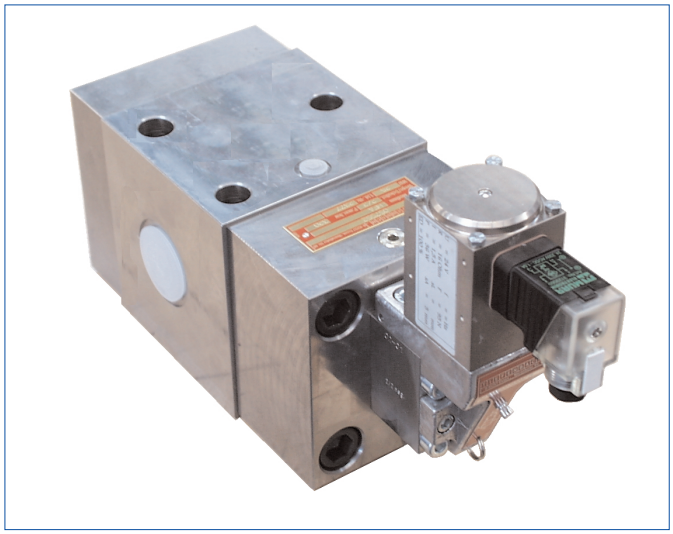


3/2 direct. contr. high pressure valve NW 15 to NW 32

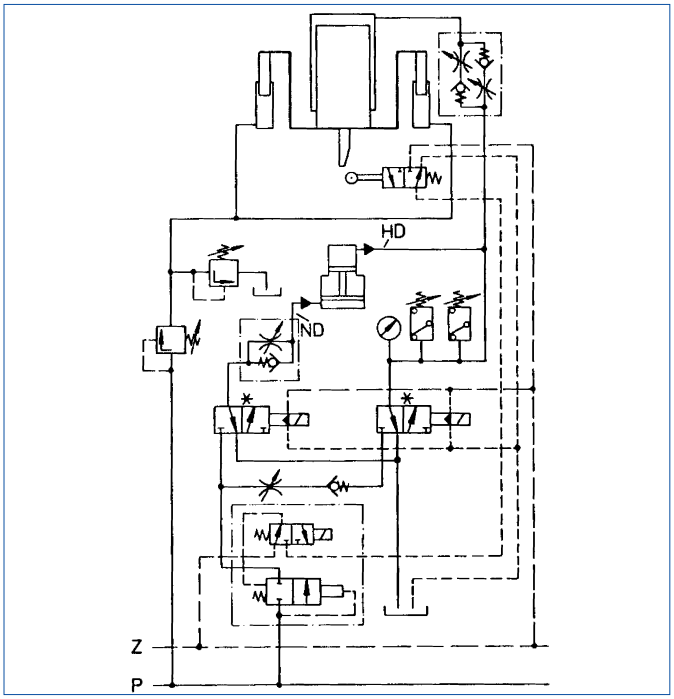
for water and oil
max. 320 bar
for pipe fitting with threaded connection

The 3/2 directional control plate-mounting valves listed in the table are used to determine the flow direction of a hydraulic flow in which, respectively, one port can be blocked without leakage while, at the same time, the other two ports can be connected to one another. These are robust electromagnetically / hydraulically operated seat valves. The working piston of the main valve is supported at two points and extended to the outside through the valve housing. This provides the possibility to attach an optical, mechanical, or electrical position indicator. The valve is sealed by pressing two metal surfaces against one another. In contrast to slide valves, there are no leakage losses in the closure of the valve. By fitting orifice plates or an intermediate plate with switch period adjustment between the pilot and main valves, the control medium can be throttled. This influences the switch period of the main valve. Throttle gap or throttle grooves on the main valve piston prevent undesirable pressure surges during the switching process. This type of seat valves - as individual valves or combined with other control elements into compact control systems - are used wherever reliable sealing is required under difficult conditions, e.g. press and rolling mill engineering. There are no particular requirements as regards the lubrication capability of the medium. Via the associated pilot-control valve, the valves can be operated manually, mechanically, pneumatically, hydraulically or electrically using direct or alternating current. They are also available in protection class (Sch) and (Ex) d2/G5. For all standard supply voltages, control electromagnets are available.

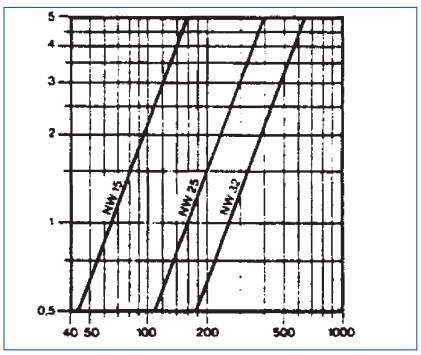
Special features

The valves are insensitive against vibrations and pressure surges in the hydraulic system. The emergency manual controls fitted as standard can be locked in position and are accessible only by removing the type plates; they are thus protected against accidental activation. The respective position of the valve pistons can be detected optically. Valve response times are fast. All wear parts are made of corrosion resistant materials, easy to access, and fast to replace.

Mounting example:
* 3/2 directional control valve

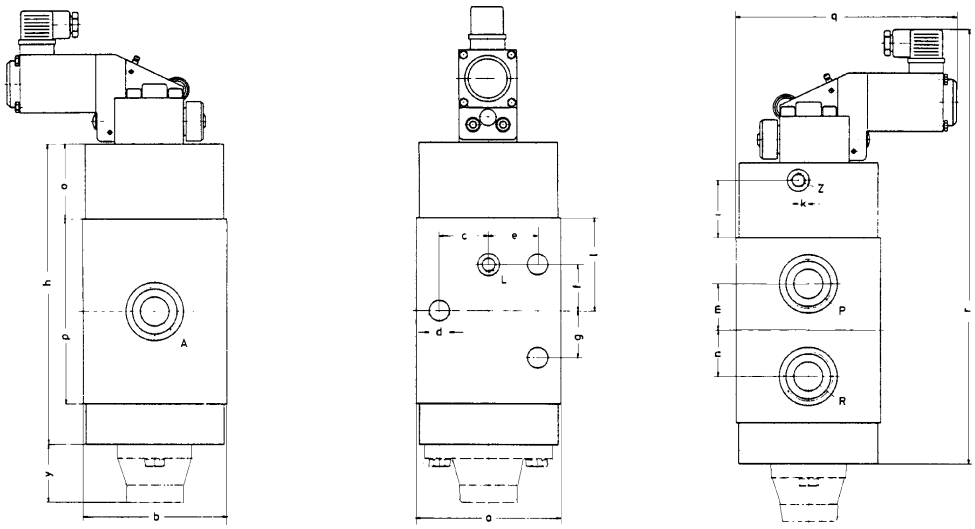


Pressure loss and flow rate for water (20°)

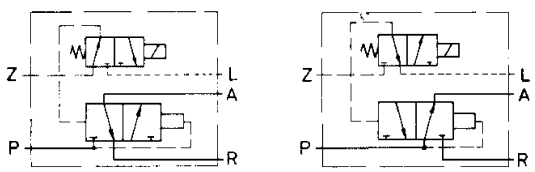


pressure rate

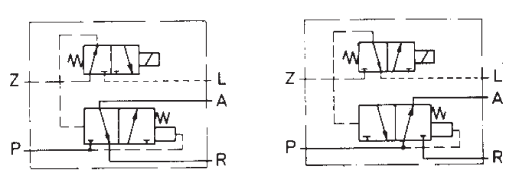
flow rate



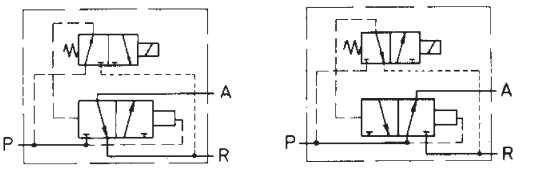
NW	P	A	R	L	Z	a	b	c	d	e	f	g	h	i	k	l	m	n	o	p	q	r	y
15	R 3/4"	R 3/4"	R 1/4"	R 1/4"	R 1/4"	95	95	32,5	11	32,5	25	25	200	38	9	60	25	25	50	120	178	315	32
25	R1 1/4"	R1 1/4"	R1 1/4"	R1 1/4"	R1 1/4"	125	125	42,5	18	42,5	40	40	270	55	9	80	40	40	70	160	193	385	50
32	R1 3/4"	R1 3/4"	R1 3/4"	R1 1/4"	R1 1/4"	150	150	50	23	50	50	50	340	75	9	100	50	50	90	200	205	455	55



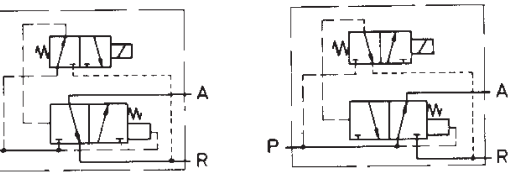
Externally controlled with leakage port
Type
3/2REV-015-06-XLN-NNEN-25
3/2REV-025-06-XLN-NNEN-25
3/2REV-032-06-XLN-NNEN-25



Externally controlled with leakage port and opening spring
Type
3/2REV-015-06-XLO-NNEN-25
3/2REV-025-06-XLO-NNEN-25
3/2REV-032-06-XLO-NNEN-25



Self-controlled
Type
3/2REV-015-06-IIN-NNEN-25
3/2REV-025-06-IIN-NNEN-25
3/2REV-032-06-IIN-NNEN-25



Self-controlled with opening spring
Type
3/2REV-015-06-IIO-NNEN-25
3/2REV-025-06-IIO-NNEN-25
3/2REV-032-06-IIO-NNEN-25

* positive valve
** negative valve