BENCOR (Pty) Ltd.

Metering valves



Flow control valves type SE and SEH with electro-proportional actuation

The SE and SEH type flow control valves are intended for smooth velocity control of hydraulic actuators independent of pressure. They may be utilized as 2-way or 3-way flow control valves and are available with an adjustable metering orifice. The adjustment of this orifice is either directly electro-proportional (type SE) or electro-proportional piloted (type SEH). The orifice can be open or blocked in the idle position. This feature enables pre-defined acceleration and braking sequences within automatic working cycles.



A piloted pressure limiting valve, a solenoid actuated idle circulation valve (for 3-way controllers only), and a by-pass check valve are available. In addition, a bridge circuit utilizing check valves to enable arbitrary flow direction (for 2-way controllers only) is available as an

Nomenclature:	2-way flow control valve 3-way flow control valve			
Design:	Individual valve for pipe mounting or manifold mounting			
Adjustability:	Electro-proportional			
p _{max} :	315 bar			
Q _{max} :	0,1 120 l/min			

Basic type and	ic type and size		Flow	Oper. pressure	Tapped	Symbol	
	2-way	3-way	Q _{max} (I/min) 1)	p _{max} (bar)	ports 3)	2-way	3-way
directly	SE 2-3	SE 3-3	0,3 50	300	G 1/2	pipe mounting	
actuated	SE 2-4		0,6 70	300	G 3/4	P P	PAA
		SE 3-4	0,6 90	300	G 3/4	- 4	المركب المراجع
hydraulically	SEH 2-2	SEH 3-2	0,1 30	315	G 3/8	_	⊔R ^l Z ₂
piloted	SEH 2-3 4)	SEH 3-3	0,3 50	300	G 1/2	manifold mounting	
		SEH 3-4	0,6 90	300	G 3/4		[· -
		SEH 3-5	1,0 120	300	G 1	¯¦ ≱	
1) different Q _{max}	available, see "Av	ailable orifices	,				

- 2) no Z-port with type SEH 3-2
 3) for pipe mounting versions only
 4) for manifold mounting versions only

Available orifices

 Q_{max} (I/min) 3 6 10 15 22 30 36 50 70 90 120 open orifice, when deenergized 3 F 6 F 10 F 15 F 22 F 30 F 36 F 50 F 70 F 90 F 120 F blocked orifice, when deenergized

Solenoid voltage

- 12V DC, 24V DC
- · Other voltage on request

· Control via proportional amplifier (see also "Further information")