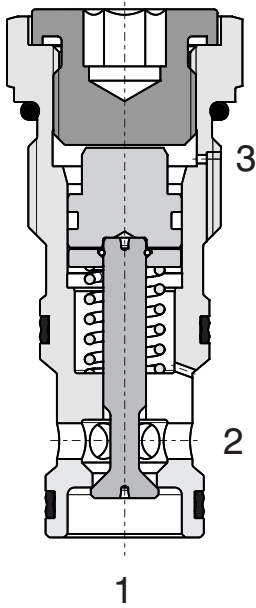


Check Valve, Poppet-type, Pilot to Open

SC5H-CP3

1-1/16-12 UN • Q_{max} 120 l/min (32 GPM) • p_{max} 350 bar (5100 PSI)

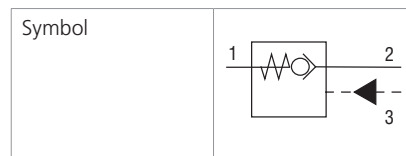


Technical Features

- › 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 pilot ratio (ratio of piston area to seat area) defines the minimum ratio of opening pressure (3) to load pressure (1). The check valve is also spring closed to secure holding position in static conditions without the load.



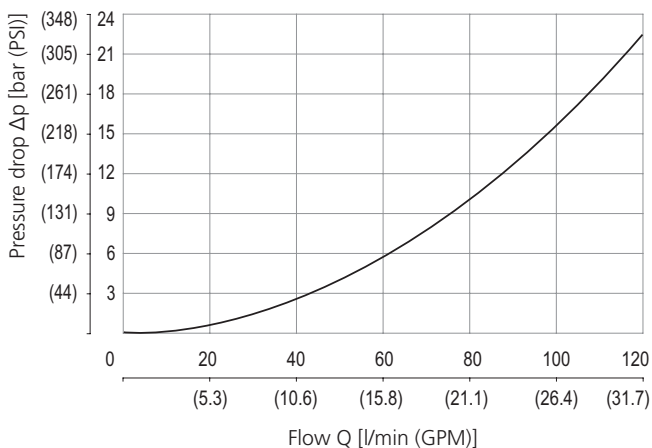
Technical Data

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	5:1
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)	

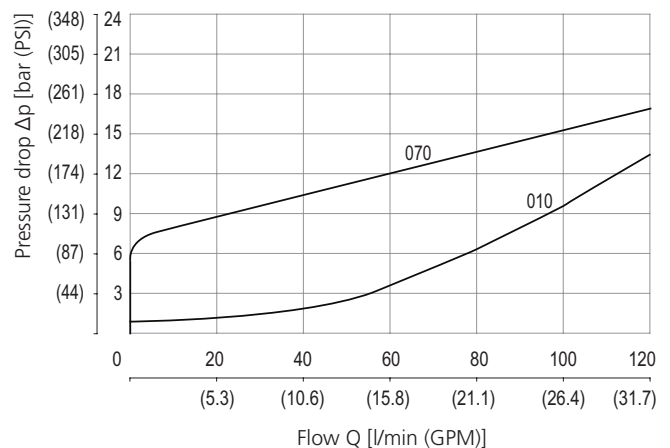
General information		Datasheet	Type
		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-CP3*
	Sandwich mounted	SB-04(06)_0028	SB-CP3*
Cavity details		SMT_0019	SMT-CP3*
Spare parts		SP_8010	

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

Pressure drop related to flow rate for pilot ratio 3:1



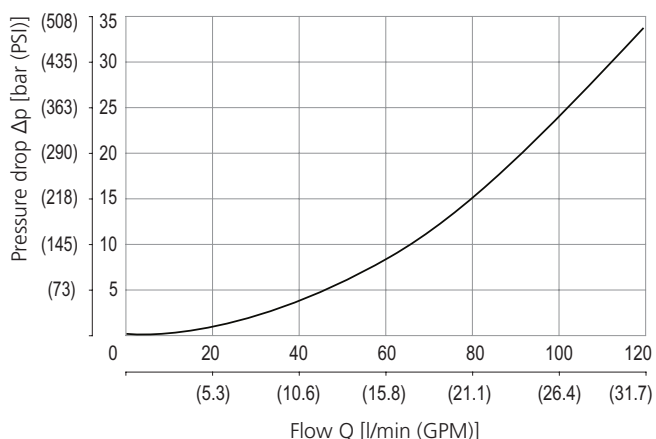
pilot open (1→2)



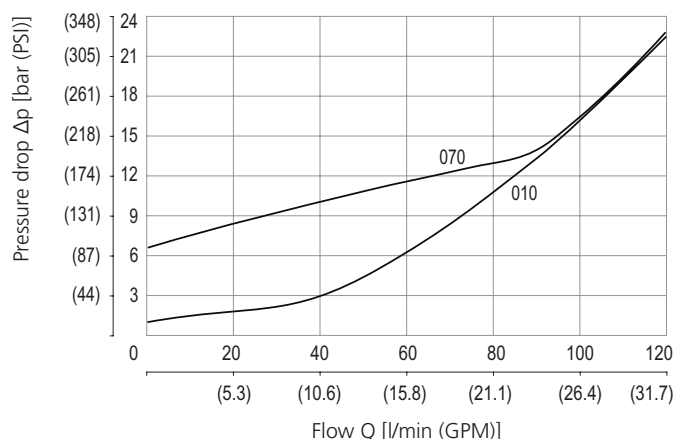
free flow (2→1)

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

Pressure drop related to flow rate for pilot ratio 5:1

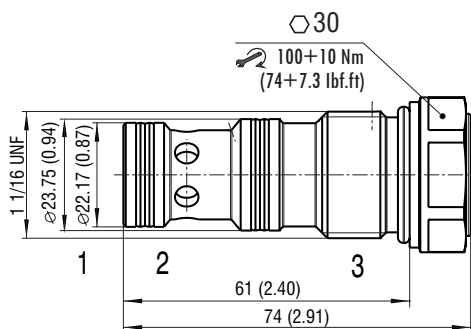


pilot open (1→2)



free flow (2→1)

Dimensions in millimeters (inches)



Ordering Code

SC5H - CP3 / H - - **B**

Check valve, poppet-type,
pilot to open

Valve cavity
1-1/16-12 UN

Model
High performance

Pilot ratio
3:1
5:1

Optional pilot piston seal
without pilot piston seal
with pilot piston seal

No designation
S

010
070

Surface treatment
zinc-coated (ZnNi), ISO 9227 (520 h)

No designation
V

Seals
NBR
FPM (Viton)

Free flow cracking pressure
1 bar (14.5 PSI)
7 bar (101.5 PSI)