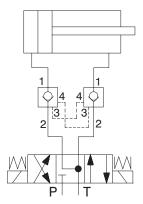
Check Valve, Ball Type, Pilot to Open

RJV1-05

M24 x 1.5 • Q_{max} 20 l/min (5 GPM) • p_{max} 250 bar (3600 PSI)



Hydraulic circuit with two pilot operated check valves. If pressured, the respective valve will pilot the other to open, thereby enabling cylinder motion in both directions. Without pressure at either valve, the cylinder is locked in place. (see application picture)

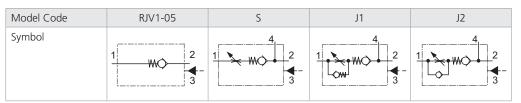
Technical Features

- > Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for fast cycling with long life
- > High flow capacity
- > Optional sealed piston and flow restrictor integrated in hollow bolt
- > Design suitable for direct cylinder mounting through hollow bolt
- In the standard version the valve body is phosphated. The steel parts are zinc coated (240 h corrosion protection in NSS acc. to ISO 9227)

Functional Description

The valve allows flow to pass from port 2 to 1 while under load normally inhibiting flow from 1 to 2. When pressure is applied at port 3, flow passes from port 1 to 2.

The cartridge valve has a pilot ratio of 5.76:1, meaning that a minimum of 17 % of the load pressure must be applied at port 3 to open the valve. The check valve is spring closed to secure the holding position in static conditions and without load. The valve is optionally offered with a sealed piston and a flow restrictor valve. Port 4 is available for use in double acting applications using two pilot operated check valves.



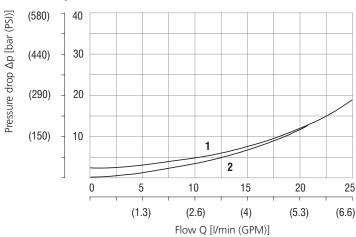
Technical Data

Valve size / Cartridge cavity	M24 x 1.5 / QI3			
Max. flow	l/min (GPM)	20 (5.3)		
Max. operating pressure	bar (PSI)	250 (3630)		
Pilot ratio		5.76:1		
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)		
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)		
Weight of the cartridge valve	kg (lbs)	0.08 (0.18)		
Weight of the cartridge valve with body	kg (lbs)	1.6 (3.53)		

	Datasheet	Туре
General information	GI_0060	Products and operating conditions
Cavity details	SMT_0019	SMT-QI3*
Spare parts	SP_8010	

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate



1	free flow $(2\rightarrow 1)$
2	pilot open (1→2)

RGO

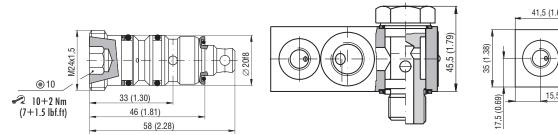


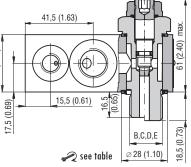


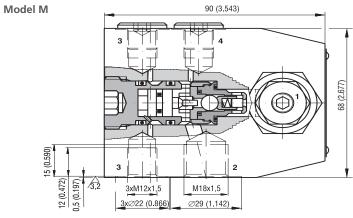
Dimensions in millimeters (inches)

Cartridge valve RJV1-05

Model with body and hollow bolt RJV1-05*M(G)/* S, J1, J2







Model G		Γ		125	
	13 (0.512)		3	\ \ 2	
	\sim	3,2	<u>3xG1/4</u> 3x⊘20(0.787)	G3/8 Ø23(0.906 90 (3.543)	

Туре	Port size	Ø D max mm (in)	Tightening torque Nm (ft-lbf)
В	M18 x 1.5	18 ^{+0,2}	30+3
	WITO X 1.5	(0.708 / 0.716)	(22.13+2.21)
C	M22 x 1.5	22+0,2	70+5
C	IVIZZ X 1.5	(0.866 / 0.874)	(51.63+3.69)
D	G 1/2	21+0,2	70+5
D		(0.826 / 0.834)	(51.63+3.69)
F	G 3/8	16,6+0,2	25+3
E		(0.653 / 0.661)	(18.43+2.21)

Ordering Code

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	RJV1-05	/]-	
Check valve, pilot to open, ball type					No desigi A B	Surface treatment nation body and flow restrictor phosphated, check valve black-coated and hollow bolt zinc-coated (ZnCr-3), ISO 9227 (240 h) parts zinc-coated (ZnCr-3), ISO 9227 (240 h) parts zinc-coated (ZnNi), ISO 9227 (520 h)
Valve size					No designation V	Seals NBR FPM (Viton)
Pilot piston seal with seal without seal with seal	No designation 0			No de S J1 J2	esignation with flc	Hollow bolt only for models with valve body without flow restrictor with flow restrictor VSVJ with flow restrictor VSVJ01 and check valve ow restrictor VSVJ1 and check valve - reversed
Model Cartridge valve with body - metric threads with body - BSP threads	No designation M G		B C D E			Hollow bolt threads only for models with valve body M18 x 1.5 M22 x 1.5 G 1/2 G 3/8