

Member of the Danfoss Group





# Flow Control Valves

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Needle Valves	Model No	Cavity	Description	Flow*	Pressure	Page
,	CP618-6	SDC08-2	Needle Valve,	10 l/min	310 bar	FC - 9
			Bi-Directional,	[3 US gal/min]	[4500 psi]	
			Fine Metering			
/			-			

Needle Valves	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP618-1	SDC08-2	Needle Valve,	25 l/min	210 bar	FC - 10
			Bi-Directional	[7 US gal/min]	[3000 psi]	
	CP618-2	SDC08-2		45 l/min	210 bar	FC - 11
				[12 US gal/min]	[3000 psi]	
	CP610-1	SDC10-2		50 l/min	210 bar	FC - 12
				[13 US gal/min]	[3000 psi]	
_	CP610-2	SDC10-2		50 l/min	210 bar	FC - 13
				[13 US gal/min]	[3000 psi]	
0 — 2	CP611-2	CP12-2		115 l/min	210 bar	FC - 14
/				[30 US gal/min]	[3000 psi]	
	CP612-1	SDC16-2		190 l/min	210 bar	FC - 15
				[50 US gal/min]	[3000 psi]	
	CP612-2	SDC16-2		190 l/min	210 bar	FC - 16
				[50 US gal/min]	[3000 psi]	
	CP613-1	SDC20-2		380 l/min	210 bar	FC - 17
				[100 US gal/min]	[3000 psi]	

Needle Valves	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP610-7	SDC10-2	Needle Valve,	55 l/min	350 bar	FC - 18
			Bi-Directional,	[15 US gal/min]	[5075 psi]	
			Fine Metering,			
au			Reverse Free Flow			

<sup>\*</sup> Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



Pressure-Compensated, Restrictive Flow Control	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP308-1	SDC08-2	Flow Control Valve,	15 l/min	210 bar	FC - 19
			Fixed Setting,	[4 US gal/min]	[3000 psi]	
0 > 2	CP300-1	SDC10-2	Restrictive Type	23 l/min	210 bar	FC - 20
				[6 US gal/min]	[3000 psi]	
	CP301-1	CP12-2		57 l/min	210 bar	FC - 21
				[15 US gal/min]	[3000 psi]	

Pressure-Compensated, Restrictive Flow	Model No.	Cavity	Description	Flow*	Pressure	Page
Control						
	CP308-2	SDC08-2	Flow Control Valve,	15 l/min	210 bar	FC - 22
			Adjustable,	[4 US gal/min]	[3000 psi]	
	CP300-2	SDC10-2	Restrictive Type	23 l/min	210 bar	FC - 23
				[6 US gal/min]	[3000 psi]	
0 / 2	VR 06	NCS06/2		30 l/min	315 bar	FC - 24
,				[8 US gal/min]	[4500 psi]	
	VR 12	NCS12/2		60 l/min	315 bar	FC - 25
				[16 US gal/min]	[4500 psi]	

Model No.	Cavity	Description	Flow*	Pressure	Page
CP310-1	SDC10-3	Flow Control Valve,	23 l/min	210 bar	FC - 28
		Fixed Setting,	[6 US gal/min]	[3000 psi]	
VRF 06	NCS06/3	Priority Type	30 l/min	315 bar	FC - 29
			[8 US gal/min]	[4500 psi]	
CP311-1	CP12-3		45 l/min	210 bar	FC - 30
			[12 US gal/min]	[3000 psi]	
CP312-1	SDC16-3		65 l/min	210 bar	FC - 31
			[17 US gal/min]	[3000 psi]	
	CP310-1  VRF 06  CP311-1	CP310-1 SDC10-3  VRF 06 NCS06/3  CP311-1 CP12-3	CP310-1 SDC10-3 Flow Control Valve, Fixed Setting, Priority Type  CP311-1 CP12-3	CP310-1 SDC10-3 Flow Control Valve, Fixed Setting, Fixed Setting, Priority Type 30 l/min [8 US gal/min]  CP311-1 CP12-3 [12 US gal/min]  CP312-1 SDC16-3 [5 l/min]	CP310-1       SDC10-3       Flow Control Valve, Fixed Setting, Fixed Setting,       23 l/min [3000 psi] [3000 psi]         VRF 06       NCS06/3       Priority Type       30 l/min [8 US gal/min] [4500 psi]         CP311-1       CP12-3       45 l/min [12 US gal/min] [3000 psi]         CP312-1       SDC16-3       65 l/min [210 bar

Pressure-Compensated, Priority Flow	Model No.	Cavity	Description	Flow*	Pressure	Page
Control						
	CP310-2	SDC10-3	Flow Control Valve,	23 l/min	210 bar	FC - 32
<u>.</u>			Adjustable,	[6 US gal/min]	[3000 psi]	
① <del>***</del> ③	VRC 06	NCS06/3	Priority Type	50 l/min	315 bar	FC - 33
<u>/</u>				[13 US gal/min]	[4500 psi]	
	VRC 12	NCS12/3		100 l/min	315 bar	FC - 34
2				[26 US gal/min]	[4500 psi]	

<sup>\*</sup> Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



In-line	Model No.	Cavity	Description	Flow*	Pressure	Page
1 2	HFCV10-RT	SDC10-2	Pressure compensated, restrictive-type flow control.	0.38-11.4 I/min [0.1-3.0 US gal/min]	350 bar [5075 psi]	FC - 26

Pressure-Compensated, Priority Flow Control	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP300-6	SDC10-3	Flow Control Valve, Fixed Setting,	23 l/min [6 US gal/min]	210 bar [3000 psi]	FC - 35
③ → → ②	FCH10-BD	SDC10-3	Bi-Directional	23 l/min [6 US gal/min]	350 bar [5075 psi]	FC - 36
				[ [O O3 Gai/IIIII]	[1207.2 PSI]	ļ

In-line	Model No.	Cavity	Description	Flow*	Pressure	Page
	SC 10	none	Flow Control Valve, In-line	16 l/min	210 bar	FC - 37
				[4 US gal/min]	[3000 psi]	
(A) — (B)	SC 13	none		47 l/min	210 bar	FC - 38
				[12 US gal/min]	[3000 psi]	
						'

In-line	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP9014-1	none	Load Lowering Valve	113 l/min	210 bar	FC - 39
				[30 US gal/min]	[3000 psi]	
1						

In-line	Model No.	Cavity	Description	Flow*	Pressure	Page
WITH METERING ORIFICE	BC 06	none	Velocity Fuse	30 l/min [8 US gal/min]	210 bar [3000 psi]	FC - 40
P C	BC 10	none		60 l/min [16 US gal/min]	210 bar [3000 psi]	FC - 41
NO METERING ORIFICE	BC 13	none		85 l/min [22 US gal/min]	210 bar [3000 psi]	FC - 42

<sup>\*</sup> Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



In-line			Model No.	Cavity	Description	Flow*	Pressure	Page	
				CP330-3	#10 SAE Port	Velocity Fuse	110 l/min [29 US gal/min]	207 bar [3000 psi]	FC - 43
IN		<b>←</b> →	OUT						

Flow Divider/Combiner	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP340-1	SDC10-4	Flow Divider,	45 l/min	210 bar	FC - 44
			Divider/Combiner	[12 US gal/min]	[3000 psi]	
	VDF 06	NCS06/4		45 l/min	210 bar	FC - 45
				[12 US gal/min]	[3000 psi]	
2 <del>1 2 1 4</del>	CP341-1	CP12-4		75 l/min	210 bar	FC - 46
				[20 US gal/min]	[3000 psi]	
	CP342-1	CP16-4		150 l/min	210 bar	FC - 47
3				[40 US gal/min]	[3000 psi]	
	CP342-3	CP16-4		150 l/min	450 bar	FC - 48
				[40 US gal/min]	[6500 psi]	
	CP343-1	SDC20-4		340 l/min	210 bar	FC - 49
				[90 US gal/min]	[3000 psi]	

Pressure-Compensated, Priority Flow Control	Model No.	Cavity	Description	Flow*	Pressure	Page
	2F94-01	none	Flow Control Valve,	30 l/min	210 bar	FC - 50
			Catalog HIC	[8 US gal/min]	[3000 psi]	
	2F95-01	none		60 l/min	210 bar	FC - 51
				[16 US gal/min]	[3000 psi]	
<u> </u>	2F96-01	none		95 l/min	210 bar	FC - 52
bypass in regulated				[25 US gal/min]	[3000 psi]	
/ `     -   ·   ·	2F97-01	none		190 l/min	210 bar	FC - 53
				[50 US gal/min]	[3000 psi]	

<sup>\*</sup> Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.

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# Flow Control Valves Catalog Application Notes

### **OVERVIEW**

Pressure compensated flow control valves are used to limit or regulate flow. Three basic types of cartridges are available; restrictive-type, priority-type, and divider/combiner type. Combination valves in manifolds for additional features such as fully adjustable flow or free reverse flow are also available.

Flow control valves

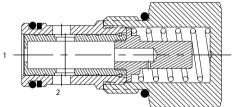


## RESTRICTED-TYPE PRESSURE COMPENSATED

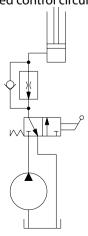
Restrictive-type pressure compensated flow control valves are two-ported valves that maintain a constant flow rate from 1 to 2 regardless of load pressure changes in the circuit downstream of 2. The control orifice in the spool is factory set to the flow specification. The valve begins to respond to load changes when flow through the valve creates a pressure differential across the control orifice of approximately 7 bar 100 psi, and accurately maintains flow within +/- 10% across the range of 35-207 bar 500-3000 psi. Reverse flow from 2 to 1 returns through the control orifice and is non-compensated.

Restrictive-type flow control valves can be used in meter-in or meter-out applications to control actuator speeds.

Restricted-type pressure compensated flow control valve



Actuator speed control circuit





# Flow Control Valves Catalog Application Notes

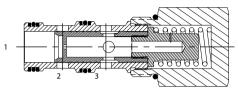
## PRIORITY-TYPE PRESSURE COMPENSATED

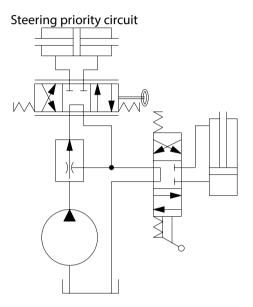
Priority-type pressure compensated flow control valves are three-ported valves that maintain a constant flow rate from 1 to 3 regardless of load pressure changes in the priority circuit downstream of 3 or in the bypass circuit downstream of 2. The control orifice in the spool is factory set to the flow specification. The valve begins to respond to load pressure changes when flow to 3 creates a pressure differential across the control orifice of approximately 7 bar 100 psi The valve accurately maintains flow to the priority circuit across the range of 35-207 bar 500-3000 psi, with any excess inlet flow bypassing to 2. Note that both 2 and 3 may be fully and independently pressurized. Also note that if 2 is blocked, the valve will function as a restrictive-type flow control.

Priority-type flow control valves are used in meter-in applications. A common application is to direct a fixed flow rate to a priority function, such as steering, while secondary flow is available to other intermittent functions.

Flow divider/combiners are pressure

Priority-type pressure compensated flow control valve







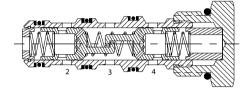
# Flow Control Valves Catalog Application Notes

# FLOW DIVIDER / COMBINER

compensated valves. When the valve is functioning as a divider, it will divide input flow from 3 to the two outputs at 2 and 4 according to a preset ratio. This ratio is unaffected by pressure. When the valve is functioning as a combiner, it will combine the flow from the two inputs from 2 and 4 into one output at 3. Note that a flow divider/combiner is specified with a nominal flow rate for each leg. When operating with flow rates higher than specified, the dividing and combining ratios will be maintained, but at a cost of higher pressure drop and associated heat generation. When operating with lower flow rates than specified, the dividing and combining ratios are also maintained, but at a cost

of accuracy. For example, a 22 l/min 5.8 US gal/min: 22 l/min 5.8 US gal/min flow divider will divide flow in a 50:50 ratio with an accuracy of  $\pm 10\%$  ( $\pm 2.2$  l/min  $\pm 0.58$  US gal/min) per leg. With an input flow of 8.0 l/min 2.1 US gal/min, the flow division will be  $4.0\pm 2.2$  l/min  $1.1\pm 0.58$  US gal/min per leg.

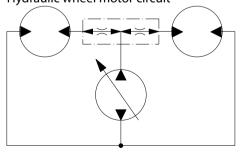
Flow divider / combiner

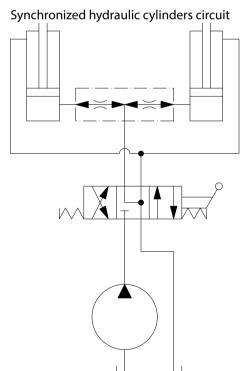


Common applications for flow divider/combiners include:

- Combining flow (forward) or dividing flow (reverse) to hydraulic wheel motors for vehicle drive application. Note that an external orifice is added to allow more flow to one motor than the other while turning a corner (not shown).
- Synchronizing motion of hydraulic cylinders. Note that if circuit operation results in a blockage of one cylinder port, the other port will also close. Consult factory for details.

Hydraulic wheel motor circuit







Needle Valve, Bi-Directional CP618-6

#### **OPERATION**

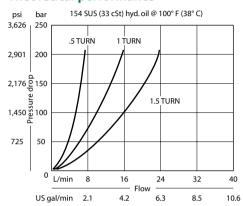
This valve is a non-pressure compensated, fine-metering, adjustable flow control valve.

#### **Schematic**



## **SPECIFICATIONS**

## **Theoretical performance**



## **Specifications**

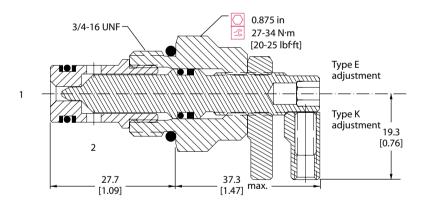
Rated pressure	310 bar [4500 psi]*			
Rated flow at 7 bar	10 l/min			
[100 psi]	[3 US gal/min]			
Leakage	6 drops/min @			
	Rated pressure			
Weight	0.12 kg 0.26 lb			
Cavity	SDC08-2			

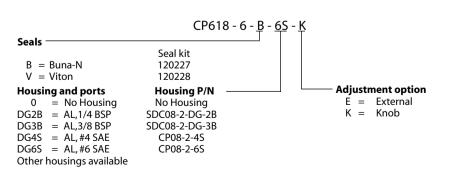
<sup>\*</sup>Updated Pressure Rating

### Cross-sectional view

## **DIMENSIONS**

mm in







Needle Valve, Bi-Directional CP618-1

#### **OPERATION**

This valve is a non-pressure compensated, adjustable flow control valve.

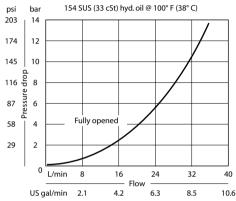
## Schematic



## **SPECIFICATIONS**

## **Theoretical performance** har

Cross-sectional view

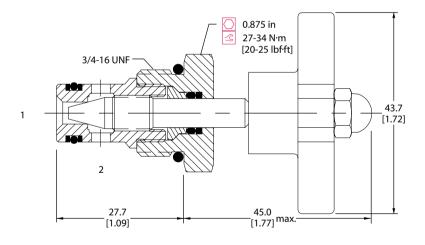


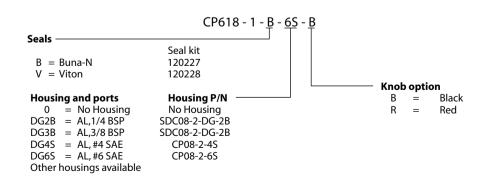
## **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	25 l/min
[100 psi]	[7 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.07 kg [0.15 lb]
Cavity	SDC08-2

## **DIMENSIONS**

mm in





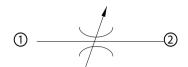


Needle Valve, Bi-Directional CP618-2

#### **OPERATION**

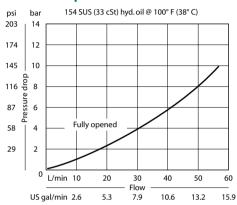
This valve is a non-pressure compensated, adjustable flow control valve.

### **Schematic**



## **SPECIFICATIONS**

## **Theoretical performance**



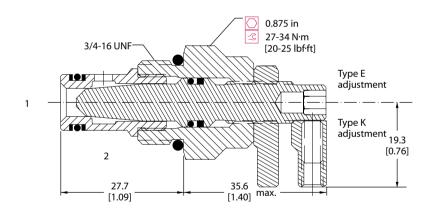
## **Specifications**

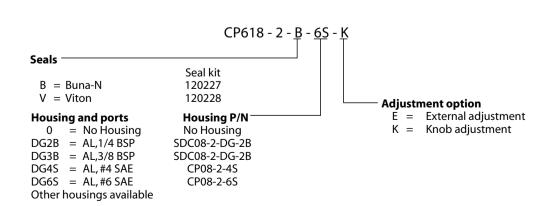
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	45 l/min
[100 psi]	[12 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.09 kg [0.20 lb]
Cavity	SDC08-2

### Cross-sectional view

#### **DIMENSIONS**

mm in







Needle Valve, Bi-Directional CP610-1

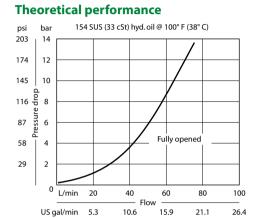
#### **OPERATION**

This valve is a non-pressure compensated, adjustable flow control valve.

### **Schematic**



## **SPECIFICATIONS**



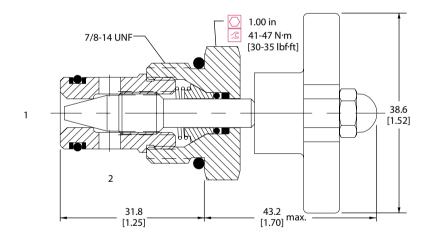
Cross-sectional view

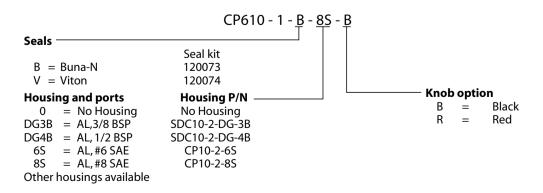
## **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	50 l/min
[100 psi]	[13 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.10 kg [0.22 lb]
Cavity	SDC10-2

## **DIMENSIONS**

mm in





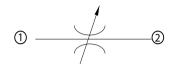


Needle Valve, Bi-Directional CP610-2

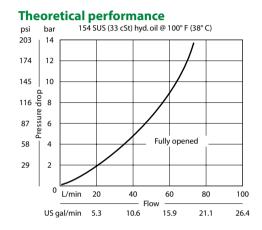
#### **OPERATION**

This valve is a non-pressure compensated, adjustable flow control valve.

### **Schematic**



## **SPECIFICATIONS**



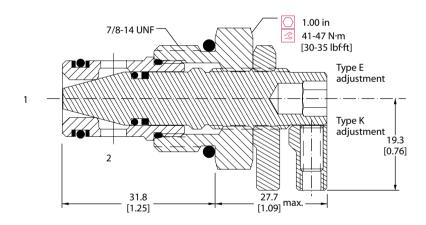
## **Specifications**

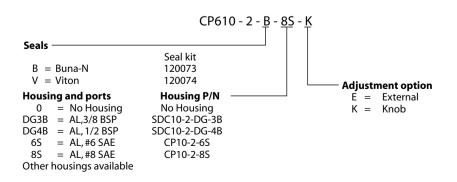
210 bar [3000 psi]
50 l/min
[13 US gal/min]
6 drops/min @
Rated pressure
0.13 kg [0.29 lb]
SDC10-2

### Cross-sectional view

#### **DIMENSIONS**

mm in







Needle Valve, Bi-Directional CP611-2

#### **OPERATION**

This valve is a non-pressure compensated, adjustable flow control valve.

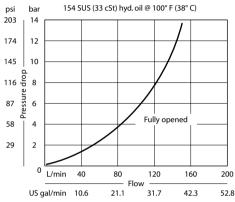
## Schematic



## **SPECIFICATIONS**

## **Theoretical performance** har 203

Cross-sectional view

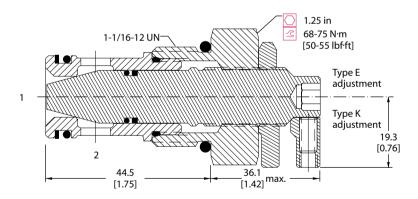


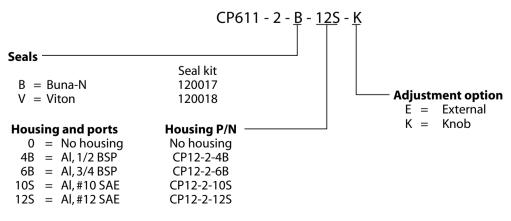
## **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	115 l/min
[100 psi]	[30 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.26 kg [0.57 lb]
Cavity	CP12-2

## **DIMENSIONS**

mm in





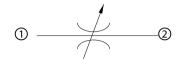


Needle Valve, Bi-Directional CP612-1

#### **OPERATION**

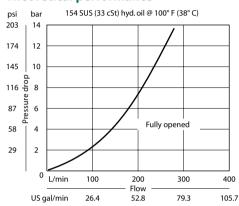
This valve is a non-pressure compensated, adjustable flow control valve.

### **Schematic**



## **SPECIFICATIONS**

## **Theoretical performance**



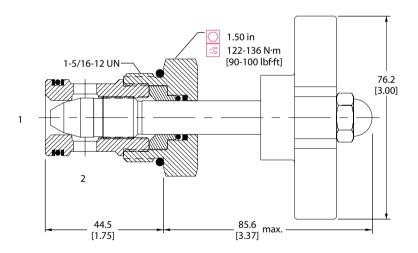
## **Specifications**

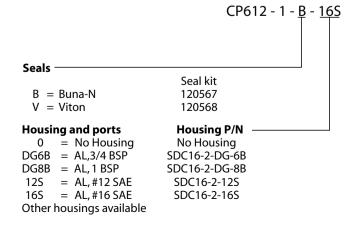
- p	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	190 l/min
[100 psi]	[50 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.31 kg [0.68 lb]
Cavity	SDC16-2

### Cross-sectional view

#### **DIMENSIONS**

mm in







Needle Valve, Bi-Directional CP612-2

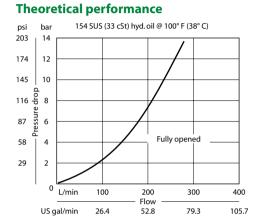
#### **OPERATION**

This valve is a non-pressure compensated, adjustable flow control valve.

## **Schematic**



## **SPECIFICATIONS**

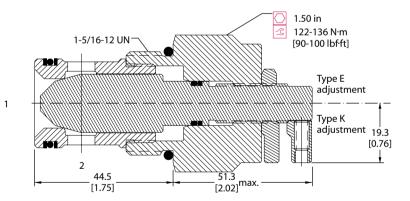


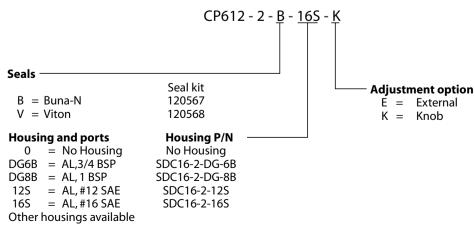
## **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	190 l/min
[100 psi]	[50 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.48 kg [1.06 lb]
Cavity	SDC16-2

## Cross-sectional view

**DIMENSIONS** mm in





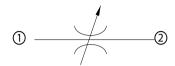


Needle Valve, Bi-Directional CP613-1

#### **OPERATION**

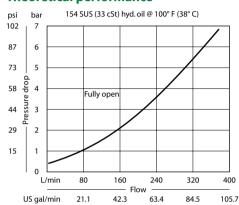
This valve is a non-pressure compensated, adjustable flow control valve.

### **Schematic**



## **SPECIFICATIONS**

## **Theoretical performance**



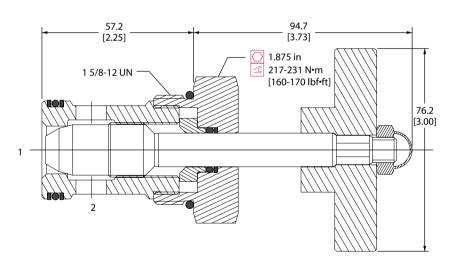
## **Specifications**

<u>-p</u>	
Rated pressure	210 bar 3000 psi
Rated flow at 7 bar	380 l/min
[100 psi]	[100 US gal/min]
Leakage	6 drops/min @
	Rated pressure
Weight	0.85 kg [1.87 lb]
Cavity	SDC20-2

### Cross-sectional view

#### **DIMENSIONS**

mm in



# ORDERING INFORMATION



B = Buna-N 120172 V = Viton 120173

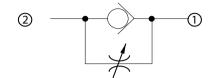


Needle Valve, Bi-Directional, Fine Metering, Reverse Free Flow CP610-7

#### **OPERATION**

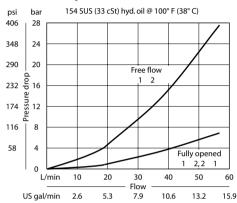
This valve is an adjustable orifice with free reverse flow.

#### **Schematic**



## **SPECIFICATIONS**

## Theoretical performance

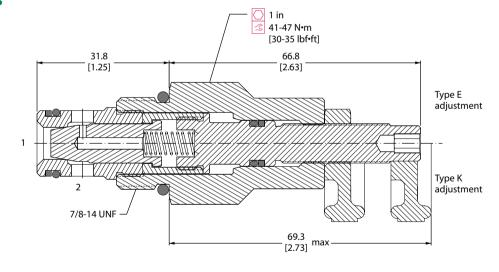


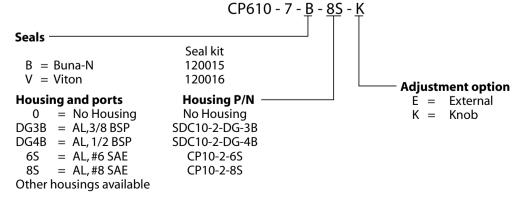
## **Specifications**

Rated pressure	350 bar [5075 psi]
Rated flow at 7 bar	55 l/min
[100 psi]	[15 US gal/min]
Leakage	30 drops/min @
	Rated pressure
Weight	0.18 kg [0.40 lb]
Cavity	SDC10-2

#### Cross-sectional view

# **DIMENSIONS** mm in





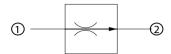


Fixed Setting, Restrictive Type CP308-1

#### **OPERATION**

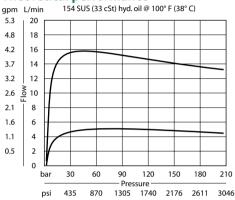
This valve is a fixed pressure compensated flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



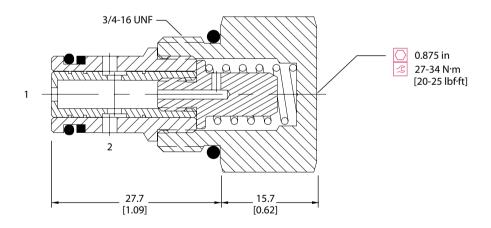
## **Specifications**

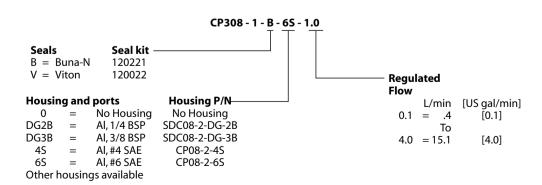
Rated pressure	210 bar [3000 psi]
Max regulated	15 l/min [4 US gal/min]
flow	
Weight	0.08 kg [0.17 lb]
Accuracy ± 20%	0.4-2.2 l/min
	[0.1-0.6 US gal/min]
± 15%	2.3-6.8 l/min
	[0.6-1.8 US gal/min]
± 10%	6.9-15.1 l/min
	[1.8-4 US gal/min]
Cavity	SDC08-2

#### **DIMENSIONS**

 $\,mm\,in\,$ 

## Cross-sectional view





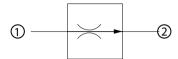


Fixed Setting, Restrictive Type CP300-1

#### **OPERATION**

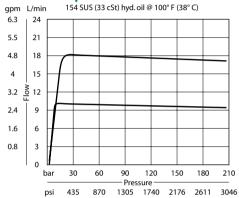
This valve is a fixed pressure compensated flow control valve.

#### Schematic



#### **SPECIFICATIONS**

## **Theoretical performance**



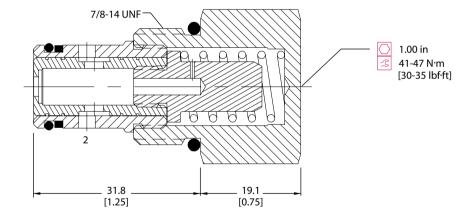
## **Specifications**

Rated pressure	210 bar [3000 psi]
Max regulated flow	23 l/min
	[6 US gal/min]
Weight	0.12 kg [0.26 lb]
Accuracy ± 20%	0.4-2.2 l/min
	[0.1-0.6 US gal/min]
± 15%	2.3-6.8 l/min
	[0.6-1.8 US gal/min]
± 10%	6.9-22.7 l/min
	[1.8-6 US gal/min]
Cavity	SDC10-2

### **DIMENSIONS**

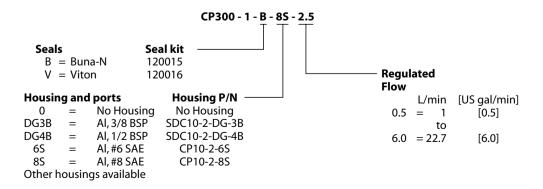
mm in

### Cross-sectional view



# ORDERING INFORMATION

1



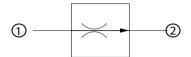


Fixed Setting, Restrictive Type CP301-1

#### **OPERATION**

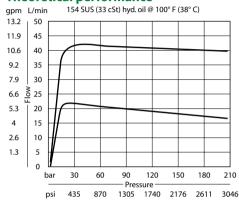
This valve is a fixed pressure compensated flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



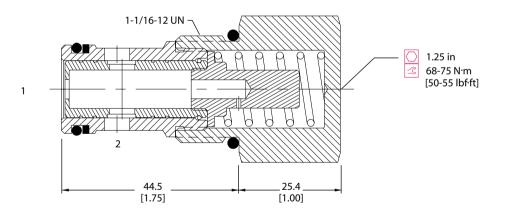
## **Specifications**

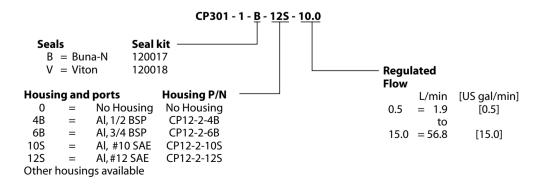
Specifications	
Rated pressure	210 bar [3000 psi]
Max regulated flow	57 l/min
	[15 US gal/min]
Weight	0.24 kg [0.52 lb]
Accuracy ± 15%	1.9-7.5 l/min
	[0.5-2 US gal/min]
± 10%	7.6-56.8 l/min
	[2-15 US gal/min]
Cavity	CP12-2

#### **DIMENSIONS**

 $\,mm\,in\,$ 

### Cross-sectional view





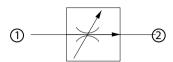


Adjustable, Restrictive Type CP308-2

#### **OPERATION**

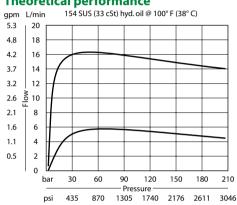
This valve is a limited adjustment pressure compensated flow control valve.

#### Schematic



## **SPECIFICATIONS**

## **Theoretical performance**



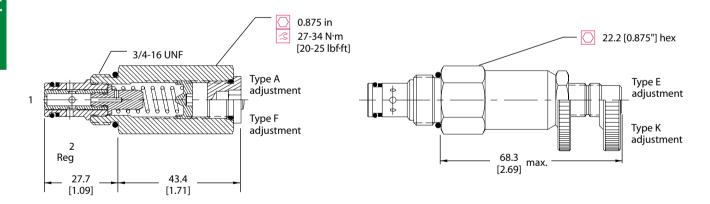
## **Specifications**

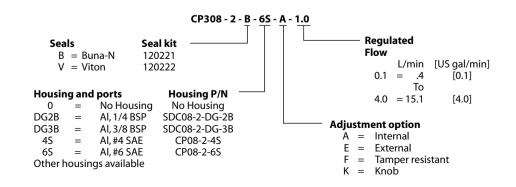
Rated pressure	210 bar [3000 psi]
Max regulated flow	15 l/min
	[4 US gal/min]
Weight	0.15 kg [0.32 lb]
Cavity	SDC08-2

#### **DIMENSIONS**

mm in

### Cross-sectional view





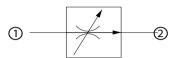


Adjustable, Restrictive Type CP300-2

#### **OPERATION**

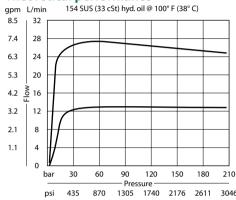
This valve is a limited adjustment pressure compensated flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



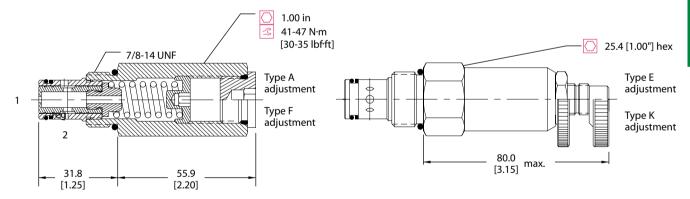
## **Specifications**

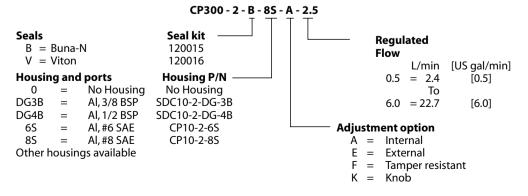
Rated pressure	210 bar [3000 psi]
Max regulated flow	23 l/min
	[6 US gal/min]
Weight	0.24 kg [0.52 lb]
Accuracy ± 20%	0.5-2.2 l/min
	[0.1-0.5 US gal/min]
± 15%	2.3-6.8 l/min
	[0.5-1.5 US gal/min]
± 10%	6.8-27.3 l/min
	[1.5-6 US gal/min]
Cavity	SDC10-2

## **DIMENSIONS**

mm in

### Cross-sectional view





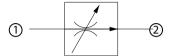


Adjustable, Restrictive Type VR 06

### **OPERATION**

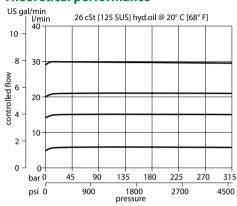
This valve is a limited adjustment, pressure compensated, restrictive-type flow control valve.

#### Schematic



### **SPECIFICATIONS**

## **Theoretical performance**



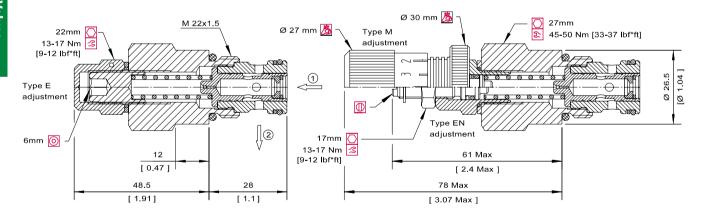
## **Specifications**

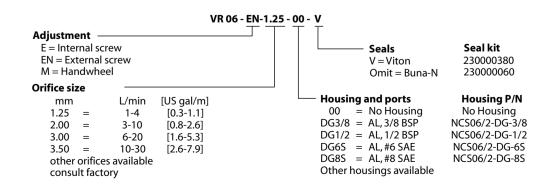
Rated pressure	315 bar [4500 psi]
Max regulated flow	30 l/min
	[8 US gal/min]
Weight	0.19 kg [0.42 lb]
Cavity	NCS06/2

#### **DIMENSIONS**

mm in

### Cross-sectional view





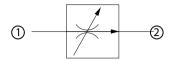


Adjustable, Restrictive Type VR 12

#### **OPERATION**

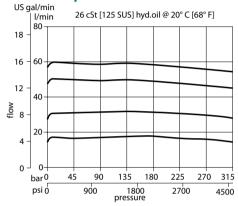
This valve is a limited adjustment, pressure compensated, restrictive-type flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



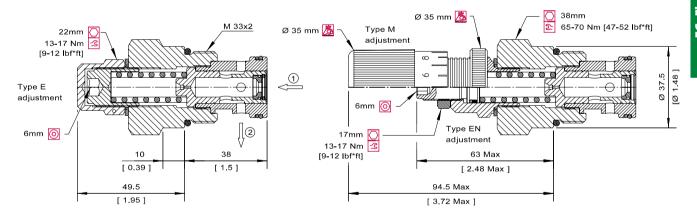
## **Specifications**

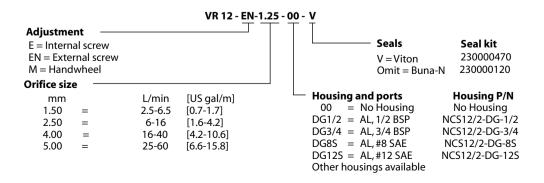
- petinications		
Rated pressure	315 bar [4500 psi]	
Max regulated flow	w 60 l/min	
	[16 US gal/min]	
Weight	0.44 kg [0.97 lb]	
Cavity	NCS12/2	

#### **DIMENSIONS**

mm in

#### Cross-sectional view







High Pressure Flow Control - Pressure Compensated HFCV10-RT

#### **OPERATION**

The HFCV10-RT is a high pressure, fully adjustable, pressure compensated, restrictive-type flow control. This valve maintains a constant flow rate out of port 2 regardless of pressure variations at port 2 or port 1. An integral check valve allows unrestricted flow from port 2 to port 1.

The valve can be adjusted from closed to fully open (5 turns) with counter-clockwise rotation of the adjustment screw. Regulated flow ranges are available pre-set from the factory in 1 LPM increments between 1-11 LPM (0.26-2.9 US gal/min) and also at flows of 0.38 LPM (0.1 US gal/min) and 11.4 LPM (3.0 US gal/min).



### **APPLICATIONS**

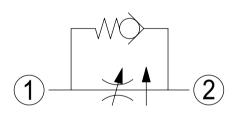
The HFCV10-RT features fine adjustability and can be used for meter-in, meter-out applications to control actuator speeds.

## **SPECIFICATIONS**

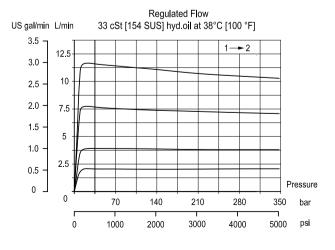
Rated Pressure*	350 bar [5075 psi]
Min Regulated Flow	0.38 lpm
	(0.1 US gal/min)
Max Regulated Flow	11.4 lpm
	(3.0 US gal/min)
Accuracy	+/- 12%
Leakage	40 ml/min @
	rated pressure
Weight	0.17 kg 0.37 lbs
Cavity	SDC10-2

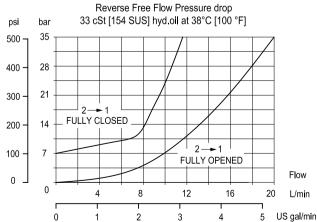
<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

#### **SCHEMATIC**



## **PERFORMANCE CURVES**

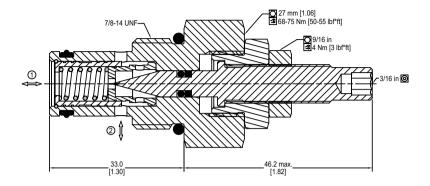




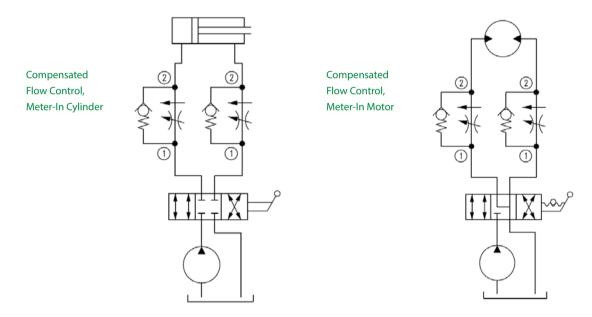


High Pressure Flow Control - Pressure Compensated HFCV10-RT

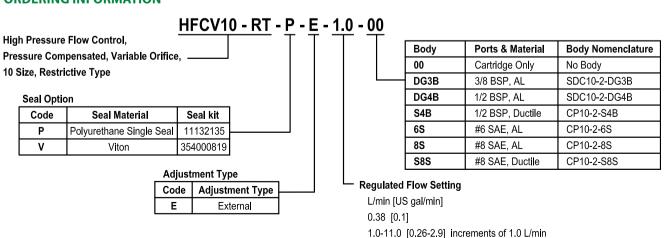
### **DIMENSIONS**



## **EXAMPLE CIRCUITS**



## **ORDERING INFORMATION**



11.4 [3.0]

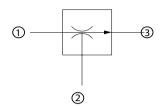


Fixed Setting, Priority Type CP310-1

### **OPERATION**

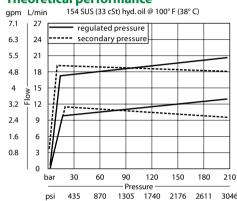
This valve is a fixed, pressure compensated priority-type flow control valve.

#### **Schematic**



### **SPECIFICATIONS**

## **Theoretical performance**



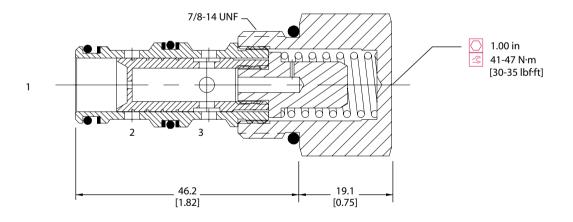
## **Specifications**

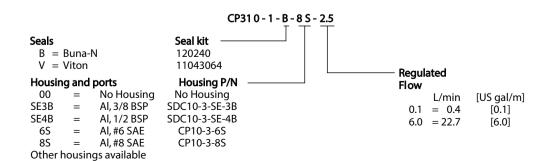
Rated pressure	210 bar [3000 psi]
Max regulated flow	23 l/min
	[6 US gal/min]
Max inlet flow	38 l/min
	[10 US gal/min]
Weight	0.13 kg [0.29 lb]
Accuracy ± 20%	0.4-2.2 l/min
	[0.1-0.6 US gal/min]
± 15%	2.3-6.8 l/min
	[0.6-1.8 US gal/min]
± 10%	6.9-22.7 l/min
	[1.8-6 US gal/min]
Cavity	SDC10-3

#### **DIMENSIONS**

mm in

## Cross-sectional view





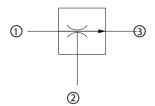


Fixed Setting, Priority Type VRF 06

#### **OPERATION**

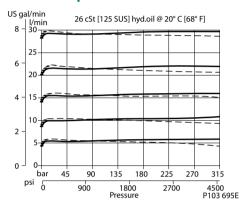
This valve is a fixed, pressure compensated, priority-type flow control.

### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



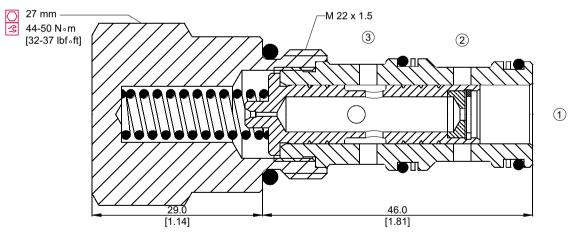
## **Specifications**

Rated pressure	315 bar [4500 psi]
Max regulated flow	26 l/min
	[7 US gal/min]
Max inlet flow	50 l/min
	[13 US gal/min]
Weight	0.19 kg [0.42 lb]
Accuracy ± 10%	2.3-25.5 l/min
	[0.5-6.8 US gal/min]
Cavity	NCS06/3

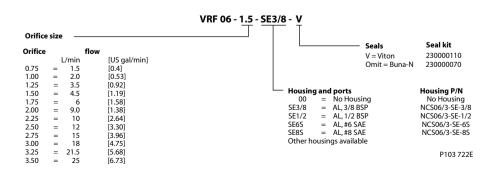
### **DIMENSIONS**

### Cross-sectional view

 $\,mm\,in\,$ 



P103 667



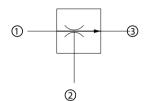


Fixed Setting, Priority Type CP311-1

#### **OPERATION**

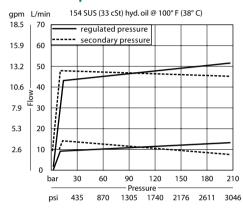
This valve is a fixed, pressure compensated priority-type flow control valve.

### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



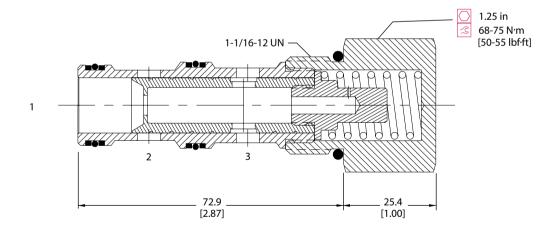
## **Specifications**

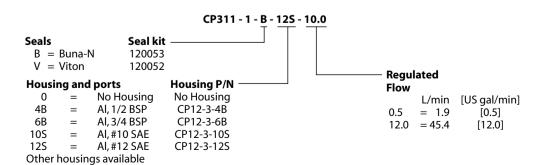
Rated pressure	210 bar [3000 psi]
Max regulated flow	45 l/min
	[12 US gal/min]
Max inlet flow	95 l/min
	[25 US gal/min]
Weight	0.28 kg [0.61 lb]
Accuracy ± 15%	1.9-7.5 l/min
	[0.5-2 US gal/min]
± 10%	7.6-45.4 l/min
	[2-12 US gal/min]
Cavity	CP12-3

#### **DIMENSIONS**

mm in

Cross-sectional view





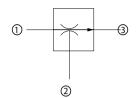


# Fixed Setting, Priority Type CP312-1

#### **OPERATION**

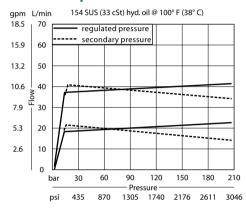
This valve is a fixed, pressure compensated priority-type flow control valve.

### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



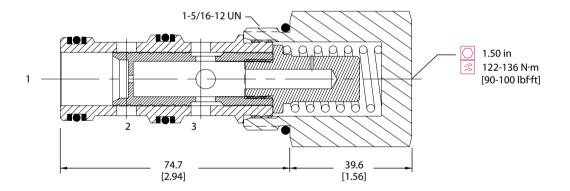
## **Specifications**

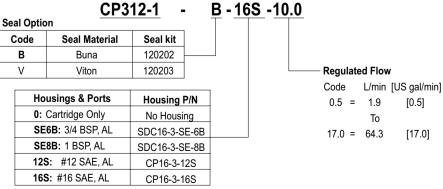
-p	
Rated pressure	210 bar [3000 psi]
Max regulated flow	64 l/min
	[17 US gal/min]
Max inlet flow	130 l/min
	[34 US gal/min]
Weight	0.53 kg [1.17 lb]
Accuracy ± 15%	1.9-7.5 l/min
	[0.5-2 US gal/min]
± 10%	7.6-64.3 l/min
	[2-17 US gal/min]
Cavity	SDC16-3

#### **DIMENSIONS**

 $\,mm\,in$ 

Cross-sectional view





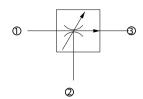


Adjustable, Priority Type CP310-2

#### **OPERATION**

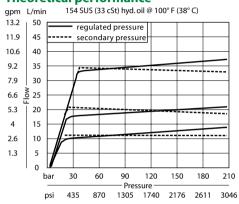
This valve is a limited adjustment, pressure compensated, priority-type flow control valve.

### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



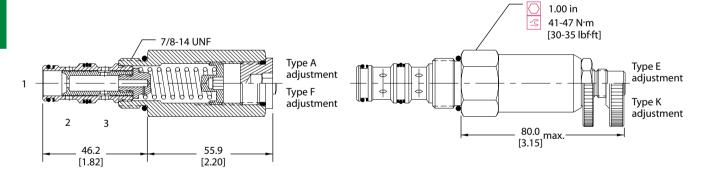
## **Specifications**

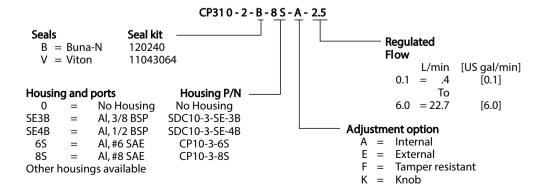
Rated pressure	210 bar [3000 psi]	
Max regulated flow	23 l/min	
	[6 US gal/min]	
Max inlet flow	38 l/min	
	[10 US gal/min]	
Weight	0.24 kg [0.52 lb]	
Cavity	SDC10-3	

#### **DIMENSIONS**

mm in

### Cross-sectional view





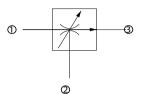


Adjustable, Priority Type VRC 06

#### **OPERATION**

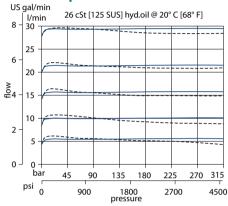
This valve is a limited adjustment, pressure compensated, priority-type flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## **Theoretical performance**



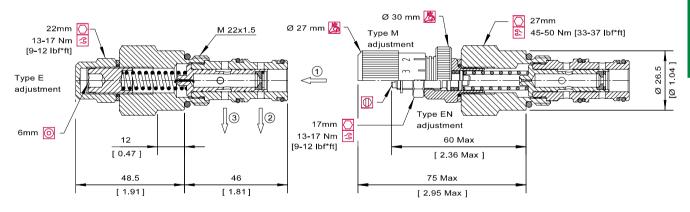
## **Specifications**

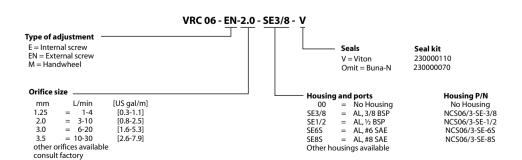
Rated pressure	315 bar [4500 psi]
Max regulated	30 l/min
flow	[8 US gal/min]
Max inlet flow	50 l/min
	[13 US gal/min]
Weight	0.21 kg [0.46 lb]
Cavity	NCS06/3

#### **DIMENSIONS**

mm in

### Cross-sectional view





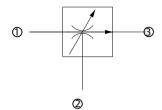


Adjustable, Priority Type VRC 12

### **OPERATION**

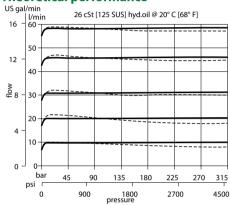
This valve is a limited adjustment, pressure compensated, priority-type flow control valve.

#### **Schematic**



#### **SPECIFICATIONS**

## Theoretical performance



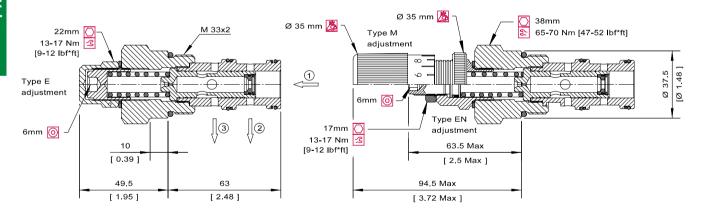
## **Specifications**

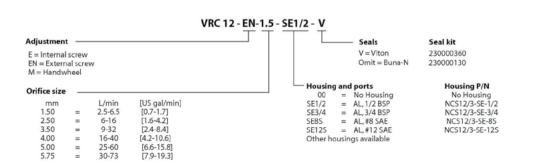
•		
Rated pressure	315 bar [4500 psi]	
Max regulated flow	73 l/min	
	[19 US gal/min]	
Max inlet flow	100 l/min	
	[26 US gal/min]	
Weight	0.50 kg [1.10 lb]	
Cavity	NCS12/3	

### **DIMENSIONS**

mm in

### Cross-sectional view





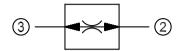


Fixed Setting, Bi-Directional CP300-6

#### **OPERATION**

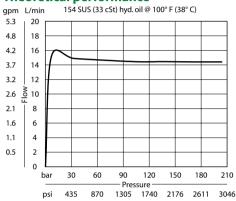
This valve is a fixed setting, pressure compensated, bi-directional flow control valve. NOTE: Port 1 must be blocked for proper operation.

#### **Schematic**



## **SPECIFICATIONS**

## Theoretical performance



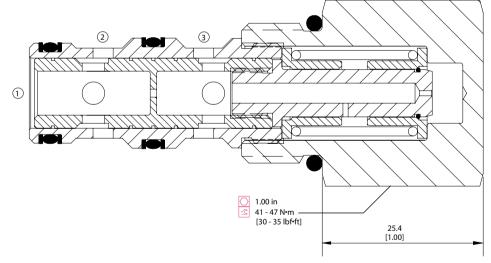
## **Specifications**

Rated pressure	210 bar [3000 psi]	
Max regulated	23 l/min	
flow	[6 US gal/min]	
Weight	0.13 kg [0.29 lb]	
Accuracy ± 20%	0.4-2.2 l/min	
	[0.1-0.6 US gal/min]	
± 15%	2.4-6.8 l/min	
	[0.6-1.8 US gal/min]	
± 10%	6.9-23 l/min	
	[1.8-6 US gal/min]	
Cavity	SDC10-3	

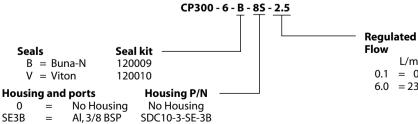
#### **DIMENSIONS**

mm in

### Cross-sectional view







0	=	No Housing	No Housing
SE3B	=	AI, 3/8 BSP	SDC10-3-SE-3B
SE4B	=	Al, 1/2 BSP	SDC10-3-SE-4B
6S	=	AI, #6 SAE	CP10-3-6S
8S	=	AI, #8 SAE	CP10-3-8S

Other housings available

FC - 35

[US gal/min]

[0.1]

[6.0]

L/min

0.1 = 0.4

6.0 = 23.0

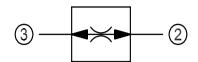


Fixed Setting, Bi-Directional FCH10-BD

#### **OPERATION**

This valve is a fixed setting, pressure compensated, bi-directional flow control valve. NOTE: Port 1 must be blocked for proper operation.

#### Schematic

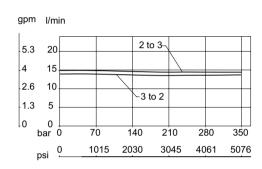


#### **SPECIFICATIONS**

#### **Theoretical performance**

Performance

33 cSt [154 SUS] hyd.oil @ 38°C [100° F]

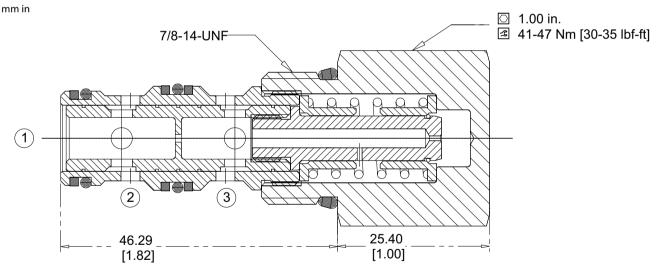


## **Specifications**

Rated pressure	350 bar [5075 psi]	
Max regulated flow	23 l/min	
	[6 US gal/min]	
Weight	0.14 kg [0.34 lb]	
Accuracy ± 20%	0.4-2.2 l/min	
	[0.1-0.6 US gal/min]	
± 15%	2.3-22.7 l/min	
	[0.6-6.0 US gal/min]	
Cavity	SDC10-3	

#### **DIMENSIONS**

Cross-sectional view



# ORDERING INFORMATION

#### FCH10-BD-3.8-U-00 Housing and ports Housing Part # 00 = No Housing No Housing Regulated Flow-SDC10-3-DG-3B DG-3B = AI, 3/8 BSP 0.4 = 0.4 lpm [0.1 gpm]DG-4B = AI, 1/2 BSP SDC10-3-DG-4B 6S = AI, #6 SAE CP10-3-6S 22.7 = 22.7 [pm [6.0 gpm]8S = AI, #8 SAE CP10-3-8S Seals Seal Kit U = Urethane 120726



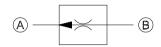
In-line SC 10

### **OPERATION**

This is an in-line restrictive type flow control valve.

### **Schematic**

### **SPECIFICATIONS**

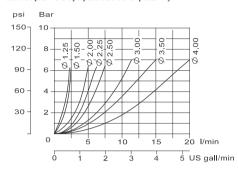


### **Specifications**

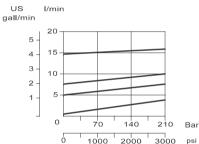
Pressure rating	210 bar [3000 psi]
Max regulated flow	16 l/min
	[4.2 US gal/min]
Cavity	Consult factory

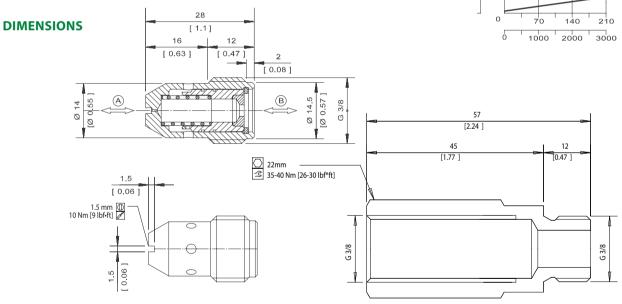
### **Theoretical performance**

Pressure drop from A ⇒B according to orifice diameter 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



Variation in controlled flow from B ⇒A according to pressure 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]





	S	C10 - 1.25 - G - 00	
Orifice			– 00 = Cartridge only
diamete	er	Flow at 100 bar [1450 psi]	L = 3/8 BSP
mm		l/min [US gal/min]	
1.25	=	2.0[0.53]	
1.50	=	3.0[0.79]	
2.00	=	4.0[1.06]	
2.25	=	5.0[1.32]	
2.50	=	6.0[1.59]	
3.00	=	9.0[2.38]	
3.50	=	11.0[2.91]	
4.00	=	16.0[4.23]	

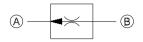


In-line SC 13

### **OPERATION**

This is an in-line restrictive type flow control valve.

### **Schematic**



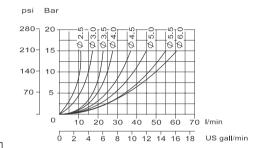
### **SPECIFICATIONS**

### **Specifications**

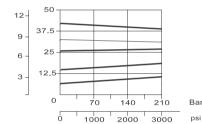
Pressure rating	207 bar [3000 psi]
Max regulated flow	47 l/min
	[12 US gal/min]
Cavity	Consult factory

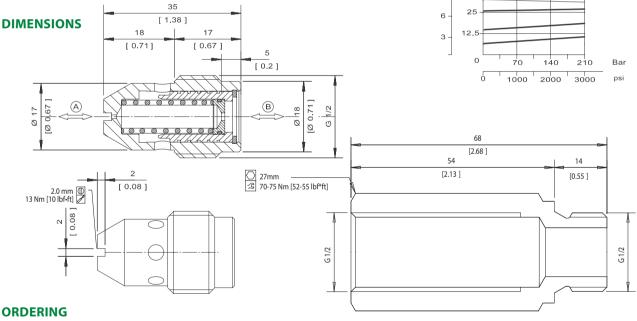
### **Theoretical performance**

Pressure drop from A⇒B according to orifice diameter 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



Variation in controlled flow from B⇒A according to pressure 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]





# **INFORMATION**

SC13/4.5 - G - 00 Orifice flow-00 = Cartridge only Orifice diameter Flow at 100 bar [1450 psi] L = 1/2 BSPmm I/min [US gal/min 2.50 9 [2.38] 3.00 12 [3.17] 3.50 17 [4.49] 4.00 = 21 [5.55] 4.50 = 27 [7.13] 5.00 32 [8.45] 5.50 40 [10.57] 6.00 47 [12.42]



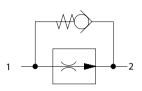
In-line CP9014-1

### **OPERATION**

This is an in-line restrictive type flow control valve with free reverse flow.

### **SPECIFICATIONS**

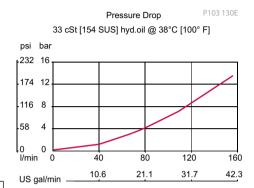
### **Schematic**

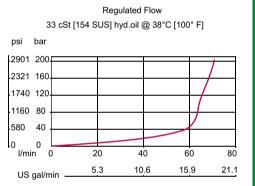


### **Specifications**

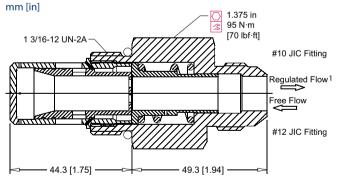
Pressure rating	207 bar [3000 psi]
Rated Free Flow at 7 bar	113 l/min
[100 psi]	[30 US gal/min]
Max regulated flow	106 l/min
	[28 US gal/min]
Cavity	Modified SAE #14 port

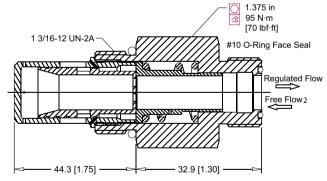
### **Theoretical performance**

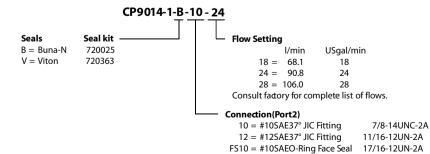














Velocity Fuse

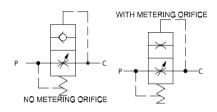
BC 06

### **OPERATION**

### **SPECIFICATIONS**

This is an in-line flow limiter that closes and then provides non-compensated restricted flow when the specified flow setting is exceeded. The valve provides free reverse flow when operated in the opposite direction.

### **Schematic**

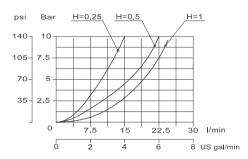


### **Specifications**

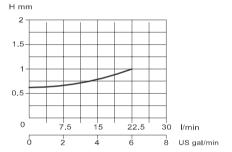
Pressure rating	210 bar [3000 psi]
Rated Free Flow at 7 bar	30 l/min
[100 psi]	[8 US gal/min]
Cavity	Consult factory

### **Theoretical performance**

Pressure drop from P⇒C according to Adjustment H 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]

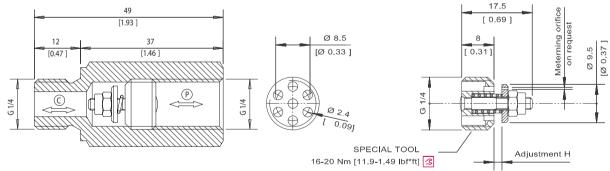


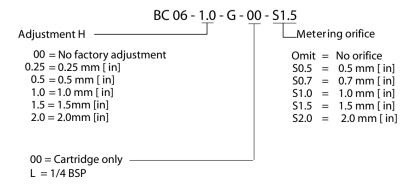
Values for adjustment H are guideline only, being conditioned by a variety of factors (oil temperature and viscosity, volume and flexibility of circuits).



### **DIMENSIONS**

mm [in]







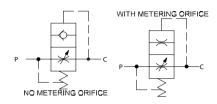
Velocity Fuse BC 10

### **OPERATION**

### **SPECIFICATIONS**

This is an in-line flow limiter that closes and then provides non-compensated restricted flow when the specified flow setting is exceeded. The valve provides free reverse flow when operated in the opposite direction.

### Schematic

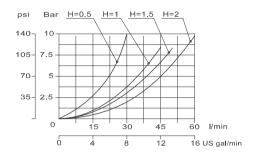


# Specifications

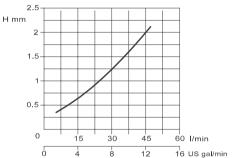
Pressure rating	210 bar [3000 psi]
Rated Free Flow at 7 bar	60 l/min
[100 psi]	[16 US gal/min]
Cavity	Consult factory

### **Theoretical performance**

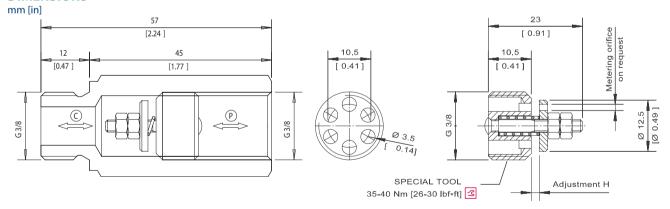
Pressure drop from P⇔C according to Adjustment H 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]

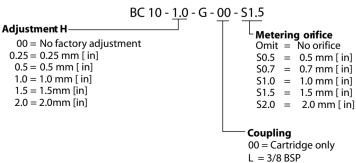


Values for adjustment H are guideline only, being conditioned by a variety of factors (oil temperature and viscosity, volume and flexibility of circuits).



### **DIMENSIONS**



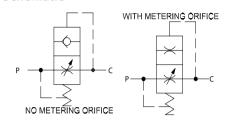


### **OPERATION**

### **SPECIFICATIONS**

This is an in-line flow limiter that closes and then provides non-compensated restricted flow when the specified flow setting is exceeded. The valve provides free reverse flow when operated in the opposite direction.

### **Schematic**

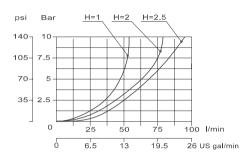


### **Specifications**

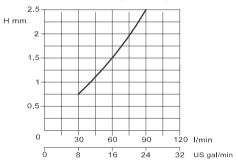
Pressure rating	210 bar [3000 psi]
Rated Free Flow at 7 bar	85 l/min
[100 psi]	[30 US gal/min]
Cavity	Consult factory

### **Theoretical performance**

Pressure drop from P⇒C according to Adjustment H 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]

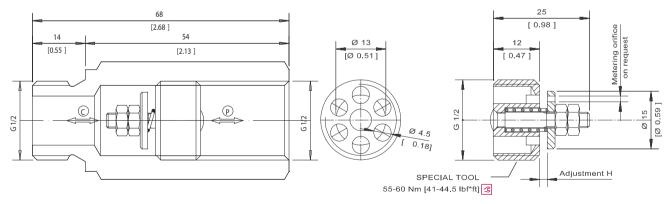


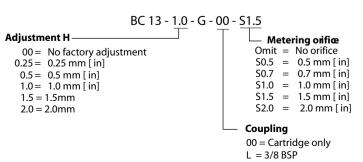
Values for adjustment H are guideline only, being conditioned by a variety of factors (oil temperature and viscosity, volume and flexibility of circuits).



### **DIMENSIONS**

mm in



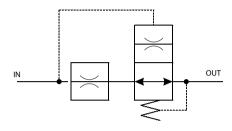




### **OPERATION**

This is an in-line flow limiter that closes and then provides non-compensated restricted flow when the specified flow setting is exceeded. The valve provides free reverse flow when operated in the opposite direction.

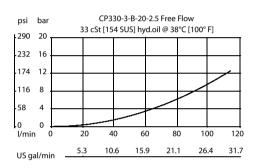
### SPECIFICATIONS Schematic



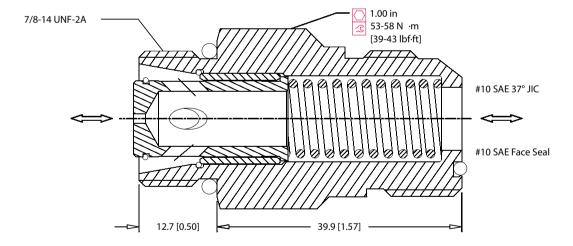
### **Specifications**

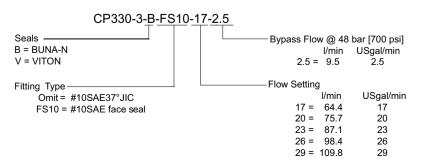
Pressure rating	207 bar [3000 psi]	
Max Trip Flow	110 l/min	
	[29 US gal/min]	
Bypass Flow	9.5 lpm	
	[2.5 gal/min]	
Weight	0.12 kg [0.26 lbs]	
Cavity	#10 SAE Port	

### **Theoretical performance**



### **DIMENSIONS**





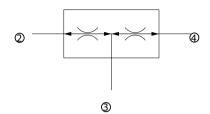


Flow Divider/Combiner CP340-1

### **OPERATION**

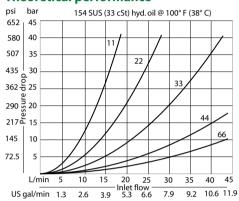
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



### **SPECIFICATIONS**

### **Theoretical performance**

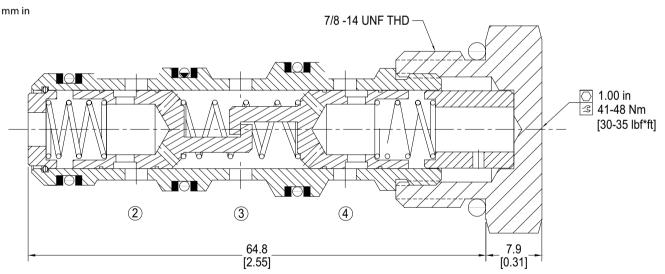


### **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow	45 l/min
[See Performance Chart]	[12 US gal/min]
Weight	0.11 kg [0.24 lb]
Cavity	SDC10-4

### **DIMENSIONS**

### Cross-sectional view



# ORDERING INFORMATION

# <u>CP340-1</u> - <u>B</u> - <u>6S</u> - <u>44</u>

Jean Option			
Code	Seal Material	Seal kit	
В	Buna	120023	_
V	Viton	120024	

Housings & Ports		Housing P/N
0: Cartridge Only		No Housing
3B:	3/8 BSP, AL	CP10-4-2B-X1
4B:	1/2 BSP, AL	CP10-4-3B-X1
6S:	#6 SAE, AL	CP10-4-6S-X1
8S:	#8 SAE, AL	CP10-4-8S-X1

Other Housings available

	Flow Ratio	
Code	Port 2: Port 4	Total Flow
11	1:1	7.6 L/min [2 gpm]
22	1:1	15 L/min [4 gpm]
33	1:1	23 L/min [6 gpm]
36	1:2	34 L/min [9 gpm]
44	1:1	30 L/min [8 gpm]
46	2:3	38 L/min [10 gpm]
63	2:1	34 L/min [9 gpm]
64	3:2	38 L/min [10 gpm]
66	1:1	45 L/min [12 anm]

Flow Settings

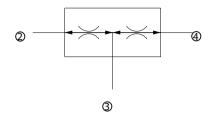


Flow Divider/Combiner VDF 06

### **OPERATION**

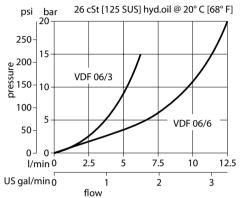
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



#### **SPECIFICATIONS**

### **Theoretical performance**

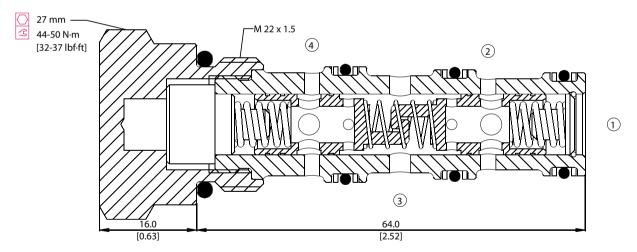


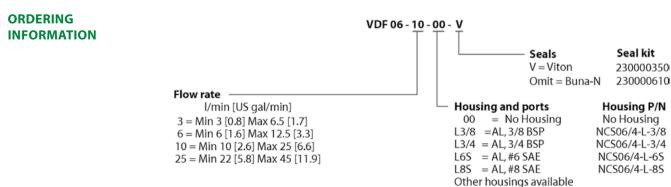
### **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow	45 l/min
[See Performance Chart]	[12 US gal/min]
Weight	0.15 kg [0.33 lb]
Cavity	NCS06/4

### **DIMENSIONS**

### Cross-sectional view





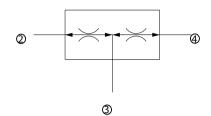


Flow Divider/Combiner CP341-1

### **OPERATION**

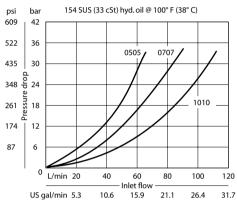
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



### **SPECIFICATIONS**

### **Theoretical performance**

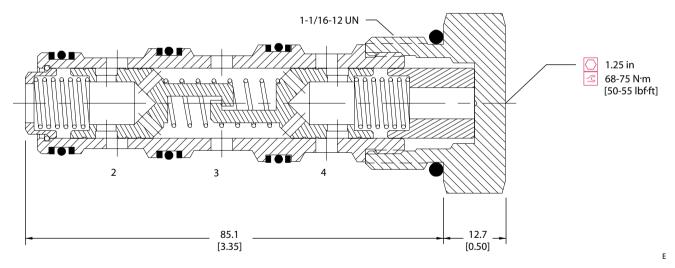


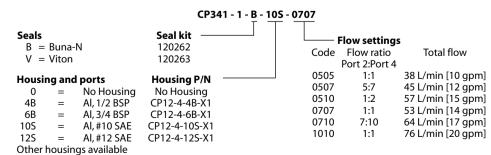
### **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow	75 l/min
[See Performance Chart]	[20 US gal/min]
Weight	0.23 kg [0.50 lb]
Cavity	CP12-4

### **DIMENSIONS**

### Cross-sectional view





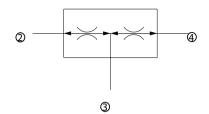


Flow Divider/Combiner CP342-1

### **OPERATION**

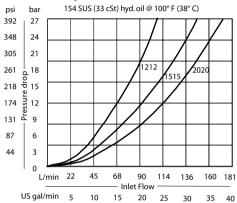
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



### **SPECIFICATIONS**

### **Theoretical performance**

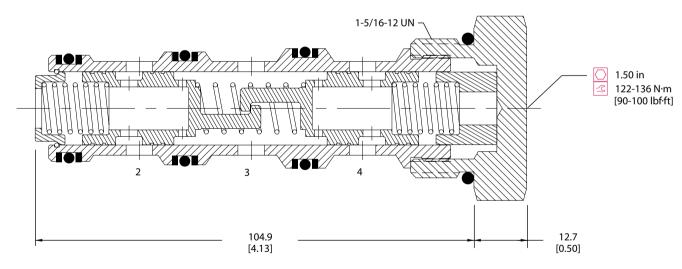


### **Specifications**

Rated pressure	210 bar [3000 psi]
Rated flow	150 l/min
[See Performance Chart]	[40 US gal/min]
Weight	0.37 kg [0.81 lb]
Cavity	CP16-4

### **DIMENSIONS**

### Cross-sectional view



CP342 - 1 - <u>B</u> - <u>165</u> - <u>1515</u>						
_	Buna- Viton	N	Seal kit	Code	Flow settings Flow ratio Port 2:Port 4 1:2	Total flow  30 gpm [114 L/min]
0 6B 8B 12S 16S	= = = =	No Housing Al, 3/4 BSP Al, 1 BSP Al, #12 SAE Al, #16 SAE	Housing P/N - No Housing CP16-4-6B-X1 CP16-4-8B-X1 CP16-4-12S-X1 CP16-4-16S-X1	1212 1215 1220 1512 1515 1520	1:1 4:5 3:5 5:4 1:1 3:4	24 gpm [91 L/min] 27 gpm [102 L/min] 32 gpm [121 L/min] 27 gpm [102 L/min] 30 gpm [114 L/min] 35 gpm [132 L/min]
Other h	nousin	igs available		2012 2015 2020	5:3 4:3 1:1	32 gpm [121 L/min] 35 gpm [132 L/min] 40 gpm [151 L/min]

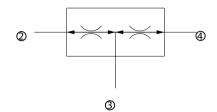


Flow Divider/Combiner CP342-3

### **OPERATION**

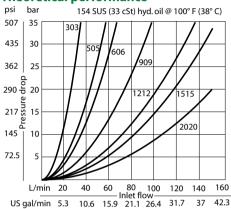
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



#### **SPECIFICATIONS**

### **Theoretical performance**

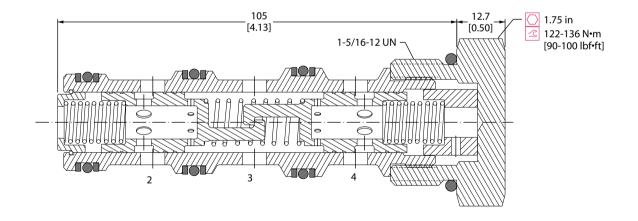


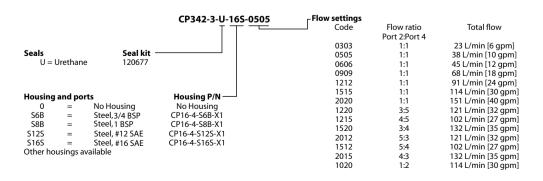
### **Specifications**

Rated pressure	450 bar [6500 psi]
Rated flow	150 l/min
[See Performance Chart]	[40 US gal/min]
Weight	0.37 kg [0.81 lb]
Cavity	CP16-4

### **DIMENSIONS**

### Cross-sectional view





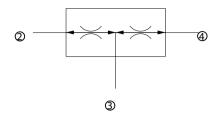


Flow Divider/Combiner CP343-1

### **OPERATION**

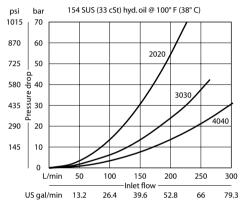
This valve is a fixed ratio, pressure compensated flow divider/combiner.

### **Schematic**



#### **SPECIFICATIONS**

### **Theoretical performance**

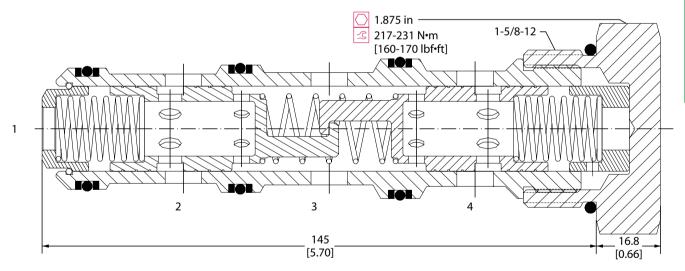


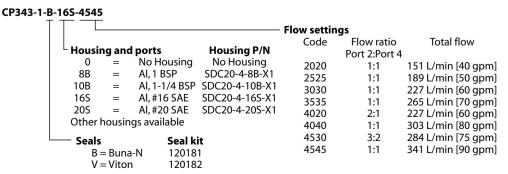
### **Specifications**

- p	
Rated pressure	210 bar [3000 psi]
Rated flow	340 l/min
[See Performance Chart]	[90 US gal/min]
Weight	1.13 kg [2.50 lb]
Cavity	SDC20-4

### **DIMENSIONS**

### Cross-sectional view





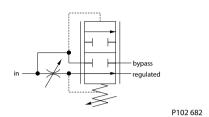


Catalog HIC 2F94-01

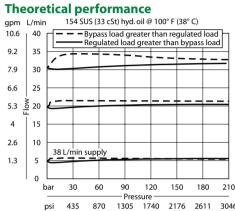
### **OPERATION**

This valve is an adjustable, priority-type, pressure compensated flow control valve.

### **Schematic**



#### **SPECIFICATIONS**

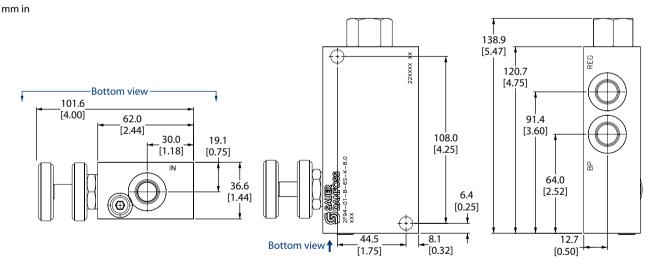


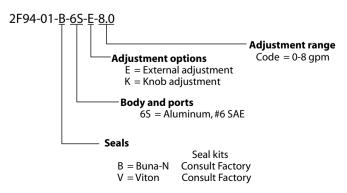
### **Specifications**

Rated pressure	210 bar [3000 psi]
Max regulated flow	30 l/min
	[8 US gal/min]
Max inlet flow	60 l/min
	[16 US gal/min]
Weight	1.00 kg [2.20 lb]
Cavity	none

### DIMENSIONS

### Cross-sectional view





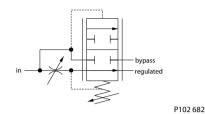


Catalog HIC 2F95-01

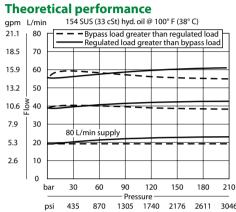
### **OPERATION**

This valve is an adjustable, priority-type, pressure compensated flow control valve.

### **Schematic**



#### **SPECIFICATIONS**



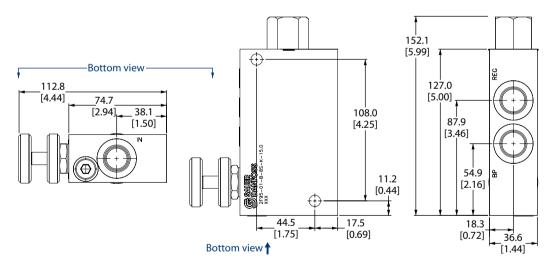
### **Specifications**

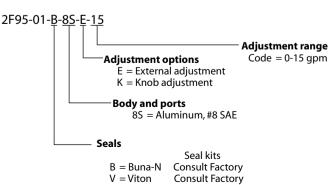
Rated pressure	210 bar [3000 psi]
Max regulated flow	60 l/min
	[16 US gal/min]
Max inlet flow	95 l/min
	[25 US gal/min]
Weight	1.00 kg [2.20 lb]
Cavity	none

### **DIMENSIONS**

### Cross-sectional view

mm in





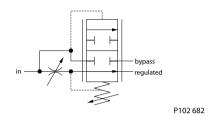


Catalog HIC 2F96-01

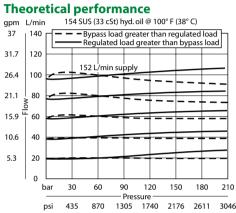
### **OPERATION**

This valve is an adjustable, priority-type, pressure compensated flow control valve.

### **Schematic**



### **SPECIFICATIONS**

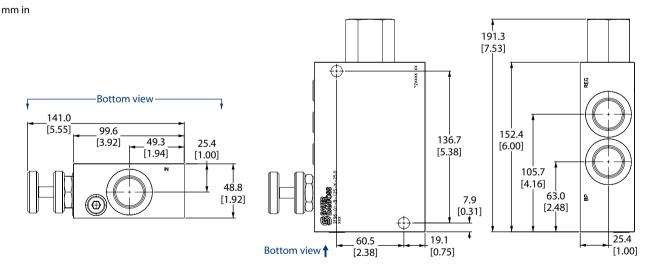


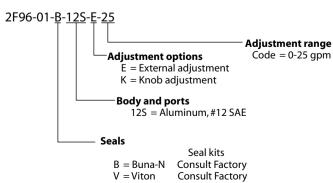
### **Specifications**

Rated pressure	210 bar [3000 psi]	
Max regulated flow	95 l/min	
	[25 US gal/min]	
Max inlet flow	150 l/min	
	[40 US gal/min]	
Weight	1.77 kg [3.90 lb]	
Cavity	none	

### DIMENSIONS

### Cross-sectional view





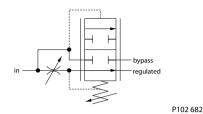


Catalog HIC 2F97-01

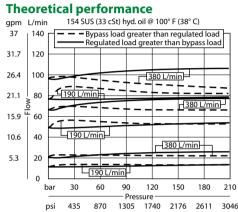
### **OPERATION**

This valve is an adjustable, priority-type, pressure compensated flow control valve.

### **Schematic**



#### **SPECIFICATIONS**



### **Specifications**

Rated pressure	210 bar [3000 psi]	
Max regulated flow	190 l/min	
	[50 US gal/min]	
Max inlet flow	380 l/min	
	[100 US gal/min]	
Weight	3.81 kg [8.40 lb]	
Cavity	none	

### **DIMENSIONS**

### Cross-sectional view

