

Shuttle valve

VFC

05.99.05.00 - Y

RE 18309-98

Edition: 05.2022

Replaces: 03.2016



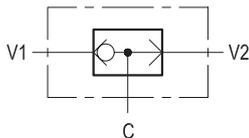
Technical data

| | |
|--|---|
| Operating pressure | up to 210 bar (3000 psi) |
| Max. flow | 50 l/min. (13 gpm) |
| Weight | 0.17 kg (0.38 lbs) |
| 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. | |
| Fluid | Mineral oil (HL, HLP) according DIN 51524 |
| Fluid temperature range | -30 °C to 100 (-22 to 212 °F) |
| Viscosity range | 5 to 800 mm ² /s (cSt) |
| Recommended degree of fluid contamination | Class 19/17/14 according to ISO 4406 |
| MTTFD | 150 years see RE 18350-51 |
| Other technical data | see data sheet 18350-50 |

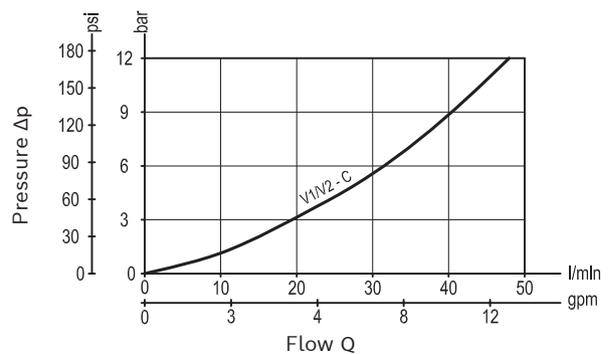
Note: for applications outside these parameters, please consult us.

Description

Single ball shuttle valve with 3 ports for in-line plumbing: when the ports V1 and V2 are connected to 2 work lines, the valve delivers the highest of the 2 pressures to the common port C. The single ball allows for the decay of the pressure signal when both work ports drop to a lower pressure level.



Characteristic curve



Ordering code

| | |
|--------------------|----------|
| 05.99.05.00 | Y |
|--------------------|----------|

Shuttle valve

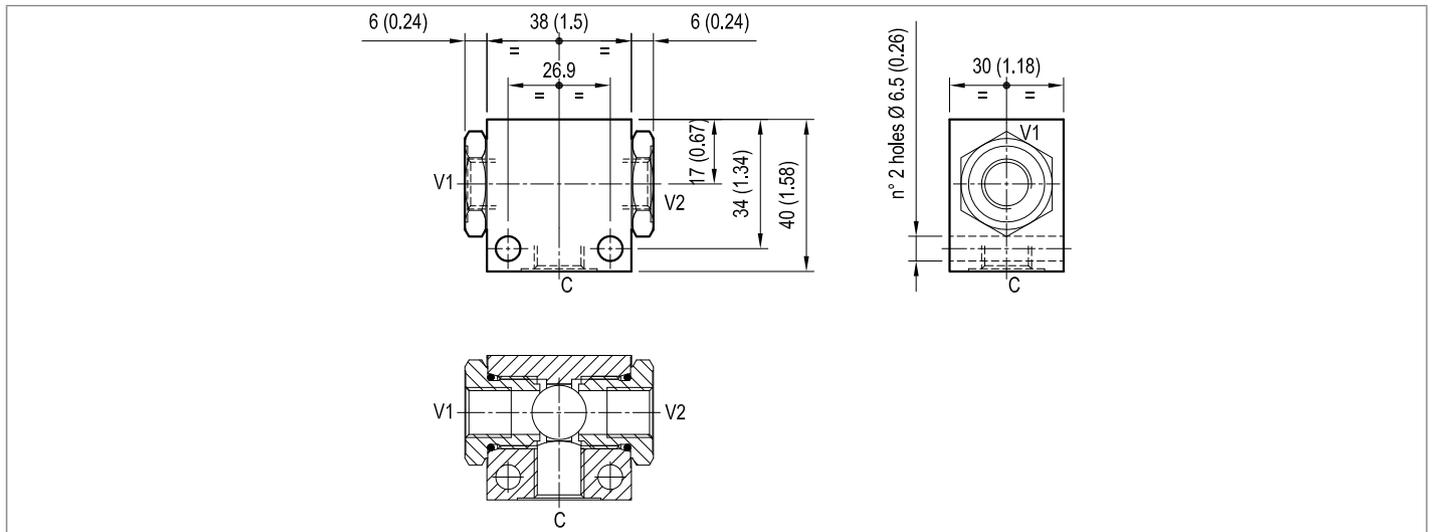
| | | |
|------------|-------|---------|
| Port sizes | C | V1 - V2 |
| 09 | G 1/4 | G 1/4 |

Preferred types

| Type | Material number |
|-----------------|-----------------|
| 05990500090000A | R930002701 |

| Type | Material number |
|------|-----------------|
| | |

Dimensions



Bosch Rexroth Oil Control S.p.A.

Via Leonardo da Vinci 5
 P.O. Box no. 5
 41015 Nonantola – Modena, Italy
 Tel. +39 059 887 611
 Fax +39 059 547 848
 compact-hydraulics-pib@boschrexroth.com
 www.boschrexroth.com/compacthydraulics

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.