

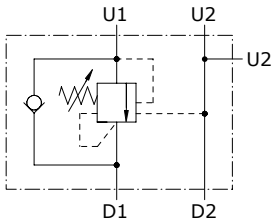
Type VOSL counterbalance valves

- Single acting
- Load sensitive

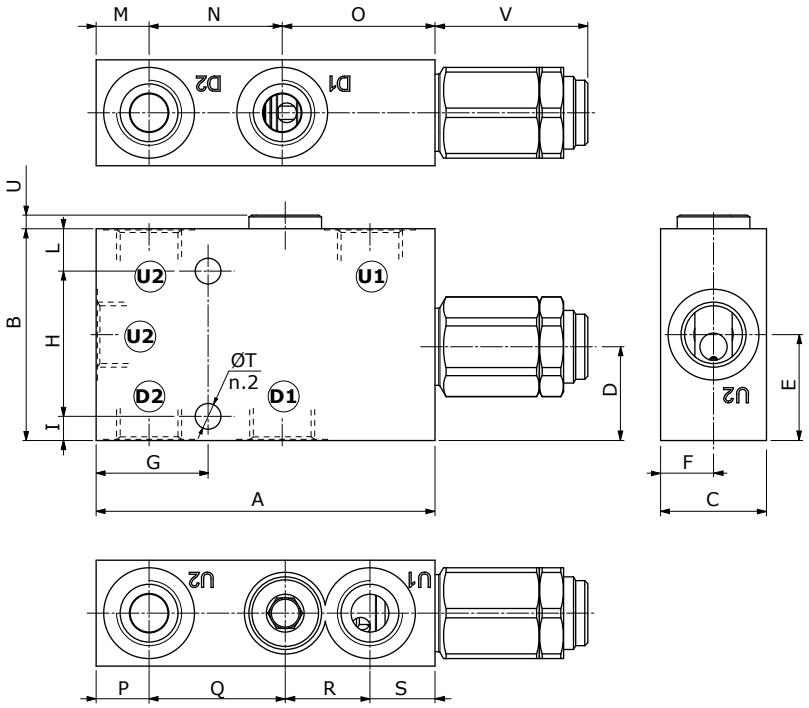
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VOSL 38	VOSL 12	VOSL 34	VOSL 100
Nominal flow		35 l/min *(9.2 US gpm)*	70 l/min *(18.4 US gpm)*	100 l/min *(26.4 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*	0.78 kg *(1.71 lb)*	1.00 kg *(2.20 lb)*	1.85 kg *(4.07 lb)*	3.26 kg *(7.18 lb)*
	steel	1.52 kg *(3.35 lb)*	1.95 kg *(4.29 lb)*	3.55 kg *(7.82 lb)*	7.07 kg *(15.5 lb)*

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



Dimensions



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

Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	ØT	U	V
VOSL 38	105 *4.13*	65 *2.56*	30 *1.18*	27 *1.06*	32.5 *1.30*	15 *0.59*	34 *1.34*	40 *1.57*	8 *0.315*	17 *0.67*	16 *0.63*	38 *1.50*	51 *2.01*	16 *0.63*	38 *1.50*	29 *1.14*	22 *0.87*	8.5 *0.335*	4.5 *0.177*	52 *2.05*
VOSL 12	112 *4.41*	70 *2.76*	35 *1.38*	31 *1.22*	35 *1.38*	17.5 *0.69*	37 *1.46*	48 *1.89*	8 *0.315*	14 *0.55*	17.5 *0.69*	44 *1.73*	50.5 *1.99*	17.5 *0.69*	45 *1.77*	28 *1.10*	21.5 *0.85*	8.5 *0.335*	4.5 *0.177*	57 *2.24*
VOSL 34	140 *5.51*	90 *3.54*	40 *1.57*	36 *1.42*	45 *1.77*	20 *0.79*	52 *2.05*	70 *2.76*	10 *0.394*	10 *0.394*	22 *0.87*	53 *2.09*	65 *2.56*	22 *0.87*	53 *2.09*	35 *1.38*	30 *1.18*	10.5 *0.413*	5.5 *0.217*	66 *2.60*
VOSL 100	174 *6.85*	100 *3.64*	60 *2.36*	37 *1.46*	50 *1.97*	37 *1.46*	64 *2.52*	80 *3.15*	10 *0.394*	10 *0.394*	32 *1.26*	66 *2.60*	76 *2.99*	32 *1.26*	66 *2.60*	46 *1.81*	30 *1.18*	10.5 *0.413*	12.5 *0.492*	66 *2.60*

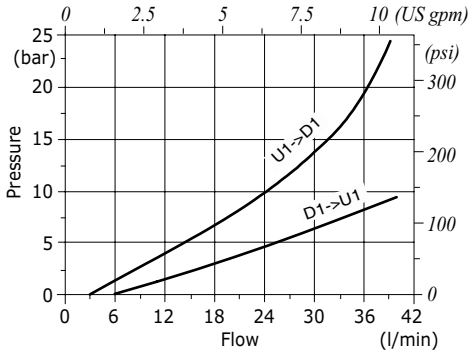
Ordering codes

VOSL complete valves

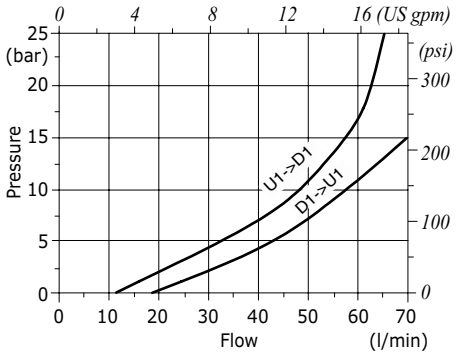
TYPE: **VOSL 38/TR.S.p4** CODE: 1510021102
DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:4, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL 12/TR.S.p7** CODE: 1510031102
DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:7, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL 34/TR.S.p7** CODE: 1510041102
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 100/TR.S.p7** CODE: 1510051102
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

Rating diagrams

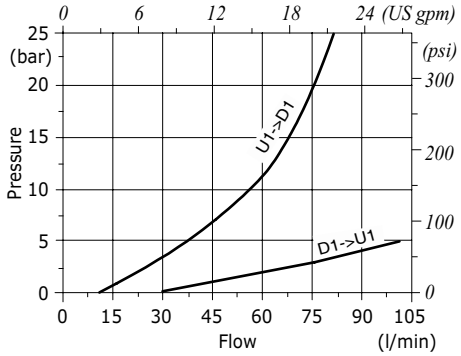
VOSL 38 pressure drop vs. flow from D1->U1 and U1->D1



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



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



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

