Pressure valves

2.3 Sequence valves with check valve type VR

Pre-load valves, also called sequence valves are a type of pressure control valve. They generate a largely constant pressure drop between the inlet and outlet on the valve. In the opposite direction the flow can pass freely. In the normal position the valve has minor leakage.

The sequence valve type VR is available as a screw-in valve and in a housing version for inline installation.

The primary application area is in return lines for oscillation damping, mainly in lifting equipment, lifting platforms, handling systems and in lifting gantries as fall protection.

Features and benefits:

Compact screw-in valve

Intended applications:

- Lifting equipment
- Lifting platforms
- Handling technology



Nomen- clature:	Sequence valve					
Design:	Screw-in valve Combination with housing for pipe connection					
Adjustment:	Fixed (non-adjustable)					
p _{max} : ∆p _{max} :	315 bar 15 bar					
Q _{max} :	120 l/min					

Design and order coding example

VR 3	3 C Design with housing	 Cartridge valve Versions with housing for pipe connection Design with metric fine thread 						
Pre-load pressure Open-up pressure Δp_{max} 3 to 15 bar								
Basic typ	be, size Type VR, size 1 t	0 4						



Function

VR





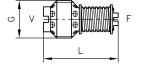
Screw-in valve

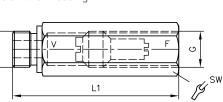
Version with housing for pipe connection

General parameters and dimensions

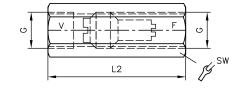
VR 3 3 C Insert valve VR 4 9 E Version with housing

c





VR 1 15 G Version with housing



	Q _{max} [lpm]	∆p _{max} [bar] ¹⁾	Dimensions [mm]					m [g] ²⁾
			G (BSPP)	L	L1	L2	SW = a/f	
VR 1	15	3, 5, 7, 9, 12, 15	G 1/4 (A)	31	78	66	SW 19	15/120
VR 2	40	3, 5, 7, 9, 12, 15	G 3/8 (A)	36	82	70	SW 22	25/160
VR 3	65	3, 5, 7, 9, 12	G 1/2 (A)	42	96	80	SW 27	40/270
VR 4	120	3, 5, 7, 9, 12	G 3/4 (A)	54	106	100	SW 32	80/400

1) The selected pre-load pressure e.g. opening pressure cannot beltered

2) Individual valve/design with housing

Associated technical data sheets:

<u>Pre-load check valve type VR: D 7340</u>

Similar products:

- Pressure-limiting valves type MV, SV etc.: <u>Page 162</u>
- Miniature pressure-limiting valves type MVG etc.: <u>Page 162</u>
- Pilot-controlled pressure control valves type DV: Page 168
- Pressure-limiting valves type CMV: <u>Page 166</u>