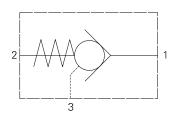
www.salushydraulics.pl pl@salushydraulics.pl

Pilot-to-close, ball type 30 L/min (8 USgpm) • 350 bar (5000 psi)

# Eaton 5CK30(120, 300)1S2



# Operation

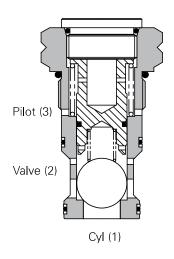
Pressure on the cylinder port causes the ball to lift against the spring force, allowing flow through to the valve port. Reverse flow is prevented by the ball reseating. Pressure applied to the pilot port will hold the ball against its seat, preventing flow from cylinder to valve.

#### **Features**

Easy flow path gives good pressure to flow characteristics and hardened components ensure a long working life. Cartridge construction allows installation in actuators, manifold blocks and Hydraulic Integrated Circuits. They fit the same cavities as the 4CK pilot-to-open check valves, so care should be taken when selecting the valve.

#### Sectional view

# Performance data



#### Ratings and specifications

natings and specifications		
Figures based on oil temperature of 40° C and viscosity of 32 cSt (150 SUS)		
Rated flow	30 L/min (8 USgpm)	
Maximum pressure	350 bar (5000 psi)	
Pilot ratio	2:1	
Cartridge material	Working parts hardened and ground steel. Zinc nickel plated body.	
Standard housing material	Standard aluminum (up to 210 bar). Add suffix "377" for steel option	
Mounting position	Unrestricted	
Cavity number	A6610 (See Section M)	
Torque cartridge into cavity	45 Nm (33 lbs. ft.)	
Weight	0.08 kg (0.18 lbs)	
Seal kit number	SK829 (Nitrile SK829V (Viton®)	
Recommended Filtration level	BS5540/4 Class 18/13 (25 micron nominal)	
Operating temperature	-30° to +90°C (-22° to +194°F)	
Leakage	0.3 ml/min nominal (5 dpm)	
Nominal viscosity range	5 to 500 cSt	

Viton is a registered trademark of E. I. DuPont

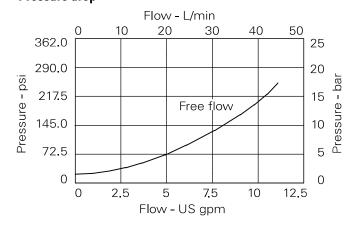
#### **Description**

G

Pilot to close check valves allow flow to pass in one direction, with a low pressure drop to prevent reverse flow. When the pilot pressure is applied, flow is prevented in either direction. The pilot ratio of 2:1 allows a lower pressure in the pilot line to hold the valve closed.

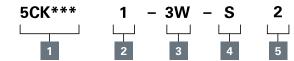
The 5CK series are check cartridges ideally suited for fitting directly onto a cylinder. They are ideal for use in regenerative circuits, accumulator dump circuits and in control of cylinders or motors.

## Pressure drop



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

#### Model code



1 Basic code

**5CK30** - Cartridge only **5CK35** - Cartridge & body

2 Pilot port size

1 - Internal Omit for line valves

# 3 Port size - bodied valves only

Port size Housing number		mber
	Aluminum	Steel
3/8" BSP 1/4" BSP Pilot Port	B6743	B12823
3/8" SAE 1/4" SAE Pilot Port	B10536	
1/2" SAE 1/4" Pilot Port		B11811
	3/8" BSP 1/4" BSP Pilot Port 3/8" SAE 1/4" SAE Pilot Port	Aluminum 3/8" BSP 1/4" BSP Pilot Port B6743 3/8" SAE 1/4" SAE Pilot Port B10536

# 4 Seals

- S Nitrile (for use with most industrial hydraulic oils)
- **SV** Viton (for high temperature and most special fluid applications)
- 5 Pilot ratio

**2** - 2:1

## **Dimensions**

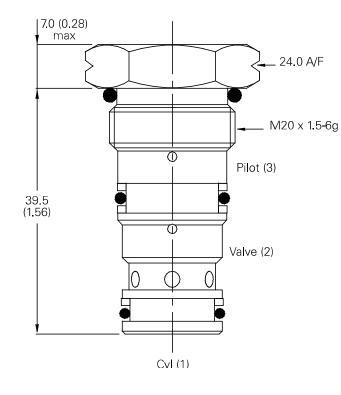
mm (inch)

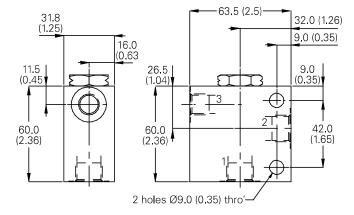
# Cartridge only

Basic code 5CK30

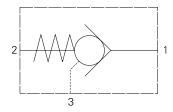
# Single valve

3/8", 1/2" Ports Basic code 5CK35





**Note:** For applications above 210 bar (3000 psi) please consult our technical department or use the steel body option.



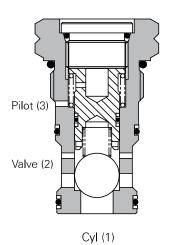
## **Operation**

Pressure on the cylinder port causes the ball to lift against the spring force, allowing flow through to the valve port. Reverse flow is prevented by the ball reseating. Pressure applied to the pilot port will hold the ball against its seat, preventing flow from cylinder to valve.

#### **Features**

Easy flow path gives good pressure to flow characteristics and hardened components ensure a long working life. Cartridge construction allows installation in actuators, manifold blocks and Hydraulic Integrated Circuits. They fit the same cavities as the 4CK pilot-to-open check valves, so care should be taken when selecting the valve.

#### Sectional view



#### Performance data

#### Ratings and specifications

Figures based on oil temperature of 40° C and viscosity of 32 cSt (150 SUS)		
Rated flow	120 L/min (32 USgpm)	
Maximum pressure	350 bar (5000 psi)	
Pilot ratio	2:1	
Cartridge material	Working parts hardened and ground steel. Zinc nickel plated body.	
Standard housing material	Standard aluminum (up to 210 bar*). Add suffix" 377" for steel option.	
Mounting position	Unrestricted	
Cavity number	A877	
Torque cartridge into cavity	100 Nm (74 lbs. ft.)	
Weight	0.28 kg (0.62 lbs)	
Seal kit number	SK833 (Nitrile) SK833 (Viton®)	
Recommended Filtration level	BS5540/4 Class 18/13 (25 micron nominal)	
Operating temperature	−30° to +90° C (-22° to +194°F)	
Leakage	0.3 ml/min nominal (5 dpm)	
Nominal viscosity range	5 to 500 cSt	

Viton is a registered trademark of E. I. DuPont

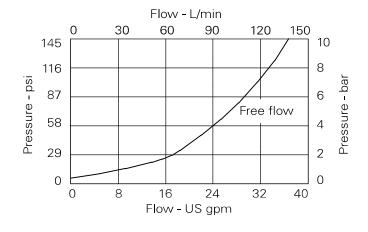
#### **Description**

G

Pilot to close check valves allow flow to pass in one direction, with a low pressure drop to prevent reverse flow. When the pilot pressure is applied, flow is prevented in either direction. The pilot ratio of 2:1 allows a lower pressure in the pilot line to hold the valve closed.

The 5CK series are check cartridges ideally suited for fitting directly onto a cylinder. They are ideal for use in regenerative circuits, accumulator dump circuits and in control of cylinders or motors.

## Pressure drop



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Model code 5CK\*\*\* 1 - 3W - S 2

1 Function

**5CK120** - Cartridge only **5CK125** - Cartridge and body

2 Pilot port size

**1** - Internal Omit for line valves 3 Port size

Code Port size		Housing number	
		Aluminum	Steel
6W	3/4" BSP 1/4" BSP/SAE Pilot Port	B6898	B5544
12T	3/4" SAE 1/4" SAE Pilot Port	B8200	
16T	1" SAE 1/4" SAE Pilot Port	B10708	B11814

4 Seals

- Nitrile (for use with most industrial hydraulic oils)
- **SV** Viton (for high temperature and most special fluid applications)
- 5 Pilot Ratio

**2** - 2:1

# **Dimensions**

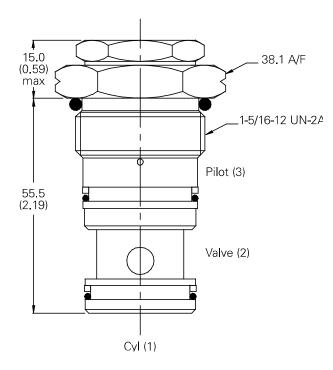
mm (inch)

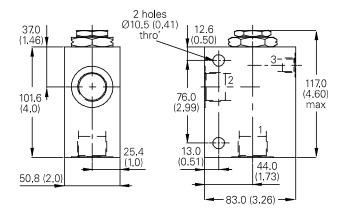
# **Cartridge only**

Basic code 5CK120

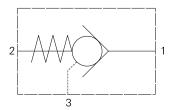
# Single valve

3/4", 1" Ports Basic code 5CK125

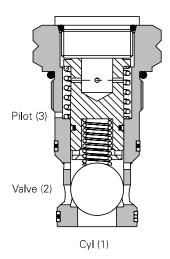




**Note:** For applications above 210 bar (3000 psi) please consult our technical department or use the steel body option.



#### Sectional view



# Description

G

Pilot to close check valves allow flow to pass in one direction, with a low pressure drop to prevent reverse flow. When the pilot pressure is applied, flow is prevented in either direction. The pilot ratio of 2:1 allows a lower pressure in the pilot line to hold the valve closed.

The 5CK series are check cartridges ideally suited for fitting directly onto a cylinder. They are ideal for use in regenerative circuits, accumulator dump circuits and in control of cylinders or motors.

## **Operation**

Pressure on the cylinder port causes the ball to lift against the spring force, allowing flow through to the valve port. Reverse flow is prevented by the ball reseating. Pressure applied to the pilot port will hold the ball against its seat, preventing flow from cylinder to valve.

#### **Features**

Easy flow path gives good pressure to flow characteristics and hardened components ensure a long working life. Cartridge construction allows installation in actuators, manifold blocks and Hydraulic Integrated Circuits. They fit the same cavities as the 4CK pilot-to-open check valves, so care should be taken when selecting the valve.

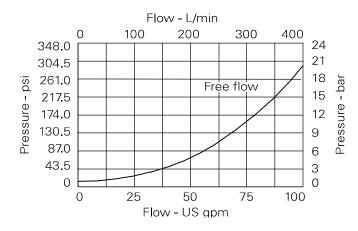
#### Performance data

#### **Ratings and specifications**

Figures based on oil temperature of 40° C and viscosity of 32 cSt (150 SUS)			
Maximum pressure	350 bar (5000 psi)		
Pilot ratio	2:1		
Cartridge material	Working parts hardened and ground steel. Zinc nickel plated body		
Standard housing material	Standard aluminum (up to 210 bar*). Add suffix "377" for steel option		
Mounting position	Unrestricted		
Cavity number	A6935		
Torque cartridge into cavity	150 Nm (110 lbs. ft.)		
Weight	0.28 kg (0.62 lbs)		
Seal kit number	SK834 (Nitrile) SK834V (Viton®)		
Recommended Filtration level	BS5540/4 Class 18/13 (25 micron nominal)		
Operating temperature	-30° to +90°C (-22° to +194°F)		
Leakage	0.3 ml/min nominal (5 dpm)		
Nominal viscosity range	5 to 500 cSt		

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#### Pressure drop



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



10W -



S

1 Basic code

5CK300 - Cartridge only 5CK350 - Cartridge & body

2 Pilot port size

1 - Internal Omit for line valves 3 Port size - bodied valves only

Code	Port size	Housing number- body only		
		Aluminum	Steel	
10W	1 1/4" BSP 1/4" BSP/SAE Pilot Port	B6814	B8610	
20T	1 1/4" SAE 1/4" BSP/SAE Pilot Port	B10630	B11474	

4 Seals

- Nitrile (for use with most industrial hydraulic oils)

- Viton (for high temperature and most special fluid applications)

5 Pilot ratio

**2** - 2:1

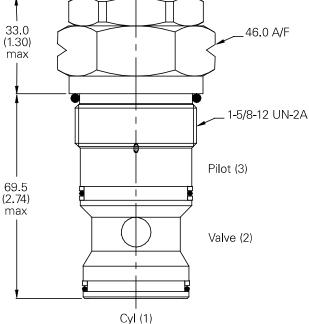
#### **Dimensions**

mm (inch)

# Cartridge only

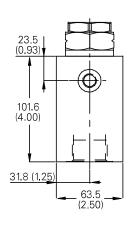
Basic code 5CK300

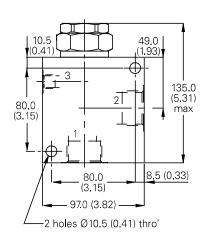
# 33.0



# Single valve

1 1/4" Ports Basic code 5CK350





Note: For applications above 210 bar (3000 psi) please consult our technical department or use the steel body option.