB	G 1/2"	7 to 105 bar
H22CC	G 1/2"	10 to 210 bar
H22CD	G 1/2"	35 to 350 bar
H22CE	G 3/4"	3 to 70 bar
H22CF	G 3/4"	7 to 105 bar
H22CG	G 3/4"	10 to 210 bar
H22CH	G 3/4"	35 to 350 bar
H22CJ	G 1"	10 to 210 bar
H22CK	G 1"	35 to 350 bar

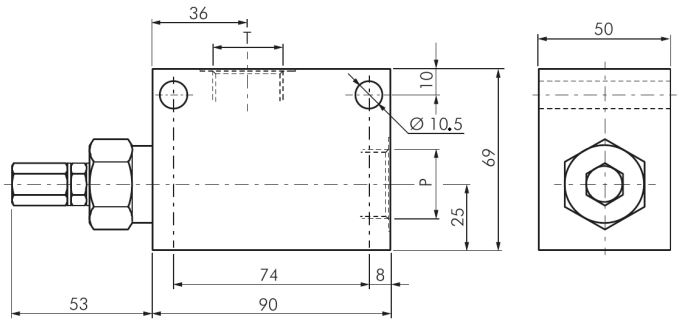
Dimensions

Dimensions in mm. The nominal flow is below each drawing. P = pressure port, T = tank port.



30 l/min

80 l/min



150 l/min

Installation

> **⚠ Warning**
> Release the pressure in the system before you install or remove the valve.

1 **Connect the pressure line to P**
30 and 80 l/min: install the valve in the pressure line (two P ports). 150 l/min: connect the pressure line to P.

2 **Connect T to the tank**
The oil above the set pressure flows from T back to the tank.

3 **Attach the valve**
Use the through-holes in the body: Ø 6.5 mm (30 and 80 l/min), Ø 10.5 mm (150 l/min).

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