

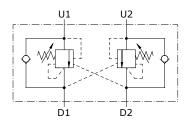
Type VODL/SC counterbalance valves

- Double acting
- Load sensitive

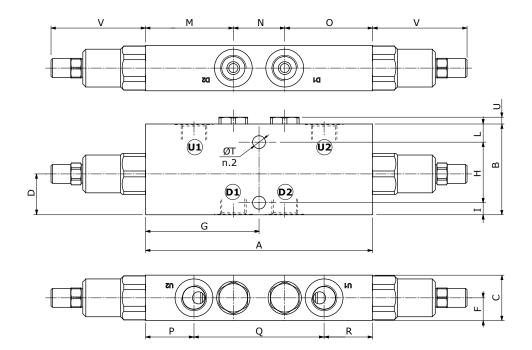
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40° C (104° F) temperature.

	VODL/SC 38	VODL/SC 12	VODL/SC 34	VODL/SC 100						
Nominal flow	40 l/min (10.6 US gpm)	75 l/min (19.8 <i>US gpm)</i>	120 l/min (31.7 US gpm)	180 l/min (47.6 US gpm)						
Max. pressure			: 210 bar <i>(3050 psi)</i> 50 bar <i>(5100 psi)</i>							
Oil leakage	0.25 cm ³ /min -	$0.25~\mathrm{cm^3/min}$ - $0.015~\mathrm{in^3/min}$. (5 drops) at 210 bar - $3050~\mathrm{psi}$ 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 ($-40^{\circ}F$) to $100^{\circ}C$ ($212^{\circ}F$)										
aluminium Weight steel	1.09 kg <i>(2.40 lb)</i> 2.15 kg <i>(4.74 lb)</i>	1.53 kg <i>(3.37 lb)</i> 2.96 kg <i>(6.53 lb)</i>	2.26 kg <i>(4.98 lb)</i> 4.78 kg <i>(10.54 lb)</i>	4.24 kg <i>(9.35 lb)</i> 9.71 kg <i>(21.41 lb)</i>						

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	В	С	F	G	н	I	L	М	N	0	P	Q	R	ØΤ	U	V
VODL 38	150	60	30	15	75	40	8	12	58	34	58	32	86	32	8.5	4.5	62.5
	5.91	2.36	1.18	0.59	2.95	1.57	0.315	0.472	2.28	1.34	2.28	1.26	3.82	1.26	<i>0.335</i>	<i>0.177</i>	2.46
VODL 12	156	70	35	17.5	78	48	8	14	60	36	60	32	92	32	8.5	4.5	57.5
	<i>6.14</i>	2.76	1.38	<i>0.69</i>	3.07	1.89	0.315	0.551	2.52	1.89	2.52	1.26	<i>3.62</i>	1.26	<i>0.335</i>	<i>0.177</i>	2.26
VODL 34	186	90	40	20	93	70	10	10	68	50	68	34	118	34	10.5	5.5	63.5
	7.32	3.54	1.57	<i>0.79</i>	<i>3.66</i>	2.76	0.394	0.394	2.68	1.97	2.68	2.28	4.65	2.28	<i>0.413</i>	0.217	2.50
VODL 100	232	100	60	30	116	80	10	10	83	66	83	35	162	35	10.5	12.5	63.5
	9.13	3.94	2.36	1.18	<i>4.57</i>	<i>3.15</i>	0.394	0.394	<i>3.27</i>	2.60	<i>3.27</i>	1.38	6.38	1.38	<i>0.413</i>	0.492	2.50

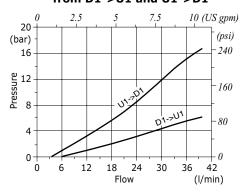
Ordering codes and description

VODL/SC complete valves

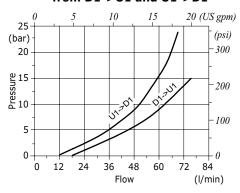
TYPE: VODL/SC 38/TR.S.p4 CODE: 1560021102 DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:4, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm) TYPE: VODL/SC 12/TR.S.p7 CODE: 1560031102 DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:7, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm) TYPE: VODL/SC 34/TR.S.p7 CODE: 1560041102 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 100/TR.S.p7 CODE: 1560051102 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

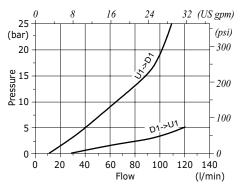
VODL/SC 38 pressure drop vs. flow from D1->U1 and U1->D1



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



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



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

