



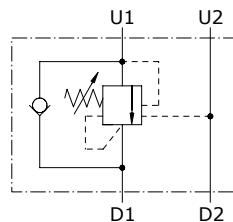
Type VOSL/SC counterbalance valves

- Single acting

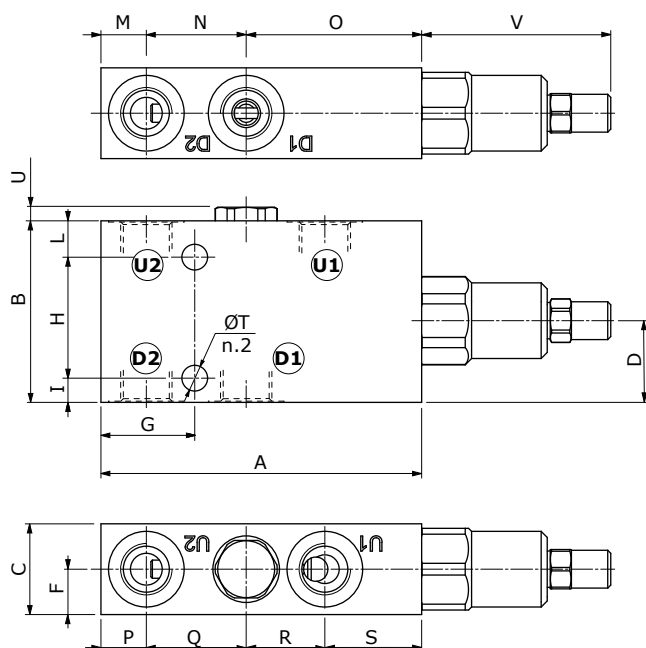
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	VOSL/SC 38	VOSL/SC 12	VOSL/SC 34	VOSL/SC 100	
Nominal flow	40 l/min (10.6 US gpm)	75 l/min (19.8 US gpm)	120 l/min (31.7 US gpm)	180 l/min (47.6 US gpm)	
Max. pressure	Aluminium body = 210 bar (3050 psi) Steel body = 350 bar (5100 psi)				
Oil leakage	0.25 cm ³ /min - 0.015 in ³ /min. (5 drops) at 210 bar - 3050 psi at 80% of pressure setting				
Fluid	mineral based oil				
Viscosity	from 10 to 200 cSt				
Max. level of contamination	18/16/13 ISO4406				
Fluid temperature	with NBR seals from -20°C (-4°F) to 80°C (176°F)				
Environmental temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)				
Weight	aluminium	0.80 kg (1.76 lb)	1.06 kg (2.34 lb)	1.48 kg (3.26 lb)	3.13 kg (6.90 lb)
	steel	1.54 kg (3.40 lb)	2.15 kg (4.74 lb)	3.34 kg (7.36 lb)	7.64 kg (16.8 lb)

NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions



Valve type	D1	D2	U1	U2
VOSL/SC 38	G3/8	G3/8		
VOSL/SC 12	G1/2	G1/2		
VOSL/SC 34	G3/4	G3/4		
VOSL/SC 100	G1"	G1"		

Dimensions are in mm-in

Valve type	A	B	C	D	F	G	H	I	L	M	N	O	P	Q	R	S	ØT	U	V
VOSL/SC 38	106	60	30	27	15	31	40	8	12	15	33	58	15	33	26	32	8.5	4.5	62.5
	4.17	2.36	1.18	1.06	0.89	1.22	1.57	0.315	0.472	0.59	1.30	2.28	0.59	1.30	1.02	1.26	0.335	0.177	2.46
VOSL/SC 12	116	70	35	31	17.5	36	48	8	14	16	40	60	16	40	28	32	8.5	4.5	62.5
	4.57	2.76	1.38	1.22	0.69	1.42	1.89	0.315	0.55	0.63	1.57	2.36	0.63	1.57	1.10	1.26	0.335	0.177	2.46
VOSL/SC 34	136	90	40	36	20	44	70	10	10	20	48	68	20	48	34	34	10.5	5.5	62.5
	5.35	3.54	1.57	1.42	0.79	1.73	2.76	0.394	0.394	0.79	1.89	2.68	0.79	1.89	1.34	1.34	0.413	0.217	2.46
VOSL/SC 100	185	100	60	38	30	62	80	10	10	32	70	83	32	70	48	35	10.5	12.5	62.5
	7.28	3.94	2.36	1.50	1.18	2.44	3.15	0.394	0.394	1.26	2.76	3.27	1.26	2.76	1.89	1.38	0.413	0.492	2.46

Ordering codes

VOSL/SC complete valves

TYPE: **VOSL/SC 38/TR.S.p4.PG** CODE: 1520021108

DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:4, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm)

TYPE: **VOSL/SC 12/TR.S.p7.PG** CODE: 1520031107

DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:7, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm)

TYPE: **VOSL/SC 34/TR.S.p7.PG** CODE: 1520041102

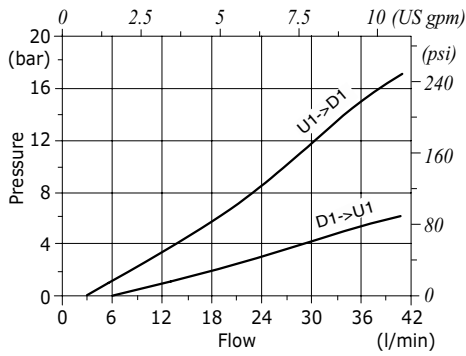
DESCRIPTION: Aluminium body, G3/4 ports, pilot ratio 1:7, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm)

TYPE: **VOSL/SC 100/TR.S.p7.PG** CODE: 1520051102

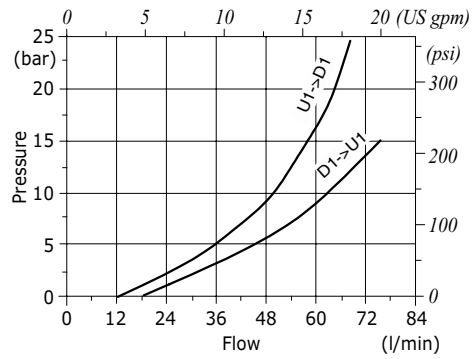
DESCRIPTION: Aluminium body, G1" ports, pilot ratio 1:7, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm)

For other configurations and steel body, please contact our Sales Dpt.

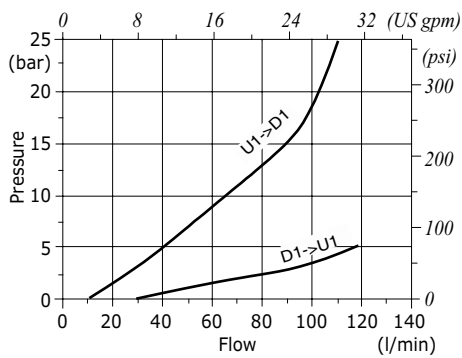
VOSL/SC 38 pressure drop vs. flow from D1->U1 and U1->D1



VOSL/SC 12 pressure drop vs. flow from D1->U1 and U1->D1



VOSL/SC 34 pressure drop vs. flow from D1->U1 and U1->D1



VOSL/SC 100 pressure drop vs. flow from D1->U1 and U1->D1

