



Bulletin MSG30-8226-INST/UK

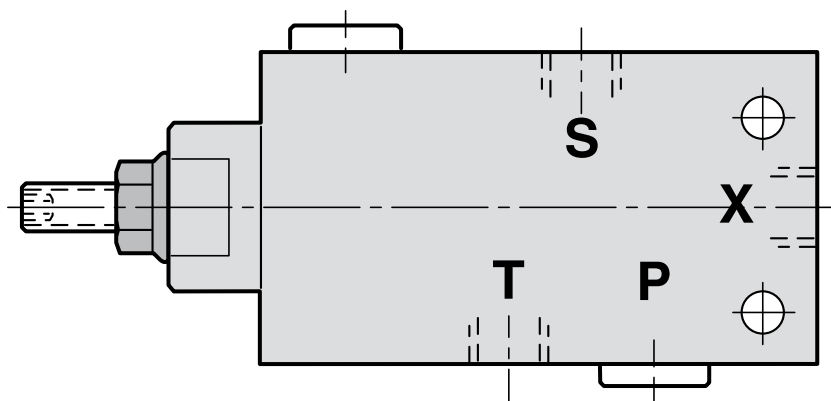


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# Installation and Startup Manual BPV Unloading Valve VP1

Effective: March 1, 2018  
Supersedes: September 5, 2017

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## BPV-VP1 unloading valve

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

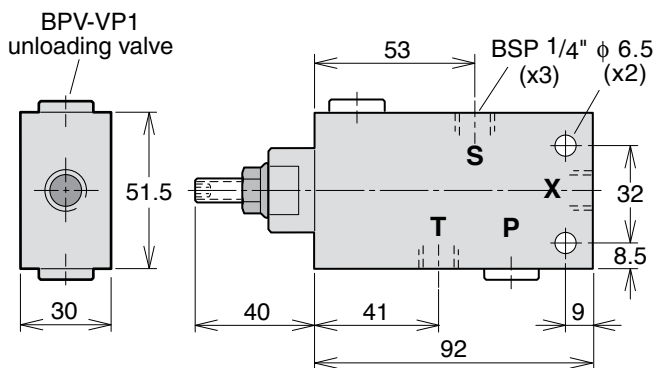
The valve protects the pump from being overheated in the off-load mode by allowing a small flow through the pump (refer to the schematics). When a load sensing valve function is engaged, the bypass flow is cut off (as port 'X' is being pressurized).

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)

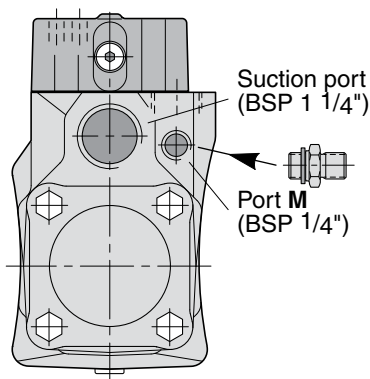
Valve type	Ordering number
BPV-VP1	<b>379 8799</b>

**NOTE:** - BPV-VP1 with VP1-45 or -75, see page 3  
 - BPV-VP1 with VP1-095, -110 or -130, see page 4 and 5.



*BPV-VP1 unloading valve.*

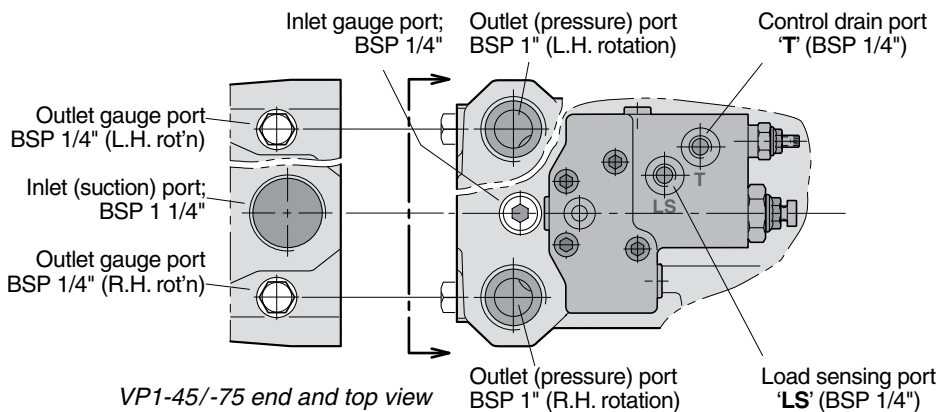
## BVP-VP1 with VP1-45/75 pumps



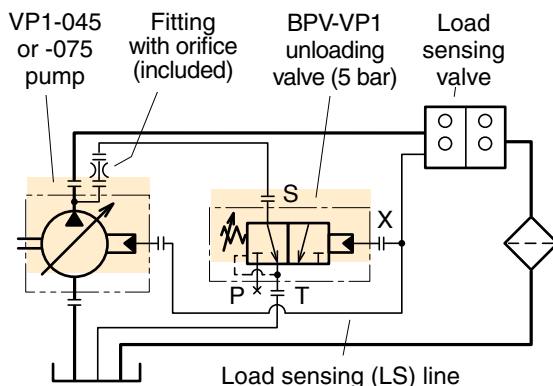
### NOTE:

- 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 Ø1.5 mm.

*VP1-45/-75 end view (showing ports R.H. rotation).*



*VP1-45/-75 end and top view*



*BPV-VP1 installation schematic with VP1-45/-75 pump.*

## 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.

2 x M12 depth 17  
to attach support  
device

Port M (BSP 1/4")  
Install fitting!

Pressure port  
(BSP 1")

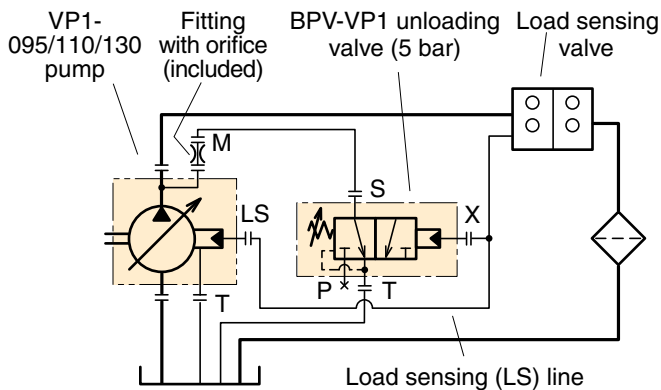
Pressure port  
(BSP 1")

Suction port  
(special suction port  
adapter required)

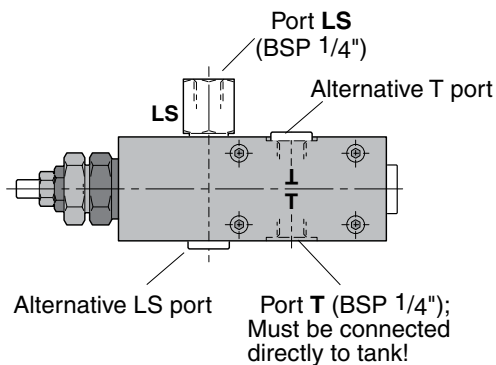
**Left hand  
rotating pump**

**Right hand  
rotating pump**

*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.*

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**Dr. Hans Haas**

General Manger

Pump & Motor Division Europe



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