5. Mounting position

To ensure trouble-free operating conditions pay attention to the mounting position of PRV. The delivery pistons in the middle elements should always run in horizontal direction, vertical direction has to be avoided (see double arrows). An incorrect installation position may lead to a blockage of PRV.

The following mounting positions are recommended:

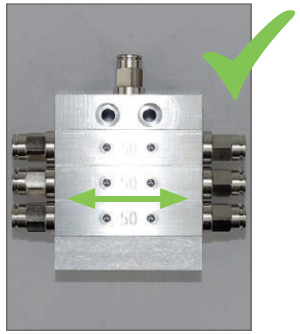

Figure 4: Mounting position hanging, piston horizontal

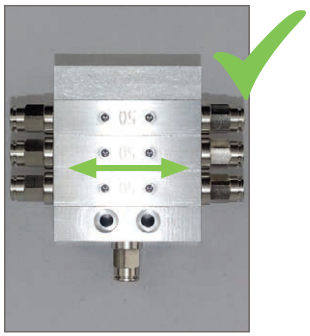

Figure 5: Mounting position hanging, rotated 180°

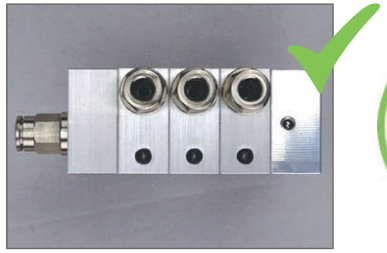

Figure: 6: Installation position lying

The following mounting positions are to be avoided:

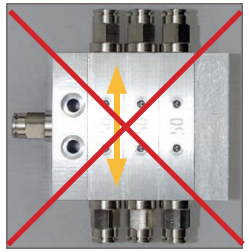

Figure 7: Vertical mounting position, vertical piston

Figure 8: Vertical mounting position, rotated 180°

6. Important notes

A functional test is carried out on each PRV and each distributor is flushed with an H1 approved lubricating oil.
It is therefore important that the distributor is prefilled with the lubricant used in the application before commissioning.

To maintain the function of PRV, do not open, tighten or replace the screws, setscrews and plugs. This leads to leaks or loss of function. In addition, the warranty claim expires.

7. Operation with Lubricus

In the interests of dosing accuracy it is recommended that the delivery pistons perform at least two complete circulations during each lubrication process.
When using PRV with the lubricant pumps of the Lubricus series ensure the number of delivery cycles mentioned in the following table are executed.

Art. no.	Width [mm]	Length [mm]	Weight [g]	Outlets	Recommended minimum lubrication cycles using Lubricus
PRV-2	96	95	476	2	4
PRV-3	79	95	476	3	4
PRV-4	81.5	95	476	4	4
PRV-5	96	95	476	5	4
PRV-6	96	95	476	6	4
PRV-7	96	109.5	567	7	5
PRV-8	96	109.5	567	8	6
PRV-9	96	124	657	9	6
PRV-10	96	124	657	10	7

Progressive distributors

Quick start guide

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GRUETZNER AUTOMATIC LUBRICATION

This brief instruction of mounting PRV addresses to experienced users. Please visit www.G-LUBE.com to download the complete user manual including all safety instructions.

1. Overview PRV

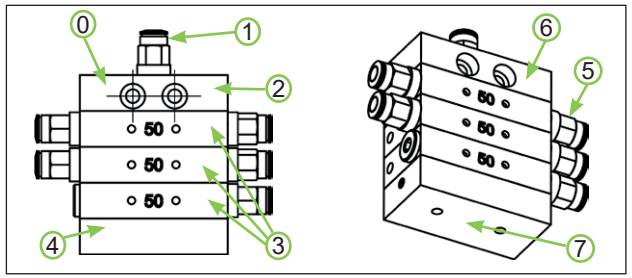

Figure 1: Overview PRV-5

No.	*Description*	*No.*	*Description*
0	*PRV*	*5*	*Lubricant outlets*
1	*Lubricant inlet*	*6*	*Through holes for mounting*
2	*Initial element*	*7*	*Nameplate with serial number*
3	*Dispensing elements*		
4	*Final element*		

PRV is used to reliably supply multiple lubrication points in machines and systems with oil or grease.

The lubricant supplied by a pump is divided in subsets according to the number of outlets of PRV and is delivered to the lubrication points.

The number of outlets and their delivery rates are defined by the design for PRV standard distributors and described below. Various special distributors are available on request.

2. Product description

PRV is a progressive lubricant distributor for a maximum working pressure of 100 bar (1,450 psi). It is therefore particularly suitable for use with lubricant pumps of the Lubricus series.

To improve the dosing accuracy, check valves are integrated as standard in the outlets of the distributor. External check valves on the connected lubricant lines are therefore not required.
PRV distributes lubricant to up to 10 outlets and is largely independent of backpressure. However, pressure differences of more than 15 bar between the individual outlets should be avoided in the interests of dosing accuracy.

Because of the forced delivery of the lubricant through the delivery pistons of the progressive distributor, the blockage of a single lubrication point leads in blocking the entire progressive distributor.
PRV is a disk distributor by design. It consists of dosing elements as well as each an initial and end element which are clamped together with

screws. The individual elements are sealed against each other by special seals.

As a result from using aluminium as housing material, PRV is particularly light and therefore particularly suitable for use in highly dynamic applications. Due to the lightweight construction most applications allow fastening the distributor through the holes in the initial element. When mounting, pay attention to a flat mounting surface.

PRV is ready to install when delivered. The distributor is vented and functionally tested. A removable steel pin seals the inlet for transport.

3. Technical data

General information			
Number of outlets		2-10	
Tube connector inlet/outlet		Straight for tube Ø = 6 mm / M10x1 special tube connectors on request	
Mounting options		2 blind holes in the initial element for cylinder head screw M5 (DIN 912)	
Max. pressure		100	bar
Operating temperature*		-20 ... +70*	°C
Lubricant characteristics**	Grease	Up to NLGI Cl. 2	
	Oil	Minimal viscosity ISO 100 VG	
Materials			
Initial, end and dosing elements		Aluminium 3.1645	
Accessories, vent caps		Brass, nickel plated	
Connecting rod		Steel, galvanised	

* In individual cases the operating temperature may depend on other factors (e.g. lubricant).
** Warranty is only given when using lubricants with Gruetzner approval.

4. Dimensions

The following sketch shows the outer dimensions of PRV-3. The length L of each standard distributor can be found in the table in chapter 7 (overlief).

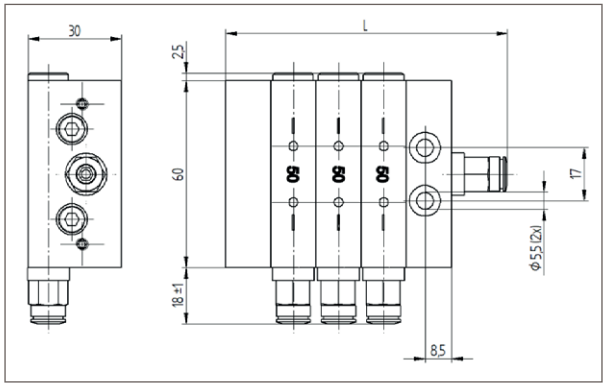

Figure 2: Dimensions PRV-3

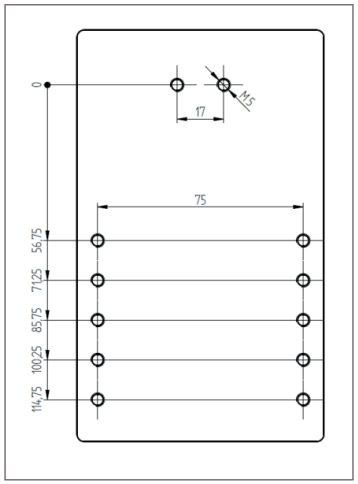

Figure 3: Drilling pattern