Seated valves





Lifting/lowering valves type HSV

The lifting/lowering valves type HSV are preferentially used for controlling lifting equipment with single-acting cylinders. The valve block combines the functions of a 2/2-way directional seated valve with solenoid actuation for lowering the raised load. It is optionally available with an adjustable throttle to limit the lowering speed or a 2-way flow control valve to guarantee the lowering speed is as load-independent as possible. A pressure-limiting valve is incorporated to limit the permissible load. An additionally installed check valve prevents uncontrolled lowering of the load. Flangemounting on self-manufactured connection plates is possible.

Features and benefits:

- Optimal control of lifting and lowering function
- High pressures up to 400 bar
- Zero leakage to prevent unwanted lowering of loads and platforms
- Integrated overpressure protection

Intended applications:

- Cranes and lifting equipment
- Materials handling
- Road vehicle construction
- Mining machinery



Nomen- clature:	Valve combination consisting of: 2/2-way directional seated valve, solenoid actuated Pressure-limiting valve Check valve optional Throttle or 2-way flow control valve
Design:	Individual valve for pipe connection
Actuation:	Solenoid
p _{max} :	315 400 bar
Q _{max} :	20 120 lpm

Design and order coding example

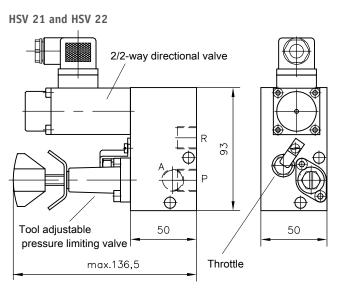


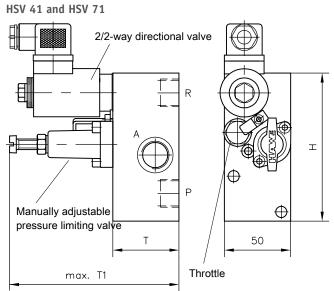
Basic type, size Type HSV, size 2, 4, 6 and 7

Function

	With throttle		Without throttle		With/without throttle	With 2-way flow control valve
	R 1	R 2	R 3	R 4	S 1 S 4	R 6
HSV 21 HSV 22 HSV 41 HSV 61 HSV 71	A R p	* A	A R p	A R P		The state of the s

General parameters and dimensions





	Q _{max} [lpm]	p _{max} [bar]	Ports (BSP	Ports (BSPP)		Dimensions [mm]		
			P	A, R	Н	Т	T1	
HSV 21	20	315	G 3/8	G 3/8	see illustration			2.2
HSV 22	30	315	G 3/8	G 1/2	see illustration			2.2
HSV 41	40	400	G 1/2	G 1/2	112	50	140	2.2
HSV 61	60	350	G 1/2	G 1/2	100	63	166.5	2.5
HSV 71	120	315	G 3/4	G 3/4	100	80	160	3.1

Associated technical data sheets:

■ Lifting/lowering valves type HSV, HZV: <u>D 7032</u>

Plugs:

■ With LEDs or to support the EMV etc.: <u>D 7163</u>

■ With economy circuit: <u>D 7813</u>, <u>D 7833</u>