

# BENCOR (Pty) Ltd.

Pressure valves

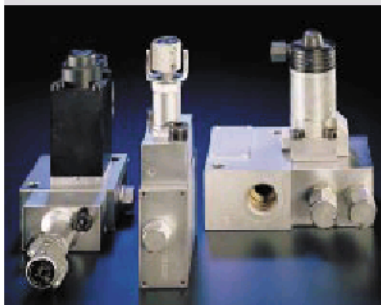


## Piloted Pressure limiting valves type DV, AS etc.

Pressure valves govern the pressure within a hydraulic system. The types listed below are intended for the following purposes:

- **Pressure limiting valve (safety valve):**  
Safeguarding the system against excessive pressure or for the limitation of working pressure.
- **Sequence valves:** generating a constant pressure difference between inlet and outlet of the flow.
- **Follow-up valve (release valve)**  
They block the flow until a set pressure is achieved and ensure free flow beyond this level.

Unlike the pressure valves type DV, the valves type AS and AE feature an additional check valve in the consumer port.



**Nomenclature:** Pressure limiting valve  
Sequence valve  
Follow-up valve (piloted)

**Design:** Individual valve for pipe connection  
Individual valve, manifold mounting

**Adjustability:** Tool adjustable  
Manually adjustable

**P<sub>max</sub>:** 420 bar

**Q<sub>max</sub>:** 120 l/min

### Basic types and general parameters

Basic type	DV	DVE	DF	AS	AE
<b>Symbol</b>					
<b>Function</b>	pressure limiting, sequence valve	follow-up valve	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)	pressure limiting valve	release valve (remote controlled), combined function as pressure limiting valve possible (type ASE)
<b>Add. function</b>	additional 2/2-way solenoid valve for arbitrary idle circulation				
<b>Pressure range:</b>	N: 100	N: 100	N: 100	M: 200	M: 200
<b>Pressure p<sub>max</sub></b> (bar)	H: 420	H: 420	H: 420	H: 350	H: 300

### Size

Coding	Flow Q <sub>max</sub> (l/min)	Tapped ports (versions for pipe connection)
3	50	G 1/2
4	80	G 3/4
5	120	G 1

### Additional versions

- Additional 2/2-way solenoid valve for arbitrary idle circulation (types DV, AS and AE)
- Orifice in the control circuit to limit the leakage flow (type DVE)
- Additional function combination between types AS and AE
- Actuation option of the piloting valve with ball head actuation e.g. for cam, lever or other curve controlled systems (only types DV, DVE)