



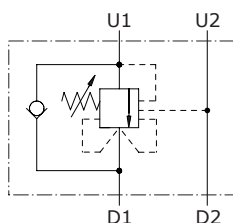
## Type VOSL/SC/CC counterbalance valves

- Single acting

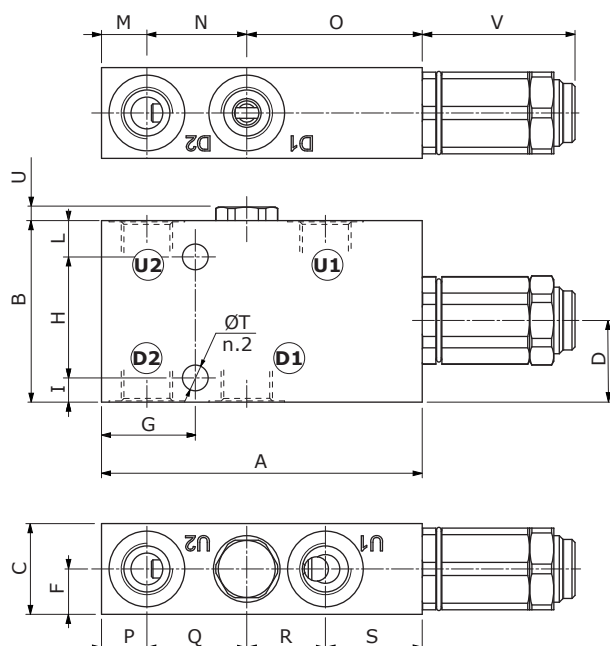
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

|                                            | VOSL/SC/CC 38                                                                            | VOSL/SC/CC 12             | VOSL/SC/CC 34              | VOSL/SC/CC 100             |                   |
|--------------------------------------------|------------------------------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|-------------------|
| Nominal flow                               | 40 l/min<br>(10.6 US gpm)                                                                | 75 l/min<br>(19.8 US gpm) | 120 l/min<br>(31.7 US gpm) | 180 l/min<br>(47.6 US gpm) |                   |
| Max. pressure                              | Aluminium body = 210 bar (3050 psi)<br>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                                                                                | 0.83 kg (1.83 lb)         | 1.11 kg (2.45 lb)          | 1.53 kg (3.37 lb)          | 3.18 kg (7.01 lb) |
|                                            | steel                                                                                    | 1.56 kg (3.44 lb)         | 2.32 kg (5.11 lb)          | 3.39 kg (7.47 lb)          | 7.69 kg (16.9 lb) |

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



### Dimensions



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

Dimensions are in mm-in

| Valve type     | A    | B    | C    | D    | F    | G    | H    | I     | L     | M    | N    | O    | P    | Q    | R    | S    | ØT    | U     | V    |
|----------------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|------|-------|-------|------|
| VOSL/SC 38/CC  | 106  | 60   | 30   | 27   | 15   | 31   | 40   | 8     | 12    | 15   | 33   | 58   | 15   | 33   | 26   | 32   | 8.5   | 4.5   | 51   |
|                | 4.17 | 2.36 | 1.18 | 1.06 | 0.89 | 1.22 | 1.57 | 0.315 | 0.472 | 0.59 | 1.30 | 2.28 | 0.59 | 1.30 | 1.02 | 1.26 | 0.335 | 0.177 | 2.01 |
| VOSL/SC/CC 12  | 116  | 70   | 35   | 31   | 17.5 | 36   | 48   | 8     | 14    | 16   | 40   | 60   | 16   | 40   | 28   | 32   | 8.5   | 4.5   | 51   |
|                | 4.57 | 2.76 | 1.38 | 1.22 | 0.69 | 1.42 | 1.89 | 0.315 | 0.55  | 0.63 | 1.57 | 2.36 | 0.63 | 1.57 | 1.10 | 1.26 | 0.335 | 0.177 | 2.01 |
| VOSL/SC/CC 34  | 136  | 90   | 40   | 36   | 20   | 44   | 70   | 10    | 10    | 20   | 48   | 68   | 20   | 48   | 34   | 34   | 10.5  | 5.5   | 51   |
|                | 5.35 | 3.54 | 1.57 | 1.42 | 0.79 | 1.73 | 2.76 | 0.394 | 0.394 | 0.79 | 1.89 | 2.68 | 0.79 | 1.89 | 1.34 | 1.34 | 0.413 | 0.217 | 2.01 |
| VOSL/SC/CC 100 | 185  | 100  | 60   | 38   | 30   | 62   | 80   | 10    | 10    | 32   | 70   | 83   | 32   | 70   | 48   | 35   | 10.5  | 12.5  | 51   |
|                | 7.28 | 3.94 | 2.36 | 1.50 | 1.18 | 2.44 | 3.15 | 0.394 | 0.394 | 1.26 | 2.76 | 3.27 | 1.26 | 2.76 | 1.89 | 1.38 | 0.413 | 0.492 | 2.01 |

### Ordering codes

#### VOSL/SC/CC complete valves

TYPE: **VOSL/SC/CC 38/TR.S.p4.PG** CODE: 1525021102

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/SC/CC 12/TR.S.p7.PG** CODE: 1525031102

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/SC/CC 34/TR.S.p7.PG** CODE: 1525041102

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)

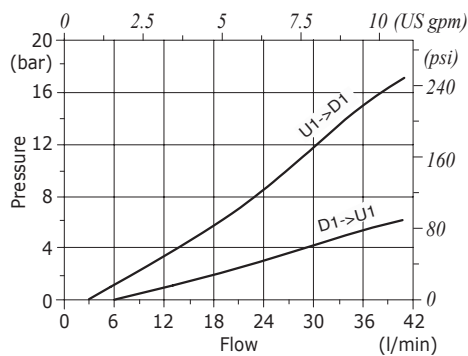
TYPE: **VOSL/SC/CC 100/TR.S.p7.PG** CODE: 1525051102

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)

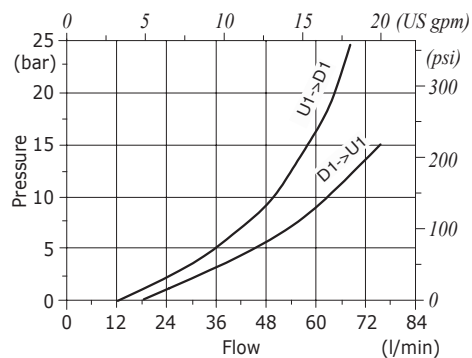
For other configurations and steel body, please contact our Sales Dept.

**Rating diagrams**

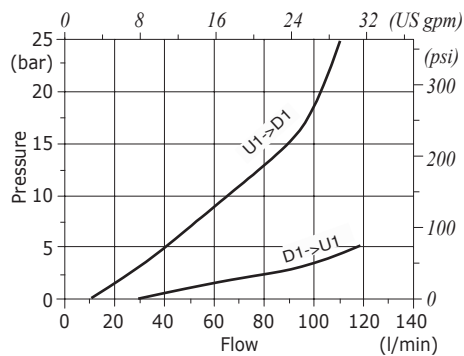
**VOSL/SC 38 pressure drop vs. flow  
from D1->U1 and U1->D1**



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



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



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

