

RE 18316-60/01.17 Replaces: 10.09

1/2



Sequence valves

VSQ-20-LM (G3/8)

Direct acting poppet type



Description

0T.S1.01.00.02-Z-W

They are composed by a relief valve (opening "B-A") and by a reverse flow check valve "A-B".

Initially the flow goes to a first line connected in parallel to the B side, not shown here, and pressure increases until reaching the selected relief setting; then the relief valve opens and the second circuit is supplied out of A port, while the actuator connected to the B side remains pressurized. The incorporated check valve allows the reverse motion of the actuators which happens without specific control of the sequence, only depending from the load/pressure conditions.

Note that pressure at A needed to operate the second actuator is additive to the relief setting, and, for this reason, this valve is successfully employed to energize a secondary actuator which only requires low pressure.

Performance



Advantages

-Very compact design and inline mounting for space saving. -Mounting position is unrestricted.

-Low Δp for B-A flow.

-Different springs available for different pressure ranges (see the "Z" table).

Technical data

Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)	
350 (5000)	50 (13)	0.18 (0.40)	

Steel body, zinc plated

Dimensions



The valve is supplied with Factory set
opening pressure and is non-adjustable.
Refer to the table. Standard pressure
setting are specified in the relevant "W"
table. For special pressure settings,
consult us.

Ports A-B	L mm (inches)	Hex mm (inches)	
G 3/8	85 (3.35)	22 (0.87)	

Std. SETTING bar (psi) Q= 5 l/m								
W	Z=05	Z=10	Z=20	Z=35				
01		80 (1160)	140 (2030)	210 (3045)				
02	20 (290)	90 (1305)	150 (2175)	220 (3190)				
03	30 (435)	100 (1450)	160 (2320)	230 (3335)				
04	40 (580)	110 (1595)	170 (2465)	240 (3480)				
05	50 (725)	120 (1740)	180 (2610)	250 (3625)				
06	60 (870)	130 (1885)	190 (2755)	260 (3770)				
07	70 (1015)		200(2900)	270 (3915)				

Springs Adj. press. range bar (psi) 05 20-70 (290-1015) 10 80-130 (1160-1885) 20 140-200 (2030-2900) 35 210-350 (3045-5075)

Applications

They are employed to control the sequence of two or more cylinders or motors, when the second actuator must be allowed to move only after the first actuator has performed a certain function. The incorporated check valve allows free reverse motion without specific control of the sequence.

Ordering code

	0T.S1.0 ⁻	1.00.02	Z	2	V	V	
Direct acting poppet type						Sto	l. setting see table "W"
				Spi	rings	s see	e table "Z"

Туре	Material number	Type	Material number	Туре	Material number
0TS101000205020	R931000074	0TS101000210050	R931000086	0TS101000235020	R931000656
0TS101000205030	R931000075	0TS101000210060	R931001980	0TS101000235030	R931001988
0TS101000205040	R931000076	0TS101000220010	R931000088	0TS101000235040	R931001990
0TS101000205050	R931000077	0TS101000220020	R931001981	0TS101000235050	R931001991
0TS101000205060	R931000078	0TS101000220030	R931000657	0TS101000235060	R931001992
0TS101000205070	R931000079	0TS101000220040	R931001982	0TS101000235070	R931001993
0TS101000210010	R931000083	0TS101000220050	R931000089		
0TS101000210020	R931000084	0TS101000220060	R931001983		
0TS101000210030	R931000085	0TS101000220070	R931001862		
0TS101000210040	R931001978	0TS101000235010	R931001985		

Bosch Rexroth Oil Control S.p.A. Fimma Division (Rge 2) Via G. Bovio, 7 Z.l. Mancasale 42124 Reggio Emilia, Italy Tel. +39 0522 517 277 Fax +39 0522 517 125 cartridges@oilcontrol.com www.boschrexroth.com © This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent.

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Subject to change.