

RE 18309-50/04.10

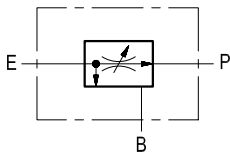
1/2

Replaces: RE 00171/02.07

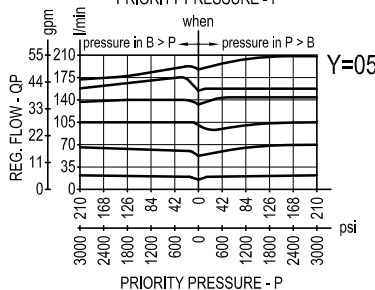
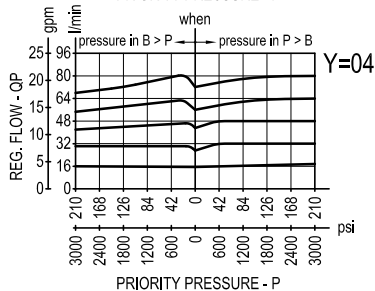
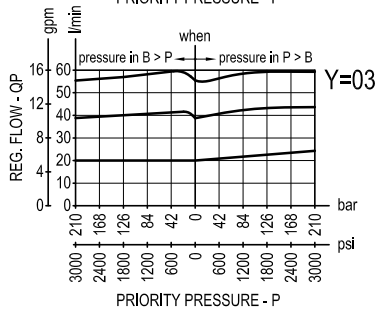
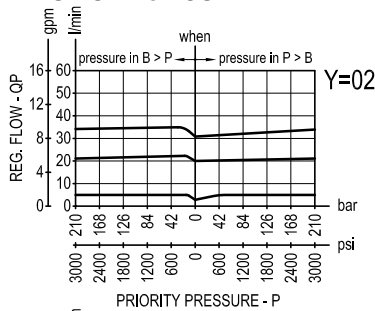
Flow regulator, 3-way, combination type, pressure compensated

VRFC3C

OM.42.03 - X - Y



Performance



Description

A constant priority flow, regardless of system pressures, is established from E to P, while a minimum pressure differential of appr. 5 bar (70 psi) exists between the two ports. While the regulated priority flow from P is used in the priority circuit, the flow supplied to E in excess of priority is by-passed to B port and can be sent to power other actuators. Priority flow can be varied from closed to the nominal maximum rating of the valve. Reverse flow from P to E is limited by the selected opening of the restrictor and is not pressure compensated. Reverse flow from B is not permitted.

Technical data

Hydraulic

Operating pressure bar (psi) up to 210 (3000)

QE = max inlet flow "E" port (see "Dimensions")

QP = max priority flow "P" port (see "Dimensions")

Flow range adjustment : 0 - 3 turns

General

Manifold material Aluminium

Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.

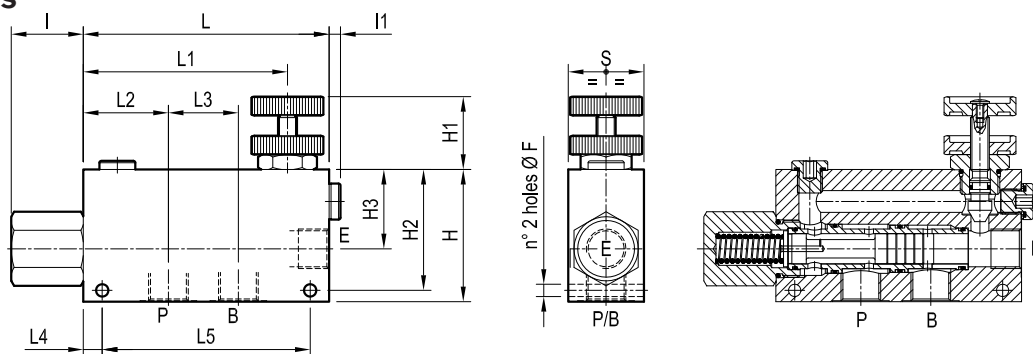
Weight see "Dimensions"

Fluid temperature range °C (°F) between -30 (-22) and +100 (212)

Other technical data see data sheet RE 18350-50

Note: for applications outside these parameters, please consult us.

Dimensions



| | | | | | | | | | | | | | | | | | |
|--------------|---------------|--------------|----------------|--------------|-----------------|---------------|-------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------------|----------------------|-------|--------------------|
| 70 (2.76) | 130 (5.12) | 10 (0.39) | 56.5 (2.22) | 48 (1.89) | 122.5 (4.82) | 150 (5.91) | 6 (0.24) | 54 (2.13) | 65 (2.56) | 120 (4.72) | 40 (1.58) | 130 (5.12) | 8.5 (0.34) | 190 l/min 50 gpm | 380 l/min 100 gpm | G 1 | 4.4 (9.7) |
| 50 (1.97) | 135 (5.32) | 10 (0.39) | 44 (1.73) | 54 (2.13) | 130 (5.12) | 155 (6.1) | 6 (0.24) | 35 (1.38) | 55 (2.17) | 83 (3.27) | 40 (1.58) | 90 (3.54) | 8.5 (0.34) | 90 l/min 24 gpm | 150 l/min 40 gpm | G 3/4 | 2.5 (5.5) |
| 40 (1.58) | 110 (4.33) | 10 (0.39) | 37 (1.46) | 45 (1.77) | 108 (4.25) | 130 (5.12) | 6 (0.24) | 38 (1.5) | 42 (1.65) | 64 (2.52) | 40 (1.58) | 70 (2.76) | 6.5 (0.26) | 55 l/min 15 gpm | 90 l/min 24 gpm | G 1/2 | 1.3 (2.87) |
| 40 (1.58) | 110 (4.33) | 10 (0.39) | 37 (1.46) | 45 (1.77) | 108 (4.25) | 130 (5.12) | 6 (0.24) | 38 (1.5) | 42 (1.65) | 64 (2.52) | 40 (1.58) | 70 (2.76) | 6.5 (0.26) | 30 l/min 8 gpm | 55 l/min 15 gpm | G 3/8 | 1.3 (2.87) |
| S | L5 | L4 | L3 | L2 | L1 | L | I1 | I | H3 | H2 | H1 | H | F | QP | QE | Y | Weight kg (lbs) |

[mm (inches)]

Ordering code

OM.42.03 X Y

Flow regulator,
3-way, combination type,
pressure compensated

Adjustments

= 70 Handknob and locknut



= 80 Screw and locknut



= 40 Graduated handknob



| Port sizes | E - B - P |
|------------|-----------|
| = 02 | G 3/8 |
| = 03 | G 1/2 |
| = 04 | G 3/4 |
| = 05 | G 1 |

| Type | Material number |
|-----------------|-----------------|
| OM4203700200000 | R930004324 |
| OM4203700300000 | R930004325 |
| OM4203700400000 | R930004328 |
| OM4203700500000 | R930004329 |
| OM4203800200000 | R930004332 |
| OM4203800300000 | R930004333 |
| OM4203800400000 | R930004334 |
| OM4203800500000 | R930004336 |

| Type | Material number |
|-----------------|-----------------|
| OM4203400200000 | R930004317 |
| OM4203400300000 | R930004318 |
| OM4203400400000 | R930004319 |
| OM4203400500000 | R930004320 |