

Intrinsically safe
2/2 way or 3/2 way
pilot-controlled valve NW 3
for water and oil,
compressed air and gases

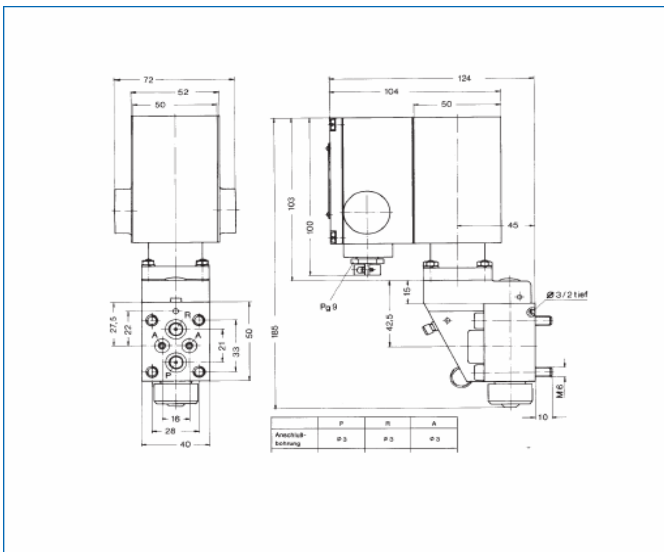
max. 220 bar for plate mounting

Description

The pilot-controlled valve is a direct switching leak-tight ball seat valve for plate mounting. Ball seat valves are primarily used where under difficult conditions, on hydraulically controlled switching elements in deep mining, the respective positions of the valve must be sealed reliably. By selecting suitable materials and special production procedures it is possible to counteract successfully any occurring corrosion and erosion problems. The valve does not impose any special demands and requirements with regard to the viscosity and lubrication capability of the flow medium. It can also be used as an automatic valve in hydraulic units. In contrast to slide valves there will be no leakage losses in the respective positions. In a modified form this valve is also used for natural gas control systems.

Special features

All parts coming into contact with the flow medium are made of corrosion resistant materials. The valve is insensitive against pressure surges and vibrations within the hydraulic systems. The arrestable manual operation can only be accessed by removing the type plate, and is thus protected against accidental operation. By means of a diaphragm between the pushrod and the solenoid plunger chamber the control electromagnet is protected against dust and humidity. The valve is characterized by fast response times. The solenoid plunger is doubly supported and can thus be specially protected against wear. The solenoid and all other control elements can be rotated through 90°, respectively. All wear parts are easily accessible and fast to replace.



In the case of 2/2 directional control valves, there is no need for the bores designated as "A". Port "R" becomes "A".

	P	R	A
connection bore	3mm	3mm	
bore	9,25x1,78	9,25x1,78	3mm 6,07x1,78

	Mode of operation	Symbol	Order example
2/2 direct. control valves	electromagnetic		2/2KSV-03P-24NBDNN-iE5 1* 2/2KSV-03N-24NBDNN-iE5 2*
3/2 direct. control valves	electromagnetic		3/2KSV-03P-24NBDNN-iE5 3* 3/2KSV-03N-24NBDNN-iE5 4*

1 positive 2/2 direct.		Valve version "positive" means: Valve is closed when solenoids are de-energized.
2 negativ 2/2 direct.		Valve version "negative" means: Valve is open when solenoids are de-energized.
3 positiv 3/2 direct.		Valve version "positive" means: Valve is closed when solenoids are de-energized.
4 negativ 3/2 direct.		Valve version "negative" means: Valve is open when solenoids are de-energized.