



Proportional flow control valve type SE and SEH

Proportional flow control valves are a type of flow valve. They generate a constant flow rate independent of the load which can be controlled in an electro-proportional and remote

The flow control valve type SE has a directly actuated metering orifice, which has an advantage of approximately Qmin equal to zero in terms of the controllability. The flow control valve type SEH has a piloted metering orifice which is shown to be beneficial in dynamic systems with short reaction times. The flow control valve type SE and SEH is available as a single valve for pipe connection or as a manifold mounting valve. Pressure-limiting valves and randomly switchable idle circulation valves are additional options. The flow control valve type SE and SEH controls the operating speed of hydraulic consumers.

Features and benefits:

- Electrical control of consumer operating speeds
- Automation of operating cycles

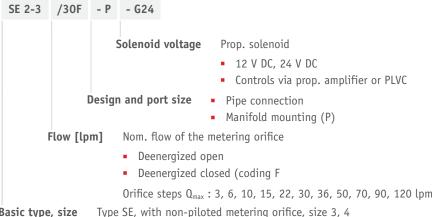
Intended applications:

- Construction machines
- Machine tools
- General hydraulic systems
- Mining machinery



Nomen- clature:	2-way flow control valve 3-way flow control valve
Design:	Individual valve for pipe mounting or Screw-in valve
Adjustment:	Electro-proportional
p _{max} :	315 bar
Q _{max} :	120 lpm

Design and order coding example



Basic type, size

Type SEH, with piloted metering orifice, size 2 to 5

Available as 2- and 3-way flow control valve

Function

SE, SEH

2-way

Pipe connection



2-way Manifold mounting valve



1) No Z port with type SEH 3-2

3-way
Pipe connection



3-way Manifold mounting valve



Additional functions for flow control valves:

2-way flow control valve

- Version with bypass check valve
- Version with check valve in bridge circuit for free selection of the flow direction

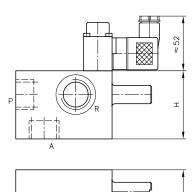
3-way flow control valve

- Version with pressure-limiting valve
- Version with pressure-limiting valve and circulation valve (for pipe connection versions only)
- Version with compulsory closed position of the pressure compensator when not actuated type ...FO
- Version with automatic circulation type ... B 0.6



General parameters and dimensions

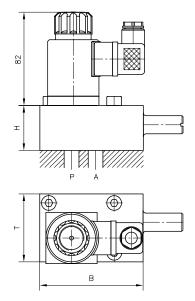
SEH Version for pipe connection



≈44

В

SE Manifold mounting valve

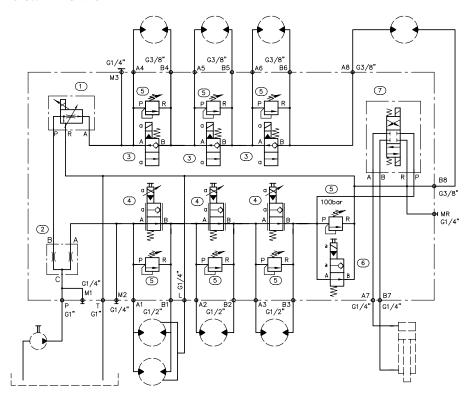


Basic type and size			Q _{max} [lpm] ¹⁾	p _{max} [bar]	Ports ²⁾	Dimensions [mm]			m _{max} [kg]
2-way	3-way					Н	В	Т	
SE 2-3	SE 3-3	Directly actuated	0,3 50	315	G 1/2	110 120	80 91	50 60	2,2
SE 2-4	SE 3-4		0.6 90	315	G 3/4	120 130	85100	60 70	2,2
SEH 2-2	SEH 3-2	Hydraulically piloted	0.1 36	315	G 3/8	115	55 70	39	1,6 3,3
SEH 2-3 ³⁾	SEH 3-3		0,3 50	315	G 1/2	92,5	80 93	50 60	1,6 3,3
-	SEH 3-4		0,6 90	315	G 3/4	102,5	95 100	60 70	1,6 3,3
-	SEH 3-5		1,0 120	315	G 1	112,5	100	70	1,6 3,3

- Different Q_{\max} available, see Design and order coding example: "Orifice steps" For pipe connection versions For manifold mounting versions only

Circuit example

- ① SEHD 3-3/30 FP-X 24
- ② TQ 4 P-A 5/2
- **3 EM 31 V-X24**
- **4** EMP 31 S-X 24
- **⑤ MVH 6 C**
- **® EM 31 S-X24**
- **⑦ SWPN 2-G-X24**



Associated technical data sheets:

Proportional flow control valve type SE and SEH: D 7557/1

Similar products:

• Flow control valve type SD, SF and SK: D 6233

Suitable accessories:

- Proportional amplifier type EV1M3: D 7831/2
- Proportional amplifier type EV2S: D 7818/1
- Proportional amplifier type EV1D: D 7831 D