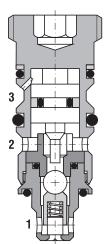
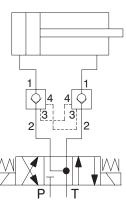
## **RJV1-05**

M24 x 1.5 • Q<sub>max</sub> 20 l/min (5 GPM) • p<sub>max</sub> 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)

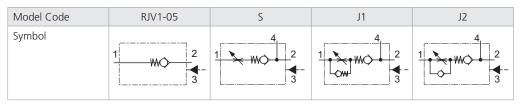
### **Technical Features**

- > 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.



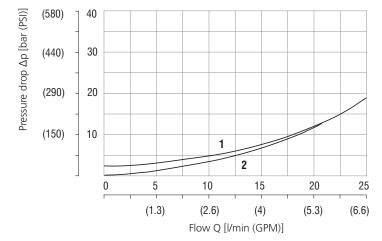
#### **Technical Data**

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



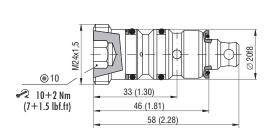
1	free flow (2→1)
2	pilot open (1→2)

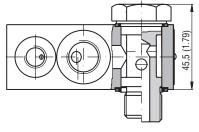
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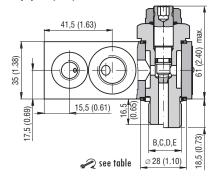


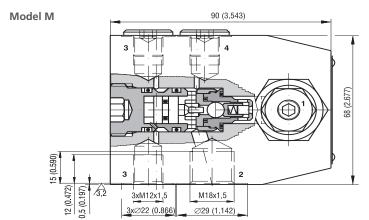
#### Cartridge valve RJV1-05

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

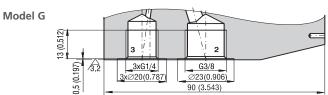




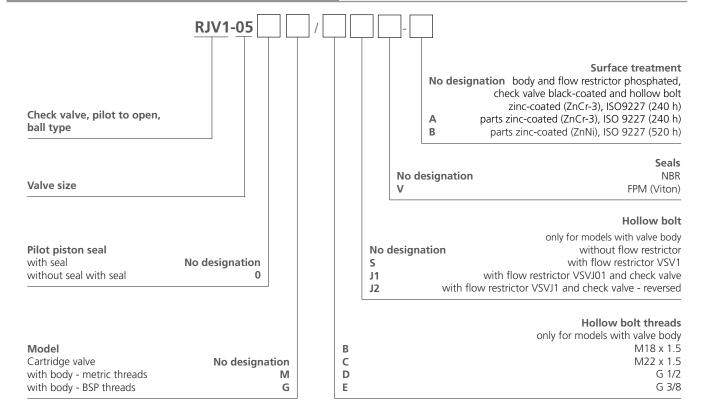




Туре	Port size	Ø D max mm (in)	Tightening torque Nm (ft-lbf)
В	M18 x 1.5	18 <sup>+0,2</sup> (0.708 / 0.716)	30+3 (22.13+2.21)
С	M22 x 1.5	22 <sup>+0,2</sup> (0.866 / 0.874)	70+5 (51.63+3.69)
D	G 1/2	21 <sup>+0,2</sup> (0.826 / 0.834)	70+5 (51.63+3.69)
Е	G 3/8	16,6 <sup>+0,2</sup> (0.653 / 0.661)	25+3 (18.43+2.21)



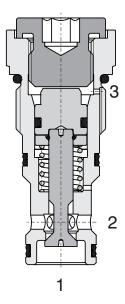
# **Ordering Code**



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# SC5H-BP3

7/8-14 UNF • Q<sub>max</sub> 60 l/min (16 GPM) • p<sub>max</sub> 420 bar (6100 PSI)



### **Technical Features**

- Hardened and precision working parts
- Sharp-edged ground steel seats for dirt-tolerant performance
- > Leak-free closing and suitable for fast cycling with long life
- High flow capacity
- Optional sealed piston and bias spring ranges for back-pressure control
- In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

## **Functional Description**

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

The cartridge valve has a 3:1 pilot ratio. This require minimum one-third of the load pressure applied at port 3 to open the valve. The check valve is also spring closed to secure holding position in static conditions without the load.



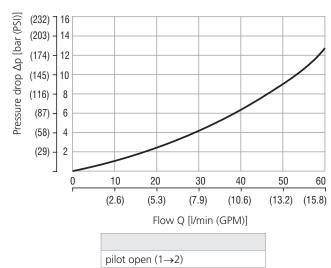
## **Technical Data**

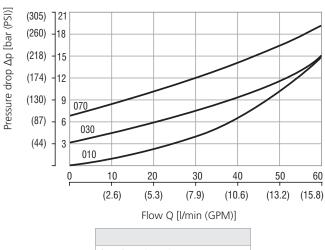
Valve size / Cartridge cavity		7/8-14 UNF-2A - LONG / BP3 (C-10-3S)
Max. flow	l/min (GPM)	60 (15.8)
Max. operating pressure	bar (PSI)	420 (6090)
Pilot ratio		3:1
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Weight	kg (lbs)	0.13 (0.29)

		Datasheet	Туре
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-BP3*
	Sandwich mounted	SB-04(06)_0028	SB-BP3*
Cavity details		SMT_0019	SMT-BP3*
Spare parts		SP_8010	

### **Characteristics** measured at $v = 40 \text{ mm}^2/\text{s}$ (195 SUS)

### Pressure drop related to flow rate

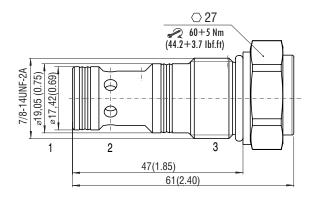




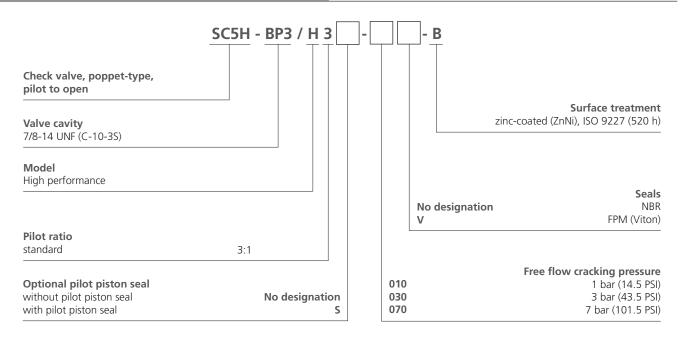
free flow  $(2\rightarrow 1)$ 

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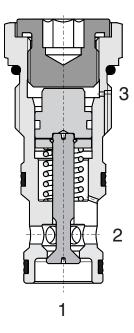
# **Ordering Code**



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# SC5H-CP3

1-1/16-12 UN • Q<sub>max</sub> 120 l/min (32 GPM) • p<sub>max</sub> 350 bar (5100 PSI)



### **Technical Features**

- > Hardened and precision working parts
- > Sharp-edged ground steel seats for dirt-tolerant performance
- > Leak-free closing and suitable for fast cycling with long life
- > High flow capacity
- > Optional sealed piston and bias spring ranges for back-pressure control
- > In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

## **Functional Description**

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

The cartridge valve has a 3:1 pilot ratio. This require minimum one-third of the load pressure applied at port 3 to open the valve. The check valve is also spring closed to secure holding position in static conditions without the load.



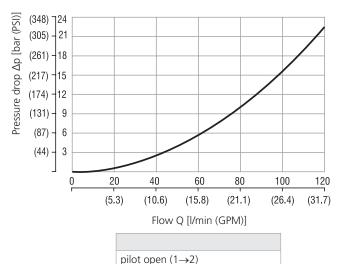
## **Technical Data**

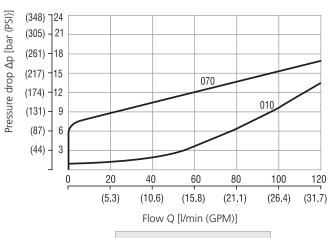
Valve size / Cartridge cavity		1-1/16-12 UN-2A / CP3
Max. flow	l/min (GPM)	120 (31.7)
Max. operating pressure	bar (PSI)	350 (5080)
Pilot ratio		3:1
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Weight	kg (lbs)	0.22 (0.49)

		Datasheet	Туре
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-CP3*
	Sandwich mounted	SB-04(06)_0028	SB-CP3*
Cavity details		SMT_0019	SMT-CP3*
Spare parts		SP_8010	

### **Characteristics** measured at $v = 40 \text{ mm}^2/\text{s}$ (195 SUS)

### Pressure drop related to flow rate

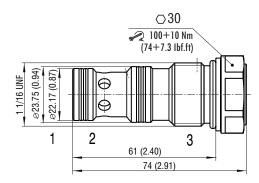




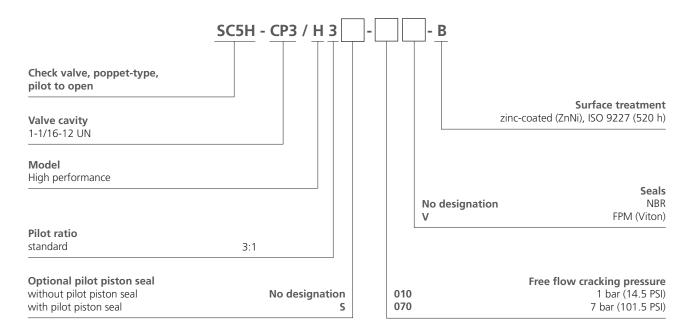
free flow (2→1)

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# **Ordering Code**



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