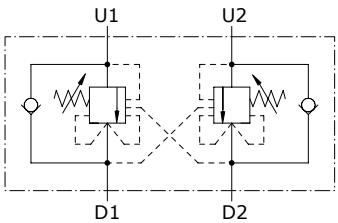
Type VODL/SC/CC counterbalance valves

- Double acting
- Relief compensated

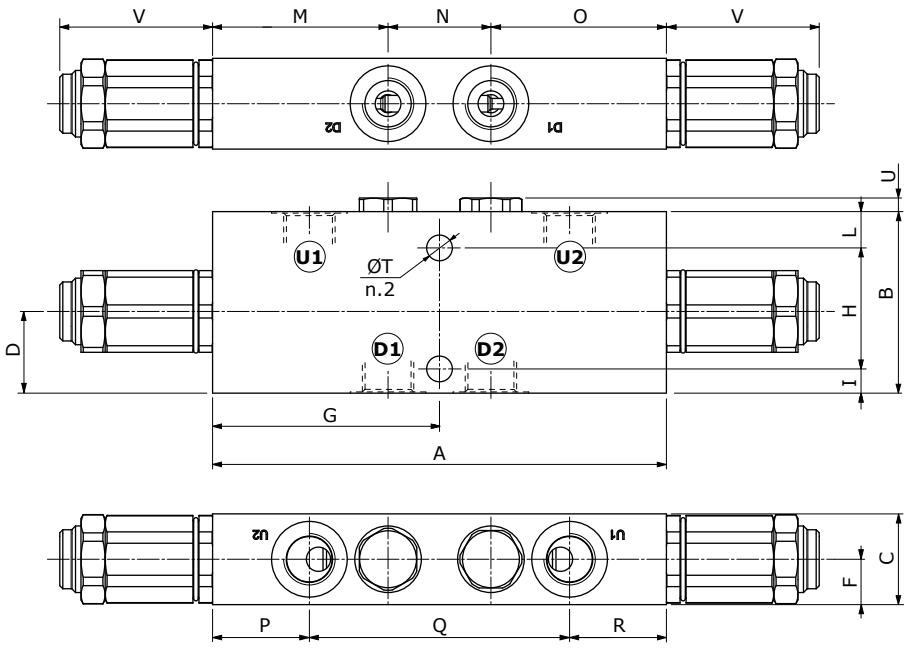
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VODL/SC/CC 38	VODL/SC/CC 12	VODL/SC/CC 34	VODL/SC/CC 100
Nominal flow		40 l/min *(10.6 US gpm)*	75 l/min *(18.5 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 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*	1.14 kg *(2.51 lb)*	1.63 kg *(3.59 lb)*	2.37 kg *(5.22 lb)*	4.35 kg *(9.59 lb)*
	steel	2.18 kg *(4.81 lb)*	3.06 kg *(6.75 lb)*	4.85 kg *(10.69 lb)*	9.82 kg *(21.65 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	150 *5.91*	60 *2.36*	30 *1.18*	15 *0.59*	75 *2.95*	40 *1.57*	8 *0.315*	12 *0.472*	58 *2.28*	34 *1.34*	58 *2.28*	32 *1.26*	86 *3.82*	32 *1.26*	8.5 *0.335*	4.5 *0.177*	50.5 *1.99*
VODL 12	156 *6.14*	70 *2.76*	35 *1.38*	17.5 *0.69*	78 *3.07*	48 *1.89*	8 *0.315*	14 *0.551*	60 *2.52*	36 *1.89*	60 *2.52*	32 *1.26*	92 *3.62*	32 *1.26*	8.5 *0.335*	4.5 *0.177*	50.5 *1.99*
VODL 34	186 *7.32*	90 *3.54*	40 *1.57*	20 *0.79*	93 *3.66*	70 *2.76*	10 *0.394*	10 *0.394*	68 *2.68*	50 *1.97*	68 *2.68*	34 *2.28*	118 *4.65*	34 *2.28*	10.5 *0.413*	5.5 *0.217*	50.5 *1.99*
VODL 100	232 *9.13*	100 *3.94*	60 *2.36*	30 *1.18*	116 *4.57*	80 *3.15*	10 *0.394*	10 *0.394*	83 *3.27*	66 *2.60*	83 *3.27*	35 *1.38*	162 *6.38*	35 *1.38*	10.5 *0.413*	12.5 *0.492*	50.5 *1.99*

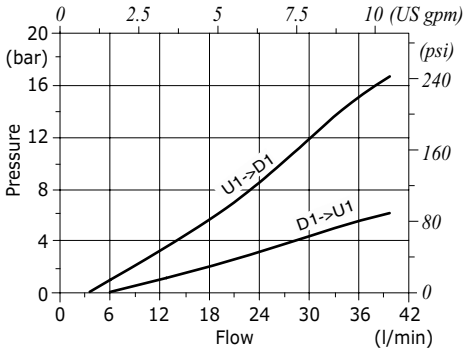
Ordering codes and description

VODL/SC/CC complete valves

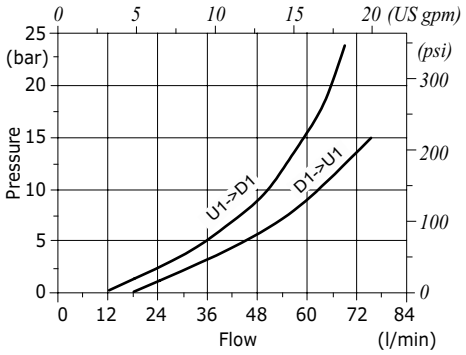
TYPE: **VODL/SC/CC 38/TR.S.p4** CODE: 1565021102
DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:4, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/SC/CC 12/TR.S.p7** CODE: 1565031102
DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:7, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/SC/CC 34/TR.S.p7** CODE: 1565041102
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/SC/CC 100/TR.S.p7** CODE: 1565051102
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 Dept.

Rating diagrams

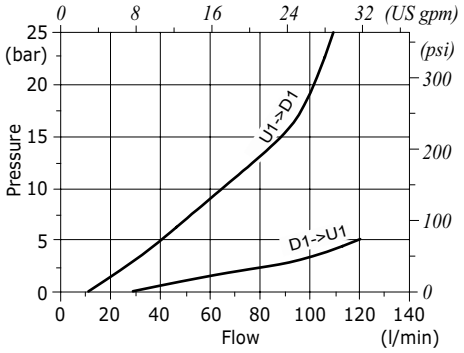
VODL/SC/CC 38 pressure drop vs. flow from D1->U1 and U1->D1



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



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



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