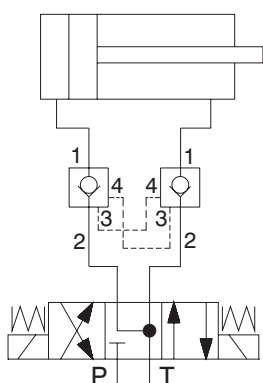
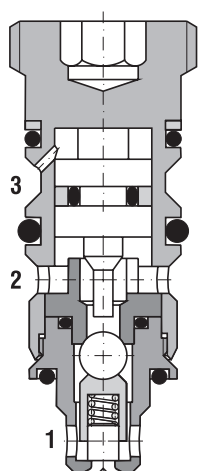


Check Valve, Ball Type, Pilot to Open

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.

Model Code	RJV1-05	S	J1	J2
Symbol				

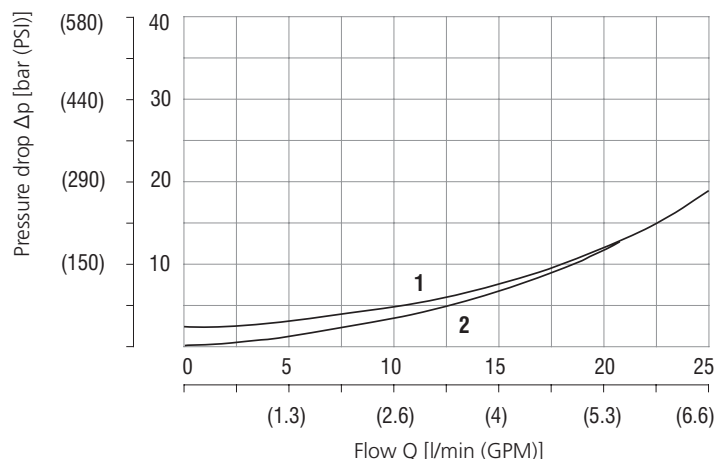
Technical Data

Valve size / Cartridge cavity		M24 x 1.5 / Q13
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	Type
General information	GI_0060	Products and operating conditions
Cavity details	SMT_0019	SMT-Q13*
Spare parts	SP_8010	

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

Pressure drop related to flow rate

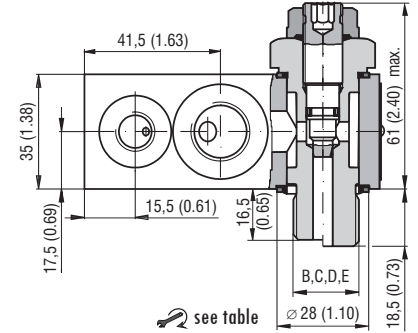
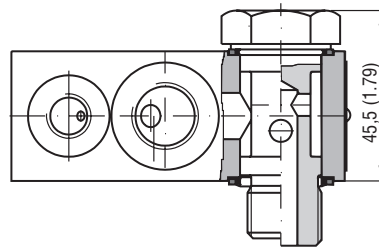
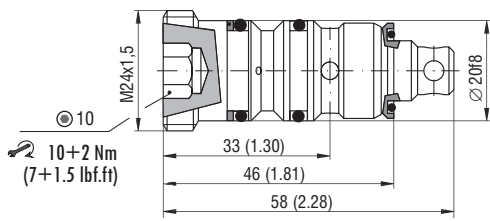


1	free flow (2→1)
2	pilot open (1→2)

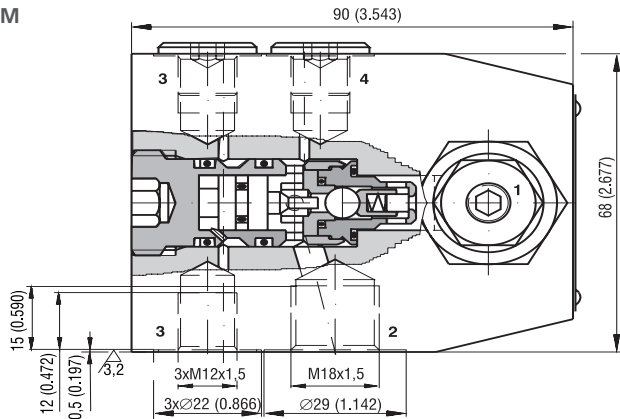
Dimensions in millimeters (inches)

Cartridge valve RVJ1-05

Model with body and hollow bolt RVJ1-05*M(G)/* S, J1, J2

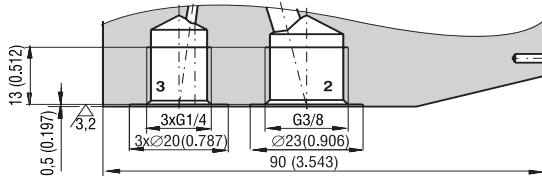


Model M



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

Model G



Ordering Code

RVJ1-05 / -

Check valve, pilot to open, ball type

Valve size

Pilot piston seal
with seal
without seal with seal

Model
Cartridge valve
with body - metric threads
with body - BSP threads

No designation
0

No designation
M
G

Surface treatment
No designation body and flow restrictor phosphated, check valve black-coated and hollow bolt zinc-coated (ZnCr-3), ISO9227 (240 h)
A parts zinc-coated (ZnCr-3), ISO 9227 (240 h)
B parts zinc-coated (ZnNi), ISO 9227 (520 h)

Seals
No designation NBR
V FPM (Viton)

Hollow bolt
only for models with valve body
No designation without flow restrictor
S with flow restrictor VSV1
J1 with flow restrictor VSVJ01 and check valve
J2 with flow restrictor VSVJ1 and check valve - reversed

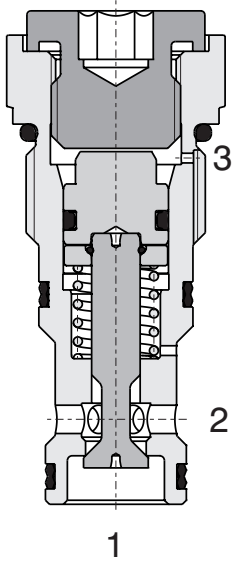
Hollow bolt threads
only for models with valve body
M18 x 1.5
M22 x 1.5
G 1/2
G 3/8

B
C
D
E

Check Valve, Poppet-type, Pilot to Open

SC5H-BP3

7/8-14 UNF • Q_{max} 60 l/min (16 GPM) • p_{max} 420 bar (6100 PSI)

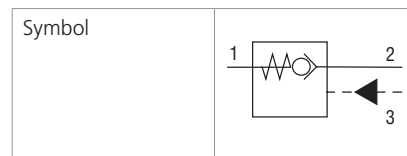


Technical Features

- › 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.



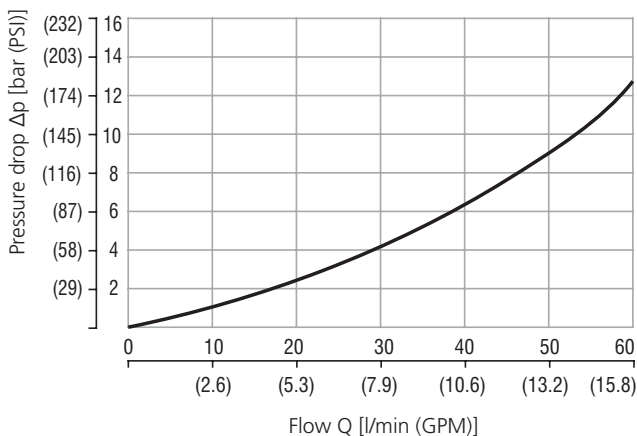
Technical Data

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)

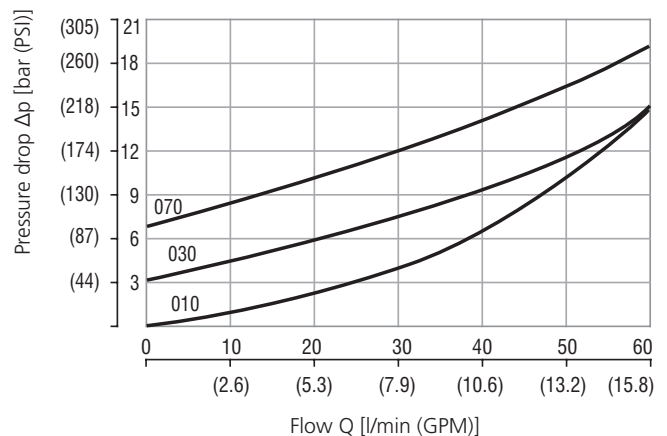
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-BP3*
	Sandwich mounted	SB-04(06)_0028	SB-BP3*
Cavity details		SMT_0019	SMT-BP3*
Spare parts		SP_8010	

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

Pressure drop related to flow rate

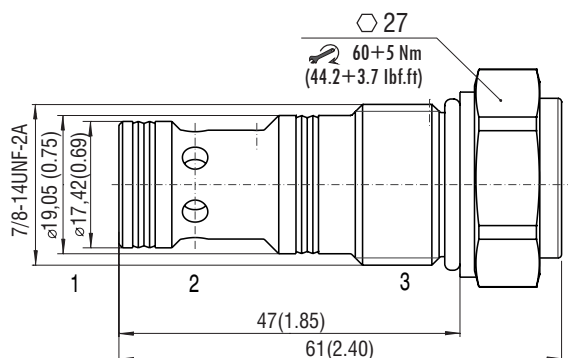


pilot open (1→2)



free flow (2→1)

Dimensions in millimeters (inches)



Ordering Code

SC5H - BP3 / H 3 - - B

Check valve, poppet-type, pilot to open

Valve cavity
7/8-14 UNF (C-10-3S)

Model
High performance

Pilot ratio
standard 3:1

Optional pilot piston seal
without pilot piston seal No designation
with pilot piston seal S

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

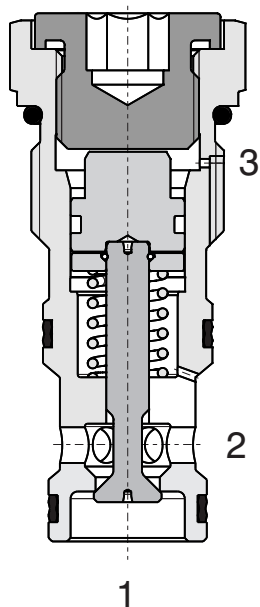
No designation
V Seals
NBR
FPM (Viton)

Free flow cracking pressure
010 1 bar (14.5 PSI)
030 3 bar (43.5 PSI)
070 7 bar (101.5 PSI)

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)

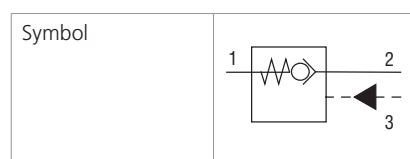


Technical Features

- › 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 cartridge valve has a 3:1 pilot ratio. This requires 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.



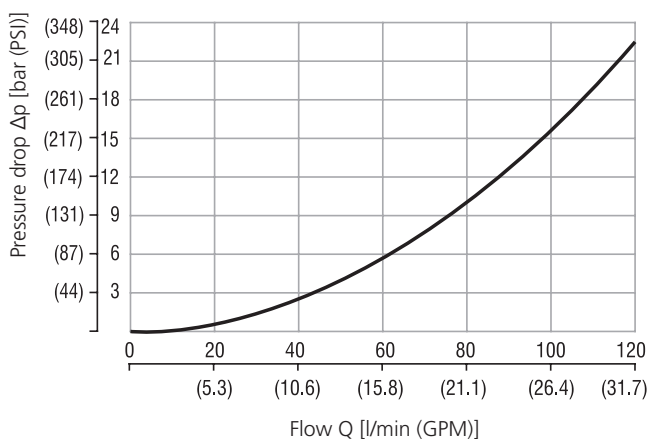
Technical Data

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)

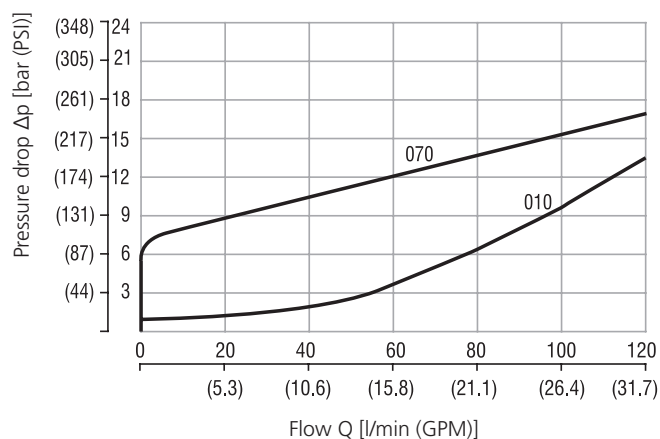
		Datasheet	Type
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-CP3*
	Sandwich mounted	SB-04(06)_0028	SB-CP3*
Cavity details		SMT_0019	SMT-CP3*
Spare parts		SP_8010	

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

Pressure drop related to flow rate

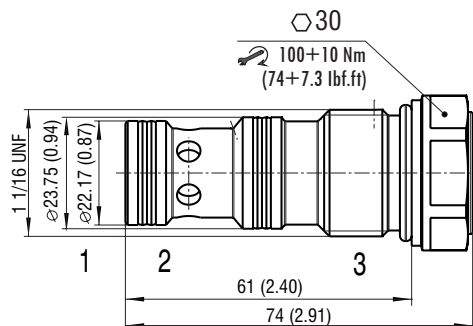


pilot open (1→2)



free flow (2→1)

Dimensions in millimeters (inches)



Ordering Code

SC5H - CP3 / H 3 - - B

Check valve, poppet-type, pilot to open

Valve cavity
1-1/16-12 UN

Model
High performance

Pilot ratio
standard

3:1

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

No designation
S

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

No designation
V

Seals
NBR
FPM (Viton)

010
070

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

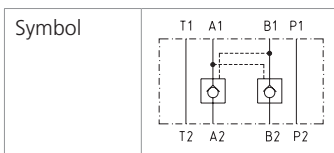


Technical Features

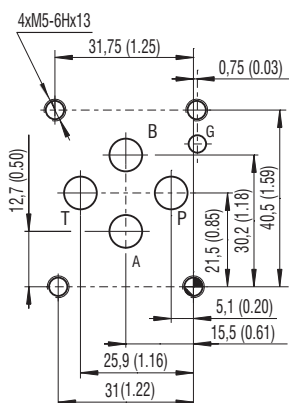
- › Pilot to open check valve, poppet type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- › Sandwich plate design for use in vertical stacking assemblies
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › High flow capacity
- › Optional bias spring ranges for back-pressure control
- › Three pilot ratios available
- › In the standard version, the valve housing is phosphated and steel parts are 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 three pilot ratios option. This requires at least one-third (ratio 3:1), one-sixth (ratio 6:1) or one-ninth (ratio 9:1) of the load pressure to be applied at the opposite port to open the valve. The check valve is spring closed to secure the holding position in static conditions and without load. The valve is offered with optional bias spring ranges for back-pressure control.

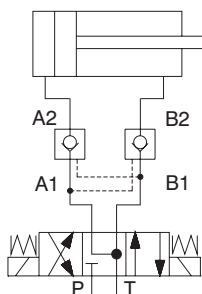


ISO 4401-03-02-0-05



Ports P, A, B, T max. \varnothing 7.5 mm (0.29 in)

Typical circuit with pilot operated check valve



Technical Data

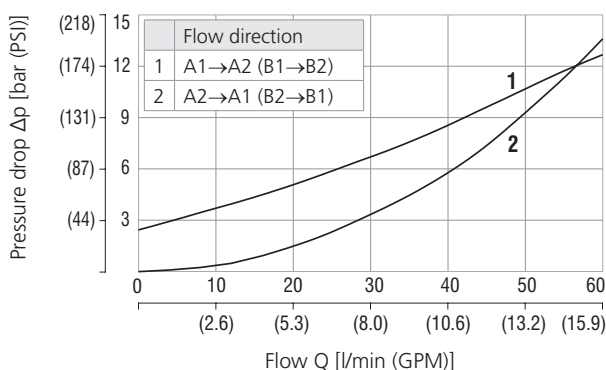
Valve size	06 (D03)	
Max. flow	l/min (GPM)	60 (15.9)
Max. operating pressure	bar (PSI)	320 (4640)
Cracking pressure	bar (PSI)	3 (43.5) 4 (58) 5 (72.5) 8 (116) 12 (174)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Pilot ratio	3:1 / 6:1 / 9:1	
Weight	kg (lbs)	0.8 (1.76)

	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	Size 06
Spare parts	SP_8010	

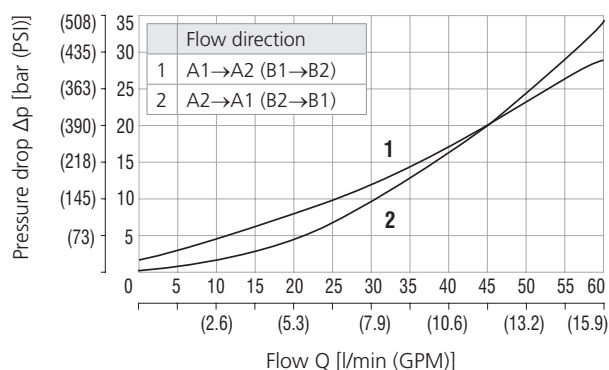
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate

Pilot ratio 3 : 1

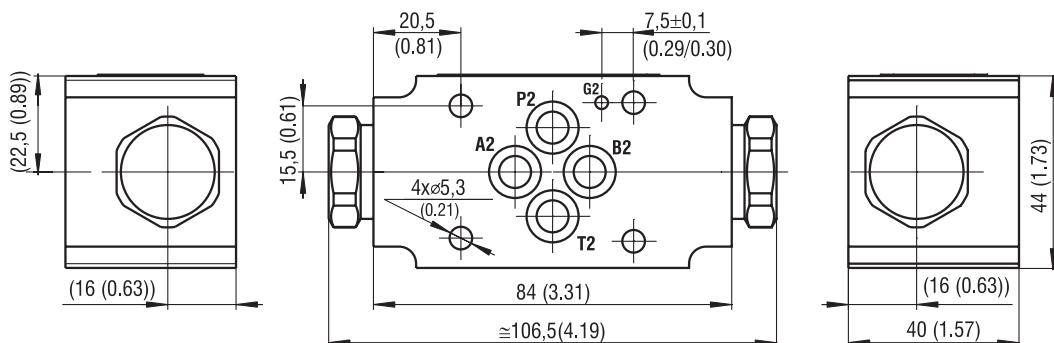


Pilot ratio 6 : 1

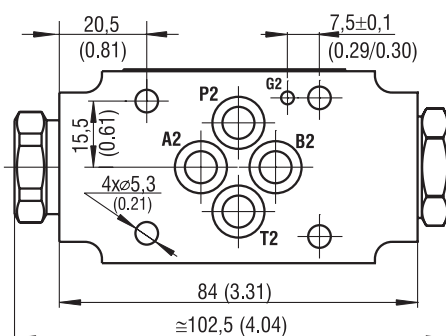


Dimensions in millimeters (inches)

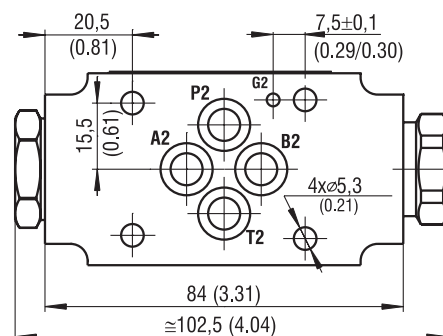
Model MC



Model MA

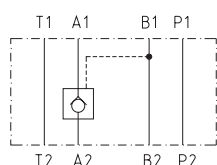


Model MB

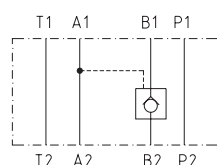


Functional symbols

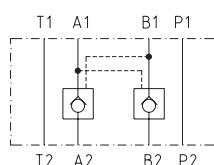
2RJV1-06/MA



2RJV1-06/MB



2RJV1-06/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

2RJV1 - 06 / M

Check valve, pilot to open, poppet type, modular

Valve size

Modular sandwich plate design

Functional symbols

check valve in line A
check valve in line B
check valve in line A and B

Pilot ratio

3 : 1 (for all cracking pressures except 2 bar) **3**
6 : 1 (only for cracking pressure 2 bar) **6**
9 : 1 (only for cracking pressure 0 bar and 3 bar) **9**

A
B
C

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)

Seals
No designation
V NBR
FPM (Viton)

Cracking pressure
000 (for all pilot ratios) no spring
020 (for pilot ratio 6 : 1) 2 bar (29.0 PSI)
030* (for pilot ratio 3 : 1 and 9 : 1) **3 bar (43.5 PSI)**
040 (for pilot ratio 3 : 1) 4 bar (58.0 PSI)
050 (for pilot ratio 3 : 1) 5 bar (72.5 PSI)
080 (for pilot ratio 3 : 1) 8 bar (116 PSI)
120 (for pilot ratio 3 : 1) 12 bar (174 PSI)

*Preferred type for pilot ratio 3 : 1 respective 9 : 1

Check Valve, Poppet-type, Pilot to Open, Modular

VJR1-04/M

Size 04 (D02) • Q_{max} 20 l/min (5 GPM) • p_{max} 320 bar (4600 PSI)



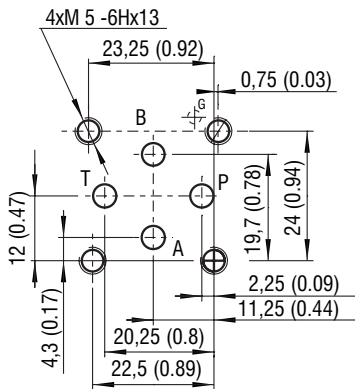
Technical Features

- › Pilot to open check valve, poppet-type with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02)
- › Sandwich plate design for use in vertical stacking assemblies
- › Sharp-edged steel seats for dirt-tolerant performance
- › Leak-free closing, suitable for fast cycling with long life
- › High flow capacity
- › In the standard version, the valve housing is phosphated and steel parts are zinc-coated for 240 h protection acc. to ISO 9227

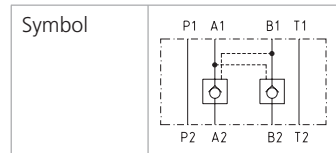
Functional Description

The valve allows flow to pass from port A(B)1 to A(B)2 while normally under load inhibiting flow from A(B)2 to A(B)1. When pressure is applied at the pilot port, the valve is opened and flow passes from port 2 to 1. The valve has a 3:1 pilot ratio, meaning that at least one third of the load pressure must be applied to open the valve. The check valve is spring closed to secure the holding position in static conditions and without load.

ISO 4401-02-01-0-05



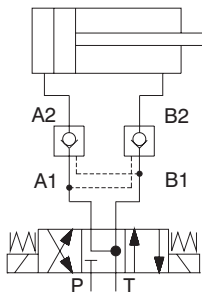
Ports P, A, B, T
max \varnothing 4.5 mm (0.18 in)



Technical Data

Valve size		04 (D02)
Max. flow	l/min (GPM)	20 (5.3)
Max. operating pressure	bar (PSI)	320 (4640)
Cracking pressure	bar (PSI)	1 (14.5)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Pilot ratio		3 : 1
Mass	kg (lbs)	0.7 (1.54)

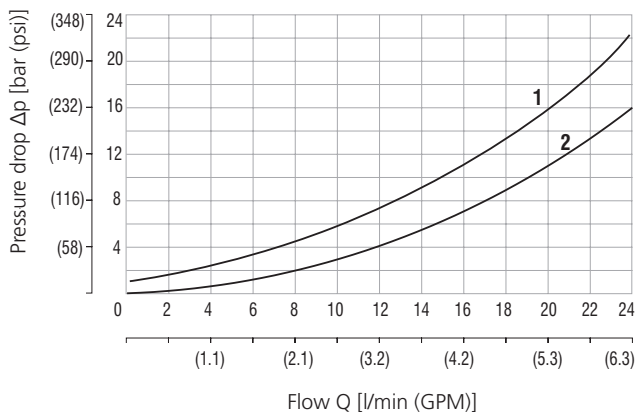
Typical circuit with pilot operated check valve



	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface / tolerances	SMT_0019	Size 04
Spare parts	SP_8010	

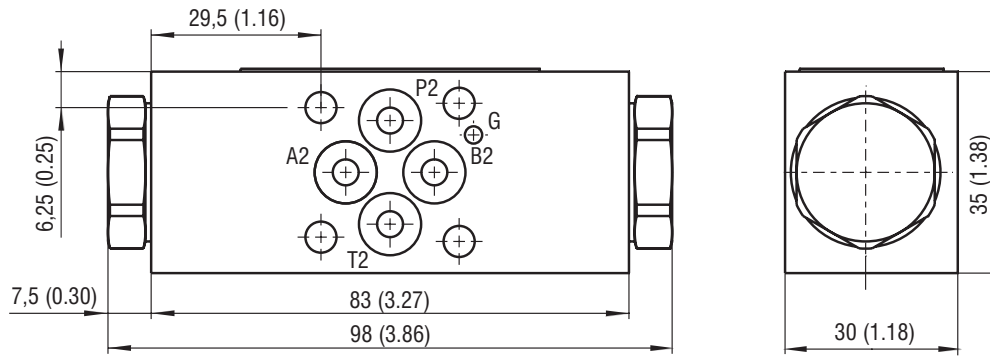
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate



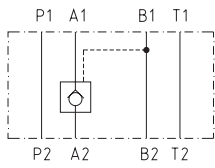
	Flow direction
1	A1→A2 (B1→B2)
2	A2→A1 (B2→B1)

Dimensions in millimeters (inches)

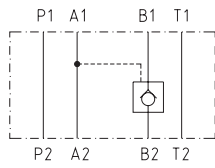


Functional symbols

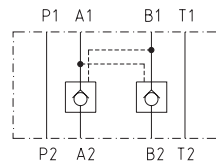
VJR1-04/MA



VJR1-04/MB



VJR1-04/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

VJR1-04 / M - -

Check valve, pilot to open, poppet-type, modular

Valve size

Modular sandwich plate design

Functional symbols

- check valve in line A
- check valve in line B
- check valve in line A and B

- A
- B
- C

Pilot ratio
3 : 1

3

Surface treatment

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

No designation
V

Seals
NBR
FPM (Viton)

Cracking pressure
1 bar (14.5 PSI)

010

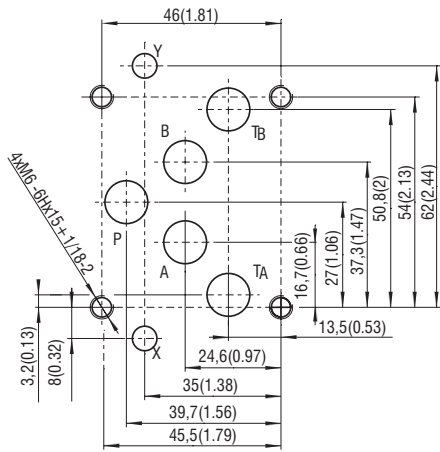
Pilot to Open Operated Check Valve, Poppet Type, Modular

VJR3-10/M

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

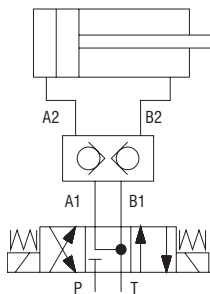


ISO 4401-05-04-0-05



Ports P, A, B, T - max. Ø11,2 mm (0.44 in)

Typical circuit with pilot operated check valve

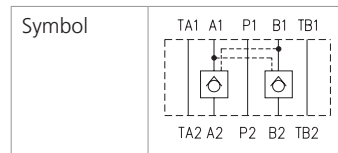


Technical Features

- › 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 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.

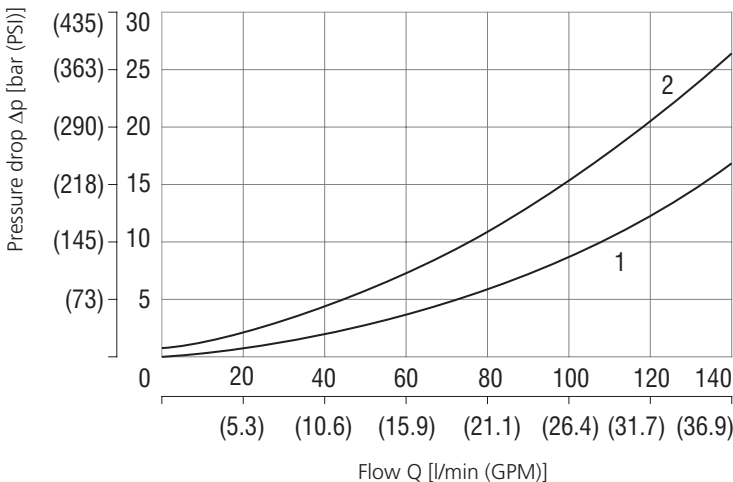


Technical Data

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 v = 32 mm²/s (156 SUS)

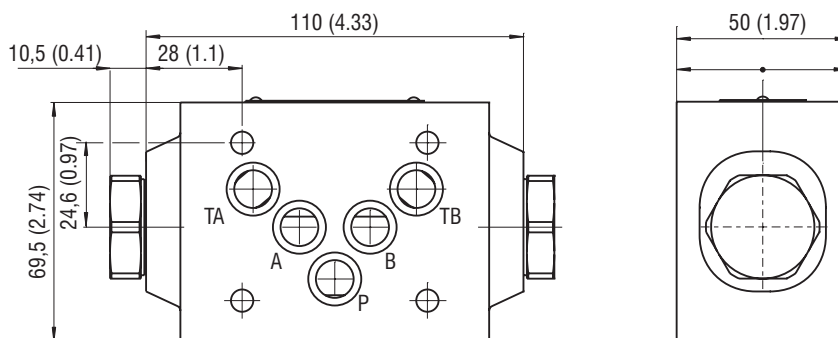
Pressure drop related to flow rate



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

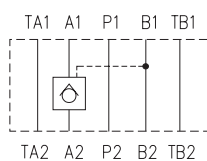
Dimensions in millimeters (inches)

Model "C,,

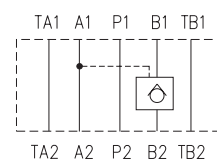


Functional symbols

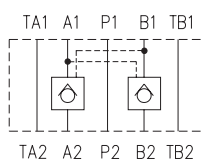
VJR3-10/MA



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
Check valve in line B
Check valve in line A and B

A
B
C

Pilot ratio

6:1

6

No designation

Surface treatment

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)

No designation

V

Seals

NBR
FPM (Viton)

Cracking pressure

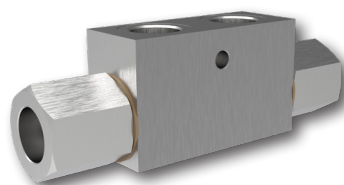
2.0 bar (29 PSI)

020

Pilot Operated Check Valve in In-Line Body

IC5H

Q_{max} 80 l/min (21 GPM) • p_{max} 350 bar (5100 PSI)



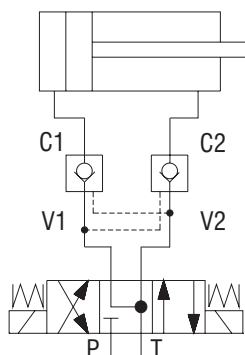
Technical Features

- › Hydraulic pilot operated check valve, poppet design, for simple in-line connection
- › Leak-free closing and long service life of built-in check valves thanks to used quality materials and hardened key components
- › High flow capacity at a low pressure drop
- › In the standard version the surface of body and valves is zinc coated for corrosion protection 240 h in NSS acc. to ISO 9227

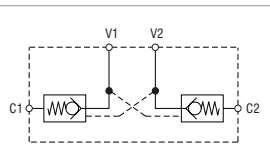
Functional Description

Check valves, built in in-line body, allow free flow from the pump to the actuator (direction V1→C1, V2→C2). In opposite direction from the consumer to the tank (direction C1→V1, C2→V2) the valves are mechanically opened by pilot pressure sensed in the second pipeline of actuator and acting on the face surface of special piston. The pilot operated check valves secure the position of loaded actuator when the pump is off, and the check valves are closed by pressure induced by load. The pilot ratio is a min. ratio of system and pilot pressure needed for opening the check valves. The basic position of valve cone is assured by weak spring.

Typical hydraulic circuit with a pilot operated check valve



Symbol



Technical Data

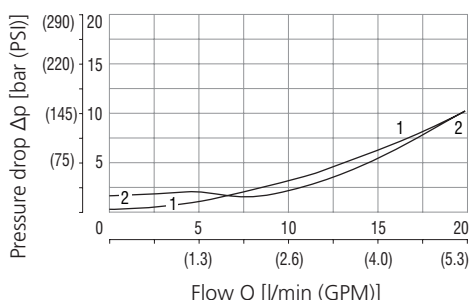
Maximal flow	l/min (GPM)	20 (5.3)	40 (11)	60 (16)	80 (21)
Connecting threads for fittings		G 1/4"	G 3/8"	G 1/2"	G 3/4"
Pilot ratio		6:1	6:1	4:1	3,5:1
Max. operating pressure	bar (PSI)	350 (5080)			
Cracking pressure of check valve	bar (PSI)	1 (14.5)			
Fluid temperature range	°C (°F)	-30 ... +80 (-22 ... +212)			
Weight (one-side valve „A“)	kg (lbs)	0.67 (1.48)	0.63 (1.39)	1.09 (2.40)	1.97 (4.34)
Weight (both-side valve „C“)	kg (lbs)	0.68 (1.50)	0.64 (1.41)	1.12 (2.47)	2.01 (4.43)

	Datasheet	Type
General information	GI_0060	Products and operating conditions

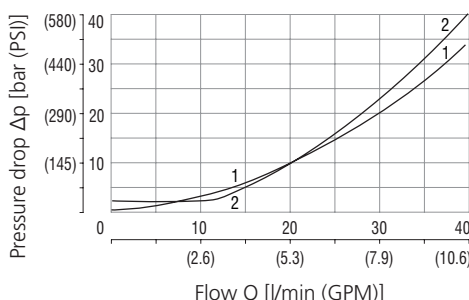
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Pressure drop related to flow rate

IC5H-20P/HA6-010-A

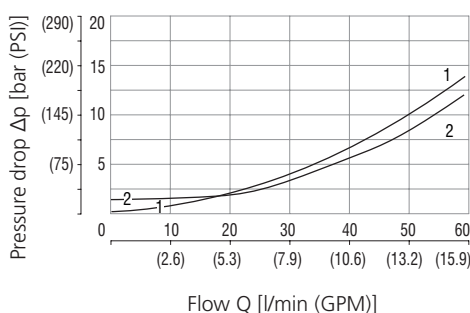


IC5H-40P/HA6-010-A

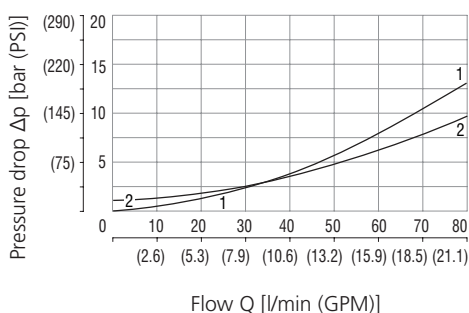


	Flow in direction
1	C1 → V1 (C2 → V2)
2	V1 → C1 (V2 → C2)

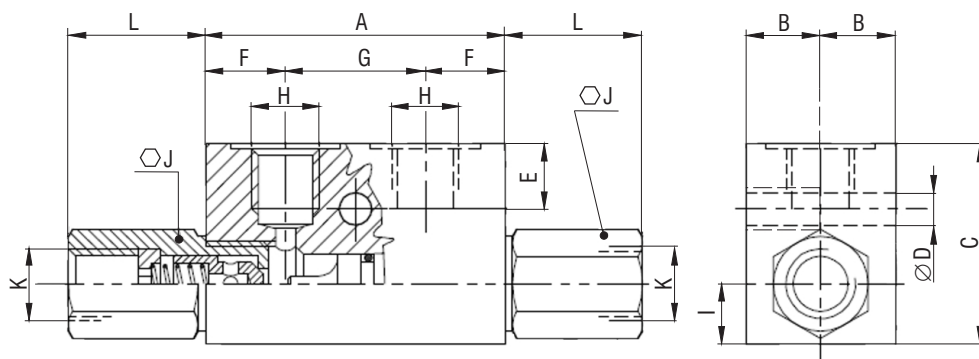
IC5H-60P/HA4-010-A



IC5H-80P/HA3-010-A



Dimensions in millimeters (in)

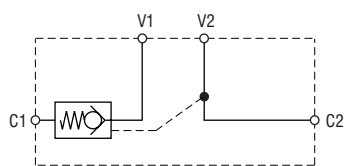


Dimension	IC5H-20P/H	IC5H-40P/H	IC5H-60P/H	IC5H-80P/H
A	64	64	80	100
B	15	15	17.5	20
C	40	40	50	60
ØD*	M8 x 1.25 – 15	M8 x 1.25 - 15	6.5	8.5
E	8	8	15	15
F	14	14	21	25
G	36	36	38	50
H	G 1/4"	G 3/8"	G 1/2"	G 3/4"
I	13	13	16	21
HEX J	22 (tightening torque 50 Nm)	22 (tightening torque 50 Nm)	27 (tightening torque 70 Nm)	38 (tightening torque 120 Nm)
K	G 1/4"	G 3/8"	G 1/2"	G 3/4"
L	27	27	32 / 26	41

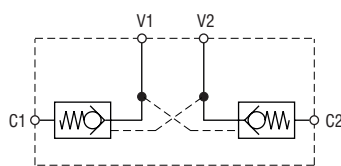
*Connecting thread M8 x 1.25 – 15 is machined only at the type IC5H-20P/H and IC5H-40P/H.
Other types are only provided with a through-going hole for fixing screw (ØD 6.5 / ØD 8.5 mm [0.26 / 0.34 in]).

Functional Symbols

IC5H-xxP/HA



ICPH-xxP/HC



Note: Thanks to symmetrical design the in-line body with a pilot operated check valve in 1-channel (IC5H-xxP/HA) can be used by exchanging 1 / 2 ports as the in-line body with pilot operated check valve in 2-channel (IC5H-xxP/HB)

Ordering Code

IC5H - [] P/H [] [] - 010 [] - A

<p>Pilot operated check valve in in-line body</p> <p>Maximal flow range 20 l/min (5 GPM) 20 40 l/min (11 GPM) 40 60 l/min (16 GPM) 60 80 l/min (21 GPM) 80</p> <p>Body connection rectangular</p> <p>Model High performance</p>	<p>Surface treatment zinc-coated (ZnCr-3), ISO 9227 (240 h)</p> <p>Seals NBR</p> <p>Cracking pressure of check valve 1 bar (14.5 PSI)</p> <p>Pilot ratio 3.5:1 4:1 6:1</p> <p>Valve design check valve built in 1-channel check valve built in 1 and 2-channel</p>
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List of manufactured types:

IC5H-20P/HA6-010-A
IC5H-20P/HC6-010-A
IC5H-40P/HA6-010-A
IC5H-40P/HC6-010-A
IC5H-60P/HA4-010-A
IC5H-60P/HC4-010-A
IC5H-80P/HA3-010-A
IC5H-80P/HC3-010-A

A
C