

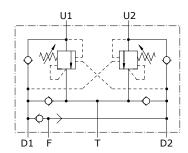
Type VABAL/SF counterbalance valves

- Cross line, relief valve for motion control
- Load sensitive

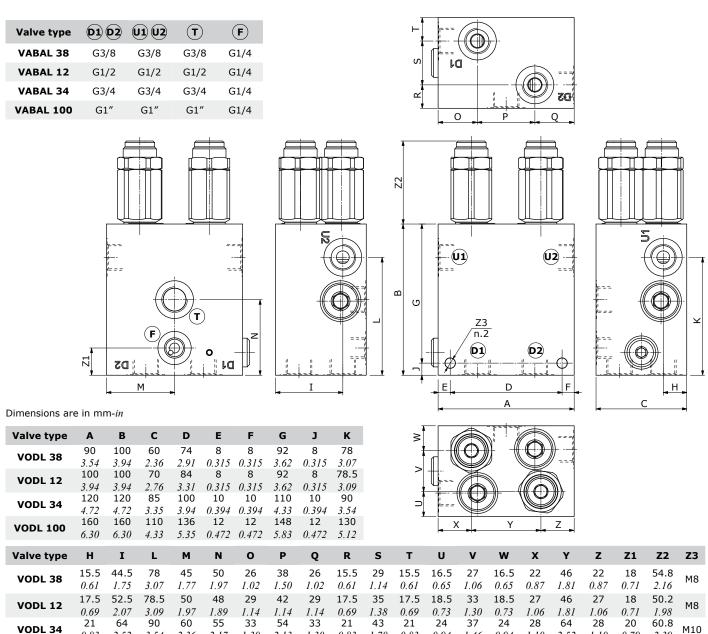
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40° C (104° F) temperature.

		VABAL/SF 38	VABAL/SF 12	VABAL/SF 34	VABAL/SF 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 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 steel	2.73 kg <i>(6.02 lb)</i> 4.31 kg <i>(9.50 lb)</i>	2.50 kg <i>(5.51 lb)</i> 5.19 kg <i>(11.44 lb)</i>	4.52 kg <i>(9.96 lb)</i> 9.03 kg <i>(19.91 lb)</i>	9.27 kg <i>(20.44 lb)</i> 20.27 kg <i>(44.69 lb)</i>

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



Dimensions-



Ordering codes

VODL 100

VABAL/SF complete valves

0.83

30

1.18

2.52

80

3.15

3.54

130

5.12

2.36

80

3.15

TYPE: VABAL/SF 38/TR.S.p3 CODE: 1572021103 DESCRIPTION: Aluminium body, G3/8 ports, pilot ratio 1:3, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm) TYPE: VABAL/SF 12/TR.S.p3 CODE: 1572031103 DESCRIPTION: Aluminium body, G1/2 ports, pilot ratio 1:3, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm) TYPE: VABAL/SF 34/TR.S.p3 CODE: 1572041103 DESCRIPTION: Aluminium body, G3/4 ports, pilot ratio 1:3, range 50-350 bar (725-5075 psi), std setting 280 bar (4060 psi) @ 5 l/min (1.32 US gpm) TYPE: VABAL/SF 100/TR.S.p3.PG CODE: 1572051103 DESCRIPTION: Aluminium body, G1" ports, pilot ratio 1:3, 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.

2.13

66

2.60

1 30

47

1.85

0.83

30

1.18

1 70

50

1.97

0.83

30

1.18

0.94

30

1.18

1.46

50

1.97

0.94

30

1.18

1 10

47

1.85

2 52

66

2.60

1 10

47

1.85

0.79

27

2 39

64.7

M12

1 30

47

1.85

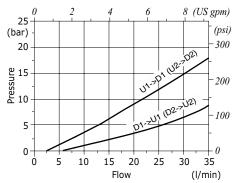
2.17

84

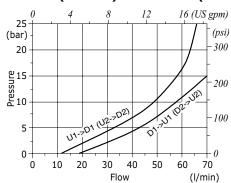
3.31

Rating diagrams

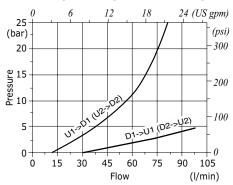
VABAL 38 pressure drop vs. flow from U1->D1 (U2->D2) and D1->U1 (D2->U2)



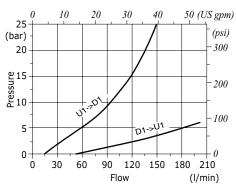
VABAL 12 pressure drop vs. flow from U1->D1 (U2->D2) and D1->U1 (D2->U2)



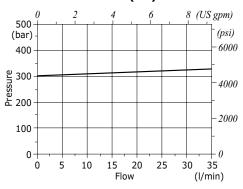
VABAL 34 pressure drop vs. flow from U1->D1 (U2->D2) and D1->U1 (D2->U2)



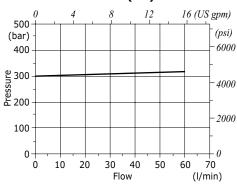
VABAL 100 pressure drop vs. flow from U1->D1 and D1->U1



VABAL 38 pressure setting vs. flow from U1 (U2)->T



VABAL 12 pressure setting vs. flow from U1 (U2)->T



VABAL 34 pressure setting vs. flow from U1 (U2)->T

