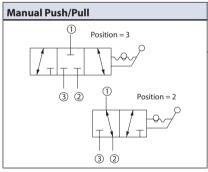


Cartridge Valves Technical Information Directional Control Valves Quick Reference

Manual Push/Pull	Model No.	Cavity	Description	Flow*	Pressure	Page
Position = 3	CP600-1	SDC10-2	Directional Mechanical,	68 l/min	210 bar	12.8
			Poppet, Pull to Open	[18 US gal/min]	[3000 psi]	
	CE 06	NCS06/2		20 l/min	210 bar	12.9
③ ② Position = 2				[5 US gal/min]	[3000 psi]	
	CP600-2	SDC10-2		50 l/min [13 US gal/min]	210 bar [3000 psi]	12.10
3 2						

Manual Push/Pull
Position = 3
③ ② ① Position = 2
3 2

Model No.	Cavity	Description	Flow*	Pressure	Page
DMP08-NC	SDC08-2	Directional Mechanical,	38 l/min		12.11
		Poppet, Normally Closed	[10 US gal/min]		



Model No.	Cavity	Description	Flow*	Pressure	Page
DMP08-NO	SDC08-2	Directional Mechanical,	38 l/min		12.12
		Poppet, Normally Open	[10 US gal/min]		

^{*} Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.

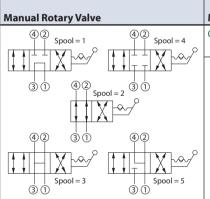
Page 12.13



Cartridge Valves Technical Information Directional Control Valves Quick Reference

Manual Rotary Valve	Model No.	Cavity	Description	Flow*	Pressure	
2	CP620-1	SDC10-2	Directional Manual, Rotary,	75 l/min	210 bar	
			2-Position, 2-Way	[20 US gal/min]	[3000 psi]	ı
1						

Manual Rotary Valve	Model No.	Cavity	Description	Flow*	Pressure	Page
Position = 3	CP630-1	SDC10-3	Directional Manual, Rotary,	30.3 l/min	210 bar	12.14
			2-Position, 3-Way	[8 US gal/min]	[3000 psi]	
3 2 1 Position = 2						



3 2

	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP640-1	SDC10-4	Directional Manual, Rotary,	10 l/min	210 bar	12.15
)			2-Position, 4-Way	[3 US gal/min]	[3000 psi]	

^{*} Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



3

Cartridge Valves Technical Information Directional Control Valves **Quick Reference**

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
②	CP710-8	SDC10-4	Directional Control Valve,	40 l/min	210 bar	12.16
Normally open			2-Position, 3-Way	[11 US gal/min]	[3000 psi]	
4 — M	CP712-11	CP16-4		130 l/min	450 bar	12.17
				[34 US gal/min]	[6500 psi]	
(2) (3) Normally closed	CP712-8	CP16-4		130 l/min	210 bar	12.18
				[34 US gal/min]	[3000 psi]	
3						

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
② Namedla 200	CP710-1	SDC10-3	Directional Control	40 l/min	210 bar	12.19
Normally open			Valve, 2-Position, 2-Way,	[11 US gal/min]	[3000 psi]	
Atmosphere — 1	CP712-1	SDC16-3	Atmospheric Vent	130 l/min	210 bar	12.20
<u> </u>				[34 US gal/min]	[3000 psi]	
3 Normally closed	CP713-1	SDC20-3		265 l/min	210 bar	12.21
Normally closed				[70 US gal/min]	[3000 psi]	
Atmosphere — (1)					

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
② Namedly and	CP710-3	SDC10-3	Directional Control Valve,	40 l/min	210 bar	12.22
Normally open			2-Position, 2-Way, Hydraulic	[11 US gal/min]	[3000 psi]	
			Vent			
③ Normally closed						

Model No.	Cavity	Description	Flow*	Pressure	Page
CP710-2	SDC10-3	Directional Control Valve,	40 l/min	210 bar	12.23
		2-Position, 2-Way	[11 US gal/min]	[3000 psi]	
CP712-2	SDC16-3		130 l/min	210 bar	12.24
			[34 US gal/min]	[3000 psi]	
CP713-2	SDC20-3		265 l/min	210 bar	12.25
			[70 US gal/min]	[3000 psi]	
	CP710-2 CP712-2	CP710-2 SDC10-3 CP712-2 SDC16-3	CP710-2 SDC10-3 Directional Control Valve, 2-Position, 2-Way CP712-2 SDC16-3	CP710-2 SDC10-3 Directional Control Valve, 2-Position, 2-Way 40 l/min [11 US gal/min] CP712-2 SDC16-3 130 l/min [34 US gal/min] CP713-2 SDC20-3 265 l/min	CP710-2 SDC10-3 Directional Control Valve, 2-Position, 2-Way 40 l/min [3000 psi] 210 bar [3000 psi] CP712-2 SDC16-3 130 l/min [3000 psi] 210 bar [34 US gal/min] [3000 psi] CP713-2 SDC20-3 265 l/min 210 bar

^{*} Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



Cartridge Valves Technical Information Directional Control Valves Quick Reference

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
3	CP720-1	SDC10-4	Directional Control	30 l/min	210 bar	12.26
Ĭ			Valve, 2-Position, 3-Way,	[8 US gal/min]	[3000 psi]	
Atmosphere—///	CP722-1	CP16-4	Atmospheric Vent	130 l/min	210 bar	12.27
/ / / - / - / - / - / - / - / - / - / -				[34 US gal/min]	[3000 psi]	
	CP723-1	SDC20-4		265 l/min	210 bar	12.28
4 2				[70 US gal/min]	[3000 psi]	

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
3	CP720-2	SDC10-4	3w 2p double pilot	25 l/min	210 bar	12.29
			operated spool	[7 US gal/min]	[3000 psi]	
⊗—///	CP722-2	CP16-4		130 l/min	210 bar	12.30
W - 7 V V T 1 7 T W				[34 US gal/min]	[3000 psi]	
	CP723-2	SDC20-4		265 l/min	210 bar	12.31
4 2				[70 US gal/min]	[3000 psi]	

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
3	CP720-5	SDC10-4	Directional Control Valve, 2-Position, 3-Way	40 l/min [11 US gal/min]	210 bar [3000 psi]	12.32
	CP722-11	CP16-4		125 l/min	450 bar	12.33
/\/\/	CD722.5	CD16.4	 -	[33 US gal/min]	[6500 psi]	12.24
4 2	CP722-5	CP16-4		130 l/min [34 US gal/min]	210 bar [3000 psi]	12.34
	CP723-5	SDC20-4		265 l/min	210 bar	12.35
				[70 US gal/min]	[3000 psi]	

Hydraulic Piloted	Model No.	Cavity	Description	Flow*	Pressure	Page
② Normally open ④ — / / T ①	CP712-7	CP16-4	Directional Control Valve, Normally Closed/Open, External Pilot, External Drain	220 l/min [58 US gal/min]	210 bar [3000 psi]	12.36
3 Normally closed 4 — 1						

^{*} Flow ratings are based on a pressure drop of 7 bar [100 psi] unless otherwise noted. They are for comparison purposes only.



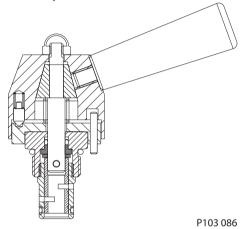
Cartridge Valves Technical Information **Directional Control Valves Application Notes**

TYPES OF DIRECTIONAL CONTROL VALVES

Directional valves are either manually or hydraulically actuated spools.

Manually-actuated valves are available as 2-way, 3-way, and 4-way valves, and are used either for flow or direction control.

Manually actuated valve



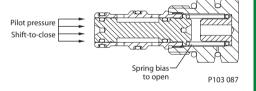
Hydraulically-actuated spool valves are available as 2-way (normally-open or normally-closed), 3-way, and 4-way valves, and are used for direction control. These are all 2-position valves that are spring-biased to a neutral position and use 3-10 bar [40-150 psi] hydraulic pressure to shift the spool.

Directional control valves



F102 007

Hydraulically actuated spool valve





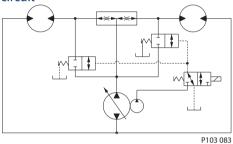
Cartridge Valves Technical Information Directional Control Valves Application Notes

APPLICATIONS

Common applications include:

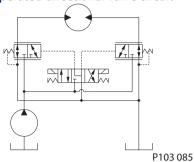
- Directional control valves for high flow with pilot pressure controlled by solenoid valves.
- Bypass valves for flow dividers in vehicle traction circuits.

Pilot-operated bypass valves for traction circuit

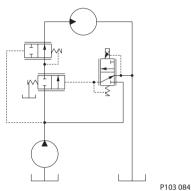


A hydraulically-actuated spool valve (CP712-7) is also available to create an infinitely variable orifice that is controlled by pilot pressure. This valve is typically used in a circuit with a proportional pressure reducing valve

Pilot-operated directional valve circuit



Pilot-operated proportional flow control circuit



(e.g. CP558-24) and a pressure compensator (e.g. CP312-4). Such a circuit creates a pressure-compensated proportional flow control for flows too large for direct-acting proportional valves.

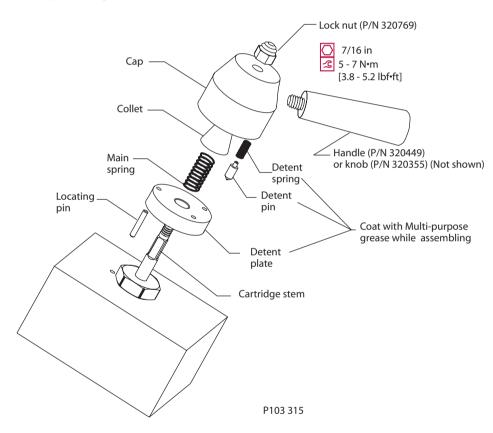


Cartridge Valves Technical Information **Directional Control Valves Application Notes**

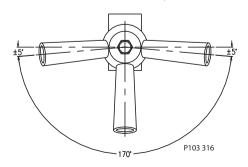
INSTALLATION

- 1. Install cartridge.
- 2. Place locating pin in the hole in the block.
- 3. Install detent plate over the cartridge stem and locating pin.
- 4. Place the main spring over the cartridge stem.
- 5. Install the collet into the cap.
- 6. Place the detent spring and detent pin into cap and install cap over the assembly as shown.
- 7. Place the lock nut and torque as shown.
- 8. Thread handle or knob into cap.

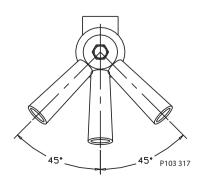
Assembly Drawing



Handle orientation for 2-way valve.



Handle orientation for 3-way and 4-way valves.





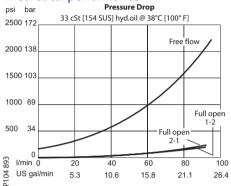
Cartridge Valves Technical Information Directional Control Valves Manual Push Pull CP600-1

OPERATION

SPECIFICATIONS

This valve allows free-flow from 1 to 2 and blocks from 2 to 1. It is manually operated with or without knob.

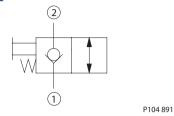
Theoretical performance



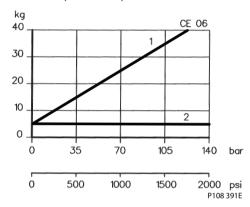
Specifications

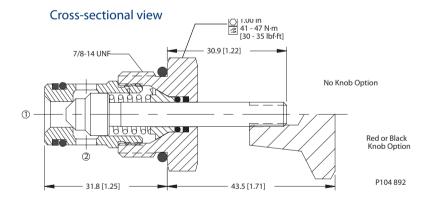
Rated pressure	207 bar [3002 psi]
Rated flow at 7 bar	68 l/min [18 US gal/min]
[100 psi]	
Leakage	6 drops/min @ at rated
	pressure
Weight	0.11 kg [0.24 lb]
Cavity	SDC10-2

Schematic

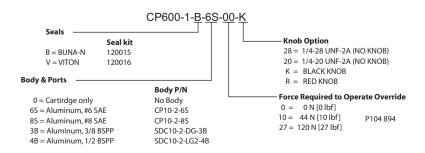


Force required to operate override





ORDERING INFORMATION



DIMENSIONS

mm [in]



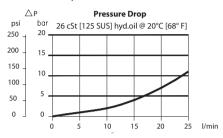
Cartridge Valves Technical Information **Directional Control Valves** Manual Push Pull **CE 06**

OPERATION

This is a normally-closed, manuallyoperated, bi-directional poppet valve.

Theoretical performance

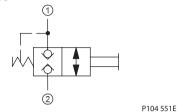
SPECIFICATIONS



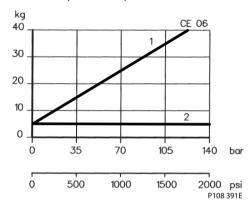
Specifications

Rated pressure	315 bar [4500 psi]
Rated flow at 7 bar	20 l/min [5 US gal/min]
[100 psi]	
Weight	0.20 kg [0.44 lb]
Cavity	NCS06/2

Schematic



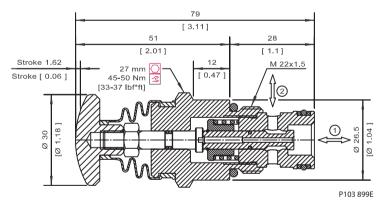
Force required to operate override

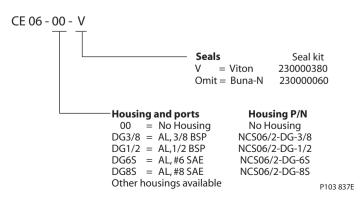


mm [in]

DIMENSIONS

Cross-sectional view





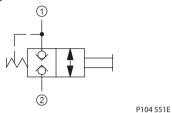


Cartridge Valves Technical Information Directional Control Valves Manual Rotary Valve CP600-2

OPERATION

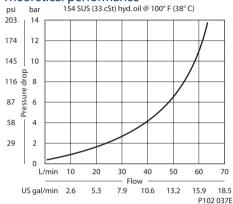
This valve is a normally closed, manually operated, bi-directional poppet valve.

Schematic



SPECIFICATIONS

Theoretical performance



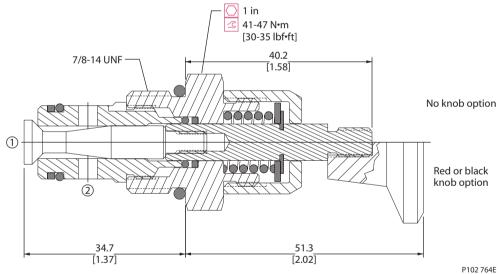
Specifications

-		
Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	50 l/min [13 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.11 kg [0.25 lb]	
Cavity	SDC10-2	

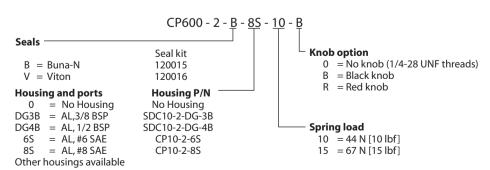
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 765E



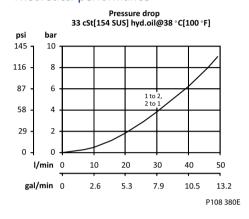
Cartridge Valves Technical Information **Directional Control Valves** Manual Rotary Valve DMP08-NC

OPERATION

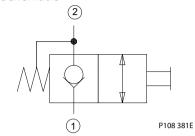
This valve is a normally closed, manually operated, poppet type valve with free reverse flow..

SPECIFICATIONS

Theoretical performance



Schematic



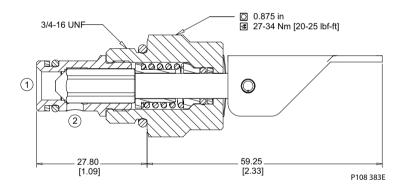
Specifications

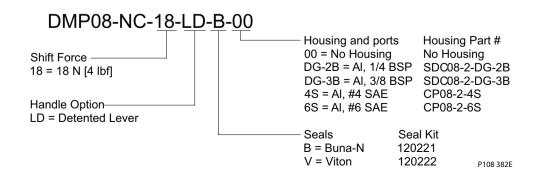
Rated pressure	207 bar [3000 psi]
Rated flow at 7 bar	48 l/min [12.7 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.12 kg [0.27 lb]
Cavity	SDC08-2

DIMENSIONS

mm [in]

Cross-sectional view





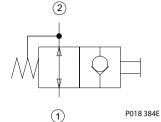


Cartridge Valves Technical Information Directional Control Valves Manual Rotary Valve DMP08-NO

OPERATION

This valve is a normally open, manually operated, poppet type valve with free reverse flow..

Schematic



SPECIFICATIONS

Theoretical performance

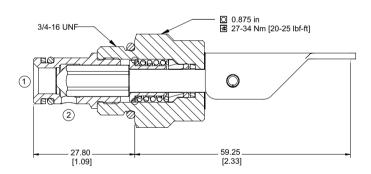
Pressure drop 33 cSt[154 SUS] hyd.oil@38°C[100°F] psi bar 145 10 116 8 87 6 58 29 0 40 I/min 0 gal/min 0 2.6 5.3 7.9 10.5 13 2 P108 385E

Specifications

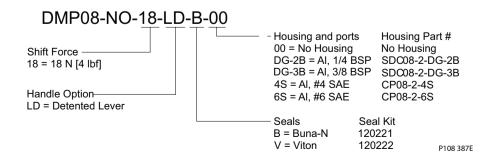
p		
Rated pressure	207 bar [3000 psi]	
Rated flow at 7 bar	48 l/min [12.7 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.12 kg [0.27 lb]	
Cavity	SDC08-2	

DIMENSIONS mm [in]

Cross-sectional view



P108 387E





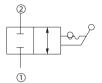
Cartridge Valves Technical Information Directional Control Valves Manual Rotary Valve CP620-1

OPERATION

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

Refer to application notes for installation details.

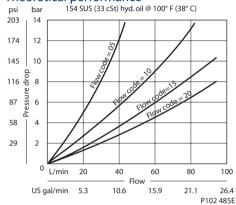
Schematic



P102 503E

SPECIFICATIONS

Theoretical performance



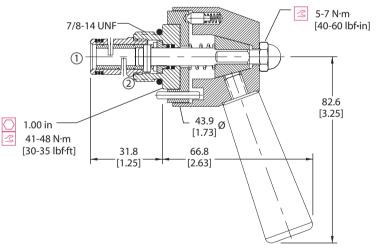
Specifications

Specifications		
Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	75 l/min [20 US gal/min]	
[100 psi]		
Leakage	82 cm³/min [5 in³/min] @	
	Rated pressure	
Weight	0.31 kg [0.69 lb]	
Cavity	SDC10-2	

DIMENSIONS

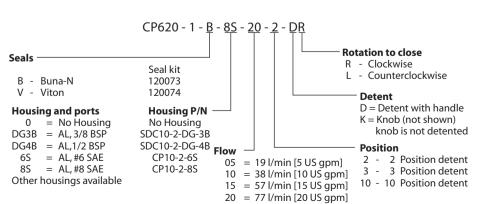
mm [in]

Cross-sectional view



P102 473E

ORDERING INFORMATION



P102 893E



Cartridge Valves Technical Information **Directional Control Valves** Manual Rotary Valve CP630-1

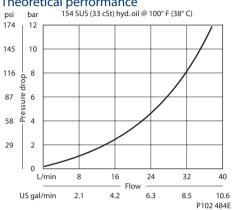
OPERATION

This valve is a 2 position 3 way manual directional control.

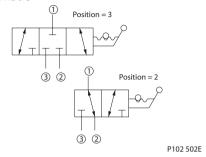
Refer to application notes for installation details.

SPECIFICATIONS

Theoretical performance



Schematic

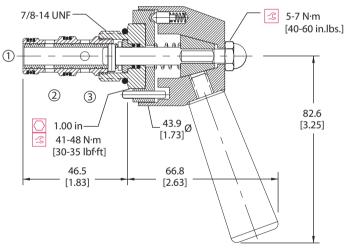


Specifications

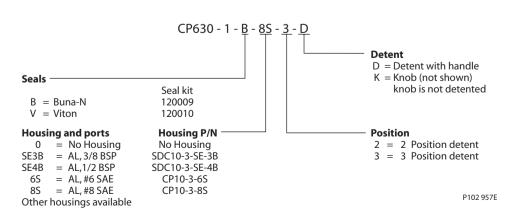
Specifications		
Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	30 l/min [8 US gal/min]	
[100 psi]		
Leakage	82 cm ³ /min [5 in ³ /min] @	
	Rated pressure	
Weight	0.32 kg [0.71 lb]	
Cavity	SDC10-3	

DIMENSIONS mm [in]

Cross-sectional view



P102 472E





Cartridge Valves Technical Information **Directional Control Valves** Manual Rotary Valve CP640-1

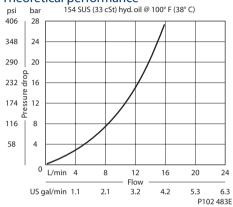
OPERATION

This valve is a 3 position 4 way manual directional control.

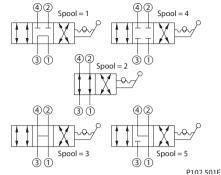
Refer to application notes for installation details.

SPECIFICATIONS

Theoretical performance



Schematic



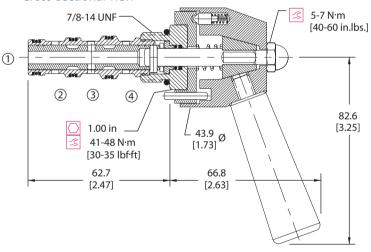
Specifications

- p	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	10 l/min [3 US gal/min]
[100 psi]	
Leakage	82 cm ³ /min [5 in ³ /min] @
	Rated pressure
Weight	0.35 kg [0.77 lb]
Cavity	SDC10-4

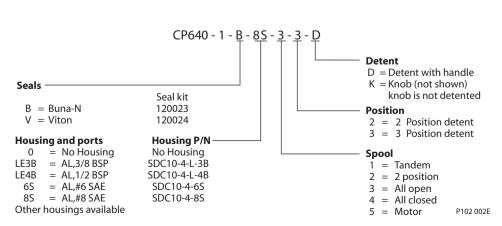
DIMENSIONS

mm [in]

Cross-sectional view



P102 471E



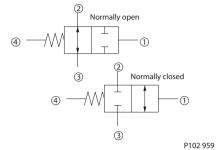


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP710-8

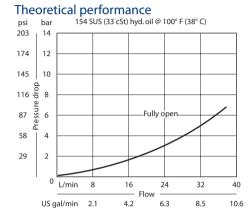
OPERATION

This valve is a 2-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS



4.2

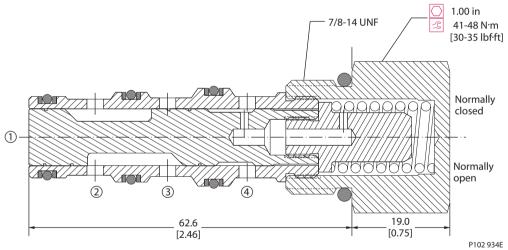
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min [11 US gal/min]
[100 psi]	
Weight	0.15 kg [0.33 lb]
Cavity	SDC10-4

DIMENSIONS

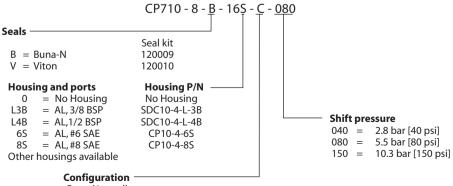
mm [in]

Cross-sectional view



10.6 P102 482E

ORDERING INFORMATION



O = Normally open= Normally closed

P102 935E



Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP712-11

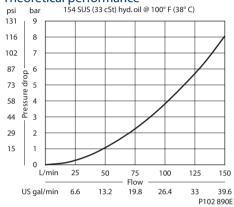
OPERATION

This valve is a 2-way double hydraulically piloted spool.

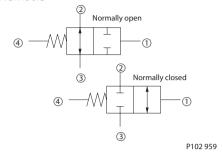
Note: Maximum pressure at port 4 is 207 bar [3000 psi].

SPECIFICATIONS





Schematic



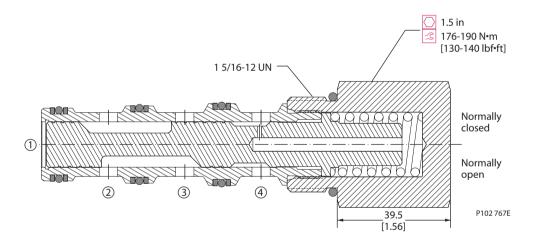
Specifications

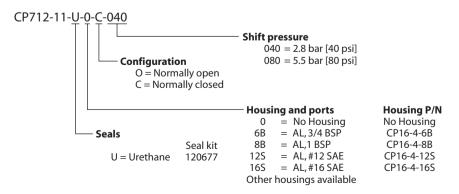
Rated pressure	450 bar [6500 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Leakage	328 cm ³ /min [20 in ³ /min] @
	210 bar [3000 psi]
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

DIMENSIONS

mm [in]

Cross-sectional view





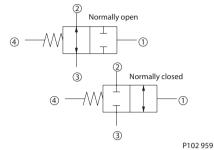


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP712-8

OPERATION

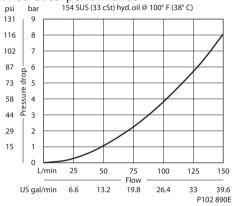
This valve is a 2-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS





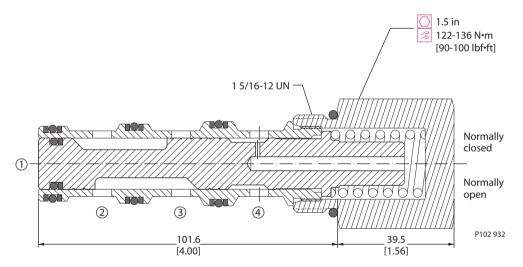
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

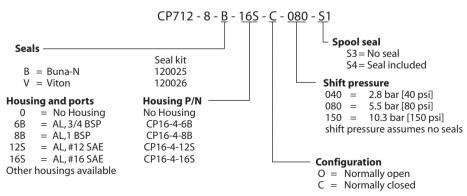
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 933E



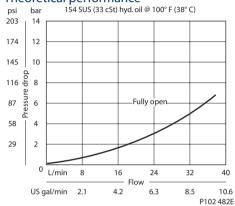
Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP710-1

OPERATION

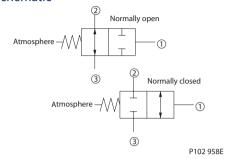
This valve is a hydraulically operated spool with atmospheric vent.

SPECIFICATIONS

Theoretical performance



Schematic



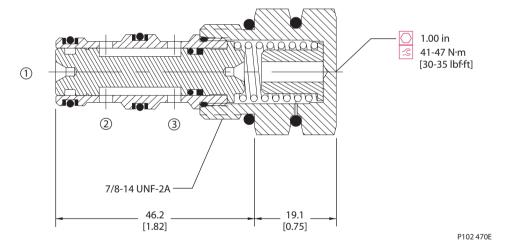
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min [11 US gal/min]
[100 psi]	
Weight	0.13 kg [0.29 lb]
Cavity	SDC10-3

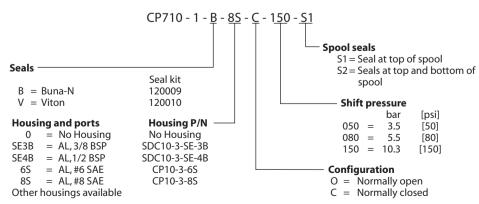
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 004E

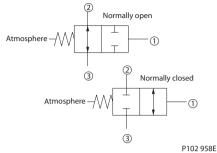


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP712-1

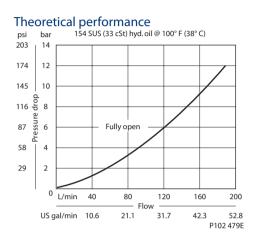
OPERATION

This valve is a hydraulically operated spool with atmospheric vent.

Schematic



SPECIFICATIONS

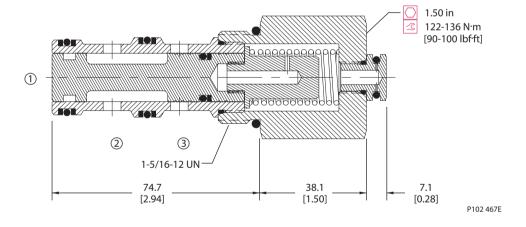


Specifications

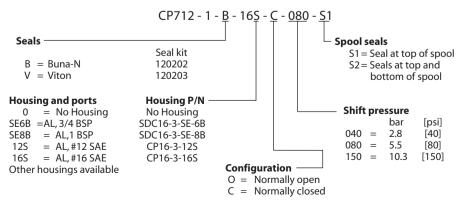
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.57 kg [1.25 lb]
Cavity	SDC16-3

DIMENSIONS mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 953E



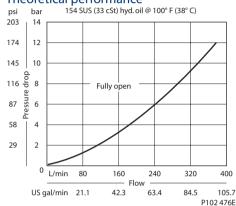
Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP713-1

OPERATION

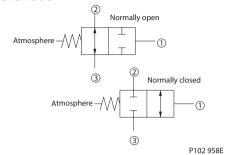
This valve is a hydraulically operated spool with atmospheric vent.

SPECIFICATIONS

Theoretical performance



Schematic



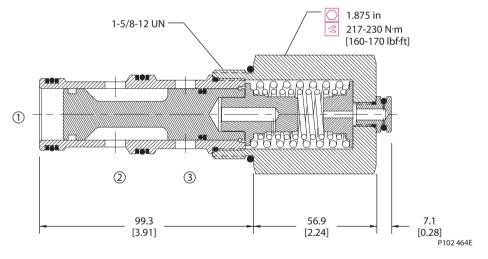
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	265 l/min [70 US gal/min]
[100 psi]	
Weight	1.26 kg [2.78 lb]
Cavity	SDC20-3

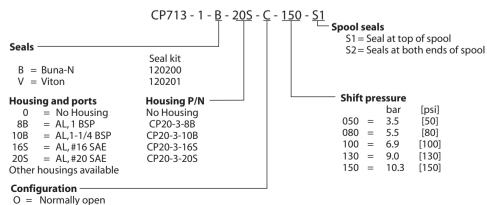
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



C = Normally closed

P102 954E



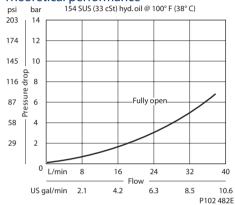
Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP710-3

OPERATION

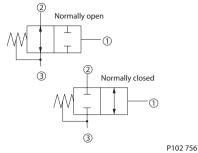
This valve is a 2-way hydraulically piloted spool.

SPECIFICATIONS

Theoretical performance



Schematic

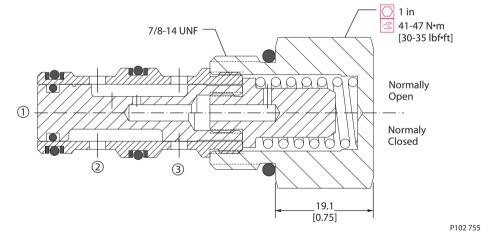


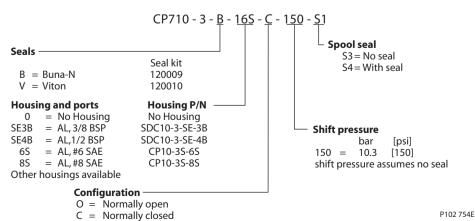
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min [11 US gal/min]
[100 psi]	
Weight	0.13 kg [0.29 lb]
Cavity	SDC10-3

DIMENSIONS mm [in]

Cross-sectional view





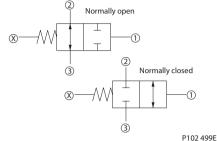


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP710-2

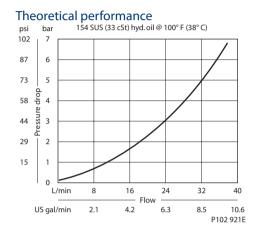
OPERATION

This valve is a 2-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS



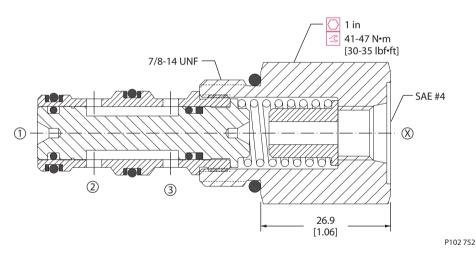
Specifications

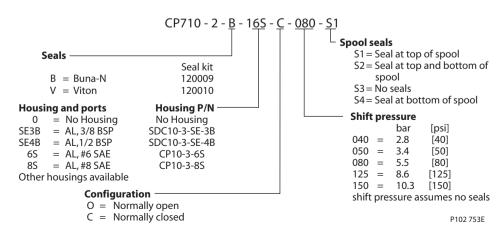
000000000000000000000000000000000000000	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min [11 US gal/min]
[100 psi]	
Weight	0.13 kg [0.29 lb]
Cavity	SDC10-3

DIMENSIONS

mm [in]

Cross-sectional view





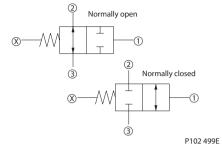


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP712-2

OPERATION

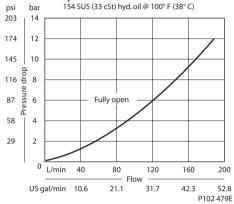
This valve is a 2-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS

Theoretical performance bar

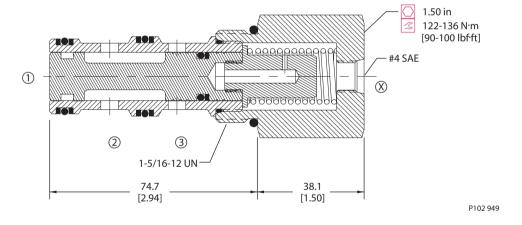


Specifications

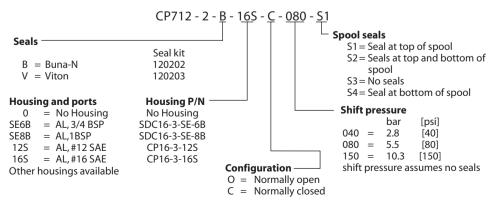
Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.57 kg [1.25 lb]
Cavity	SDC16-3

DIMENSIONS mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 007E

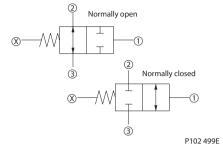


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP713-2

OPERATION

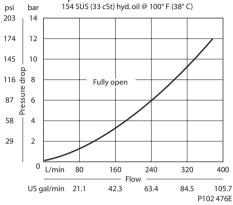
This valve is a 2-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS

Theoretical performance



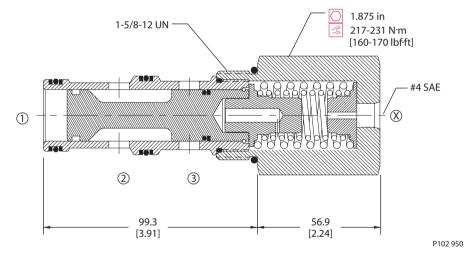
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	265 l/min [70 US gal/min]
[100 psi]	
Weight	1.26 kg [2.78 lb]
Cavity	SDC20-3

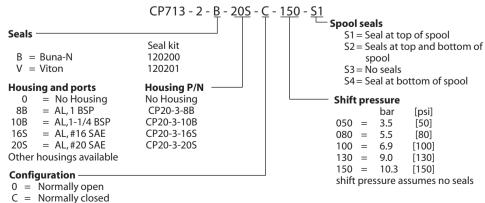
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 014F

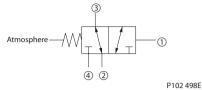


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP720-1

OPERATION

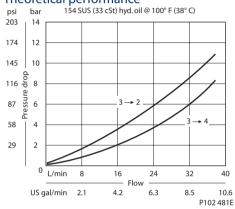
This valve is a 3-way hydraulically piloted spool with atmospheric vent.

Schematic



SPECIFICATIONS



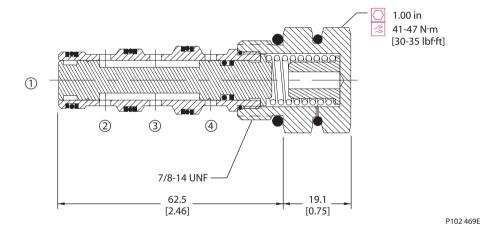


Specifications

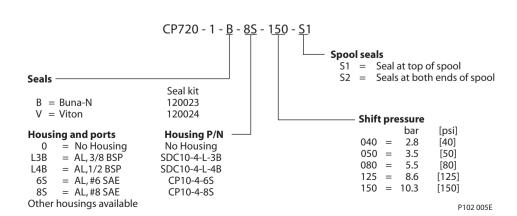
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	30 l/min [8 US gal/min]
[100 psi]	
Weight	0.15 kg [0.33 lb]
Cavity	SDC10-4

DIMENSIONS mm [in]

Cross-sectional view



ORDERING INFORMATION



12.26

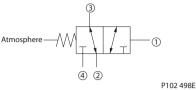


Cartridge Valves Technical Information **Directional Control Valves** Hydraulic Piloted CP722-1

OPERATION

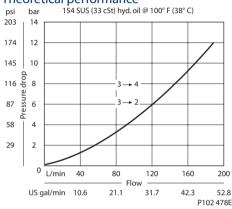
This valve is a 3-way hydraulically piloted spool with atmospheric vent.

Schematic



SPECIFICATIONS

Theoretical performance



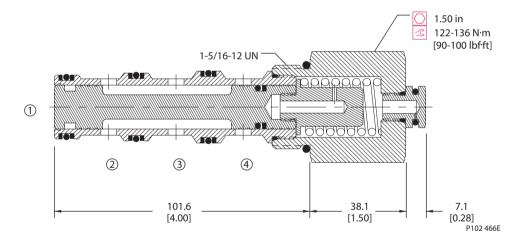
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

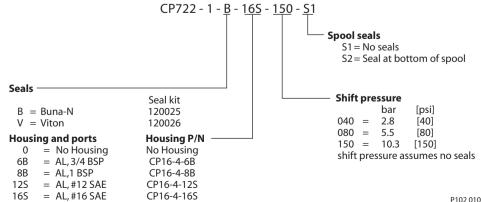
DIMENSIONS

mm [in]

Cross-sectional view







P102 010E

Other housings available

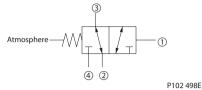


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP723-1

OPERATION

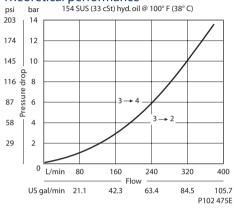
This valve is a 3-way hydraulically piloted spool with atmospheric vent.

Schematic



SPECIFICATIONS





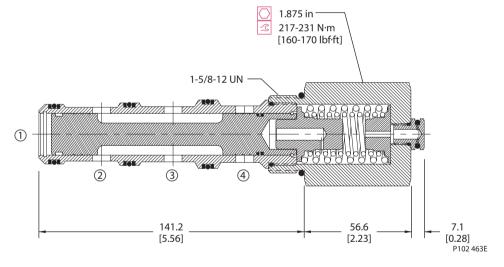
Specifications

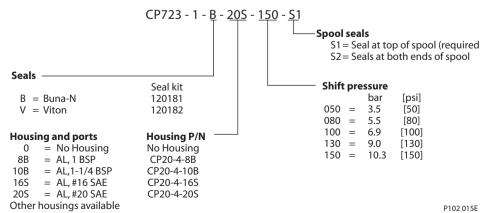
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	265 l/min [70 US gal/min]
[100 psi]	
Weight	1.22 kg [2.68 lb]
Cavity	SDC20-4

DIMENSIONS

mm [in]

Cross-sectional view





P102 938E

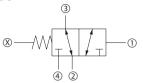


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP720-2

OPERATION

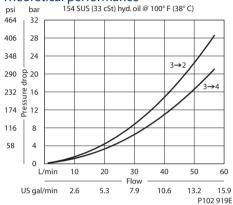
This valve is a 3-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS

Theoretical performance



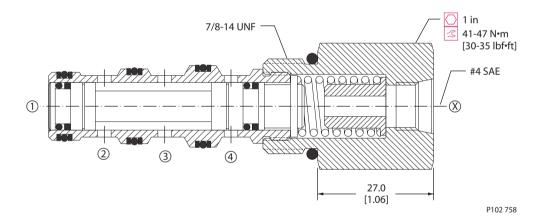
Specifications

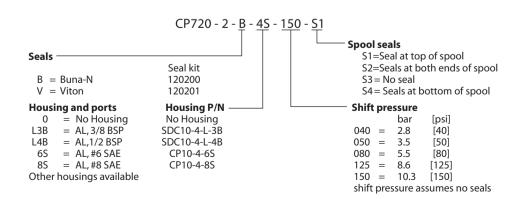
op comeditions	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	25 l/min [7 US gal/min]
[100 psi]	
Weight	0.15 kg [0.33 lb]
Cavity	SDC10-4

DIMENSIONS

mm [in]

Cross-sectional view





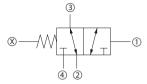


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP722-2

OPERATION

This valve is a 3-way double hydraulically piloted spool.

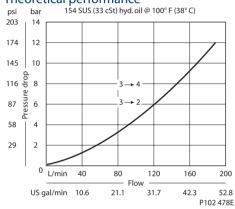
Schematic



P102 938E

SPECIFICATIONS

Theoretical performance

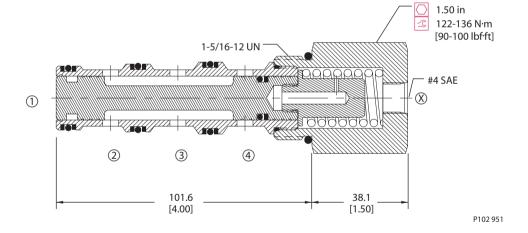


Specifications

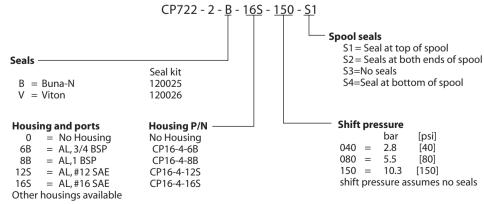
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

DIMENSIONS mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 955E

P102 938E

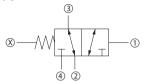


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP723-2

OPERATION

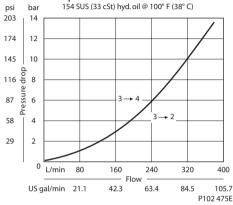
This valve is a 3-way double hydraulically piloted spool.

Schematic



SPECIFICATIONS





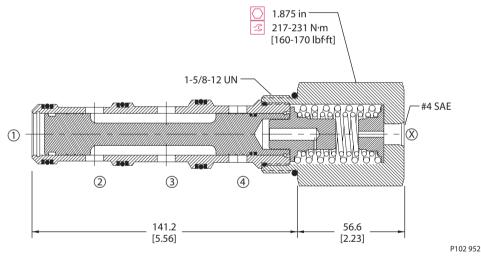
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	265 l/min [70 US gal/min]
[100 psi]	
Weight	1.22 kg [2.68 lb]
Cavity	SDC20-4

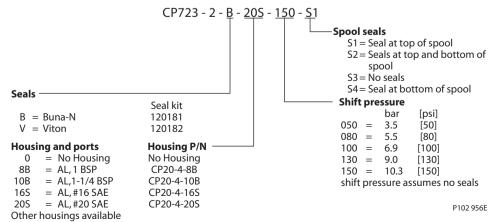
DIMENSIONS

mm [in]

Cross-sectional view







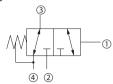


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP720-5

OPERATION

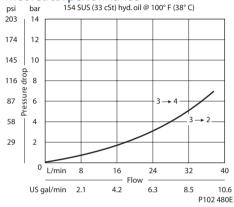
This valve is a 3-way hydraulically piloted spool.

Schematic



SPECIFICATIONS





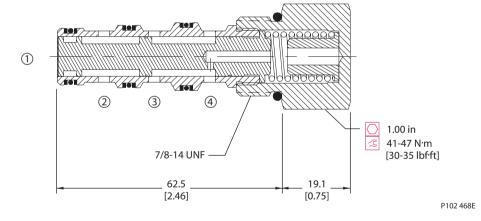
Specifications

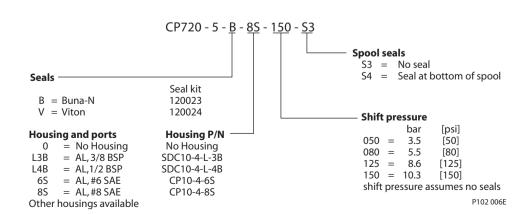
· ·	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min [11 US gal/min]
[100 psi]	
Weight	0.15 kg [0.33 lb]
Cavity	SDC10-4

DIMENSIONS

mm [in]

Cross-sectional view





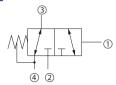


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP722-11

OPERATION

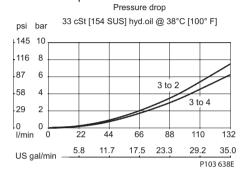
This valve is a 3-way hydraulically-piloted

Schematic



SPECIFICATIONS

Theoretical performance

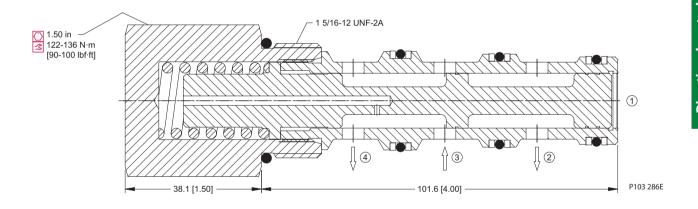


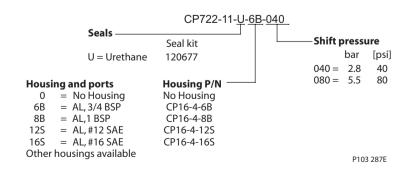
Specifications

Specifications	
Rated pressure	450 bar [6500 psi]
Rated flow at 7 bar	125 l/min [33 US gal/min]
[100 psi]	
Leakage	164 cm ³ /min [10 in ³ /min] @
	Oil temperature range -20°
	to 80°C [-4° to 180°F]
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

DIMENSIONS

mm [in] Cross-sectional view





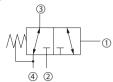


Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP722-5

OPERATION

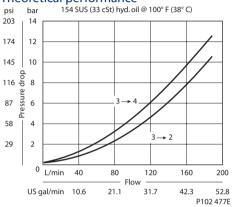
This valve is a 3-way hydraulically piloted spool.

Schematic



SPECIFICATIONS

Theoretical performance

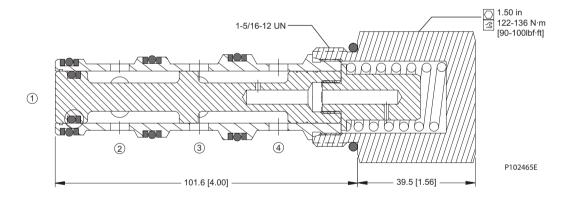


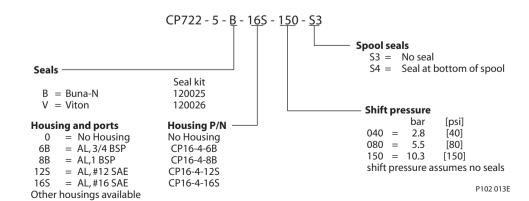
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

DIMENSIONS mm [in]

Cross-sectional view





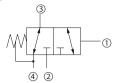


Cartridge Valves Technical Information **Directional Control Valves Hydraulic Piloted** CP723-5

OPERATION

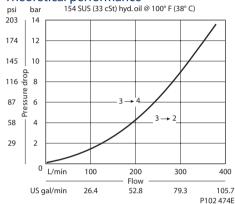
This valve is a 3-way hydraulically piloted

Schematic



SPECIFICATIONS

Theoretical performance



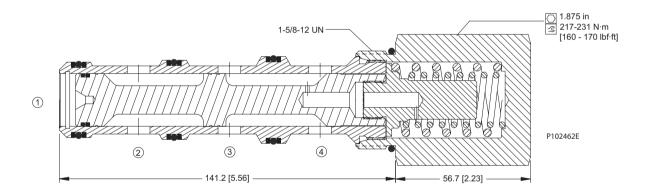
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	265 l/min [70 US gal/min]
[100 psi]	
Weight	1.22 kg [2.68 lb]
Cavity	SDC20-4

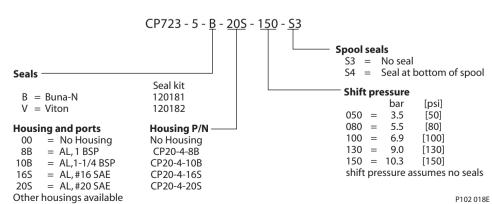
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



P102 018E



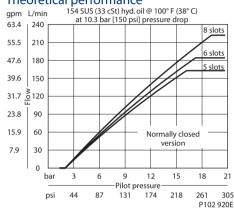
Cartridge Valves Technical Information Directional Control Valves Hydraulic Piloted CP712-7

OPERATION

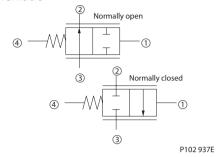
This valve is a hydraulically piloted proportional flow control.

SPECIFICATIONS

Theoretical performance



Schematic



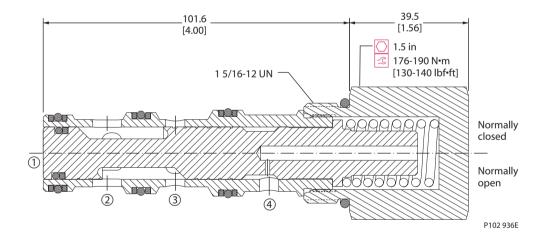
Specifications

Rated pressure	210 bar [3000 psi]
Rated flow at 10	220 l/min [58 US gal/min]
bar [150 psi]	
Weight	0.61 kg [1.34 lb]
Cavity	CP16-4

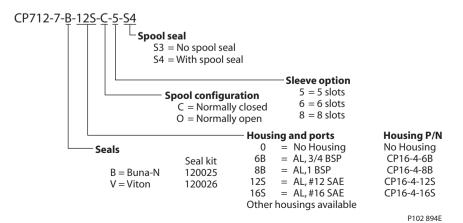
DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION



12.36