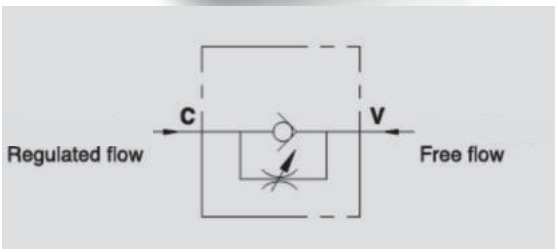
# BARREL TYPE UNIDIRECTIONAL FLOW CONTROL VALVES

## VRF

### Flow Upto 280 LPM
### Pressure 300 Bar




Hydraulic Symbol

## Description & Operation

These valve are used to adjust speed of actuators in one direction; flow is free in the reverse. Pressure compensation is not provided, flow rate depends ion pressure and oil viscosily.
Connect V to the pressure flow and C to the actuator to be controlled. The flow is adjusted from C to V and free in the reverse direction. When used on actuators with double pilot check valves, the VRF has to be mounted between the actuator and the doublepilot check valve. Flow adjustemnts are made by rotating the couping: clockwise rotation increases the flow and vice versa. Once the flow has been set, tighten the lock nut in order to keep the desired setting in case of vibrations.

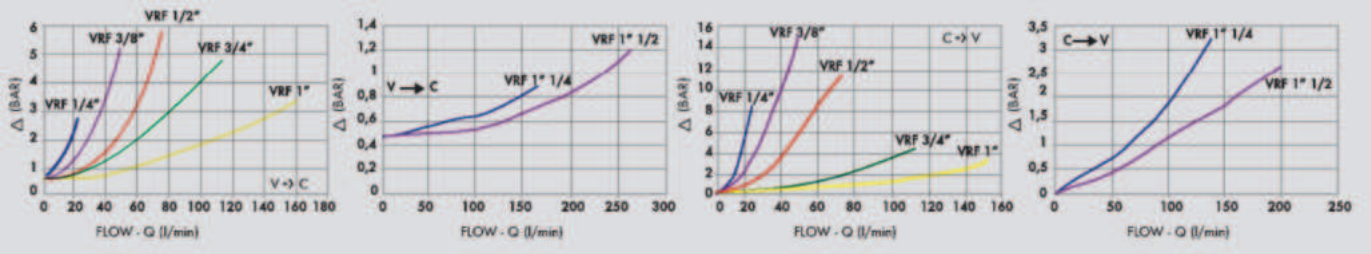
## Technical Data

| | |
|---|---|
| Maximum Flow | 280 LPM |
| Maximum Pressure | 300 Bar |
| Body Material | Steel |
| Internal parts | Hardened and Ground steel |
| External Component treatment | Zn/Fe - standard (96h) / Zn/Ni (720h) |
| Oil Temperature | 50 Deg. C |
| Fluids | Mineral based or synthetics with lubricating properties |
| Viscosity | 30 cSt |
| Standard Sealing | NBR-Buna N |
| Filteration | 20/18/15 ISO 4406 ( Max. Filteration admitted) |
| Orientation / Mounting | Inline |
| Weight | See Ordering details |

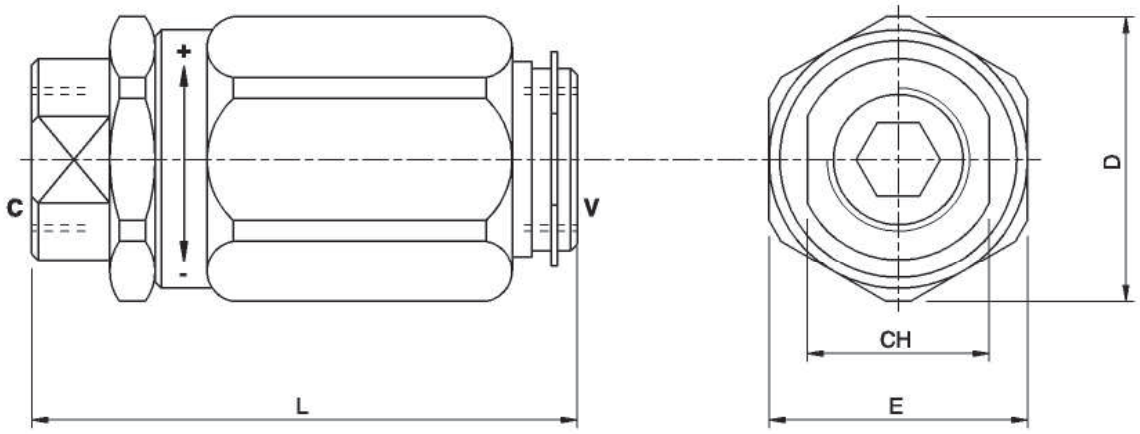
## Specifications

| Type | Max.Flow | Max.Pressure | Cr.Pressure |
|---|---|---|---|
| | LPM | Bar | Bar |
| VRF 1/4" | 20 | 300 | 0.5 |
| VRF 3/8" | 45 | 300 | 0.5 |
| VRF 1/2" | 70 | 300 | 0.5 |
| VRF 3/4" | 110 | 250 | 0.5 |
| VRF 1" | 160 | 250 | 0.5 |
| VRF 1" 1/4 | 210 | 230 | 0.5 |
| VRF 1" 1/2 | 280 | 230 | 0.5 |

## Performance Curve




## Dimensional Drawing




## Ordering Details

| Code | Type | V-C | L | E | CH | D | Weight |
|---|---|---|---|---|---|---|---|
| | | GAS | mm | mm | mm | mm | Kg |
| R-V0540 | VRF 1/4" | G1/4" | 66.5 | 30 | 19 | 34 | 0.274 |
| R-V0550 | VRF 3/8" | G 3/8" | 73 | 32 | 24 | 36 | 0.330 |
| R-V0560 | VRF 1/2" | G1/2" | 80 | 38 | 27 | 42 | 0.484 |
| R-V0570 | VRF 3/4" | G3/4" | 95 | 46 | 32 | 51 | 0.824 |
| R-V0580 | VRF 1" | G 1" | 109 | 55 | 41 | 60 | 1.314 |
| R-V0578 | VRF 1" 1/4" | G 1 1/4" | 135 | 80 | 55 | 85 | 3.310 |
| R-V0579 | VRF 1" 1/2" | G 1 1/2" | 149.5 | 90 | 62 | 95 | 4.760 |