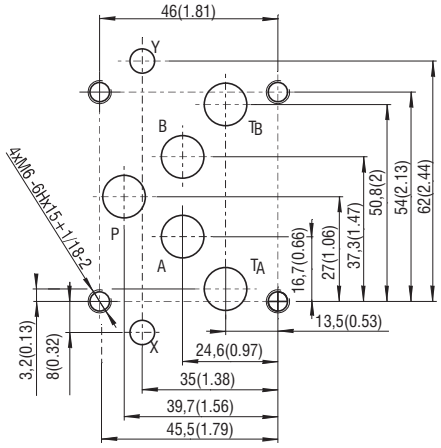
ARGO HYTOS

Pilot to Open Operated Check Valve, Poppet Type, Modular

VJR3-10/M

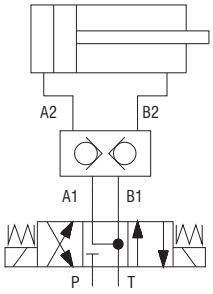
Size 10 (D05) • Q_{max} 140 l/min (37 GPM) • p_{max} 350 bar (5100 PSI)

ISO 4401-05-04-0-05



Ports P, A, B, T - max. ∅11,2 mm (0.44 in)

Typical circuit with pilot operated check valve

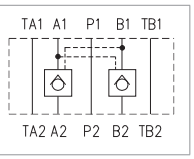


Technical Features

- Pilot to open operated check valve, poppet type with subplate mounting surface acc. to ISO 4401, DIN 24340 (CETOP 05) standards
- Sandwich plate design for use in vertical stacking assemblies
- Sharp-edged ground steel seats for for dirt-tolerant performance
- Leak-free closing and suitable for fast cycling with long life
- High flow capacity
- Valve is fitted with decompression stage facilitating steady opening without pressure peaks
- In the standard version, the valve housing is phosphated and steel parts zinc coated for 240 h protection acc. to ISO 9227

Functional Description

The valve allows flow to pass from port A(B)1 to A(B)2 while normally closing flow from A(B)2 to A(B)1 with load. When pressure is applied at pilot port. The flow passes from port 2 to 1. The valve has a 6:1 pilot ratio. The check valve is also spring closed to secure holding position in static conditions without the load. The valve is offered with optional bias spring ranges for back-pressure control.

Symbol	

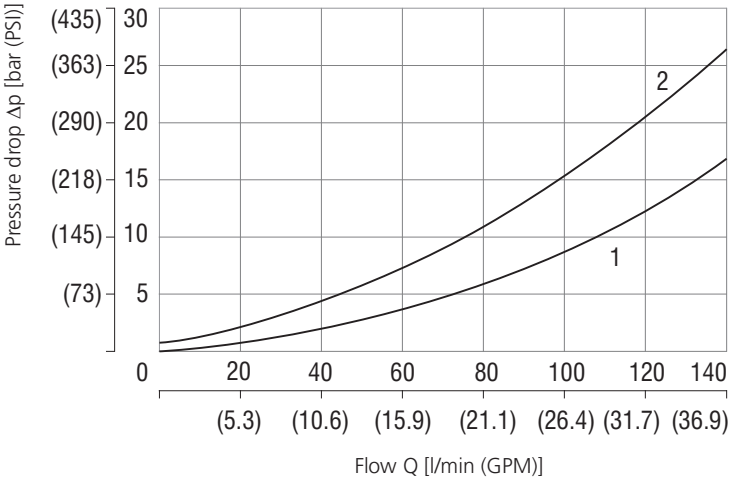
Technical Data

Valve size		10 (D05)
Max. flow	l/min (GPM)	140 (37)
Max. operating pressure	bar (PSI)	350 (5080)
Cracking pressure	bar (PSI)	2 (29)
Fluid temperature range (NBR)	°C (°F)	-30 .... +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 .... +120 (-4 ... +248)
Pilot ratio		6:1
Weight	kg (lbs)	2.2 (4.85)

	Datasheet	Type
General information	GI_0060	products and operating conditions
Mounting interface / tolerances	SMT_0019	Size 10
Spare parts	SP_8010	

Characteristics measured at ν = 32 mm²/s (156 SUS)

Pressure drop related to flow rate

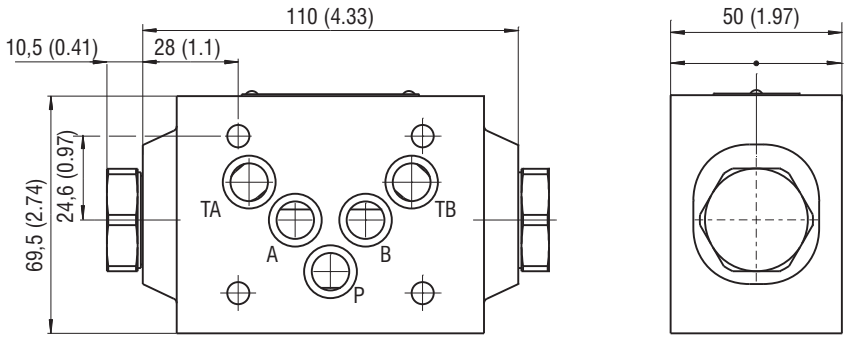


	Flow direction
1	A1→A2 (B1→B2)
2	A2→A1 (B2→B1)

Snijder Filtertechniek bv

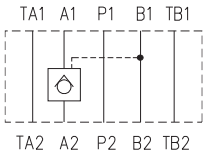
Dimensions in millimeters (inches)

Model "C„

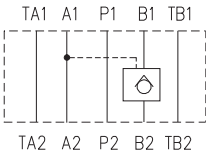


Functional symbols

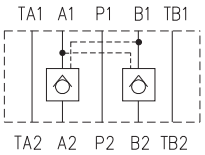
VJR3-10/MA



VJR3-10/MB



VJR3-10/MC



① valve side

② subplate or manifold side

Notes: The orientation of the symbol on the name plate corresponds with the valve function.

Ordering Code

VJR3-10 / M □ □ - □ □ - □

Check valve, pilot to open, poppet type, modular

Valve size

Modular sandwich plate design

Functional symbols

Check valve in line A	**A**
Check valve in line B	**B**
Check valve in line A and B	**C**

Pilot ratio

6:1	**6**

020 — **Cracking pressure** 2.0 bar (29 PSI)

Seals

No designation	NBR
V	FPM (Viton)

Surface treatment

No designation	body phosphated, steel parts
	zinc-coated (ZnCr-3), ISO9227 (240 h)
A	zinc-coated (ZnCr-3), ISO 9227 (240 h)
B	zinc-coated (ZnNi), ISO 9227 (520 h)