

BENCOR (Pty) Ltd.

Pressure valves



Directly controlled pressure limiting valves and type MV, SV 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:**
Generates a constant pressure difference between inlet and outlet of the flow.



Directly controlled valves feature a dampening device to ensure quiet operation, if necessary for an application version without this dampening is available as well. There is also a version of the pressure limiting valve, when used as safety valves for accumulators, which features a type approval (TÜV).

Nomenclature: Pressure limiting valve, differential pressure regulators (directly controlled)

Design: Individual valve for pipe connection
Screw-in valve
Individual manifold mounting valve
Assembly kit

Adjustability: Tool adjustable
Manually adjustable

p_{max}: 700 bar

Q_{max}: 5 ... 160 l/min

Basic types and general parameters

Basic type	MV 1) 4)	MVS 1) 4) MVG 2)	MVE 4)	SV 1)	MVP 4)	DMV 1)	MVCS 1) MVGC 2)	SVC 1)	MVB 1) 3)
Symbol									
Function	pressure limiting valve	pressure limiting valve and differential pressure regulators			pressure limiting valve		pressure limiting valve with free reflow R → P via a bypass check valve		pressure limiting valve a. differential pressure regulators
Brief description	corner valve for pipe connection	corner valve for pipe connection	screw-in valve	straight-way valve for straight pipe installation	manifold mounting valve	twin valve as shock valve for hydraulic motors	corner valve for pipe connection	straight-way valve for straight pipe installation	assembly kit 3)
p_{perm R} (bar)	20	500	500	500	500	350	500	500	200
Size		13	14	4	5	6	8		
Pressure range:		H: 700/5	N: 50/8	F: 80/20	F: 80/40	F: 80/75	E: 160/160		
Pressure p_{max} (bar)/			M: 200/8	E: 160/20	E: 160/40	E: 160/75	C: 315/160		
Flow Q_{max} (l/min)			H: 400/8	C: 315/20	C: 315/40	C: 315/75			
				B: 500/20	B: 500/40	B: 500/75			
				A: 700/12	A: 700/20	A: 700/40			
Tapped ports 5)		G 1/4	G 1/4	G 1/4	G 3/8	G 1/2	G 3/4		
				G 3/8	G 1/2	G 3/4	G 1		

1) only size 4, 5, 6 and 8

2) only size 13 and 14

3) for other types of assembly kits see also "Additional information"

4) also version with type approval (TÜV) available

5) version for pipe connection