Pressure valves





Piloted pressure limiting valves type DV, AS etc.

Pressure valves influence the pressure in hydraulic systems. Pressure-limiting valves (safety or overpressure valve) safeguard the system against excessive pressure or limit the operation pressure. Sequence valves generate a constant pressure difference between the inlet and outlet flow. Follow-up valves (release valves) block the flow until a set pressure value is reached (free flow once this value is exceeded). Compared with pressure valves of the type DV, the types AS and AE have an additional check valve in the consumer port.

Features and benefits:

- Various adjustment options
- Various additional functions

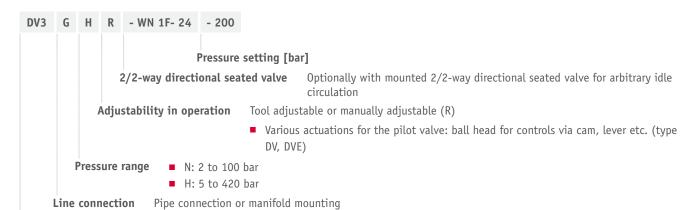
Intended applications:

- General hydraulic systems
- Test benches



Nomen- clature:	Pressure limiting valve Sequence valve Follow-up valve (piloted)
Design:	Individual valve for pipe connection Individual valve manifold mounting
Adjustment:	Tool adjustable Manually adjustable
p _{max} :	420 bar
Q _{max} :	120 lpm

Design and order coding example



Basic type, size

Type DV (internal control oil drain),

Type DVE (external control oil drain),

Type DF (valve for remote control), size 3 to 5

Type AS (additional check valve), size 3 to 5

Type AE (release valve), size 3 to 5

Additional versions:

Additional switching combinations with the types AS and AE

Function

Pressure limiting, sequence valve

DVE

Follow-up valve

DFX

P: → R(A)

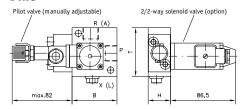
Pressure limiting, sequence valve, follow-up valve or 2/2-way directional valve (remote controlled, depending on the kind of valve connected to port X) AS

Pressure limiting valve

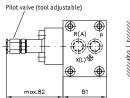


Release valve (remote controlled), combined function as pressure limiting valve possible (type ASE)

DV..G



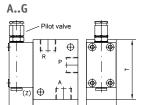


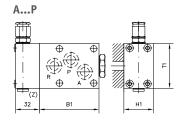




Type, size	Q _{max} [lpm]	Pressure range: p _{max} [bar]	Ports (BSPP)	Dimensions [mm]					m [kg] ¹⁾
DV, DVE, DF				Н	В	B1	T	T1	
3	50	N: 100	G 1/2	30	60	-	66	-	1,1 / -
4	80	H: 420	G 3/4	40	65	60	71	78	1,5 / 2,0
5	120		G 1	50	80	88	73	81	2,0 / 2,5

1) Versions for pipe connection/manifold mounting (with installed solenoid valve + 0.6 kg)





Type, size	Q _{max} [lpm]	Pressure range: p _{max} [bar]	Ports (BSPP)	Dimensions [mm]						m [kg] ¹⁾
AS, ASE, AE				Н	H1	В	B1	T	T1	
3	50	M: 200	G 1/2	40	-	60	-	80	-	1.8
4	80	H: 350/300 (type AE)	G 3/4	40	40	70	80	94	60	2.2
5	120		G 1	6.3	40	100	94	85	80	4.1

1) Versions for pipe connection/manifold mounting (with installed solenoid valve + 0.6 kg)

Associated technical data sheets:

- Piloted pressure valves type DV: <u>D 4350</u>
- Piloted pressure valves type AS, AE: <u>D 6170</u>

Similar products:

- Pressure limiting valves type MV, SV etc.: <u>D 7000/1</u>, <u>D 7000 M</u>
- Miniature pressure limiting valves type MVG etc.: <u>D 3726</u>
- Pressure limiting valves type CMV(Z): <u>D 7710 MV</u>