

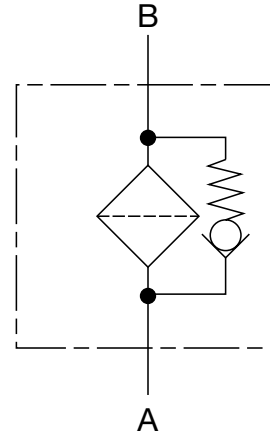
HIGH PRESSURE FILTERS

CP-SAE Series

Circuit Protector Manifold Cartridge Filters
6090 psi • up to 30 gpm



Hydraulic Symbol



Features

- Simple cost effective way to provide component protection with minimal space required eliminating design restraints.
- Fits into a standard manifold SAE O-ring Port.
- CP Circuit Protector Filters provide backup protection when upstream pressure filters go into bypass or if element damage occurs.
- CP-SAE provides operations protection through supply of a bypass to assure flow to critical components if filter becomes clogged.
- Increased range of product use through three (3) different sizes available, 15 at 4 gpm, 40 at 12 gpm, and size 120 at 30 gpm.
- Suitable for petroleum based fluids.
- Flow Path - inside to outside.

Applications



Agricultural



Automotive



Construction

Technical Specifications

Mounting Method	
CP-SAE-15	SAE-10 Port (5/8")
CP-SAE-40	SAE-16 Port (1")
CP-SAE-120	SAE-24 Port (1 1/2")
Flow Direction	Inlet: Bottom Outlet: Side
Construction Materials	
CP-SAE-15	Carbon steel
CP-SAE-40	Carbon steel
CP-SAE-120	Carbon steel
Flow Capacity	
CP-SAE-15	4 gpm (15 lpm)
CP-SAE-40	12 gpm (45 lpm)
CP-SAE-120	30 gpm (113 lpm)
Housing Pressure Rating	
Max. Allowable Working Pressure	6090 psi (420 bar)
Fatigue Pressure	Contact HYDAC Office
Burst Pressure	Contact HYDAC Office
Element Collapse Pressure Rating	
W	100 psid (6.9 bar)
Fluid Temperature Range 14°F to 212°F (-10°C to 100°C) Consult HYDAC for applications operating below 14°F (-10°C)	
Fluid Compatibility Compatible with all petroleum oils rated for use with Nitrile rubber (NBR) seals.	
Bypass Valve Cracking Pressure ΔP = 50 psid (3.4 bar) +10% (standard)	

Replacement Elements

Part Number	Description	Flow Rate
02069397	0015 D 010 W	0015 - 4 gpm
02069398	0040 D 010 W	0040 - 12 gpm
02069399	0120 D 010 W	0120 - 30 gpm

Model Code

CP-SAE W 15 G 10 W 1 . 0 / 12 B3.5

Filter Type

CP-SAE = Circuit Protector
(SAE O-ring Port)

Element Media

W = Wire Mesh

Size

15 = 4 gpm 40 = 12 gpm 120 = 30 gpm

Inline Port

G = Male Threaded 15 = 5/8" SAE 10 Port-Threaded
40 = 1" SAE 16 Port-Threaded
120 = 1 1/2" SAE 24 Port-Threaded

Filtration Rating (micron)

10 = 10 micron 75 = 75 micron 149 = 149 micron

Bypass Indicator

W = No indicator Port

Type Number

1 = Standard Configuration

Modification Number

Port Configuration

12

Bypass Valve

B3.5 = 50 psi

Seals

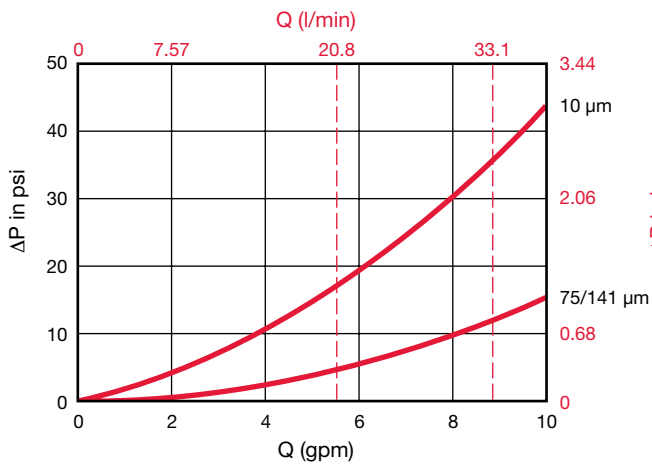
(omit) = Nitrile rubber (NBR) (standard)
V = Fluorocarbon elastomer (FKM)

Model Codes Containing RED are non-stock items — Minimum quantities may apply — Contact HYDAC for information and availability

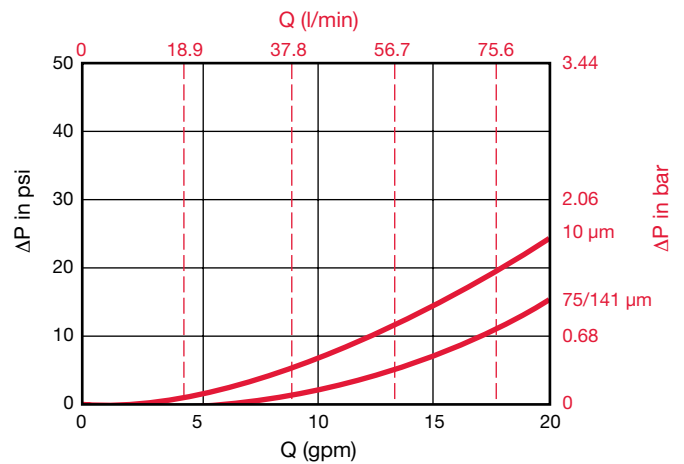
Pressure Drop Curves

Based on testing conducted with 150 SUS fluid at 105°F.

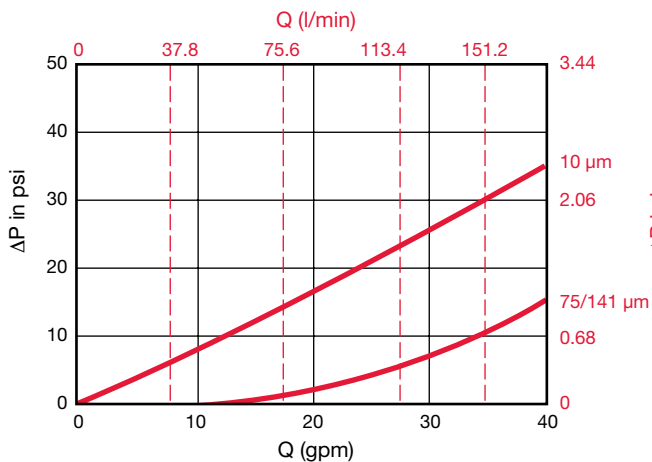
CP-SAE 15



CP-SAE 40

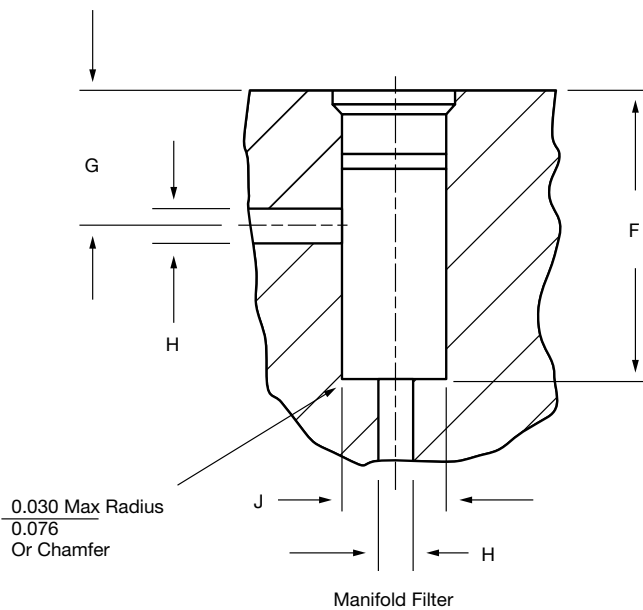
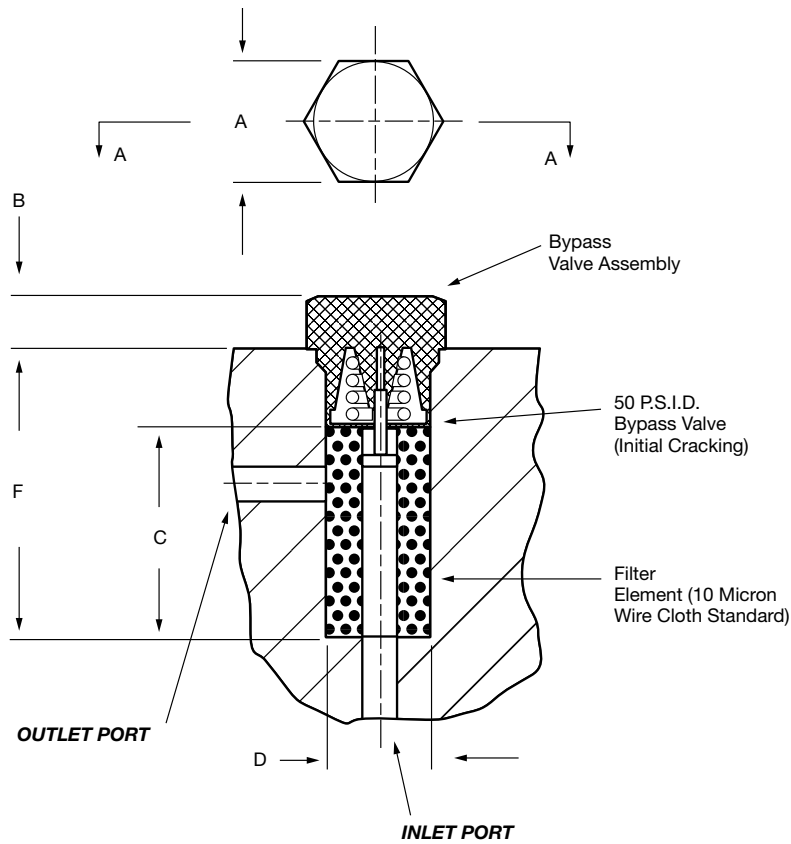


CP-SAE 120



HIGH PRESSURE FILTERS

Dimensions
CP-SAE



Model	A	B	C	D	E SAE O-Ring Port	F	G	H	J	Torque	
										Alu.	Steel
CP-SAE 15	1.00/25.4	0.41/10.4	1.75/44.5	0.74/18.8	-10 (7/8-14)	2.41/61.2	1.12/28.4 min 1.87/47.5 max	0.266/6.8	0.781/19.8 min 0.814/20.7 max	65 ft-lb	85 ft-lb
CP-SAE 40	1.5/38.1	0.5/12.7	2.50/63.5	1.00/25.4	-16 (1 5/16-12)	3.34/84.8	1.49/37.8 min 2.53/64.3 max	0.531/13.5	1.140/29.0 min 1.1875/30.1 max	150 ft-lb	200 ft-lb
CP-SAE 120	2.13/54.1	0.65/16.5	4.00/101.6	1.50/38.1	-24 (1 7/8-12)	5.01/127.3	1.92/48.8 min 3.81/96.8 max	0.875/22.2	1.750/44.5 min 1.803/45.8 max	230 ft-lb	305 ft-lb

Size	15, 40, 120
Weight (lbs.)	1.5

Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print.