Pressure control valves





Pressure-limiting valve type MV, SV and DMV

Pressure-limiting valves and sequence valves are types of pressure control valves. Pressure-limiting valves safeguard the system against excessive system pressure or limit the operation pressure. Sequence valves generate a constant pressure difference between the inlet and outlet flow.

Type MV and SV is a directly controlled valve that is damped as standard.

Features and benefits:

- Operating pressures up to 700 bar
- Various adjustment options
- Numerous configurations

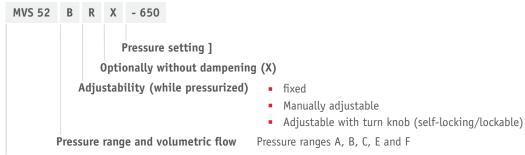
Intended applications:

- General hydraulic systems
- Test benches
- Hydraulic tools



Nomen- clature:	Pressure-limiting valve, sequence valve (directly controlled)
Design:	Individual valve for pipe connection Screw-in valve Individual manifold mounting valve Assembly kit
Adjustment:	Fixed Manually adjustable
p _{max} :	700 bar
Q _{max} :	160 lpm

Design and order coding example



Basic type, size Type MV.., DMV.. and SV..

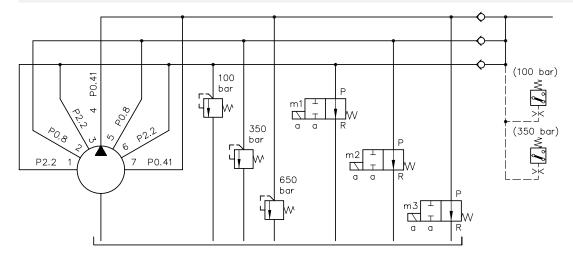
Additional versions

- Pressure-limiting valves with unit approval (TÜV valves) (type MVX, MVSX, MVEX, MVPX, SVX, size 4, 5 and 6)
- Various actuations: ball head for controls via cam, lever etc. (type MVG and MVP only)

Function									
	MV ¹⁾	MVS MVG	MVE	SV	MVP	DMV	MVCS MVGC	SVC	MVB
		P	R		P R	P		₽¥R	
Function	Pressure limiting valve	Pressure limiting valve and differential pressure regulators				Pressure limiting valve	bypass check valve		Pressure limiting valve and differen- tial 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
Size	4, 5, 6	13, 14, 4, 5, 6, 8	13, 14, 4, 5, 6, 8	4, 5, 6, 8	13, 14, 4, 5, 6, 8	4, 5, 6, 8	13, 14, 4, 5, 6	4, 5, 6	4, 5, 6, 8
p _{perm R} [bar]	20	500	500	500	500	350	500	500	200

¹⁾ Only size 4, 5, 6, and 8 Type MVG and MVGC only size 13 and 14

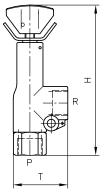
Circuit example:





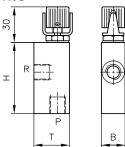
General parameters and dimensions

MV, MVS



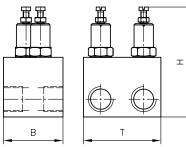


MVG



See following table for dimensions

DMV









	Size	Dimensions [mm]			m [kg]	Size	Pressure range/ Flow	Ports ¹⁾
		H _{max}	B/SW	T _{max}				
MV, MVS, MVCS, MVE	4	126	24	48	0.3	4	F: 80/20	G 1/4, G 3/8
	5	142	29	60	0.4		E: 160/20 C: 315/20	
	6	164	36	70	0.7		B: 500/20	
	8	208	40	60	2.0		A: 700/12	
DMV	4	107	40	52	0.7	5	F: 80/40	G 3/8, G 1/2
	5	123	50	65	1.3		E: 160/40 C: 315/40	
	6	142.5	60	75	1.8		B: 500/40	
	8	192	80	96	4.5		A: 700/20	
MVP	4	102	28	35	0.3	6	F: 80/75	G 1/2 G 3/4
	5	113	32	40	0.5		E: 160/75 C: 315/75	
	6	133	35	50	0.8		B: 500/75	
	8	172	50	60	1.6		A: 700/40	
	13, 14	82	29	50	0.3	8	E: 160/160	G 3/4, G 1
MVE	13, 14	75	SW 27	-	0.1		C: 315/160 Bi: 500/160 A: 700/75	
MVG, MVGC	13, 14	94	20	42	0.3	13	H: 700/5	G 1/4
SV, SVC	4	-	SW 22	87	0.2	14	N: 50/8	G 1/4
	5	-	SW 27	108	0.4		M: 200/8 H: 400/8	
	6	-	SW 32	132	0.9		, 5	
SV	8	-	SW 41	157	0.9			

¹⁾ For pipe connection versions only

Associated technical data sheets:

- Pressure-limiting valve type MV, SV and DMV: D 7000/1
- Pressure-limiting valve and pre-load valve type MVG, MVE and MVP: D 3726
- Pressure-limiting valve (installation kit) type MV: D 7000 E/1
- Multiple pressure-limiting valve type MV: D 7000 M
- Pressure-limiting valve, with unit approval type MV .X: D 7000 TUV

Similar products:

- Pressure control valve type CMV, CMVZ, CSV and CSVZ: D 7710 MV
- Pressure-limiting valve, pilot-controlled type DV, DVE and DF:
 D 4350
- Pressure valve with check valve type AL, AE and AS: D 6170