

BENCOR (Pty) Ltd.

Metering valves



Flow control valves type SF, SD, SK and SU

The SF, SD, SK, and SU type flow control valves are available in 2-way and 3-way flow versions. They are utilized to smoothly adjust the consumer flow in hydraulic circuits. It is possible with type SU to choose between two previously selected flows.

The amount of flow is accurately maintained even if the system pressure or viscosity varies.

Additional control functions enable adaptation to special application requirements (e.g. pressure limiting valve and idle circulation valve. Both can be integrated in the valve body or externally via a Z-port).

The 2-way flow control valves can work in any flow direction when ordered with a by-pass check valve and bridge circuit.

These flow control valves may be used in a wide field of application due to the various actuation options available.



Nomenclature: 2-way flow control valve
3-way flow control valve

Design: Individual valves for pipe mounting or manifold mounting

Adjustability: Mechanical
• adjusting knob
• roller
• set screw
Solenoid (switching between two constant consumer flows)

P_{max}: 300 bar

Q_{max}: 0,3 ... 130 l/min

Basic types and general parameters

Basic type and size		Flow	Tapped ports ²⁾	Symbol	
2-way	3-way	Q _{max} (l/min) ¹⁾		2-way	3-way
S. 2-3	S. 3-3	0,3 ... 60	G 1/2		
S. 2-4	S. 3-4	0,6 ... 90	G 3/4		
S. 2-5	S. 3-5	1,0 ... 130	G 1		
SU 2-3	SU 3-3	0 ... 50	G 1/2		

Actuations

Basic types	Brief description	Symbol
SF ..	set screw a/f 10 adjustment travel 5 mm	
SD ..	adjusting knob adjustment travel 3,8 turns	
SK..	roller actuation	
SKR ..	unshielded version (SK), shielded version (SKR) actuation travel 15,5 ... 17 mm actuation force 30 ... 70 N	
SU	solenoid 12V DC, 24V DC, 230V AC 50/60 Hz	

Available orifices

Q _{max} (l/min)	3	15	30	36	50	60	70	90	130
	(orifice open when deenergized)								

¹⁾ Q_{max} can be selected, see "Available orifices"
²⁾ with version for pipe mounting