Flow valves





Flow control valve (lowering brake valve) type SB, SQ, SJ and DSJ

Flow control valves are a type of flow valve. They generate a set constant flow rate, largely independently of the load.

The flow control valve type SB and SQ is available as a screw-in cartridge, a housing version with pipe connection or as a banjo screw version. Type SB has a slightly inclined characteristic curve for oscillation damping. Type SQ is largely independent of the load.

The freely movable sliding metering orifice enables greater flow in the opposite flow direction. No bypass check valve is therefore required. The flow control valve type SB and SQ is used to control the lowering speed of single-acting consumers.

Features and benefits:

- Oscillation damping and load-independent
- Compact screw-in valve

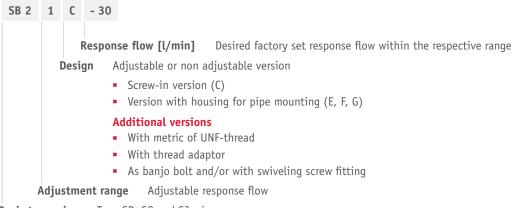
Intended applications:

- General hydraulic systems
- Industrial trucks
- Lifting equipment



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

Design and order coding example



Basic type, size Type SB, SQ and SJ, size

Type DSJ, flow control function in both directions for double-acting consumers

Function









General parameters and dimensions

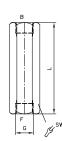
Screw-in valve ...C

SB, SQ









		Coding for adjustment range of the set response flow from to [lpm] below						Dimensions [mm]			m [g]
	1	3	5	7	9	90	G (Series)	L	L1 max	SW = a/f	
SB 0	11.6	1.62.5	2.54	46.3	6.310	1015	G 1/4 (A)	39	78	19	13
SJ 0 ¹⁾								24	-	-	35
SB 1	2.54	46.3	6.310	1016	1625	2535	G 3/8 (A)	43	82	22	23
SQ 1											
SB 2	1621	2128	2837	3750	50672)	-	G 1/2 (A)	49	96	27	40
SQ 2											
SB 3	3750	5067	6790	90120	120150 ²⁾	-	G 3/4 (A)	61	106	32	80
SQ 3											
SB 4	80100	100125	125160	160200	200250	-	G 1 (A)	78	145	41	150
SB 5	170200	200236	236280	280335	335400	-	G 1 1/4 (A)	94	160	50	300
DSJ 1	1.021.0	1.021.0							78	19	30

- 1) Type SJ 0 without coding: adjust. range 0.25 ... 1.2 l/min
- 2) Not for type SQ..

Associated technical data sheets:

- Flow control valve (lowering brake valve) type SB and SQ: D 6920
- Flow control valve type SJ: D 7395
- Flow control valve type CSJ: D 7736
- Flow control valve type DSJ: D 7825