

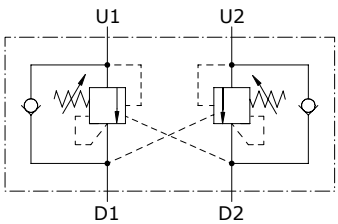
Type VODL counterbalance valves

- Double acting
- Load sensitive

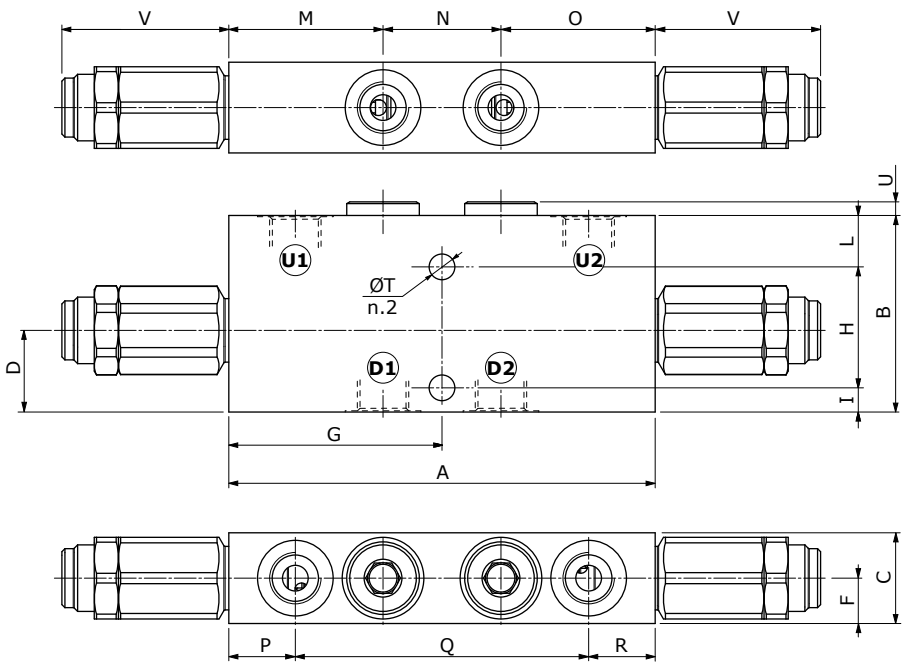
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VODL 38	VODL 12	VODL 34	VODL 100
Nominal flow		35 l/min *(9.2 US gpm)*	70 l/min *(18.5 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 cm³/min - *0.015 in³/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*	1.32 kg *(2.91 lb)*	1.69 kg *(3.73 lb)*	2.92 kg *(6.44 lb)*	4.75 kg *(10.47 lb)*
	steel	2.39 kg *(5.27 lb)*	2.95 kg *(6.50 lb)*	5.13 kg *(11.31 lb)*	9.60 kg *(21.16 lb)*

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



Dimensions



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

Dimensions are in mm-*in*

Valve type	A	B	C	F	G	H	I	L	M	N	O	P	Q	R	ØT	U	V
VODL 38	141 *5.55*	65 *2.56*	30 *1.18*	15 *0.59*	70.5 *2.76*	40 *1.57*	8 *0.315*	17 *0.67*	51 *2.01*	39 *1.54*	51 *2.01*	22 *0.87*	97 *3.82*	22 *0.87*	8.5 *0.335*	4.5 *0.177*	55 *2.17*
VODL 12	149 *5.87*	70 *2.76*	34.5 *1.36*	17.25 *0.68*	74.5 *2.93*	48 *1.89*	8 *0.315*	14 *0.551*	50.5 *1.99*	48 *1.89*	50.5 *1.99*	21.5 *0.85*	106 *4.17*	21.5 *0.85*	8.5 *0.335*	4.5 *0.177*	50.5 *1.99*
VODL 34	184 *7.25*	90 *3.54*	40 *1.57*	20 *0.79*	92 *3.62*	70 *2.76*	10 *0.394*	10 *0.394*	65 *2.56*	54 *2.13*	65 *2.56*	30 *1.18*	124 *4.88*	30 *1.18*	10.5 *0.413*	5.5 *0.217*	61 *2.40*
VODL 100	218 *8.58*	100 *3.94*	60 *2.36*	30 *1.18*	109 *4.29*	80 *3.15*	10 *0.394*	10 *0.394*	76 *2.99*	66 *2.60*	76 *2.99*	30 *1.18*	158 *6.22*	30 *1.18*	10.5 *0.413*	12.5 *0.492*	61 *2.40*

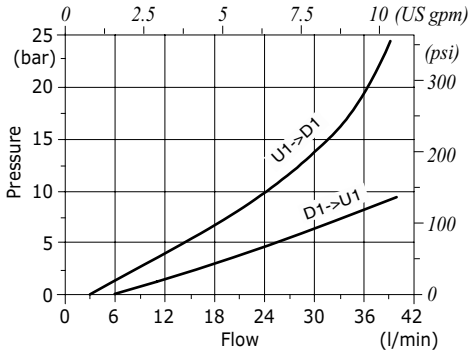
Ordering codes

VODL complete valves

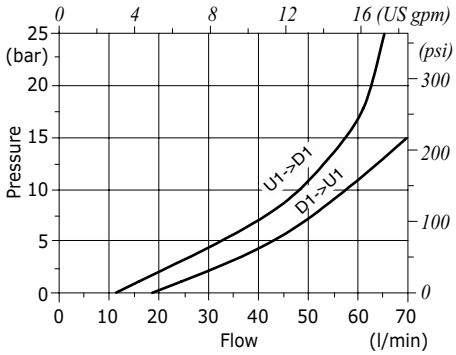
TYPE: **VODL 38/TR.S.p4** CODE: 1550021102
DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:4, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL 12/TR.S.p7** CODE: 1550031102
DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:7, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL 34/TR.S.p7** CODE: 155041102
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: **VODL 100/TR.S.p7** CODE: 1550051102
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, SAE thread and steel body, please contact our Sales Dept.

Rating diagrams

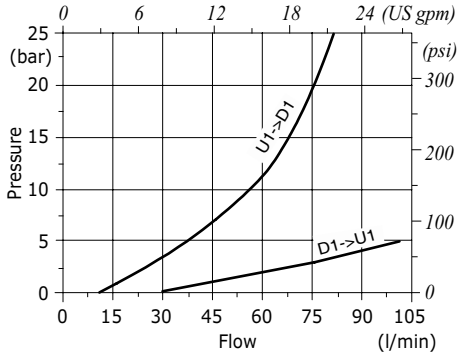
VODL 38 pressure drop vs. flow from D1->U1 and U1->D1



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



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



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

