

These 2-way flow valves (drop rate braking valves), type SB or SQ, are used for flow control purposes with single acting cylinders. They maintain a constant drop rate irrespective of the size of the load. There is an integrated sliding metering orifice enabling free flow in the other direction. Type SB features load sensing to prevent oscillations (e.g. required with fork lift trucks) whereas type SQ has load independent characteristics.

Flow control valves type SJ (no sliding metering orifice) are used to limit control flows in consumer circuits. Version DSJ limits the flow both directions and is therefore intended for double acting consumers applications.

Coding for adjustment range of the set



Basic types and general parameters

Racio tuno

Nomenclature:	2-way flow control valve (drop rate braking valve)
Design:	Screw-in type with housing for in-line installation
Adjustability:	Fixed (pre-set) Tool adjustable from outside
p _{max} :	315 bar
Q _{max} :	0.25 400 lpm

Basic type	Coc	ding for	adjustn	nent ran	ige of the s	set	Tapped ports	Syn	lod
and size	res	ponse f	low fror	n to .	lpm belo	w	(standard)		
	1	3	5	7	9	90	(BSPP)	SB, SQ	SJ
	T								
SB 0	1	1.6	2.5	4	6.3	10	G 1/4 (A)		
SJ 0 ¹)	1.6	2.5	4	6.3	10	15		₩	Υ.
SB 1	2.5	4	6.3	10	16	25	G 3/8 (A)	F B	F →
SQ 1	4	6.3	10	16	25	35			
SB 2	16	21	28	37	50		G 1/2 (A)		
SQ 2	21	28	37	50	67 ²)				
SB 3	37	50	67	90	120		G 3/4 (A)		
SQ 3	50	67	90	120	150 ²)				
SB 4	80	100	125	160	200		G 1 (A)		
	100	125	160	200	250				
SB 5	170	200	236	280	335		G 1 1/4 (A)		
	200	236	280	335	400				

Tannad norte

Additional versions

- Version with metric and UNF thread
- Version with thread reduction
- Version with housing for in-line installation
- Version with swivel housing or as banjo bolt

 Version with housing, externally adjustable and idle position can be locked

Symbol

- Version type DSJ ($Q_{max} = 20$ lpm, $p_{max} = 300$ bar) flow control function for both flow directions suited for double acting consumers ³)
 - 1) Type SJ 0 without coding: adjust. range 0.25 ... 1.2 lpm
 - ²) Not for type SQ..
 ³) See also "Further information"

Order examples

SJ 05 C-4

Flow control valve type SJ 05, adjustment range 5 (2.5 ... 4 lpm) Screw-in valve (coding C), response flow 4 lpm

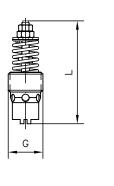
SB 27 C-40

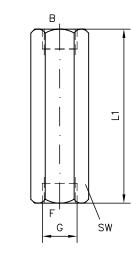
Flow control valve type SB 2, adjustment range 7 (37...50 lpm) Screw-in valve (coding C), response flow 40 lpm

Dimensions

Screw-in valve ...C, without housing Version ...G, with housing Type SB, SQ Type SJ

G





Basic type	G	L L1 _{max}		SW	m (g)
	(BSPP)				
SJ 0	G 1/4 (A)	24			35
SB 0	G 1/4 (A)	39	78	a/f 19	13
SB 1, SQ 1	G 3/8 (A)	43	82	a/f 22	23
SB 2, SQ 2	G 1/2 (A)	49	96	a/f 27	40
SB 3, SQ 3	G 3/4 (A)	61	106	a/f 32	80
SB 4	G 1 (A)	78	145	a/f 41	150
SB 5	G 1 1/4 (A)	94	160	a/f 50	300

All dimensions are in mm, and subject to change without notice!

Further information

 Drop rate braking valves type SB, SQ 	D 6920
 2-way flow control valves type SJ 	D 7395
type CSJ	D 7736
 Double acting 2-way flow control valves type DSJ 	D 7825
 Screw-in check valves type BSE, QSE, MSE 	D 7121

[•] See also "Devices for special applications" (Industrial trucks, Screw-in valves and installation kits)

For page and section of the devices additionally listed, see type index