

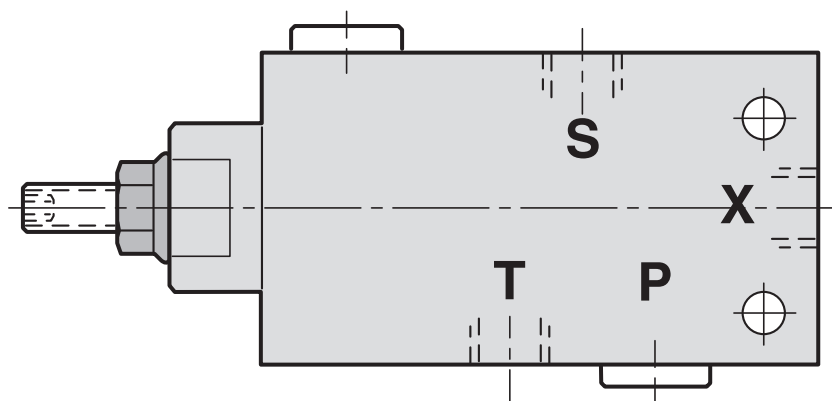


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Bulletin MSG30-8226-INST/UK

# Installation and Startup Manual BPV Unloading Valve VP1

Effective: November, 2021  
Supersedes: October, 2019



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## BPV-VP1 unloading valve

The BPV-VP1 unloading valve is utilized in hydraulic systems where the pump is operating constantly.

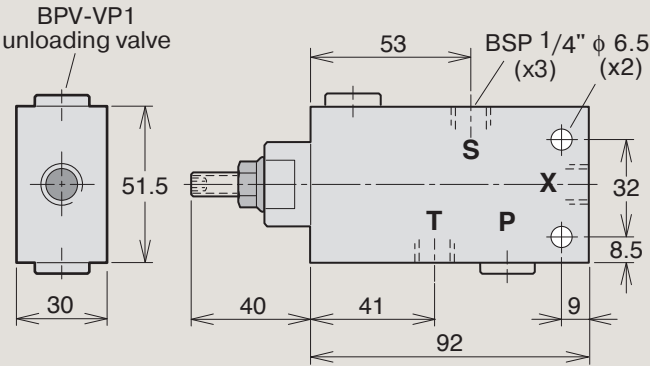
The valve protects the pump from being overheated in the off-load mode by allowing a small flow through the pump (refer to the schematics). When a load sensing valve function is engaged, the bypass flow is cut off (as port 'X' is being pressurized).

The valve is also working as a ventilating valve. If there is some air in the pump housing after a long standstill of the hydraulic system.

(The pump is assembled above the oil tank and during the standstill some oil in the pump housing has been drained back to the oil tank)

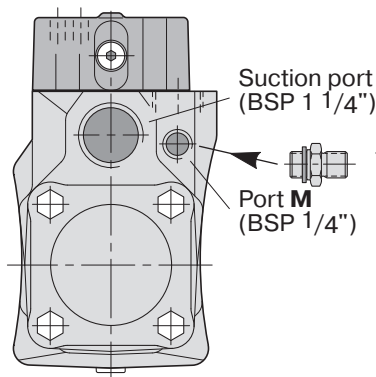
Valve type	Ordering number
BPV-VP1	379 8799

**NOTE:** - BPV-VP1 with VP1-045, -060 or -075, see page 3  
- BPV-VP1 with VP1-095, -110 or -130, see page 4 and 5.



*BPV-VP1 unloading valve.*

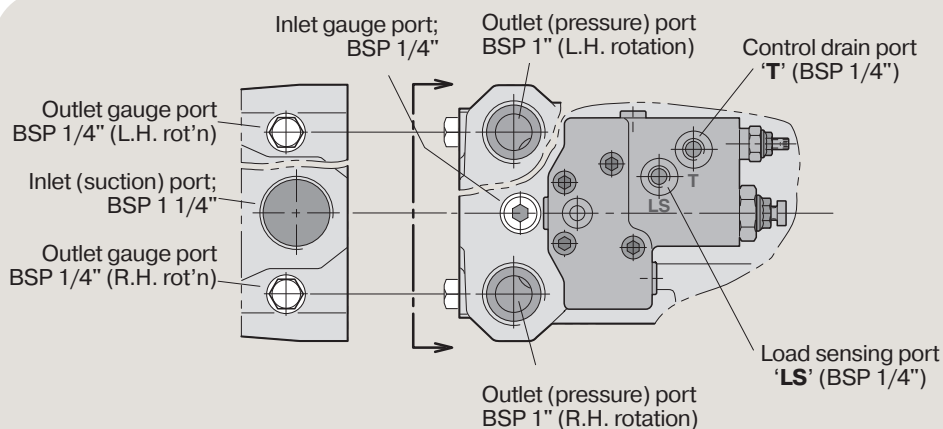
## BVP-VP1 with VP1-045/-060/-075 pumps



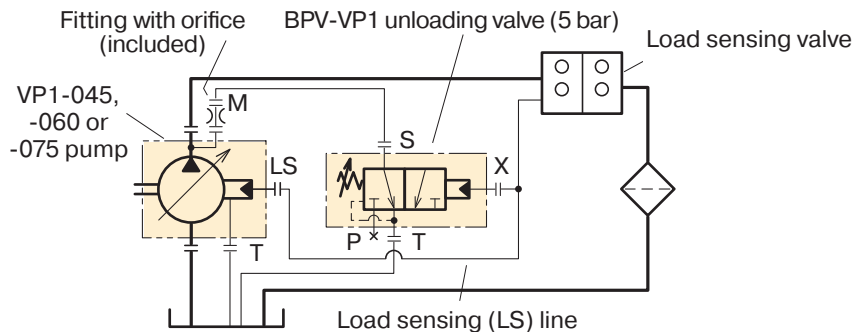
### NOTE:

- Install the fitting (included) in port M and connect it, in turn, to port S of the unloading valve (see schematic).
- An orifice is included in the fitting. Connection on the fitting is 1/4" BSP threads. Size of orifice in the fitting is  $\varnothing$  1.5 mm.

*VP1-045/-060/-075 end view (showing ports R.H. rotation).*



*VP1-045/-060/-075 end and top view*



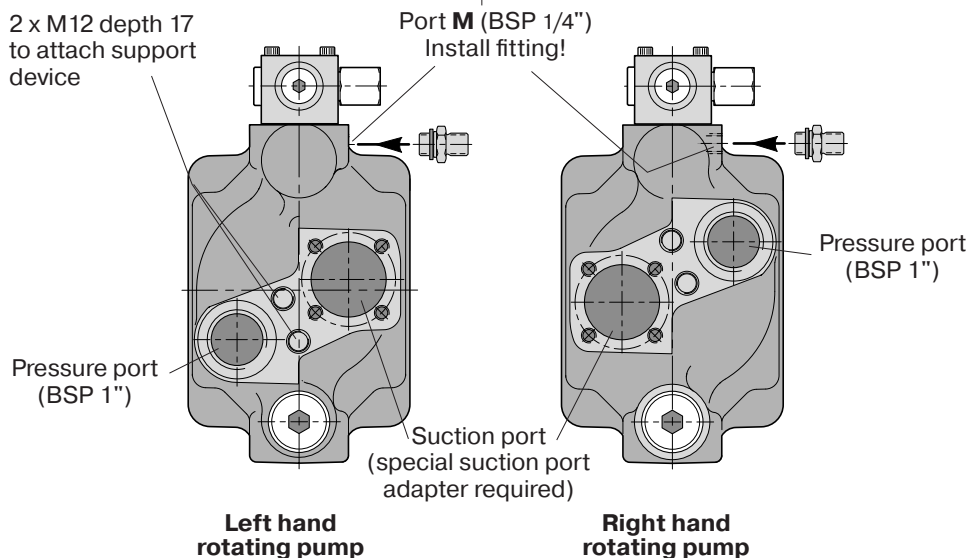
*BPV-VP1 installation schematic with VP1-045/-060/-075 pump.*

This image shows a single sheet of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

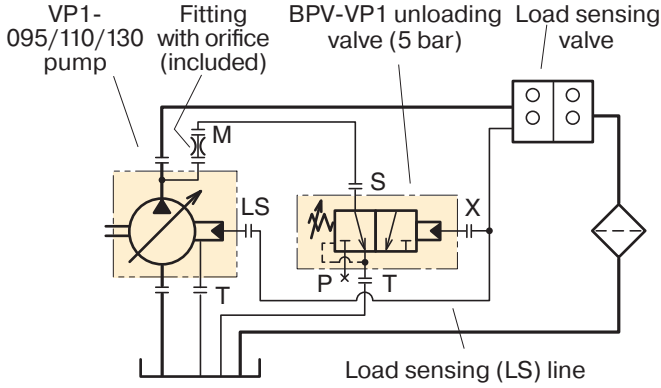
## BPV-VP1 with VP1-095/- 110/- 130 pumps

### NOTE:

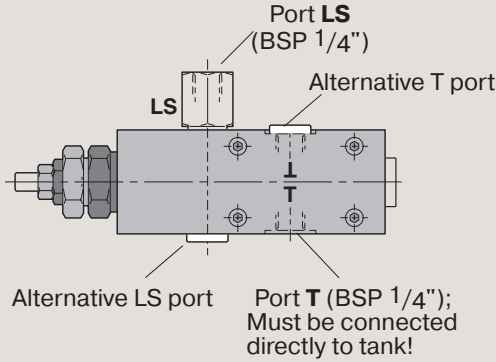
- Install the fitting (included) in port M and connect it, in turn, to port S of the unloading valve (see schematic).
- An orifice is included in the fitting. Connection on the fitting is 1/4" BSP threads. Size of orifice in the fitting is  $\varnothing 1.5$  mm.



*VP1-095/- 110/- 130 main ports (with fitting installation).*



*BPV-VP1 installation schematic with VP1-095/- 110/- 130 pump.*



*VP1-095/- 110/- 130 control valve ports.*

[illegible]

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- SS-EN ISO 4413:2010

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### Dr. Hans Haas

General Manager

Pump & Motor Division Europe



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