Inhaltsverzeichnis

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1 General Description

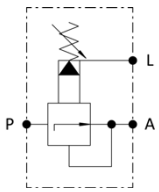
1.1 Applications

Pressure relief valves are used where a high pressure has to be reduced to a lower pressure level. By this a reduced pressure can be generated from a high pressure circuit in order to supply low pressure valves e.g. for piloting purposes.

1.2 Mounting Location (Recommendation)

The valve is screwed into stepped carity.

1.3 Function



The pressure control valve reduces a supply pressure of up to 400 bar to a lower pressure at the port A.
The amount of reduced pressure is adjusted mechanically.

P	High pressure feed
A	Reduced pressure outlet
L	Leak oil

1.4 Characteristics

- Compact installation space
- Hardened valve components
- Wide adjustment range of 20 – 400 bar

2 Technical Data

2.1 General

Criteria	Unit	Value
Max. operating pressure	bar	420
Maximum input pressure	bar	400
Max. volume flow	l/min	40
Weight	kg	0,4
Installation position		Any

2.2 Hydraulics

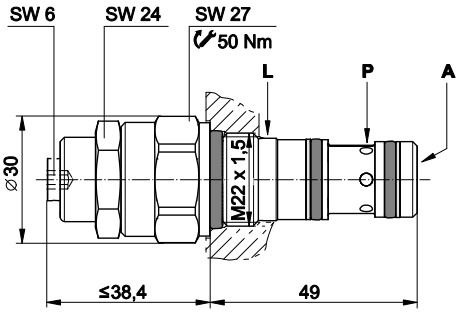
Criteria	Unit	Value
Tank pressure	bar	< 1 bar
Input volume flow	l/min	< 40 l/min
Hydraulic fluid		Mineral oil (HL, HLP) conforming with DIN 51524, other fluids upon request
Hydraulic fluid temperature range	°C	-20 – +80
Ambient temperature:	°C	< +50
Viscosity range	mm^2/s	2.8 – 500
Contamination grade		Filtering conforming with NAS 1638, class 9, with minimum retention rate $\beta_{10} \geq 75$

3 Installation

3.1 General Instructions

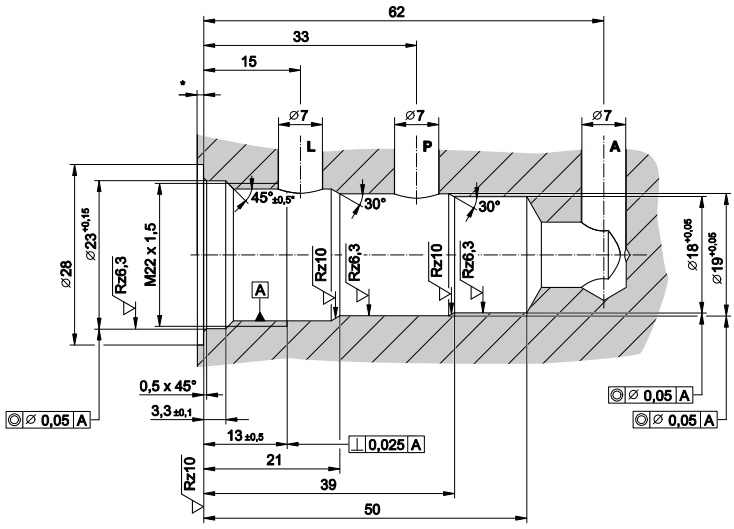
- Observe all installation and safety information of the machine manufacturer.
- Only technically permitted changes are to be made on the machine.
- The user has to ensure that the device is suitable for the respective application.
- Application exclusively for the range of application specified by the manufacturer.
- Before installation or deinstallation, the hydraulic system is to be depressurized.
- Settings are to be made by qualified personnel only.
- Opening is only to be performed with the approval of the manufacturer, otherwise the warranty is invalidated.
- No responsibility is taken for the correctness of these installation recommendations, the functionality and the technical details of the machine must be checked.

3.2 Mounting - Mounting Space



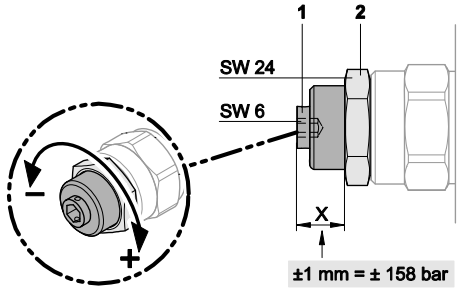
The pressure relief valve is screwed into a stepped carity. wrench size 27 = Torque 50 Nm.

3.3 Stepped Carity



* Sink depth

3.4 Setting the reduced pressure at port A

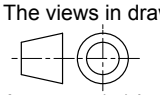


a. Undo the counter-nut (2).
b. Increasing output pressure: Turn the set-screw (1) to the right.
c. Decrease out put pressure: Turn the set-screw (1) to the left.
d. Secure

4 Notes, Standards and Safety Instructions

4.1 General Instructions

- The views in drawings are shown in accordance with the European normal projection variant



- A comma (,) is used as a decimal point in drawings
- All dimensions are given in mm

4.2 Standards

The following standards must be observed when installing and operating the valve:

- DIN EN ISO 13732-1:2008, Temperatures on accessible surfaces

Accessories