

# POSITION MONITORING FOR DIRECTIONAL POPPET VALVES





# WVM-6I-R 500 bar

Bieri Hydraulik AG Könizstrasse 274 CH-3097 Liebefeld

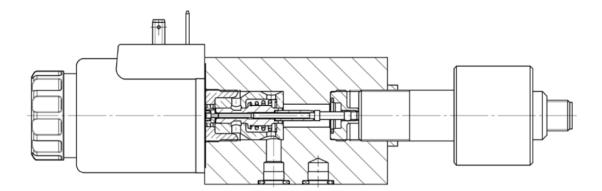
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## **Position Monitoring**

The feature **position monitoring** enables the detection of the valve piston position. The electrical signals from the non-contact sensors can be used for:

- Diagnosis in safety-relevant parts of electronic control systems
- Condition recording in the context of Industry 4.0

Thanks to the position monitoring, a higher **diagnostic coverage (DC)** of the overall system can be achieved, which enables the use in control systems of higher categories.



## **Application Examples**

- Increased efficiency in large turbines
- Hydraulic controls designed according to DIN EN ISO 13849
- Testsystems
- Plant construction, power plant construction, press construction
- Lifting- and transportsystems

**Bieri** WVM-6I-R

p max. = 500 bar Q max. = 12 l/min poppet tight

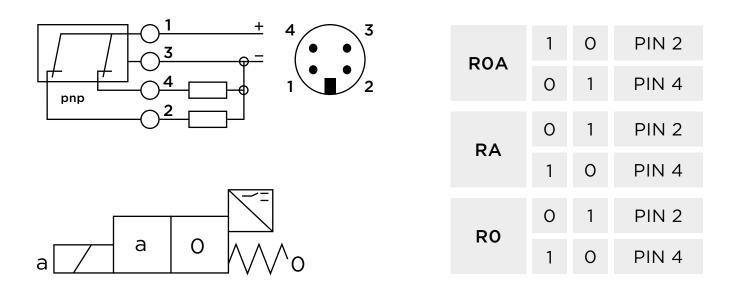


#### Advantages

- Directly controlled, bidirectional flow
- Poppet tight
- High switching reliability even after a long downtime
- Robust and dirt-resistant monitoring concept with direct coupling to the valve element
- One switch connection cable is also sufficient for the 2-point version

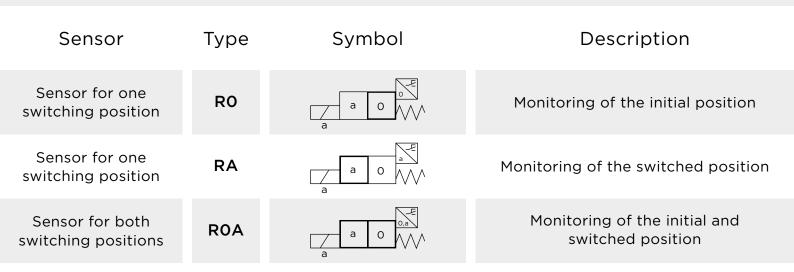
#### The Principle of Position Monitoring

When the monitored position is reached or left, the sensor issues a signal change (PNP output).



#### There are 2 types of monitoring

- 1-position-monitoring R0 or RA
- 2-position-monitoring ROA



## **Monitored Position**

Valve Type	ROA	R0 / RA
2/2		
2/2		
3/2		
3/2		



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