



3-Way, 2-Position Poppet	Mode
	EVH 0
30	

	Model No.	Cavity	Description	Flow*	Pressure	Page
	EVH 06/D5	NCS06/3	Solenoid Valve, Poppet	20 l/min	230 bar	10.16
			Type, 3-Way, 2-Position	[5 US gal/min]	[3300 psi]	
4						

2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
(1)	SVP08-CDB	SDC08-2	Solenoid Valve, Poppet	16 l/min	230 bar	10.17
			Type, Double-Blocking,	[4 US gal/min]	[3300 psi]	
	EVK 06/C5	NCS06/2	Normally Closed	50 l/min	210 bar	10.18
				[13 US gal/min]	[3000 psi]	
(1)						

Model No.	Cavity	Description	Flow*	Pressure	Page
SVP08-NC	SDC08-2	Solenoid Valve, Poppet	35 l/min	230 bar	10.19
		Type, Normally Closed, Pilot	[9 US gal/min]	[3300 psi]	
SVP10-NC	SDC10-2	Operated	80 l/min	230 bar	10.20
			[21 US gal/min]	[3300 psi]	
CP501-1	CP12-2		115 l/min	210 bar	10.21
			[30 US gal/min]	[3000 psi]	
	SVP08-NC SVP10-NC	SVP08-NCSDC08-2SVP10-NCSDC10-2	SVP08-NC SDC08-2 Solenoid Valve, Poppet SVP10-NC SDC10-2 Operated	SVP08-NC SDC08-2 Solenoid Valve, Poppet Type, Normally Closed, Pilot 35 l/min [9 US gal/min] SVP10-NC SDC10-2 Operated 80 l/min [21 US gal/min] CP501-1 CP12-2 115 l/min	SVP08-NCSDC08-2Solenoid Valve, Poppet Type, Normally Closed, Pilot35 l/min [9 US gal/min]230 bar [3300 psi]SVP10-NCSDC10-2Operated80 l/min [21 US gal/min]230 bar [3300 psi]

2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
	SVP08-NCR	SDC08-2	Solenoid Valve, Poppet	35 l/min	230 bar	10.22
			Type, Normally Closed, Pilot	[9 US gal/min]	[3300 psi]	
	SVP10-NCR	SDC10-2	Operated with Reverse	80 l/min	230 bar	10.23
			Free Flow	[21 US gal/min]	[3300 psi]	
	CP501-3	CP12-2		115 l/min	210 bar	10.24
				[30 US gal/min]	[3000 psi]	
	CP502-3	SDC16-2		130 l/min	210 bar	10.25
				[34 US gal/min]	[3000 psi]	
	CP503-3	SDC20-2		230 l/min	210 bar	10.26
				[61 US gal/min]	[3000 psi]	

2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
	SVP08-NO	SDC08-2	Solenoid Valve, Poppet	35 l/min	230 bar	10.27
			Type, Normally Open, Pilot	[9 US gal/min]	[3300 psi]	
	SVP10-NO	SDC10-2	Operated	80 l/min	230 bar	10.28
				[21 US gal/min]	[3300 psi]	





2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP501-2	CP12-2	Solenoid Valve, Poppet	115 l/min	210 bar	10.29
			Type, Normally Open, Pilot	[30 US gal/min]	[3000 psi]	
			Operated			

2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
	SVP08-NOR	SDC08-2	Solenoid Valve, Poppet	35 l/min	230 bar	10.30
			Type, Normally Open, Pilot	[9 US gal/min]	[3300 psi]	
	SVP10-NOR	SDC10-2	Operated with reverse Free	80 l/min	230 bar	10.31
			Flow	[21 US gal/min]	[3300 psi]	

2-Way Poppet	Model No.	Cavity	Description	Flow*	Pressure	Page
	CP501-4	CP12-2	Solenoid Valve, Poppet	115 l/min	210 bar	10.32
			Type, Normally Open, Pilot	[30 US gal/min]	[3000 psi]	
	CP502-4	SDC16-2	Operated with reverse Free	130 l/min	210 bar	10.33
			Flow	[34 US gal/min]	[3000 psi]	
	CP503-4	SDC20-2		230 l/min	210 bar	10.34
				[61 US gal/min]	[3000 psi]	

2-Way Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-22-01	SDC08-2	Solenoid Valve, Spool Type,	16 l/min	230 bar	10.35
			2-Way, 2-Position, Normally	[4 US gal/min]	[3300 psi]	
			Open, Push Type			
2-Way Spool	Model No.	Continue	D	FI	Durana	Deve
2 1103 30001	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV10-22-01	SDC10-2	Solenoid Valve, Spool Type,	27 l/min	230 bar	10.36
2			•			-
			Solenoid Valve, Spool Type,	27 l/min	230 bar	-





2-Way Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-22-02	SDC08-2	Solenoid Valve, Spool Type,	14 l/min	230 bar	10.37
			2-Way, 2-Position, Normally	[4 US gal/min]	[3300 psi]	
	SV10-22-02	SDC10-2	Closed, Pull Type	35 l/min	230 bar	10.38
				[9 US gal/min]	[3300 psi]	

2-Way Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-22-03	SDC08-2	Solenoid Valve, Spool Type,	12 l/min	230 bar	10.39
(2)			2-Way, 2-Position, Normally	[3 US gal/min]	[3300 psi]	
			Open, Pull Type			

3-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-23-01	SDC08-3	Solenoid Valve, Spool Type,	17 l/min	230 bar	10.40
			3-Way, 2-Position	[5 US gal/min]	[3300 psi]	
	SV10-23-01	SDC10-3		28 l/min	230 bar	10.41
				[7 US gal/min]	[3300 psi]	
	CP521-21	CP12-3		60 l/min	240 bar	10.42
3 2				[16 US gal/min]	[3500 psi]	

3-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-23-02	SDC08-3	Solenoid Valve, Spool Type,	10 l/min	230 bar	10.43
			3-Way, 2-Position	[3 US gal/min]	[3300 psi]	
	SV10-23-02	SDC10-3		15 l/min [4 US gal/min]	230 bar [3300 psi]	10.44

3-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-23-03	SDC08-3	Solenoid Valve, Spool Type,	18 l/min	230 bar	10.45
			3-Way, 2-Position	[5 US gal/min]	[3300 psi]	

Solenoid valves Quick reference

Pressure

[3300 psi]

230 bar



Cartridge Valves Technical Information Solenoid Valves Quick Reference

Description

3-Way, 2-Position

Solenoid Valve, Spool Type,

Cavity

SDC08-3

Model No.

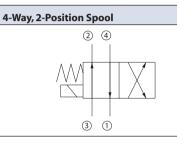
SV08-23-04



Page

10.46

3-Way, 2-Position Spool
3 2



SV10-23-04	SDC10-3		20 l/min [5 US gal/min]	230 bar [3300 psi]	10.47
Model No.	Cavity	Description	Flow*	Pressure	Page
SV08-24-01	SDC08-4	Solenoid Valve, Spool Type, 4-Way, 2-Position	8 l/min [2 US gal/min]	230 bar [3300 psi]	10.48
SV10-24-01	SDC10-4		15 l/min [4 US gal/min	230 bar [3300 psi]	10.49

Flow*

10 l/min

[3 US gal/min]

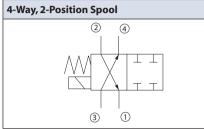
4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 4	SV08-24-02	SDC08-4	Solenoid Valve, Spool Type,	10 l/min	230 bar	10.50
			4-Way, 2-Position	[3 US gal/min]	[3300 psi]	

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 (4)	SV08-24-04	SDC08-4	Solenoid Valve, Spool Type,	8 l/min	230 bar	10.51
			4-Way, 2-Position	[2 US gal/min]	[3300 psi]	

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
\bigcirc \bigcirc	SV10-24-12	SDC10-4	Solenoid Valve, Spool Type,	18 l/min	230 bar	10.52
			4-Way, 2-Position	[5 US gal/min]	[3300 psi]	
3 1 1						







	Model No.	Cavity	Description	Flow*	Pressure	Page
Ŧ	SV10-24-05	SDC10-4	Solenoid Valve, Spool Type, 4-Way, 2-Position	25 l/min [7 US gal/min]	230 bar [3300 psi]	10.53
T						

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 4	SV10-24-07	SDC10-4	Solenoid Valve, Spool Type,	24 l/min	230 bar	10.54
			4-Way, 2-Position	[6 US gal/min]	[3300 psi]	
3 1						

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-24-08	SDC08-4	Solenoid Valve, Spool Type,	24 l/min	230 bar	10.55
(4) (2)			4-Way, 2-Position	[6 US gal/min]	[3300 psi]	
		1	1		1	1
(3) (1)						

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 (4)	CP531-21	CP12-4	Solenoid Valve, Spool Type,	32 l/min	240 bar	10.56
			4-Way, 2-Position	[8 US gal/min]	[3500 psi]	

4-Way, 2-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 4	SV10-24-13	SDC10-4	Solenoid Valve, Spool Type,	21 l/min	230 bar	10.57
			4-Way, 2-Position	[6 US gal/min]	[3300 psi]	
3 1						





4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-34-02	SDC08-4	Solenoid Valve, Spool Type,	10 l/min	230 bar	10.58
			4-Way, 3-Position	[2 US gal/min]	[3300 psi]	
$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	SV10-34-02	SDC10-4		20 l/min [6 US gal/min]	230 bar [3300 psi]	10.59

4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
2 4	SV08-34-03	SDC08-4	Solenoid Valve, Spool Type, 4-Way, 3-Position	8 l/min [2 US gal/min]	230 bar [3300 psi]	10.60
3 1 1 3						

4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV10-34-03	SDC10-4	Solenoid Valve, Spool Type,	16 l/min	230 bar	10.61
			4-Way, 3-Position	[4 US gal/min]	[3300 psi]	
$\left \begin{array}{c} 52 \\ (\overline{3}) \\ (\overline{1}) \end{array} \right ^{51}$						

4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-34-04	SDC08-4	Solenoid Valve, Spool Type,	6 l/min	230 bar	10.62
			4-Way, 3-Position	[2 US gal/min]	[3300 psi]	
$ \overset{s_2}{3} \overset{s_1}{1}$						

4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV10-34-04	SDC10-4	Solenoid Valve, Spool Type,	15 l/min	230 bar	10.63
			4-Way, 3-Position	[4 US gal/min]	[3300 psi]	
3 1 1						





4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV08-34-05	SDC08-4	Solenoid Valve, Spool Type,	10 l/min	230 bar	10.64
			4-Way, 3-Position	[2 US gal/min]	[3300 psi]	
	SV10-34-05	SDC10-4		20 l/min [6 US gal/min]	230 bar [3300 psi]	10.65

4-Way, 3-Position Spool	Model No.	Cavity	Description	Flow*	Pressure	Page
	SV10-34-11	SDC10-4	Solenoid Valve, Spool Type,	24 l/min	230 bar	10.66
			4-Way, 3-Position	[6 US gal/min]	[3300 psi]	
$\begin{vmatrix} & S2 \\ \hline & (3) \end{vmatrix} + \begin{pmatrix} S1 \\ \hline & S1 \end{pmatrix}$						





SOLENOID VALVES

Solenoid valves are electrically-operated, on-off poppet or spool-type valves for load holding, blocking, or directional control applications.

Solenoid valves



P103 227

PLUS+1[™] COMPLIANT

Sauer-Danfoss solenoid valves are PLUS+1[™] compliant. PLUS+1 compliance means our valves are directly compatible with the PLUS+1 machine control architecture. Adding solenoid valves to your application using PLUS+1 GUIDE software is as easy as *drag-and-drop*. Software development that used to take months can now be done in just a few hours. For more information on PLUS+1 GUIDE, visit *www.sauer-danfoss.com/plus1*. The table below details available GUIDE function blocks for controlling Sauer-Danfoss solenoid valves.

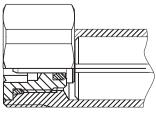
GUIDE function blocks

On-off	10106088
On-off-on	10106102

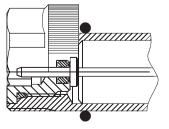
SV AND SVP COIL OPTIONS

All SV and SVP valves may be ordered with a robust coil option. The robust coil option uses a steel nut and does not use O-rings on the top and bottom of the coil. The standard coil option uses a plastic nut with one O-ring on the top of the coil and one O-ring on the bottom of the coil.





No O-rings needed Torque is same as standard nut **Standard Coil Nut**



Standard Coil Nut Kit includes O-rings

P108 282E





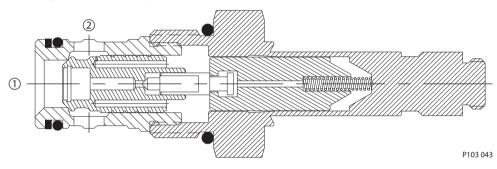
POPPET-TYPE SOLENOID VALVES

Poppet-type solenoid valves are two-way, normally open or normally-closed valves.

Normally-closed

Normally-closed poppet valves block flow from 2 to 1 when de-energized. When the solenoid coil is energized, magnetic force lifts the small pilot dart from it's seat, creating a pressure differential across the main poppet that provides the force to lift the main poppet off it's seat. Models with free-reverse-flow also act as a low-pressure, free-flow check valve from 1 to 2 when energized; standard models provide an orifice-connection to 2 when pressure is applied at 1.

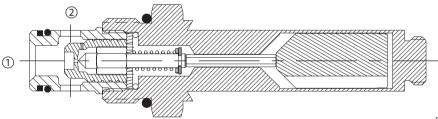
Normally closed poppet-type solenoid valve



Normally-open

Normally-open poppet valves provide free flow from 2 to 1 when de-energized. When the solenoid coil is energized, magnetic force seats the small pilot dart, creating a pressure differential that provides the force to seat the main poppet and block flow. Models with free-reverse flow also act as a low-pressure, free-flow check valve from 1 to 2 when de-energized; standard models provide an orifice-connection to 2 when pressure is applied at 1.

Normally open poppet-type solenoid valve



P103 044



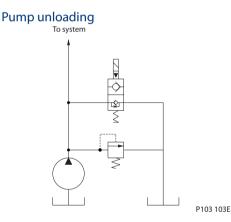


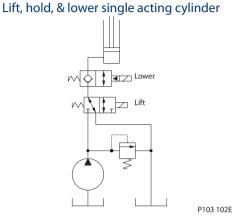
POPPET-TYPE SOLENOID VALVES (continued)

Applications

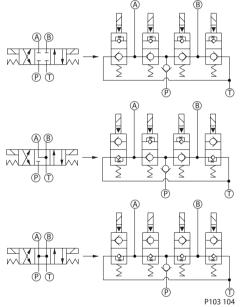
Common applications for normally-open and normally-closed poppet valves include:

- Load holding and lowering with single-acting cylinders.
- Unloading of a fixed-displacement pump.
- Use in combination to duplicate four-way, three-position valve functions. These circuits create low-cost, compact alternatives to subplate- or stack-type directional control valves. As an added advantage these poppet valve circuits do not need load holding checks as the poppets provide the same low-leakage function.





4-way 3-position directional valve circuits







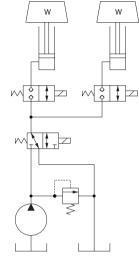
BI-DIRECTIONAL POPPET-TYPE SOLENOID VALVES

Bi-directional poppet-type solenoid valves are two-way, normally open or normally-closed valves. The poppets are pressure-balanced so that the spring holds the poppet in it's de-energized position. When the solenoid coil is energized, magnetic force overcomes the spring and causes the poppet to shift.

Normally-closed

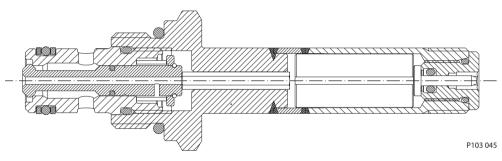
Normally-closed bi-directional poppet valves block flow in both directions when de-energized and allow freeflow when energized. These valves are typically used as directional controls for single-acting cylinders or uni-directional motors where low-leakage load holding is required, or where multiple functions must be separated.





P103 105

Normally closed bi-directional poppet-type solenoid valve



SPOOL-TYPE SOLENOID VALVES

Spool-type valves are available in 2-way 2-position, 3-way 2-position, 4-way 2-position, and 4-way 3 position configurations. For all these valves the spools are pressurebalanced and are held in position by a spring when de-energized. When the solenoid coil is energized, magnetic force overcomes the spring and shifts the spool. As the spool moves, flow forces, also known as Bernoulli forces, act on the spool and can prevent proper operation. These forces are a function of pressure and flow, and the catalog ratings show the operating limits for each valve. These limits are based on the valve's ability to shift at 85% of nominal voltage at 140°F ambient temperature. For this reason flow and pressure ratings for solenoid spool valves should not be exceeded.

Consult your Sauer-Danfoss representative for extreme applications.



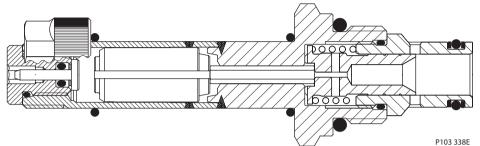


SPOOL-TYPE SOLENOID VALVES (continued)

Two-way, two-position

Two-way, two-position spool-type valves are either normally open or normally closed.

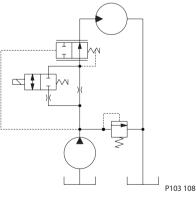
Two-way, two-position spool-type solenoid valve

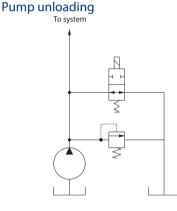


Common applications for two-way, twoposition spool type solenoid valves are:

- Unloading of a fixed-displacement pump.
- Cylinder regeneration. When the two-way two-position spool valve is energized the cylinder circuit is in regeneration mode for faster cylinder extension.
- Two-speed motor (or cylinder) operation. By using multiple valves and circuit logic, similar circuits can be used for three-speed, four-speed, etc.

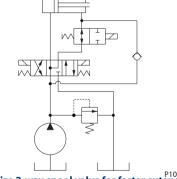
Two-speed motor circuit





P103 106E

Cylinder regeneration circuit



Energize 2-way spool valve for faster extension



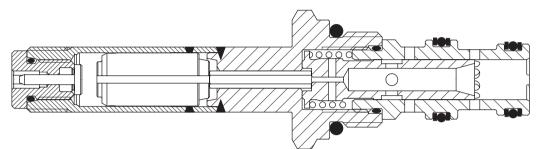


SPOOL-TYPE SOLENOID VALVES (continued)

Three-way, two-position

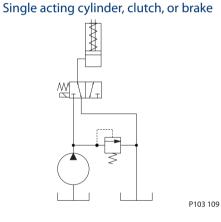
Three-way, two-position spool-type valves are available with a variety of porting and flow paths. Common applications for three-way, two-position spool type solenoid valves:

Three-way, two-position spool-type solenoid valves

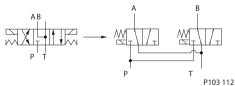


- Control of a single-acting cylinder, clutch, or brake.
- Circuit selector
- Pilot control for a large directional spool.
- Use in combination to duplicate four-way, three-position valve functions, creating low-cost, compact alternatives to subplate- or stacktype directional control valves.

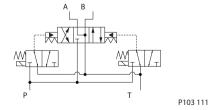
P103 110E



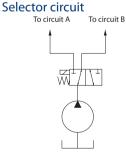
4-way 3-position directional valve circuits



Pilot for directional valve



Solenoid valves Application notes





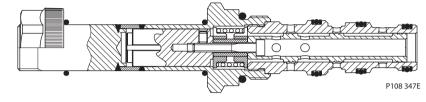


SPOOL-TYPE SOLENOID VALVES (continued)

Four-way, two-position

Four-way, two-position spool-type valves are available with normally-open, normallyclosed, reversing, and single-acting spool options.

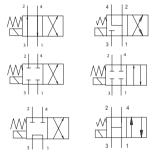
Four-way, two-position spool-type solenoid valves



Common applications for four-way, twoposition spool type solenoid valves are:

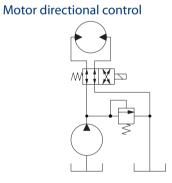
- Directional control for motors or cylinders.
- Use in combination to duplicate four-way, three-position valve functions, creating low-cost, compact alternatives to subplate- or stacktype directional control valves.

4-way 2-position spool options



P103 113

4-way 3-position directional valve circuits



P103 114

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Solenoid valves Application notes



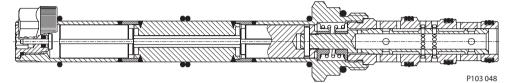


SPOOL-TYPE SOLENOID VALVES (continued)

Four-way, three-position

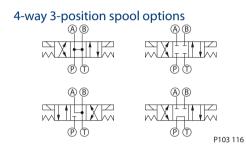
Four-way, three-position spool-type valves are available with normally-open, normally-closed, motor, and tandem spools.

Four-way, three-position spool-type solenoid valve

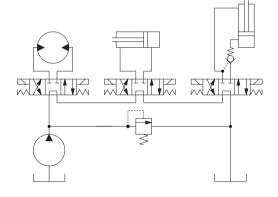


These valves are typically used for directional control for motor or cylinder functions.

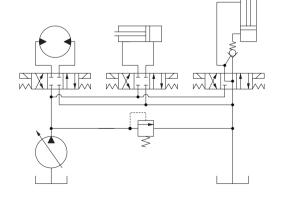
Typical series (or open-center) and parallel (or closed-center) circuits are shown below.



Series (open-center) circuit



Parallel (closed-center) circuit



P103 118

P103 117



Cartridge Valves Technical Information Solenoid Valves 2-Way, 2-Position Poppet EVH 06/D5



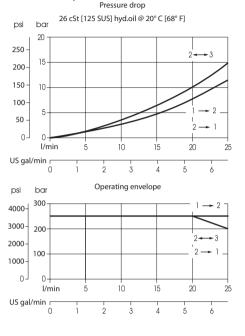
OPERATION

This is a direct-acting, 2-position, 3-way, poppet-type solenoid valve.

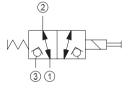
Theoretical performance

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	20 l/min [5 US gal/min]
[100 psi]	
Weight	0.44 kg [0.97 lb]
Cavity	NCS06/3
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)



Schematic

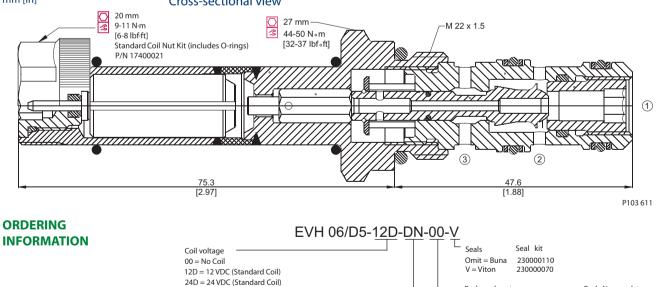


P103 616E

DIMENSIONS

mm [in]

Cross-sectional view



P103 536

 Body and ports
 Body Nomenclature

 00 = Cartridge only
 No Body

 SE3/8 = Al, 3/8 BSP
 NCS06/3-SE-3/8

 SE1/2 = Al, 1/2 BSP
 NCS06/3-SE-1/2

 SE6S = Al, #6 SAE
 NCS06/3-SE-6S

 SE8S = Al, #8 SAE
 NCS06/3-SE-8S

 Other housings available
 NCS06/3-SE-8S

* These terminations are not available on robust coil (R12D, R24D)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

R12D = 12 VDC (R-Coil)

R24D = 24 VDC (R-Coil)

Coil termination:

FL = Flying Lead

AJ = Amp Junior *

DN = DIN 43650 *

DF = Deutsch

00 = No Coil

P103 619E

Theoretical performance

Pressure drop



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet SVP08-CDB



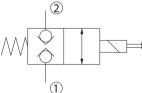
OPERATION

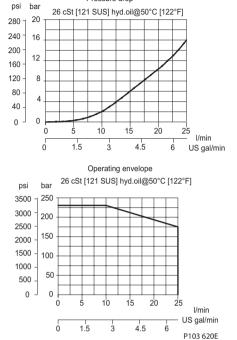
This is a normally-closed, doubleblocking poppet-type solenoid valve.

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	16 l/min [4 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.32 kg [0.71 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Schematic





DIMENSIONS

mm [in]

Cross-sectional view 24mm 20mm _____ 3 4-6 Nm [35-53 lbf*in] 20mm 35-40 Nm [26-30 lbf*ft] 2 Standard KIT (Includes O-rings) P/N 173800588 i tak (1) COILS NOT SHOWN FOR CLARITY INSTALL O-RINGS (2) PLCS AS SHOWN 4mm Push manual override 3/4-16 UNF 2A [0.16] stroke distance 25 [0.10] 63.5 28.75 [2.50] [1.13]

P102 716

P103 488

ORDERING **INFORMATION**

SVP08-CDB-12D-DN-B-F-00

Coil voltage Body and Ports Body Nomenclature 00 = No Coil Omit = Cartridge only No Body 12D = 12 VDC (Standard Coil) 4S = AI, #4 SAE CP08-2-4S 24D = 24 VDC (Standard Coil) 6S = AI, #6 SAE CP08-2-65 R12D = 12 VDC (R-Coil)DG2B = AI, 1/4 BSP SDC08-2-DG2B R24D = 24 VDC (R-Coil) DG3B = AI, 3/8 BSP SDC08-2-DG3B Coil termination: Other housings available 00 = No Coil Filter FL = Flying Lead Omit = No Filter DN = DIN 43650 * $F = Filter 300 \ \mu m$ $\mathsf{DE} = \mathsf{Deutsch}$ AJ = Amp Junior * P103 545E Seals Seal Kit SP = Spade * B = Buna-N seals 354001619 AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 * These terminations are not available on robust coil (R12D, R24D) V = Viton seals 354001719

Solenoid valves SVP08-CDB



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet EVK 06/C5



OPERATION

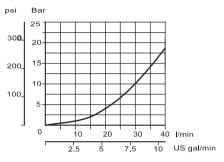
This is a normally-closed, doubleblocking poppet-type solenoid valve.

Theoretical performance

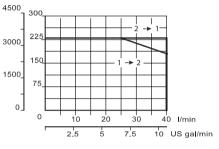
Pressure drop 26 cSt [121 SUS] hyd oil at 50°C [122 °F]

SPECIFICATIONS

Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	50 l/min [13 US gal/min]
[100 psi]	
Weight	0.43 kg [0.95 lb]
Cavity	NCS06/2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)



Operating envelope 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



* These terminations are not available on robust coil (R12D, R24D)

P103 861E

DIMENSIONS

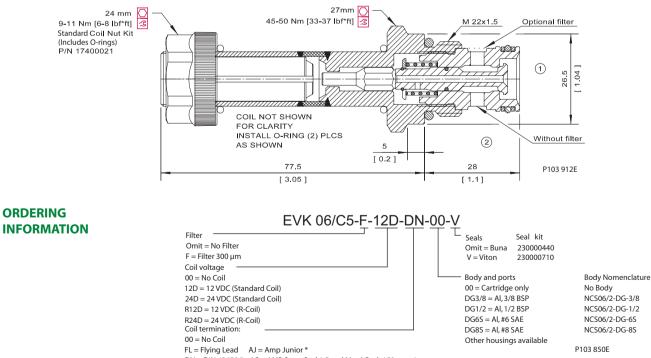
mm [in]

Cross-sectional view

2

1

Schematic



P102 716

DN = DIN 43650 * AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 DE = Deutsch * TI



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet SVP08-NC



OPERATION

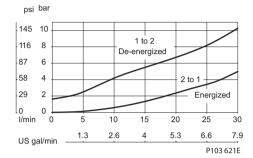
This is a normally-closed, pilot-operated, poppet-type solenoid valve.

Theoretical performance

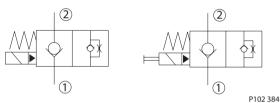
Pressure drop 33 cSt [154 SUS] hyd.oil @ 38°C [100° F]



Specifications	
Rated pressure	230 bar [3300 psi]
Maximum flow at	35 l/min [9 US gal/min]
rated pressure	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.23 kg [0.51 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)



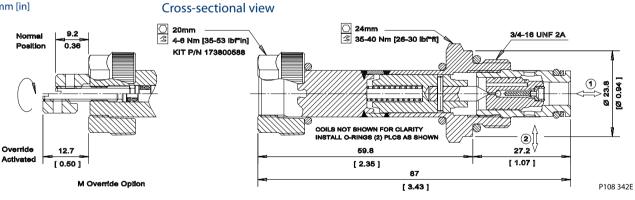
Schematic



DIMENSIONS

mm [in]

Override



ORDERING **INFORMATION**

SVP08-NC-12-DN-M-B-F-00 Body Nomenciature No Body SDC08-2-DG-2B SDC08-2-DG-3B CP08-2-4S CP08-2-6S Body and ports: 00 = Cartridge only DG2B = AI,1/4 BSP DG3B = AI,3/8 BSP 4S = AI,#4 SAE 6S = AI,#6 SAE Coil voltage: 00 = No Coll 12D = 12VDC (Standard Coil) 24D = 24VDC (Standard Coil) R12D = 12VDC (R-Coil) R24D = 24VDC (R-Coll) Other housings available Filter: Omit = No Filter Coil termination: 00 = No Coil FL = Flying Lead DN = DIN 43650 * DE = Deutsch F = Filter 300 mm Seal kit 354000119 354000219 Seals B = Buna-n V = Viton AJ = Amp Junior * SP = Spade * Override Type: Omit = No Override M = Manual Override (Screw type) AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 *These terminations are not available on robust coil (R12D,R24D) P103 543E

520L0588 • Rev DA • June 2010

10.19



Cartridge Valves Technical Information **Solenoid Valves** 2-Way Poppet SVP10-NC



OPERATION

This is a normally-closed, pilot-operated, poppet-type solenoid valve.

Theoretical performance

V = Viton

354000819

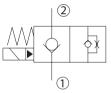
Pressure drop 33 cSt [154 SUS] hyd.oil @ 38°C [100° F]

SPECIFICATIONS

Specifications		
Rated pressure	230 bar [3300 psi]	
Rated flow at 7 bar	80 l/min [21 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.43 kg [0.95 lb]	
Cavity	SDC10-2	
Standard Coil	M16 26 Watt	
Robust Coil	R16 20 Watt	
	Robust Nut P/N 173804910	
	(no coil O-rings needed)	

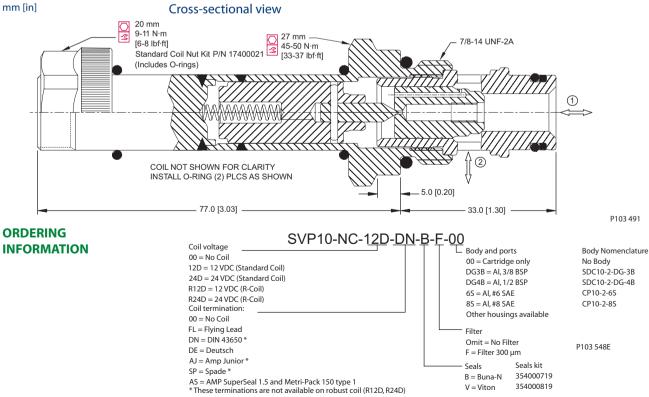
psi bar 203 14 174 12 1 to 2 145 10 De-energized 116 8 87 6 58 4 2 to 1 29 2 Energized 0 0 10 60 l/min 0 20 30 40 50 70 2.6 5.3 7.9 10.6 13.2 15.9 18.5 US gal/min P103 625E

Schematic



DIMENSIONS

mm [in]



Cartridge Valves Technical Information Solenoid Valves



MEMBER OF THE SAUER-DANFOSS GROUP 2-Way Poppet

CP501-1

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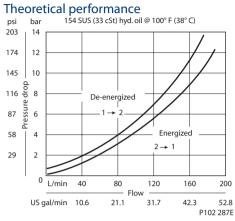
This valve is a normally closed, pilot operated, poppet type solenoid.

SPECIFICATIONS

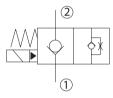
OPERATION

RESPONSIVENESS IN MOTION

Specifications		
Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	115 l/min [30 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.53 kg [1.16 lb]	
Cavity	CP12-2	
Standard Coil	D10 16 Watt	
Coil nut	620186	



Schematic



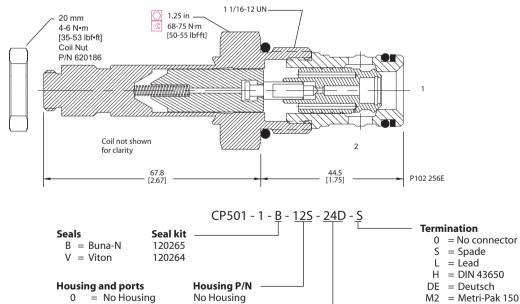
DIMENSIONS

ORDERING

INFORMATION

mm [in]

Cross-sectional view

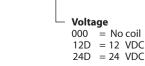


CP12-2-4B

CP12-2-6B

CP12-2-10S

CP12-2-12S



Solenoid valves CP501-1

Type 1

= AL, 1/2 BSP

= AL, 3/4 BSP

= AL, #10 SAE

= AL, #12 SAE

Other housings available

4B

6B

10S

12S



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet SVP08-NCR



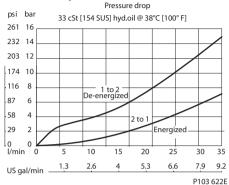
OPERATION

This is a normally-closed, pilot-operated, poppet-type solenoid valve with free reverse flow.

SPECIFICATIONS

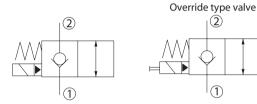
Specifications	
Rated pressure	230 bar [3300 psi]
Maximum flow at	35 l/min [9 US gal/min]
rated pressure	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.23 kg [0.51 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Theoretical performance



Schematic

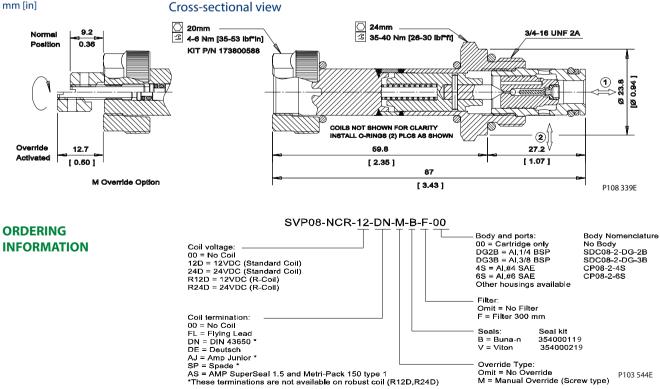
. .





DIMENSIONS

mm [in]





Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet SVP10-NCR



OPERATION This is a normally-closed, pilot-operated, poppet-type solenoid valve with free reverse flow.

SPECIFICATIONS

Specifications		
Rated pressure	230 bar [3300 psi]	
Rated flow at 7 bar	80 l/min [21 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.43 kg [0.95 lb]	
Cavity	SDC10-2	
Standard Coil	M16 26 Watt	
Robust Coil	R16 20 Watt	
	Robust Nut P/N 173804910	
	(no coil O-rings needed)	

Theoretical performance

Omit = No Filter

 $F=Filter\,300\,\mu m$

Seals kit

354000719

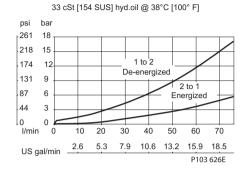
354000819

Seals

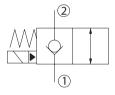
B = Buna-N

V = Viton

Pressure drop



Schematic



DIMENSIONS

mm [in] Cross-sectional view 20 mm ыO 9-11 N·m 27 mm 7/8-14 UNF-2A [6-8 lbf·ft] 45-50 N·m 2 Standard Coil Nut Kit P/N 17400021 [33-37 lbf·ft] (Includes O-rings) 1 COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN - 5.0 [0.20] 77.0 [3.03] 33.0 [1.30] P103 487 ORDERING SVP10-NCR-12D-DN-B-E-00 Coil voltage **INFORMATION** . Body and ports Body Nomenclature 00 = No Coil 00 = Cartridge only No Body 12D = 12 VDC (Standard Coil) DG3B = AI, 3/8 BSP SDC10-2-DG-3B 24D = 24 VDC (Standard Coil) DG4B = AI, 1/2 BSP SDC10-2-DG-4B R12D = 12 VDC (R-Coil) 6S = AI, #6 SAE CP10-2-6S R24D = 24 VDC (R-Coil) 8S = AI, #8 SAE CP10-2-8S Coil termination: Other housings available 00 = No Coil FL = Flying Lead Filter

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 * These terminations are not available on robust coil (R12D, R24D)

DN = DIN 43650 *

AJ = Amp Junior

DE = Deutsch

SP = Spade *

P103 549E



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP501-3



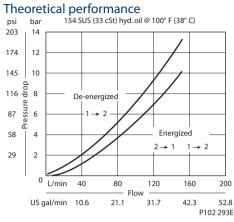
OPERATION

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

SPECIFICATIONS

Spec	ificat	ions
Spee	mear	10115

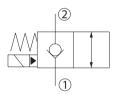
210 bar [3000 psi]
115 l/min [30 US gal/min]
6 drops/min @ Rated
pressure
0.53 kg [1.16 lb]
CP12-2
D10 16 Watt
620186



12D = 12 VDC 24D = 24 VDC

P102 321F

Schematic



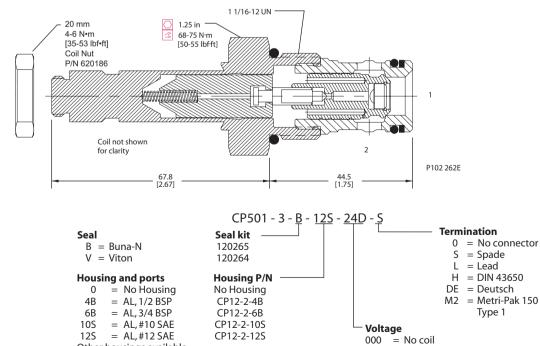
DIMENSIONS

ORDERING

INFORMATION

mm [in]

Cross-sectional view



Other housings available



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP502-3



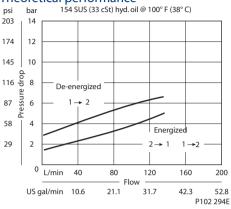
OPERATION

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

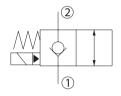
SPECIFICATIONS

Specifications		
Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	130 l/min [34 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.66 kg [1.45 lb]	
Cavity	SDC16-2	
Standard Coil	D10 16 Watt	
Coil nut	620186	

Theoretical performance



Schematic



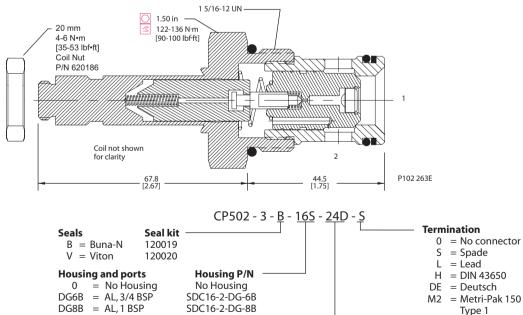
DIMENSIONS

ORDERING

INFORMATION

mm [in]

Cross-sectional view



CP16-2-12S

CP16-2-16S

P102 318E

Voltage

= No coil

12D = 12 VDC 24D = 24 VDC

000

= AL, #12 SAE

= AL, #16 SAE

Other housings available

12S

16S



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP503-3



OPERATION

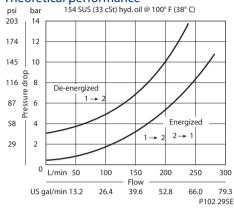
This valve is a normally closed, pilot operated, poppet type solenoid valve with free reverse flow.

SPECIFICATIONS

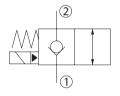
~				•
5	ne	CIT	icat	ions
-	٣٢	~	cut	10115

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	230 l/min [61 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.91 kg [2.00 lb]
Cavity	SDC20-2
Standard Coil	D10 16 Watt
Coil nut	620186

Theoretical performance



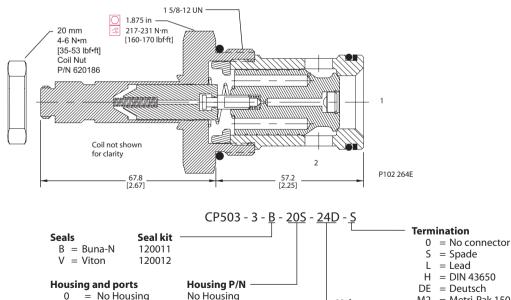
Schematic



DIMENSIONS

mm [in]

Cross-sectional view



ORDERING **INFORMATION**



CP503-3

M2 = Metri-Pak 150

Type 1

Voltage

000 = No coil

12D = 12 VDC

24D = 24 VDC

8B

10B

16S

20S



Cartridge Valves Technical Information Solenoid Valves MEMBER OF THE SAUER-DANFOSS GROUP 2-Way Poppet



OPERATION

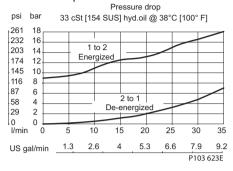
This is a normally-open, pilot-operated, poppet-type solenoid valve.

SVP08-NO

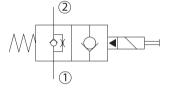
SPECIFICATIONS

Specifications		
Rated pressure	230 bar [3300 psi]	
Rated flow at 7 bar	35 l/min [9 US gal/min]	
[100 psi]		
Leakage	6 drops/min @ Rated	
	pressure	
Weight	0.23 kg [0.51 lb]	
Cavity	SDC08-2	
Standard Coil	M13 20 Watt	
Robust Coil	R13 16 Watt	
	Robust Nut P/N 173804910	
	(no coil O-rings needed)	

Theoretical performance

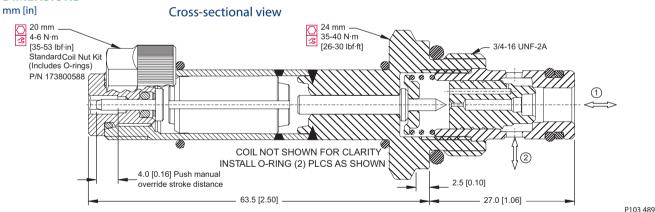


Schematic



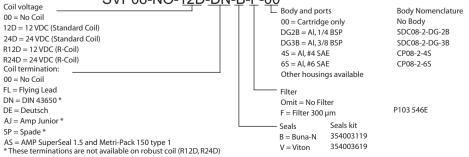
DIMENSIONS

P102 385



ORDERING **INFORMATION**

SVP08-NO-12D-DN-B-F-00



520L0588 • Rev DA • June 2010

Solenoid valves SVP08-NO



Cartridge Valves Technical Information **Solenoid Valves** 2-Way Poppet SVP10-NO



OPERATION

This is a normally-open, pilot-operated, poppet-type solenoid valve.

Theoretical performance

psi bar 261 18 218 15

174 12 131 9

87 6 44 3

0 0 l/min Ó 10 20 30 40 50 60 70

US gal/min

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

5.3 7.9

2.6

1 to 2 Energized

2 to 1 De-energized

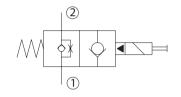
10.6 13.2 15.9 18.5

P103 627E

SPECIFICATIONS

Specifications		
Rated pressure	230 bar [3300 psi]	
Rated flow at 7	80 l/min [21 US gal/min]	
bar [100 psi]		
Leakage	6 drops/min @ Rated pressure	
Weight	0.43 kg [0.95 lb]	
Cavity	SDC10-2	
Standard Coil	M16 26 Watt	
Robust Coil	R16 20 Watt	
	Robust Nut P/N 173804910	
	(no coil O-rings needed)	

Schematic



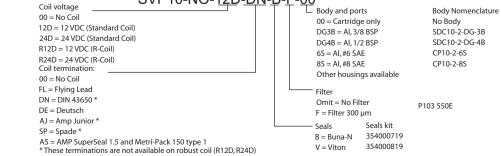
P102 385

DIMENSIONS

mm [in] Cross-sectional view 20 mm 27 mm 9-11 N·m 7/8-14 UNF-2A 45-50 N·m [6-8 lbf·ft] [33-37 lbf·ft] Standard Coil Nut Kit (includes O-rings) P/N 17400021 (1)COIL NOT SHOWN FOR CLARITY 3.5 [0.14] Push manual INSTALL O-RING (2) PLCS AS SHOWN override stroke distance 5.0 [0.20] _ 77.5 [3.05] _ - 33.0 [1.29] P103 493 ORDERING

INFORMATION

SVP10-NO-12D-DN-B-F-00





Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP501-2



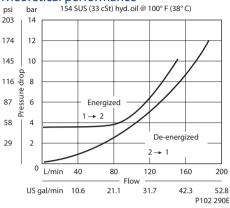
OPERATION

This valve is a normally open, pilot operated, poppet type solenoid.

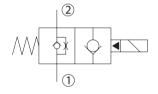
SPECIFICATIONS

Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	115 l/min [30 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.54 kg [1.19 lb]
Cavity	CP12-2
Standard Coil	D10 16 Watt
Coil nut	621468 (Std.), 622477
	(Option M)

Theoretical performance



Schematic



P102 261E

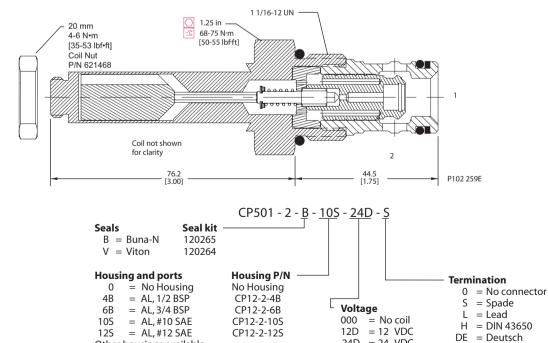
DIMENSIONS

ORDERING

INFORMATION

mm [in]

Cross-sectional view



24D = 24 VDC

M2

Solenoid valves CP501-2

Other housings available

P102 322E

= Metri-Pak 150 Type 1



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet SVP08-NOR



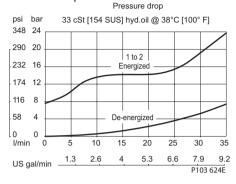
OPERATION

This is a normally-open, pilot-operated, poppet-type solenoid valve with free reverse flow.

SPECIFICATIONS

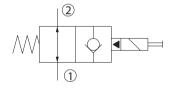
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	35 l/min [9 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.23 kg [0.51 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Theoretical performance



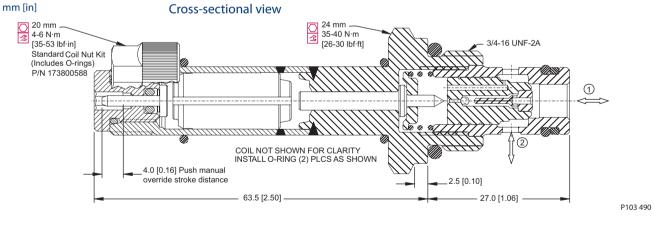
Schematic

. .



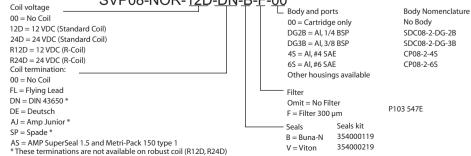
DIMENSIONS

P102 387



ORDERING INFORMATION

SVP08-NOR-12D-DN-B-F-00



Solenoid valves SVP08-NOR

Cartridge Valves Technical Information Solenoid Valves RESPONSIVENESS IN MOTION



MEMBER OF THE SAUER-DANFOSS GROUP 2-Way Poppet

SVP10-NOR

OPERATION This is a normally-open, pilot-operated, poppet-type solenoid valve with free reverse flow.

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	80 l/min [21 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.43 kg [0.95 lb]
Cavity	SDC10-2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Theoretical performance

6S = AI, #6 SAE

8S = AI, #8 SAE

Omit = No Filter

 $F=Filter~300~\mu m$

Filter

Seals

B = Buna-N

V = Viton

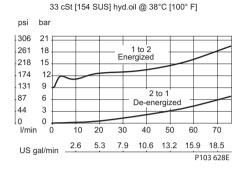
Other housings available

Seals kit

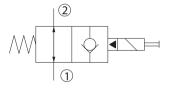
354000719

354000819

Pressure drop



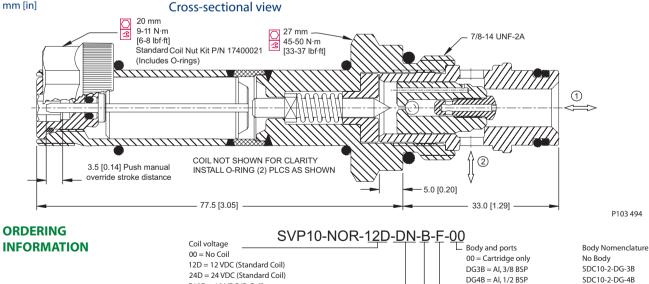




DIMENSIONS

P102 387







AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 * These terminations are not available on robust coil (R12D, R24D)

R12D = 12 VDC (R-Coil)

R24D = 24 VDC (R-Coil)

Coil termination:

DN = DIN 43650

AJ = Amp Junior

DE = Deutsch

SP = Spade *

00 = No Coil FL = Flying Lead CP10-2-6S

CP10-2-8S

P103 551F



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP501-4

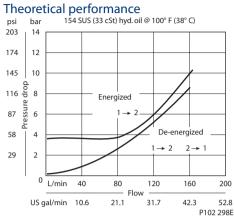


OPERATION

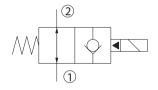
This valve is a normally open, pilot operated, poppet type solenoid valve with free reverse flow.

SPECIFICATIONS

Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	115 l/min [30 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.54 kg [1.19 lb]
Cavity	CP12-2
Standard Coil	D10 16 Watt
Coil nut	621468 (Std.), 622477
	(Option M)



Schematic

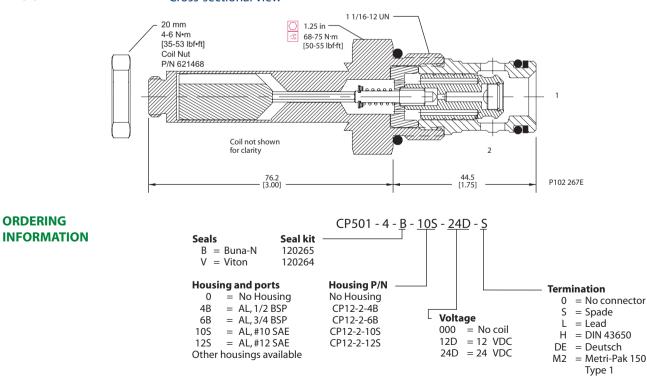


P108 262

DIMENSIONS

mm [in]

Cross-sectional view



P102 320E



Cartridge Valves Technical Information **Solenoid Valves** 2-Way Poppet CP502-4



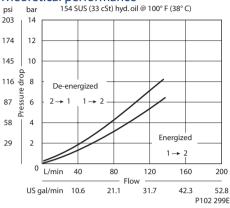
OPERATION

This valve is a normally open, pilot operated, poppet type solenoid.

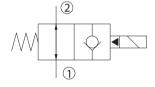
SPECIFICATIONS

Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	130 l/min [34 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.68 kg [1.50 lb]
Cavity	SDC16-2
Standard Coil	D10 16 Watt
Coil nut	621468 (Std.), 622477
	(Option M)

Theoretical performance



Schematic

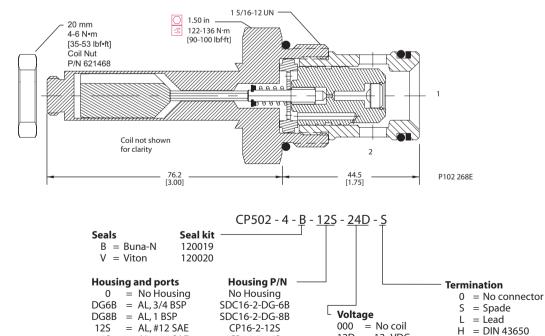


P108 262

DIMENSIONS

mm [in]

Cross-sectional view



CP16-2-16S

12D = 12 VDC

24D = 24 VDC

DE

= Deutsch

M2 = Metri-Pak 150Type 1

ORDERING **INFORMATION**





165

= AL, #16 SAE

Other housings available

P102 317E



Cartridge Valves Technical Information Solenoid Valves 2-Way Poppet CP503-4



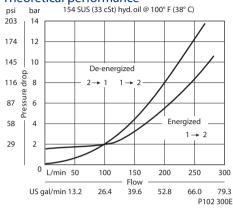
OPERATION

This valve is a normally open, pilot operated, poppet type solenoid.

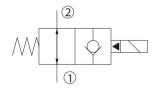
SPECIFICATIONS

Specifications	
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	230 l/min [61 US gal/min]
[100 psi]	
Leakage	6 drops/min @ Rated
	pressure
Weight	0.91 kg [2.00 lb]
Cavity	SDC20-2
Standard Coil	D10 16 Watt
Coil nut	621468 (Std.), 622477
	(Option M)

Theoretical performance



Schematic



P108 262

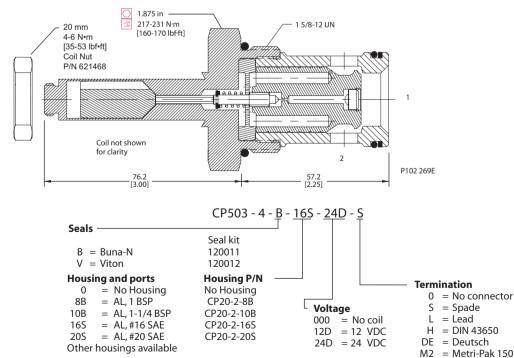
DIMENSIONS

ORDERING

INFORMATION

mm [in]

Cross-sectional view



Type 1 P102 345E

Cartridge Valves Technical Information Solenoid Valves



MEMBER OF THE SAUER-DANFOSS GROUP 2-Way Spool

RESPONSIVENESS IN MOTION

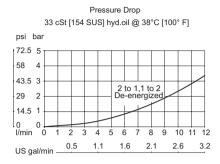
SV08-22-01

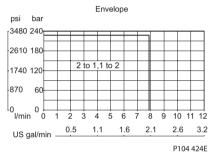
OPERATION This is a normally-open, direct-acting, 2-way, 2-position, spool-type solenoid valve.

SPECIFICATIONS

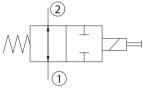
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	16 l/min [4 US gal/min]
[100 psi]	
Weight	0.29 kg [0.64 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Theoretical performance



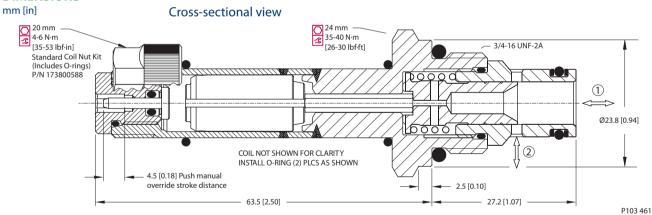


Schematic



DIMENSIONS





ORDERING INFORMATION

SV08-22-01-12D-DN-B-00

Coil voltage		_		
00 = No Coil	L	— Body and p	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartride	ge only	No Body
24D = 24 VDC (Standard Coil)		DG2B = AI, 1	/4 BSP	SDC08-2-DG-2B
R12D = 12 VDC (R-Coil)		DG3B = AI, 3	/8 BSP	SDC08-2-DG-3B
R24D = 24 VDC (R-Coil)		4S = Al, #4 S	AE	CP08-2-4S
Coil termination:		6S = Al, #6 S	AE	CP08-2-65
00 = No Coil		Other housi	ngs available	
FL = Flying Lead DN = DIN 43650 * DE = Deutsch AJ = Amp Junior *		— Seals B = Buna-N V = Viton	Seals kit 354003119 354003619	P103 423E
SP = Spade *				11 (24.02, 20.42)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)



Cartridge Valves Technical Information Solenoid Valves 2-Way Spool SV10-22-01



OPERATION

This is a normally-open, direct-acting, 2-way, 2-position, spool-type solenoid valve.

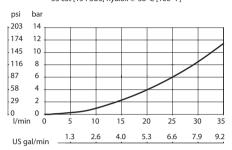
SPECIFICATIONS

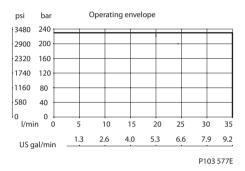
|--|

Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	27 l/min [7 US gal/min]
[100 psi]	
Weight	0.43 kg [0.95 lb]
Cavity	SDC10-2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

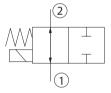
Theoretical performance

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





Schematic



P102 389

DIMENSIONS

mm [in]

Cross-sectional view 20 mm 9-11 N·m [6-8 lbf·ft] 27 mm ~ 7/8-14 UNF-2A 45-50 N·m 2 Standard Coil Nut Kit P/N 17400021 [33-37 lbf·ft] (Includes O-rings) كمر Ø26.5 [1.04] 2 COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN 5.0 [0.20] - 77.0 [3.03] -- 32.0 [1.26] P103 476 ORDERING

INFORMATION

SV10-22-01-12D-DN-B-00 Coil voltage 00 = No CoilBody Nomenclature **Body and ports** 12D = 12 VDC (Standard Coil) 00 = Cartridge only No Body 24D = 24 VDC (Standard Coil) . CP10-2-6S 6S = AI #6 SAFR12D = 12 VDC (R-Coil) CP10-2-85 8S = AI, #8 SAE R24D = 24 VDC (R-Coil) SDC10-2-DG3B DG3B = AI, 3/8 BSP Coil termination: DG4B = AI, 1/2 BSP SDC10-2-DG4B 00 = No Coil Other housings available FL = Flying Lead Seals Seals kit DN = DIN 43650 * B = Buna-N 354004019 DE = Deutsch P103 438E V = Viton 354003419 AJ = Amp Junior * SP = Spade * * These terminations are not available on robust coil (R12D, R24D) AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

Solenoid valves SV10-22-01



Cartridge Valves Technical Information Solenoid Valves 2-Way Spool SV08-22-02



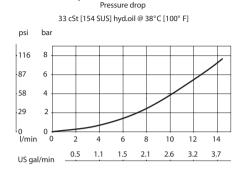
OPERATION

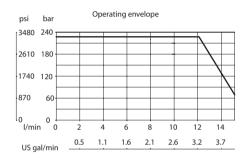
This is a normally-closed, direct-acting, 2-way, 2-position, spool-type solenoid valve.

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	14 l/min [4 US gal/min]
[100 psi]	
Weight	0.29 kg [0.64 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

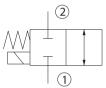
Theoretical performance





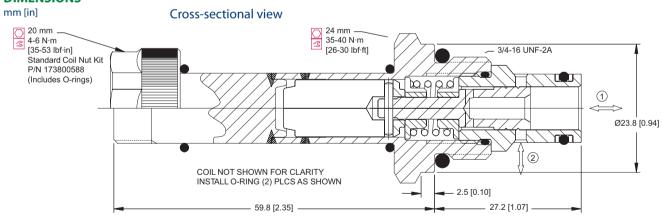
P103 564E

Schematic



P102 388

DIMENSIONS



ORDERING INFORMATION

SV08-22-02-12D-DN-B-00

Coil voltage		Ť		
00 = No Coil		Body and p	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartrido	ge only	No Body
24D = 24 VDC (Standard Coil)		DG2B = AI, 1	/4 BSP	SDC08-2-DG-2B
R12D = 12 VDC (R-Coil)		DG3B = AI, 3,	/8 BSP	SDC08-2-DG-3B
R24D = 24 VDC (R-Coil)		4S = AI, #4 S/	ΑE	CP08-2-45
Coil termination:		6S = AI, #6 S/	ΑE	CP08-2-6S
00 = No Coil		Other housir	ngs available	
FL = Flying Lead			Seal kit	
DN = DIN 43650 *		B = Buna-N	354003119	D102 2005
DE = Deutsch AJ = Amp Junior *		V = Viton	354003619	P103 386E
SP = Spade *	× == 1			11 (0100 0010)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)



Cartridge Valves Technical Information **Solenoid Valves** 2-Way Spool SV10-22-02



OPERATION

SPECIFICATIONS

This is a normally-closed, direct-acting, 2-way, 2-position, spool-type solenoid valve.

Specifications

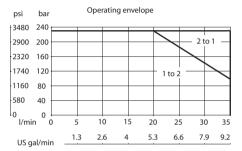
specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	35 l/min [9 US gal/min]
[100 psi]	
Weight	0.43 kg [0.95 lb]
Cavity	SDC10-2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Theoretical performance

33 cSt [154 SUS] hyd.oil @ 38°C [100° F] bar psi 187.0 6 72.5 5 58.0 4 2 to 1, 1 to 2 Energized 43.5 3 29.0 2 14.5 1 l/min 0 0 10 20 35 15 25 30

Pressure drop

1.3 2.6 4.0 5.3 6.6 7.9 US gal/min



V = Viton

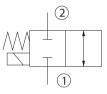
354003419

* These terminations are not available on robust coil (R12D, R24D)

P103 578E

9.2

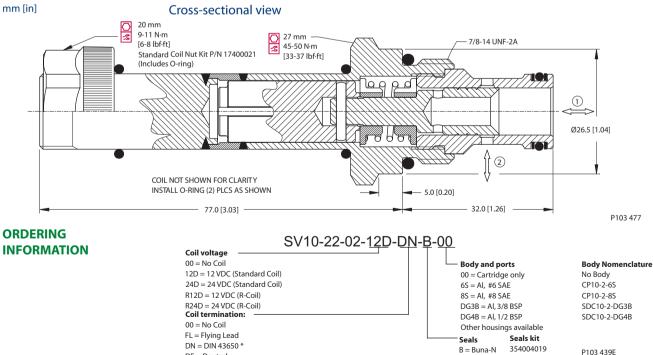
Schematic



P102 388

DIMENSIONS

mm [in]



AJ = Amp Junior

SP = Spade * AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

Solenoid valves SV10-22-02



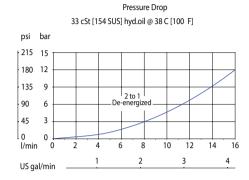
Cartridge Valves Technical Information Solenoid Valves 2-Way Spool SV08-22-03



OPERATION

This is a direct-acting, 2-position, 2-way, spool-type solenoid valve.

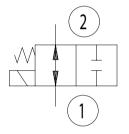
Theoretical performance

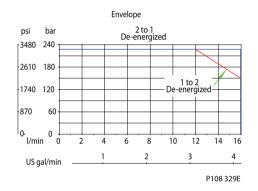


SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Maximum flow at	12 l/min [3.2 US gal/min]
rated pressure	
Weight	0.29 kg [0.64 lb]
Cavity	SDC08-2
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Schematic

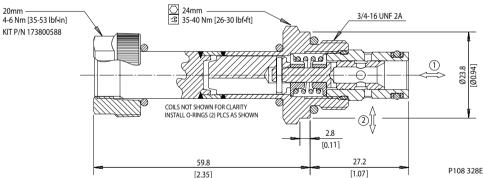




DIMENSIONS

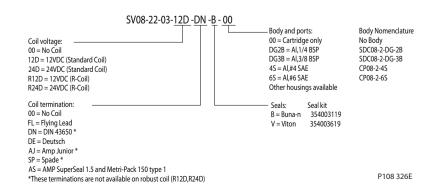
mm [in]

Cross-sectional view



P108 327E

ORDERING INFORMATION







OPERATION

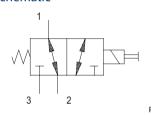
This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

Theoretical performance

SPECIFICATIONS

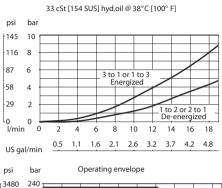
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	17 l/min [5 US gal/min]
[100 psi]	
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-3
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

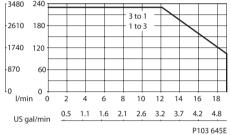
Schematic



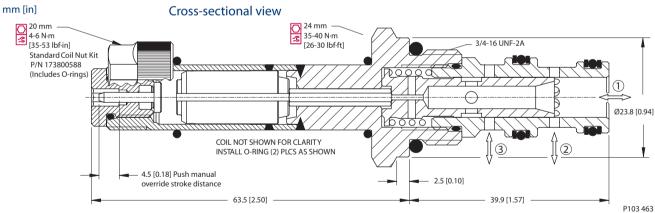


Pressure drop





DIMENSIONS



ORDERING **INFORMATION**

SV08-23-01-12D-DN-B-00

Coil voltage				
00 = No Coil		Body and p	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartrido	ge only	No Body
24D = 24 VDC (Standard Coil)		SE2B = AI, 1/-	4 BSP	SDC08-3-SE2B
R12D = 12 VDC (R-Coil)		SE3B = AI, 3/	8 BSP	SDC08-3-SE3B
R24D = 24 VDC (R-Coil)		4S = Al, #4 S	AE	CP08-3-4S
Coil termination:		6S = AI, #6 S	AE	CP08-3-65
00 = No Coil		Other housir	ngs available	
FL = Flying Lead	L		Seals kit	
DN = DIN 43650 *		B = Buna-N	354003210	
DE = Deutsch		V = Viton	354003819	P103 425E
AJ = Amp Junior *		V = VICOII	551005015	
SP = Spade *	* These termin	nations are not avai	lable on robust	coil (B12D B24D)
AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1	mese termi	lations are not avail		con (1120,11240)

Solenoid valves

...





2 to 1 or 1 to 2

De-Energized

OPERATION

This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

Theoretical performance

116 8

.87 6

-58 4

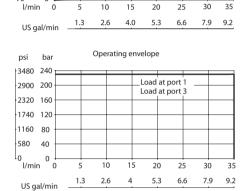
29 2

0 0

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

SPECIFICATIONS

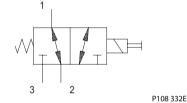
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	28 l/min [7 US gal/min]
[100 psi]	
Weight	0.42 kg [0.93 lb]
Cavity	SDC10-3
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)



3 to 1 or 1 to 3

Energized

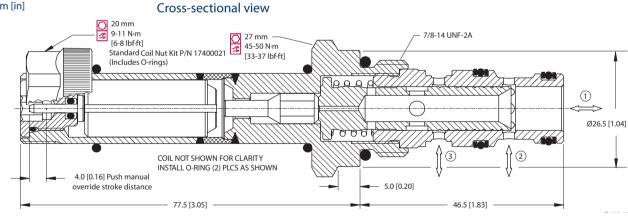
Schematic



P103 579E

DIMENSIONS

mm [in]



ORDERING **INFORMATION**

SV10-23-01-12D-I	<u>DN-B-00</u>	
Coil voltage 00 = No Coil 12D = 12 VDC (Standard Coil) 24D = 24 VDC (Standard Coil)	Body and ports Body Nomenclature 00 = Cartridge only No Body 6S = Al, #6 SAE CP10-3-6S	e
R12D = 12 VDC (R-Coil) R24D = 24 VDC (R-Coil) Coil termination: 00 = No Coil	8S = AI, #8 SAE CP10-3-85 SE3B = AI, 3/8 BSP SDC10-3-SE3B SE4B = AI, 1/2 BSP SDC10-3-SE4B Other housings available	
FL = Flying Lead DN = DIN 43650 * DE = Deutsch AJ = Amp Junior * SP = Spade *	Seals Seals kit B = Buna-N 354004210 V = Viton 354003719	

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)





OPERATION

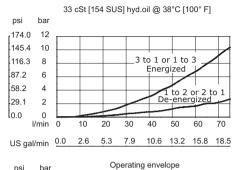
SPECIFICATIONS

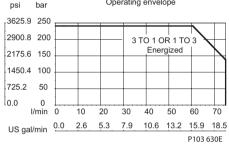
This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

Theoretical performance Pressure Drop

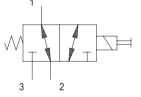


Rated pressure	240 bar [3500 psi]
Rated flow at 7 bar	60 l/min [16 US gal/min]
[100 psi]	
Weight	0.80 kg [1.76 lb]
Cavity	CP12-3
Standard Coil	D14E 30 Watt
Coil nut	321567





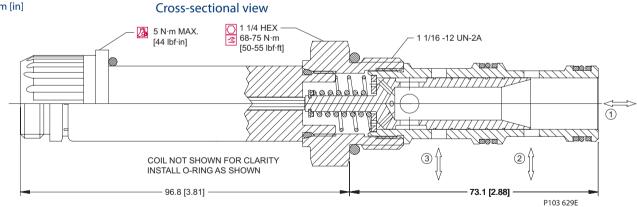
Schematic



P108 332E

DIMENSIONS

mm [in]



ORDERING **INFORMATION**

	CP521-21- <u>B</u> -1 <u>0S</u> -24	1D-S
Seals B = Buna-N V = Viton Housing and ports	Seal kit 120053 120052 Housing P/N	Termination 0 = No connector S = Spade L = Lead wire H = DIN 43640 M2 = Metripak 150 Type 1
0 = No Housing 4B = AL, 1/2 BSP 6B = AL, 3/4 BSP	No Housing CP12-3-4B CP12-3-6B	DE = Deutsch AJ = Amp Junior Coil Voltage
10S = AL, #10 SAE 12S = AL, #12 SAE	CP12-3-10S CP12-3-12S	000 = No coil 12D = 12 VDC 24D = 24 VDC

Solenoid valves CP521-21





OPERATION

SPECIFICATIONS

This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

230 bar [3300 psi]

0.31 kg [0.68 lb]

SDC08-3

M13 20 Watt

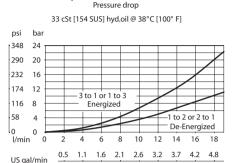
R13 16 Watt

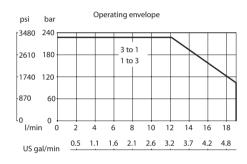
10 l/min [3 US gal/min]

Robust Nut P/N 173804910

(no coil O-rings needed)

Theoretical performance





P103 565E

Schematic

Specifications

Rated pressure

Standard Coil

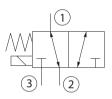
Robust Coil

[100 psi]

Weight

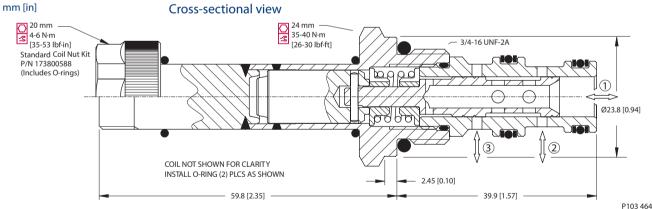
Cavity

Rated flow at 7 bar



P108 285

DIMENSIONS



ORDERING INFORMATION

SV08-23-02-12D-DN-B-00 Coil voltage 00 = No Coil **Body and ports Body Nomenclature** 12D = 12 VDC (Standard Coil) 00 = Cartridge only No Body 24D = 24 VDC (Standard Coil) SDC08-3-SE2B SE2B = AI, 1/4 BSPR12D = 12 VDC (R-Coil)SE3B = AI, 3/8 BSPSDC08-3-SE3B R24D = 24 VDC (R-Coil) 4S = AI, #4 SAE CP08-3-45 Coil termination: CP08-3-65 6S = AI, #6 SAE 00 = No Coil Other housings available FL = Flying Lead Seals kit Seals DN = DIN 43650 * 354003210 B = Buna-N P103 426E DE = Deutsch 354003819 V = Viton AJ = Amp Junior * SP = Spade * * These terminations are not available on robust coil (R12D, R24D) AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1





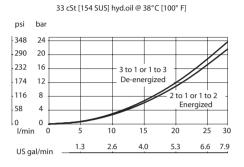
OPERATION

This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

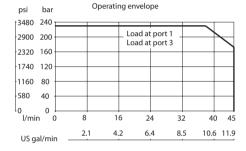
Theoretical performance

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	15 l/min [4 US gal/min]
[100 psi]	
Weight	0.42 kg [0.93 lb]
Cavity	SDC10-3
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)



Pressure drop



8S = AI, #8 SAE

Seals

B = Buna-N

V = Viton

SE3B = AI, 3/8 BSP

SE4B = AI, 1/2 BSP

Other housings available

* These terminations are not available on robust coil (R12D, R24D)

Seals kit

354004210

354003719

P103 580E

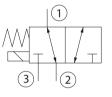
CP10-3-8S

P103 441E

SDC10-3-SE3B

SDC10-3-SE4B

Schematic



P102 720

DIMENSIONS

mm [in]

Cross-sectional view 20 mm 9-11 N⋅m 27 mm 7/8-14 UNF-2A [6-8 lbf·ft] 45-50 N·m 2 Standard Coil Nut Kit P/N 17400021 [33-37 lbf-ft] (coil O-rings included) Jaq p_d 1 Ø26.5 [1.04] 2 COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN 5.0 [0.20] 77.0 [3.03] - 46.5 [1.83] ORDERING SV10-23-02-12D-DN-B-00 **INFORMATION** Coil voltage 00 = No Coil **Body and ports Body Nomenclature** 12D = 12 VDC (Standard Coil) 00 = Cartridge only No Body 24D = 24 VDC (Standard Coil) 6S = AI, #6 SAE CP10-3-6S

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

R12D = 12 VDC (R-Coil)

R24D = 24 VDC (R-Coil)

Coil termination:

FL = Flying Lead

DN = DIN 43650 *

AJ = Amp Junior SP = Spade *

DE = Deutsch

00 = No Coil

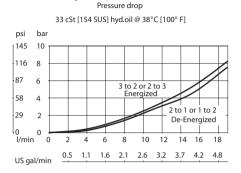


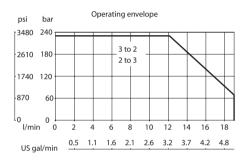


OPERATION

This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

Theoretical performance





P103 566E

SPECIFICATIONS

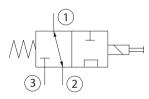
Rated flow at 7 bar	18 l/min [5 US gal/min]
[100 psi]	
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-3
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

230 bar [3300 psi]

Schematic

Specifications

Rated pressure



P108 264

DIMENSIONS mm [in] Cross-sectional view 20 mm _____ 4-6 N·m [35-53 lbf·in] 24 mm 0 % 35-40 N·m [26-30 lbf•ft] 3/4-16 UNF-2A Standard Coil Nut Kit P/N 173800588 (coil O-rings included) (1) Ø23.8 [0.94] COIL NOT SHOWN FOR CLARITY (3) 2 INSTALL O-RING (2) PLCS AS SHOWN 4.5 [0.18] Push manual override stroke distance 2.5 [0.10] 63.5 [2.50] 39.9 [1.57]

ORDERING INFORMATION

SV08-23-03-12D-DN-B-00

Coil voltage	<u></u> _			
00 = No Coil		Body and p	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartrido	ge only	No Body
24D = 24 VDC (Standard Coil)		SE2B = AI, 1/	4 BSP	SDC08-3-SE2B
R12D = 12 VDC (R-Coil)		SE3B = AI, 3/	8 BSP	SDC08-3-SE3B
R24D = 24 VDC (R-Coil)		4S = Al, #4 S	AE	CP08-3-4S
Coil termination:		6S = Al, #6 S	AE	CP08-3-6S
00 = No Coil		Other housir	ngs available	
FL = Flying Lead	L	Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354003210	
DE = Deutsch		V = Viton	354003819	P103 427E
AJ = Amp Junior *				
SP = Spade *	* These term	inations are not avai	lable on robust c	oil (R12D R24D)
AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1	mese term	inations are not avai		011 (1120,11240)

P103 465





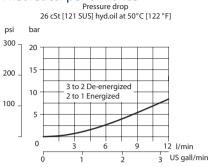
OPERATION

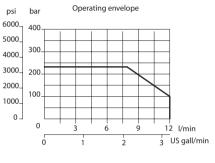
This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

Theoretical performance

SPECIFICATIONS

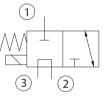
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	10 l/min [3 US gal/min]
[100 psi]	
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-3
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





P103 567E

Schematic



Cross-sectional view

DIMENSIONS

mm [in]

20 mm 4-6 Nm 24 mm 3/4-16 UNF-2A 35-40 Nm [26-30 lbf*ft] [35-53 lbf*in] Standard Coil nut kit P/N 173800588 (1) (coil O-rings included) ~ Ø23.8 [0.94] COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN 12 <u>}</u>](3) 2.5 [0.10] 59.8 39.9 [2.35] [1.57] P103 466

P108 265

ORDERING INFORMATION

Coil voltage	- + +			
00 = No Coil		Body and p	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartride	ge only	No Body
24D = 24 VDC (Standard Coil)		SE2B = AI, 1/	4 BSP	SDC08-3-SE2B
R12D = 12 VDC (R-Coil)		SE3B = AI, 1/	4 BSP	SDC08-3-SE3B
R24D = 24 VDC (R-Coil)		4S = AI, #4 S	AE	CP08-3-4S
Coil termination:		6S = Al, #6 S	AE	CP08-3-6S
00 = No Coil		Other housi	ngs available	
FL = Flying Lead		Seals	Seals kit	
DN = DIN 43650 *			354003210	P103 428E
DE = Deutsch		B = Buna-N		F103 428L
AJ = Amp Junior *		V = Viton	354003819	
SP = Spade *	* Those torn	ninations are not a	vailable on robu	st coil (R12D, R24D)
AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1	mese tem	initiations are not a	valiable off tobu	st coll (K12D, K24D)

SV08-23-04-12D-DN-B-00



COMPLIANT

Cartridge Valves Technical Information Solenoid Valves

MEMBER OF THE SAUER-DANFOSS GROUP 2-Way, 2-Position Spool

SV10-23-04

Schematic

(1)

3

2

This is a direct-acting, 2-position, 3-way, spool-type solenoid valve.

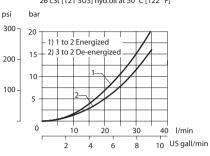
Theoretical performance Pressure drop 26 cSt [121 SUS] hyd.oil at 50°C [122 °F] psi bar

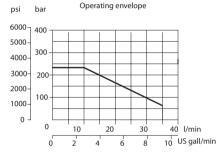
SPECIFICATIONS

OPERATION

RESPONSIVENESS IN MOTION

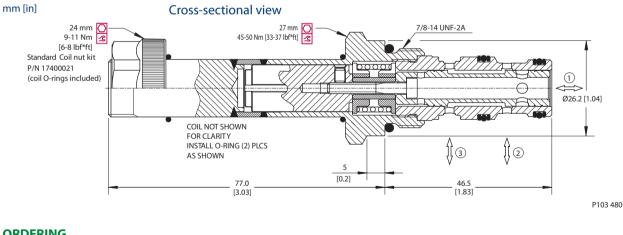
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	20 l/min [5 US gal/min]
[100 psi]	
Weight	0.42 kg [0.93 lb]
Cavity	SDC10-3
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





P103 581E

DIMENSIONS



ORDERING INFORMATION

P108 265

3 V 10-24-00- <u>12</u>	<u>.D-DIN-D</u> -	00			
Coil voltage					
00 = No Coil		Body and port	s	Body Nomenclature	
12D = 12 VDC (Standard Coil)		00 = Cartridge	only	No Body	
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE		CP10-4-6S	
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-8S	
R24D = 24 VDC (R-Coil)		L3B= AI, 3/8 BSI	þ	SDC10-4-L3B	
Coil termination:		L4B= AI, 1/2 BSI	>	SDC10-4-L4B	
00 = No Coil		Other housings	available		
FL = Flying Lead					
DN = DIN 43650 *		Seals	Seals kit		
DE = Deutsch		B = Buna-N	354001919	P103 442E	
AJ = Amp Junior *		V = Viton	354002019		
SP = Spade *	* These ter	minations are not avai	lable on robust co	il (R12D, R24D)	

Solenoid valves SV10-23-04





OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

Theoretical performance Pressure drop

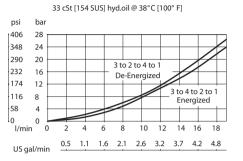
SPECIFICATIONS

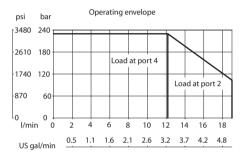
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	8 l/min [2 US gal/min]
[100 psi]	
Weight	0.32 kg [0.71 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Schematic

2 4

3 1





P103 568E

DIMENSIONS

mm [in] Cross-sectional view 20 mm 24 mm 4-6 N⋅m 35-40 N⋅m [35-53 lbf•in] 3/4-16 UNF-2A [26-30 lbf·ft] Standard Coil nut kit P/N 17380058 (coil O-rings included) (1)-Ø23.8 [0.94] 3 2 (4) COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN 2.5 [0.10] - 59.8 [2.35] -53.8 [2.12] P103 467

P108266

ORDERING INFORMATION

SV08-24-01-12D-DN-B-00

Coil voltage				
00 = No Coil		Body and po	rts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	e only	No Body
24D = 24 VDC (Standard Coil)		4S = AI, #4 SA	\E	CP08-4-4S
R12D = 12 VDC (R-Coil)		6S = AI, #6 SA	Æ	CP08-4-6S
R24D = 24 VDC (R-Coil)		L2B = AI, 1/4	BSP	SDC08-4-L2B
Coil termination:		Other housing	as available	
00 = No Coil			5	
FL = Flying Lead	L	Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354003319	P103 429E
DE = Deutsch		V = Viton	354003919	P103 429E
AJ = Amp Junior *				
SP = Spade *	* These termi	nations are not availa	able on robust co	
	inese terrin	iacions are not availa	ible on iobust co	(11 (11 Z D, 11 Z T D)

Solenoid valves SV08-24-01





OPERATION

SPECIFICATIONS

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

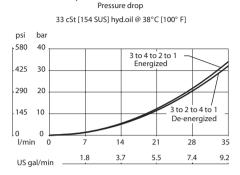
Specifications Rated pressure

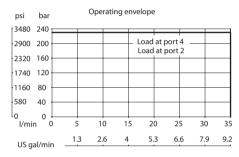
Schematic

2 4

3 1

Theoretical performance





P103 582E

Rated flow at 7 bar	15 l/min [4 US gal/min]
[100 psi]	
Weight	0.45 kg [0.99 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

230 bar [3300 psi]

DIMENSIONS

mm [in] Cross-sectional view 20 mm ≰ 9-11 N·m 27 mm 2 7/8-14 UNF-2A 45-50 N·m [6-8 lbf·ft] [33-37 lbf·ft] Standard Coil nut kit P/N 17400021 (coil O-rings included) کم وم Ø26.5 [1.04] 865 4 3 2 COIL NOT SHOWN FOR CLARITY INSTALL O-RING (2) PLCS AS SHOWN 5.0 [0.20] - 77.0 [3.03] -60.0 [2.44] P103 484

P108266

ORDERING INFORMATION

SV10-24-01-12D-DN-B-00

Coil voltage				
00 = No Coil		Body and port	s	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	only	No Body
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE		CP10-4-65
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-8S
R24D = 24 VDC (R-Coil)		L3B= AI, 3/8 BSI	Р	SDC10-4-L3B
Coil termination:		L4B= AI, 1/2 BSI	Р	SDC10-4-L4B
00 = No Coil	Other housings available			
FL = Flying Lead		-		
DN = DIN 43650 *	L	Seals	Seals kit	
DE = Deutsch		B = Buna-N	354001919	P103 443E
AJ = Amp Junior *		V = Viton	354002019	
•				
SP = Spade *	* These term	inations are not avai	ilable on robust co	il (R12D, R24D)

Solenoid valves SV10-24-01

COMPLIANT

71 RESPONSIVENESS IN MOTION

Cartridge Valves Technical Information

Solenoid Valves

MEMBER OF THE SAUER-DANFOSS GROUP 4-Way, 2-Position Spool

SV08-24-02

Schematic

2 4

3 1

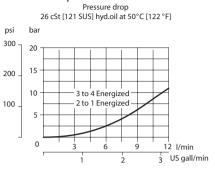
This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

Theoretical performance



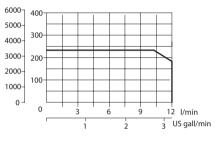
OPERATION

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	10 l/min [3 US gal/min]
[100 psi]	
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





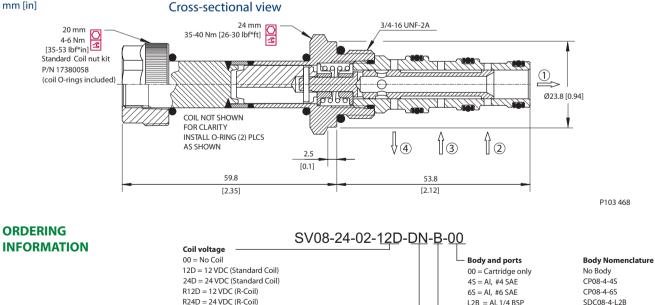
psi



P103 570E

DIMENSIONS

mm [in]



P108268

	L2B = Al, 1/4 BSP Other housings available	
— Seals	Seals kit	
B = Buna-N	354003319	
V = Viton	354003919	P103 430E

* These terminations are not available on robust coil (R12D, R24D)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

Coil termination: 00 = No Coil FL = Flying Lead DN = DIN 43650 * DE = Deutsch

AJ = Amp Junior * SP = Spade *





OPERATION

SPECIFICATIONS

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

230 bar [3300 psi]

0.31 kg [0.68 lb]

M13 20 Watt

R13 16 Watt

SDC08-4

8 l/min [2 US gal/min]

Robust Nut P/N 173804910

P108271

(no coil O-rings needed)

Specifications

Rated pressure

Standard Coil

Robust Coil

Schematic

2

3

4

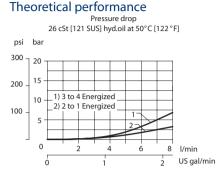
1

[100 psi]

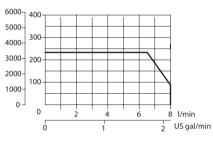
Weight

Cavity

Rated flow at 7 bar



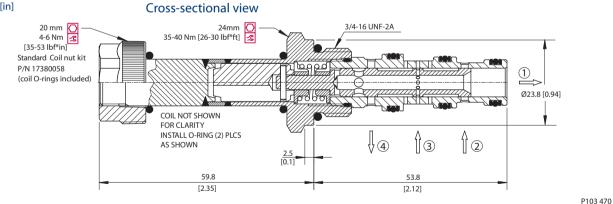




P103 571E

DIMENSIONS

mm [in]



ORDERING INFORMATION

SV10-24-12-1	12D-DN-B-0	0		
Coil voltage				
00 = No Coil		 Body and period 	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartrido	ge only	No Body
24D = 24 VDC (Standard Coil)		4S = AI, #4 S	AE	CP08-4-4S
R12D = 12 VDC (R-Coil)		6S = AI, #6 S	AE	CP08-4-65
R24D = 24 VDC (R-Coil)		L2B = AI, 1/4	I BSP	SDC08-4-L2B
Coil termination:		Other housir	ngs available	
00 = No Coil			Seals kit	
FL = Flying Lead		— Seals		
DN = DIN 43650 *		B = Buna-N	354003319	P103 432E
DE = Deutsch		V = Viton	354003419	F 105 452L
AJ = Amp Junior *				
SP = Spade *	* Thoso tormi	nations are not a	vailable on robust	coil (P12D P24D)
	mese termi	nations die not d	valiable off fobust	COII (NIZU, NZHU)

520L0588 • Rev DA • June 2010





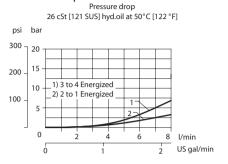
OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

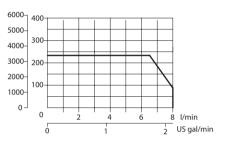
Theoretical performance

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	8 l/min [2 US gal/min]
[100 psi]	
Weight	0.31 kg [0.68 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)







P103 571E

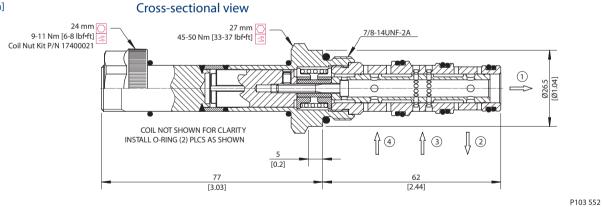
Schematic



P108 393E

DIMENSIONS

mm [in]



ORDERING INFORMATION

SV10-24-12-<u>12D-DN-B-00</u>

$0 \sqrt{10^{-2} + 12^{-1}}$		<u>/</u>		
Coil voltage				
00 = No Coil		 Body and po 	orts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartrido	ge only	No Body
24D = 24 VDC (Standard Coil)		4S = AI, #4 S	AE	CP08-4-45
R12D = 12 VDC (R-Coil)		6S = AI, #6 S	AE	CP08-4-65
R24D = 24 VDC (R-Coil)		L2B = AI, 1/4	BSP	SDC08-4-L2B
Coil termination:		Other housir	ngs available	
00 = No Coil			~ ·	
FL = Flying Lead	L	— Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354003319	
DE = Deutsch		V = Viton	354003419	P103 432E
AJ = Amp Junior *				
SP = Spade *	* Those termin	ations are not a	vailable on robust	

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)





OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

Theoretical performance

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	25 l/min [7 US gal/min]
[100 psi]	
Weight	0.45 kg [0.99 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

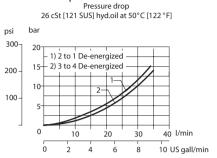
Schematic

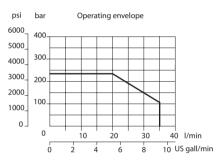
2

3

4

1

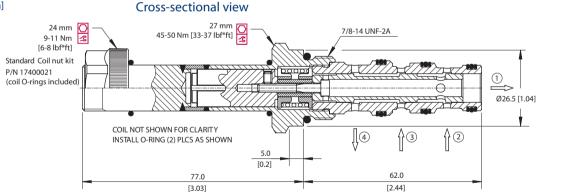




P103 583E

DIMENSIONS

mm [in]

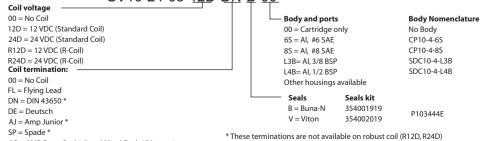


P108270

P103 481

ORDERING INFORMATION

SV10-24-05-<u>12</u>D-DN-B-<u>00</u>



AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

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OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

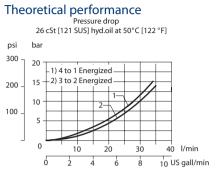
SPECIFICATIONS

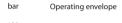
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at bar	24 l/min [6 US gal/min]
[psi]	
Weight	0.45 kg [0.99 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Schematic

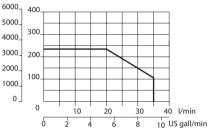
(2) (4)

1 3





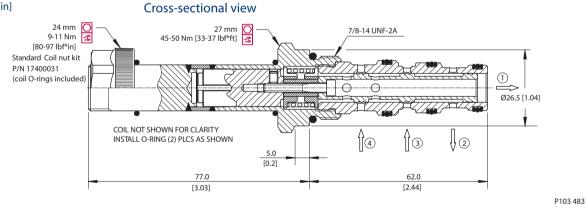
psi



P103 585E

DIMENSIONS

mm [in]



ORDERING **INFORMATION**

SV10-24-02-12D-DN B-00

P108273

Coil voltage		<u>_</u>		
00 = No Coil		— Body and port	s	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge o	only	No Body
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE		CP10-4-65
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-8S
R24D = 24 VDC (R-Coil)		L3B= AI, 3/8 BSF	0	SDC10-4-L3B
Coil termination:		L4B= AI, 1/2 BSF	b	SDC10-4-L4B
00 = No Coil		Other housings	available	
FL = Flying Lead				
DN = DIN 43650 *		— Seals	Seals kit	P103 446E
DE = Deutsch		B = Buna-N	354001919	
AJ = Amp Junior *		V = Viton	354002019	
SP = Spade *	* These termin	ations are not avai	lable on robust coi	

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

These terminations are not available on robust coil (R12D, R24D)





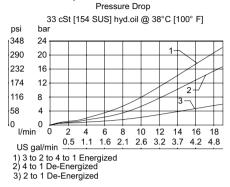
OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at bar	24 l/min [6 US gal/min]
[psi]	
Weight	0.45 kg [0.99 lb]
Cavity	SDC08-4
Standard Coil	M16 20 Watt
Robust Coil	R16 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

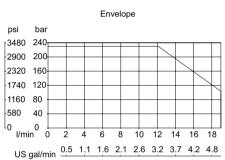
Theoretical performance



Schematic



P108 334E



P108 yyyE

DIMENSIONS

mm [in] Cross-sectional view 24 mm 🔘 3/4-16 UNF-2A 20 mm N 35-40 Nm [26-30 lbf*ft] 😒 4-6 Nm <u>^</u> [35-53 lbf*in] Coil Nut Kit лОг $A\Omega T$ P/N 173800588 [Ø0.94] 1 Ø23.8 K K C ALLAN 3 E AFTN. COIL NOT SHOWN FOR CLARITY **INSTALL O-RING (2) PLCS** (3)][2 [(4) AS SHOWN 2.5 [0.1] 59.8 53.8 [2.12] P108 aaaE [2.35] **ORDERING** SV08 -24-08-12D - DN -B-00 **INFORMATION** Coil voltage 00 = No Coil Body and ports Body Nomenclature 12D = 12 VDC (Standard Coil) 24D = 24 VDC (Standard Coil) R12D = 12 VDC (R-Coil) 00 = Cartridge only No Body 4S = AI, #4 SAE 6S = AI, #6 SAE CP08-4-45 CP08-4-6S R24D = 24 VDC (R-Coil) Coil termination: L2B = AI, 1/4 BSP SDC08-4-L2B Other housings available 00 = No Coil FL = Flying Lead DN = DIN 43650 Seals kit Seals B = Buna-N 354003319 DE = Deutsch 354003919 V = Viton AJ = Amp Junior * SP = Spade * These terminations are not available on robust coil (R12D, R24D) AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1 P108 zzzE

10.55

Solenoid valves SV08-24-08





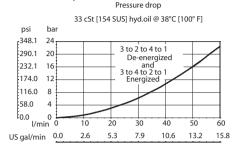
OPERATION

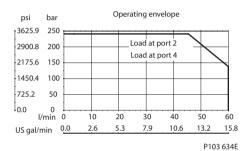
This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

Theoretical performance

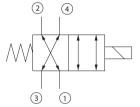
SPECIFICATIONS

Specifications	
Rated pressure	240 bar [3500 psi]
Rated flow at 13	32 l/min [8 US gal/min]
bar [189 psi]	
Weight	0.82 kg [1.81 lb]
Cavity	CP12-4
Standard Coil	D14E 30 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





Schematic



P108267

DIMENSIONS mm [in] Cross-sectional view 1 1/4 HEX 5 N·m MAX. 周 68-75 N ·m 1 1/16 -12 UN-2A [44 lbf·in] [50-55 lbf·ft] 179 P (1) OK 6 kinkaitu (3) 2 (4) COIL NOT SHOWN FOR CLARITY INSTALL O-RING AS SHOWN 96.8 [3.81] 82.6 [3.25] P103 632E

ORDERING CP531-21-B-10S-24D-S **INFORMATION** Termination Seals -Termination 0 = No connector S = Spade L = Lead wire H = DIN 43650 M2 = Metripak 150, Type 1Seal kit 120262 120263 B = Buna-N V = Viton Housing and ports Housing P/N DE = Deutsch0 = No Housing No Housing AJ = Amp Junior3B = AL, 3/8 BSP CP12-4-3B **Coil Voltage** 4B = AL, 1/2 BSP CP12-4-4B 000 = No coil 10S = AL, #10 SAE CP12-4-10S 12D = 12 VDC24D = 24 VDC = AL, #12 SAE CP12-4-12S 12S Other housings available





OPERATION

This is a direct-acting, 2-position, 4-way, spool-type solenoid valve.

Theoretical performance



Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	21 l/min [6 US gal/min]
[100 psi]	
Weight	0.45 kg [0.99 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

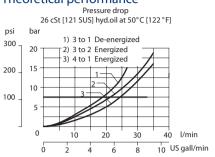
Schematic

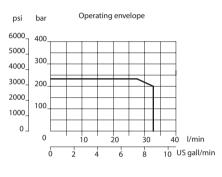
2

3

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1



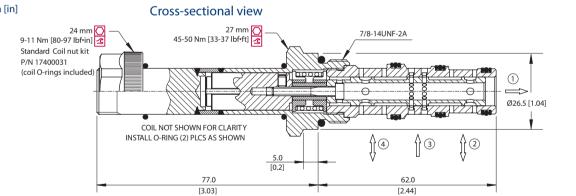


P103 587E

DIMENSIONS

mm [in]

P108 333E



P103 553

ORDERING INFORMATION

SV10-24-13-	<u>2D-DN-B-00</u>	
Coil voltage 00 = No Coil 12D = 12 VDC (Standard Coil) 24D = 24 VDC (Standard Coil) R12D = 12 VDC (R-Coil) R24D = 24 VDC (R-Coil) Coil termination:	00 = Cartridge only No 6S = Al, #6 SAE CP 8S = Al, #8 SAE CP L3B= Al, 3/8 BSP SD	dy Nomenclature Body 10-4-65 10-4-85 C10-4-L3B C10-4-L4B
00 = No Coil FL = Flying Lead DN = DIN 43650 * DE = Deutsch AJ = Amp Junior *	Other housings available Seals Seals kit B = Buna-N 354001919	2103 448E
SP = Spade *	* These terminations are not available on robust coil (R12	D, R24D)

Solenoid valves SV10-24-13



Cartridge Valves Technical Information Solenoid Valves



OPERATION

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

SV08-34-02

Schematic

Theoretical performance Pressure drop

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	10 l/min [3 US gal/min]
[100 psi]	
Weight	0.55 kg [1.21 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

(2

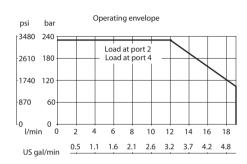
3

<u>S2</u>

(4)

(1)^{S1}

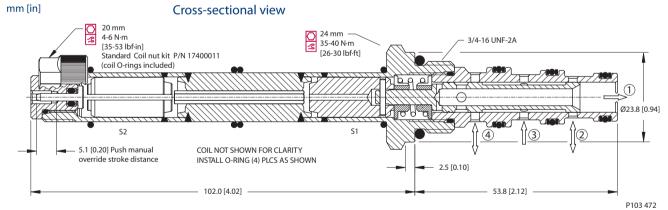
33 cSt [154 SUS] hyd.oil @ 38°C [100° F] har psi 1435 30 363 25 290 20 3 to 2 to 4 to 1 218 15 S2-Energized 145 10 3 to 4 to 2 to 1 72.5 5 S1-Energized lo 0 0 12 l/min 2 4 6 8 10 14 16 18 0.5 1.1 1.6 2.1 2.6 3.2 3.7 4.2 4.8 US gal/min



P103 573E

DIMENSIONS





ORDERING INFORMATION

SV08-34-02-12D-DN-B-00

Coil voltage				
00 = No Coil		Body and po	rts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	e only	No Body
24D = 24 VDC (Standard Coil)		4S = AI, #4 SA	Æ	CP08-4-4S
R12D = 12 VDC (R-Coil)		6S = AI, #6 SA	Æ	CP08-4-6S
R24D = 24 VDC (R-Coil)		L2B = AI, 1/4 I	BSP	SDC08-4-L2B
Coil termination:		Other housing	as available	
00 = No Coil			5	
FL = Flying Lead	L	—— Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354003319	
DE = Deutsch		V = Viton	354003919	P103 434E
AJ = Amp Junior *				
SP = Spade *	* Thoso tormi	nations are not availa	blo on robust coi	
	inese termi	nations are not dvalla	able of robust col	$(n_1 z D, n z + D)$

Solenoid valves SV08-34-02





OPERATION

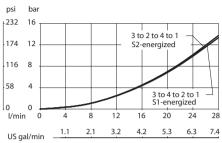
This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

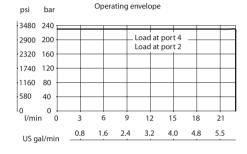
Theoretical performance Pressure drop

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

SPECIFICATIONS

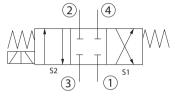
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	20 l/min [5 US gal/min]
[100 psi]	
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





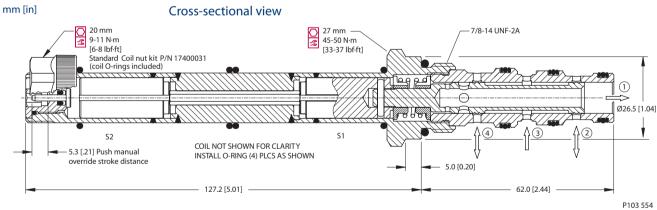
P103 588E

Schematic





DIMENSIONS



ORDERING INFORMATION

SV10-34-02-12D-DN-B-00 Coil voltage 00 = No CoilBody and ports **Body Nomenclature** 12D = 12 VDC (Standard Coil) 00 = Cartridge only No Body 24D = 24 VDC (Standard Coil) 6S = AI, #6 SAE CP10-4-6S R12D = 12 VDC (R-Coil) 8S = AI, #8 SAE CP10-4-85 R24D = 24 VDC (R-Coil) L3B= AI, 3/8 BSP SDC10-4-L3B Coil termination: L4B= AI, 1/2 BSP 00 = No Coil FL = Flying Lead

SDC10-4-L4B Other housings available Seals kit Seals 354001919 B = Buna-N P103 449E 354002019 V = Viton

* These terminations are not available on robust coil (R12D, R24D)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

DN = DIN 43650 *

AJ = Amp Junior SP = Spade *

DE = Deutsch

COMPLIANT



Cartridge Valves Technical Information Solenoid Valves

4-Way, 3-Position Spool

SV08-34-03

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

Theoretical performance

SPECIFICATIONS

OPERATION

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	8 l/min [2 US gal/min]
[100 psi]	
Weight	0.55 kg [1.21 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

(2)

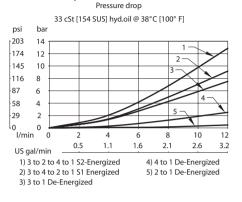
(3)

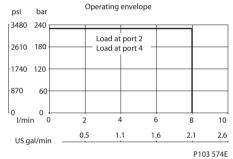
S2

(4)

S1

(1)





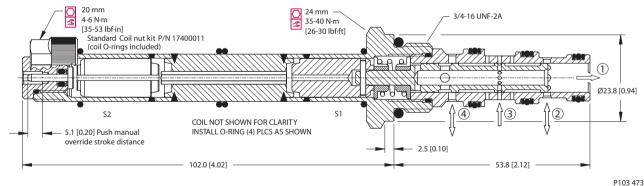
P108277

DIMENSIONS

mm [in]

Cross-sectional view

Schematic



ORDERING INFORMATION

SV08-34-03-12D-DN-B-00

Coil voltage				
00 = No Coil		Body and po	rts	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridg	e only	No Body
24D = 24 VDC (Standard Coil)		4S = AI, #4 SA	NE .	CP08-4-4S
R12D = 12 VDC (R-Coil)		6S = AI, #6 SA	νE	CP08-4-6S
R24D = 24 VDC (R-Coil)		L2B = AI, 1/4	BSP	SDC08-4-L2B
Coil termination:		Other housin	gs available	
00 = No Coil				
FL = Flying Lead		— Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354003319	P103 435E
DE = Deutsch		V = Viton	354003919	11034332
AJ = Amp Junior *				
SP = Spade *	* These terminat	tions are not availa	able on robust coi	il (R12D R24D)
	These termina	lions are not availe	ibic officioust co	(((120,1240)

Solenoid valves SV08-34-03

Cartridge Valves Technical Information Solenoid Valves

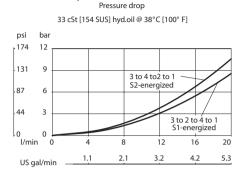


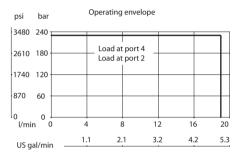
RESPONSIVENESS IN MOTION SOLENOID VALVES MEMBER OF THE SAUER-DANFOSS GROUP 4-Way, 3-Position Spool

SV10-34-03

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

Theoretical performance





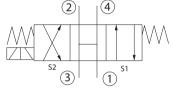
P103 589E

SPECIFICATIONS

OPERATION

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	16 l/min [4 US gal/min]
[100 psi]	
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

Schematic

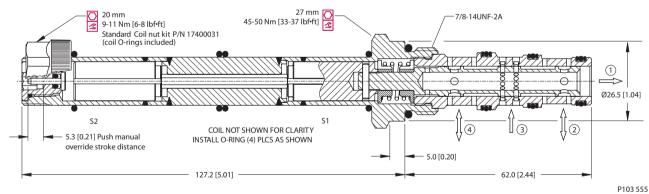


P108278

DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION

SV10-34-03-12D-DN-B-00

Coil voltage	ŤŤ	-		
00 = No Coil	L	Body and port	s	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	only	No Body
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE		CP10-4-65
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-85
R24D = 24 VDC (R-Coil)		L3B= AI, 3/8 BSI	Р	SDC10-4-L3B
Coil termination:		L4B= AI, 1/2 BSI	Р	SDC10-4-L4B
00 = No Coil		Other housings	available	
FL = Flying Lead		Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354001919	
DE = Deutsch		V = Viton	354002019	P103 450E
AJ = Amp Junior *				
SP = Spade *				11 (24.00, 20, (2))

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)





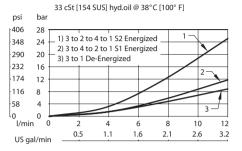
OPERATION

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

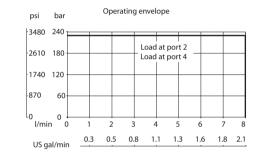
Theoretical performance

SPECIFICATIONS

Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	6 l/min [2 US gal/min]
[100 psi]	
Weight	0.55 kg [1.21 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

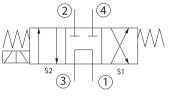


Pressure drop



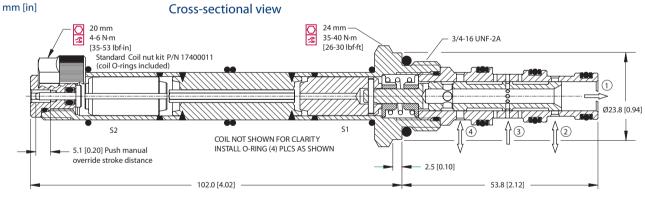
P103 575E

Schematic



P102 394E

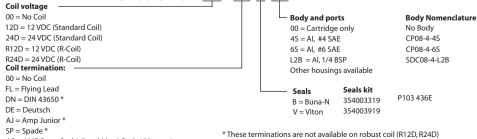
DIMENSIONS



P103 474

ORDERING INFORMATION

SV08-34-04-12D-DN-B-00



Solenoid valves SV08-34-04





OPERATION

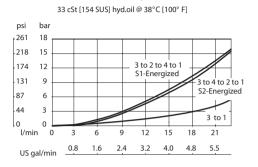
This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

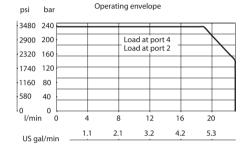
Theoretical performance

Pressure drop

SPECIFICATIONS

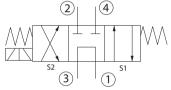
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	15 l/min [4 US gal/min]
[100 psi]	
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





P103 590E

Schematic

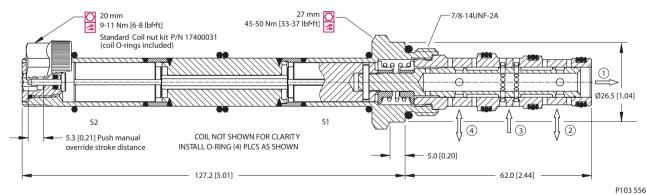


P108276

DIMENSIONS

mm [in]

Cross-sectional view



ORDERING INFORMATION

SV10-34-04-12D-DN-B-00

Coil voltage	-			
00 = No Coil		Body and port	s	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	only	No Body
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE		CP10-4-6S
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-85
R24D = 24 VDC (R-Coil)		L3B= Al, 3/8 BS	Р	SDC10-4-L3B
Coil termination:		L4B= AI, 1/2 BS	Р	SDC10-4-L4B
00 = No Coil		Other housing:		50010-4-640
FL = Flying Lead		— Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354001919	
DE = Deutsch		V = Viton	354002019	P103 451E
AJ = Amp Junior *			551002017	
SP = Spade *	* Those torm	ninations are not ava	ilabla on robust co	
	mese tem	iniations are not ava		JII (N I ∠ D, NZ+D)

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

mese terminations are not available of 10003

Solenoid valves SV10-34-04

COMPLIANT

Comatr

Cartridge Valves Technical Information Solenoid Valves

MEMBER OF THE SAUER-DANFOSS GROUP 4-Way, 3-Position Spool

SV08-34-05

OPERATION

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

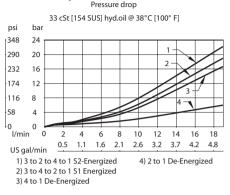
SPECIFICATIONS

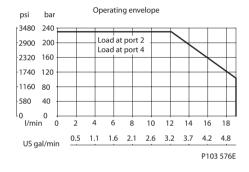
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	10 l/min [3 US gal/min]
[100 psi]	
Weight	0.55 kg [1.21 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

(4)

(1)^{s1}

Theoretical performance





DIMENSIONS

mm [in]

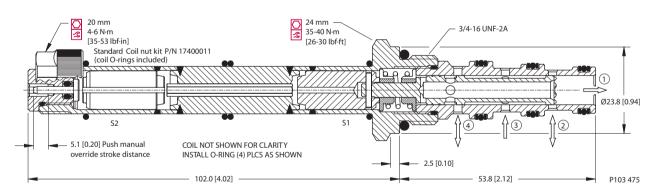
Cross-sectional view

S2

(2

(3)

Schematic



P108280

ORDERING INFORMATION

SV08-34-05-12D-DN-B-00

Coil voltage		
00 = No Coil	Body and ports Body Nomenc	lature
12D = 12 VDC (Standard Coil)	00 = Cartridge only No Body	
24D = 24 VDC (Standard Coil)	4S = AI, #4 SAE CP08-4-4S	
R12D = 12 VDC (R-Coil)	6S = AI, #6 SAE CP08-4-6S	
R24D = 24 VDC (R-Coil)	L2B = AI, 1/4 BSP SDC08-4-L2B	
Coil termination:	Other housings available	
00 = No Coil		
FL = Flying Lead	Seals Seals kit	
DN = DIN 43650 *	B = Buna-N 354003319	
DE = Deutsch	V = Viton 354003919 P103 437E	
AJ = Amp Junior *		
SP = Spade *	* Those terminations are not available on reduct soil (R12D R24D)	

AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1

* These terminations are not available on robust coil (R12D, R24D)

Solenoid valves SV08-34-05

COMPLIANT

Cartridge Valves Technical Information Solenoid Valves RESPONSIVENESS IN MOTION

MEMBER OF THE SAUER-DANFOSS GROUP 4-Way, 3-Position Spool

SV10-34-05

Specifications

Rated pressure

Standard Coil

Robust Coil

[100 psi]

Weight

Cavity

Rated flow at 7 bar

This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

230 bar [3300 psi]

0.81 kg [1.79 lb]

M16 26 Watt

R16 20 Watt

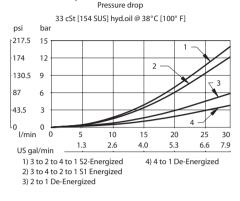
SDC10-4

20 l/min [5 US gal/min]

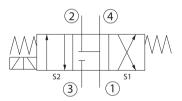
Robust Nut P/N **173804910**

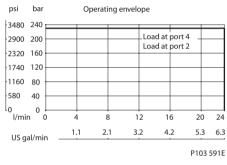
(no coil O-rings needed)

Theoretical performance



Schematic





DIMENSIONS

OPERATION

SPECIFICATIONS

mm [in] Cross-sectional view 20 mm 27 mm 7/8-14UNF-2A 9-11 Nm [6-8 lbf•ft] 45-50 Nm [33-37 lbf•ft] Standard Coil nut kit P/N 17400031 (coil O-rings included) 1 Ø23.8 [0.94] **S**1 S2 (2) 4 3 COIL NOT SHOWN FOR CLARITY 5.3 [0.21] Push manual INSTALL O-RING (4) PLCS AS SHOWN override stroke distance - 4.0 [0.16] 127.2 [5.01] -62.0 [2.44] P103 557

ORDERING INFORMATION

SV10-34-05-12D-DN-B-00

P108280

Coil voltage	J			
00 = No Coil		Body and port	s	Body Nomenclature
12D = 12 VDC (Standard Coil)		00 = Cartridge	only	No Body
24D = 24 VDC (Standard Coil)		6S = AI, #6 SAE	, i i i i i i i i i i i i i i i i i i i	CP10-4-65
R12D = 12 VDC (R-Coil)		8S = AI, #8 SAE		CP10-4-85
R24D = 24 VDC (R-Coil)		L3B= AI, 3/8 BS	Р	SDC10-4-L3B
Coil termination:		L4B= AI, 1/2 BS	Р	SDC10-4-L4B
00 = No Coil		Other housing		30010-4-140
FL = Flying Lead		— Seals	Seals kit	
DN = DIN 43650 *		B = Buna-N	354001919	D100 4505
DE = Deutsch		V = Viton	354002019	P103 452E
AJ = Amp Junior *		1 11011	551002017	
SP = Spade *	* Those torr	ninations are not ava	ilabla on robust se	
AC AMD Course Cool 1 Coord Materia Deals 1 COntrary 1	mese ten	initiations die not ava	mable on fobust co	JII (N 120, N240)





OPERATION

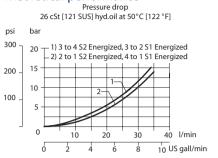
This is a direct-acting, 3-position, 4-way, spool-type solenoid valve.

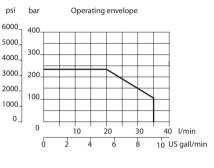
SV10-34-11

Theoretical performance

SPECIFICATIONS

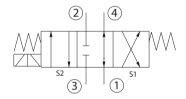
Specifications	
Rated pressure	230 bar [3300 psi]
Rated flow at 7 bar	24 l/min [6 US gal/min]
[100 psi]	
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)





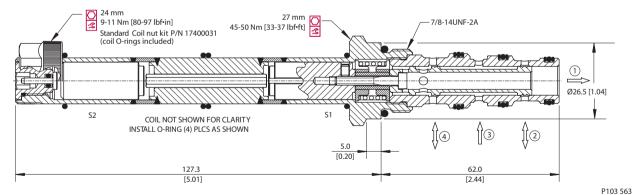
P103 597E

Schematic



DIMENSIONS mm [in]

Cross-sectional view



ORDERING **INFORMATION**

SV10-34-11-12D-DN-B-00

P108283

Coil voltage					
00 = No Coil		Body and poi	rts	Body Nomenclature	
12D = 12 VDC (Standard Coil)	00 = Cartridge only 6S = Al, #6 SAE 8S = Al, #8 SAE L3B= Al, 3/8 BSP		No Body CP10-4-6S CP10-4-8S		
24D = 24 VDC (Standard Coil)					
R12D = 12 VDC (R-Coil)					
R24D = 24 VDC (R-Coil)			SP	SDC10-4-L3B	
Coil termination:		L4B= AI, 1/2 B	SP	SDC10-4-L4B	
00 = No Coil		Other housings available			
FL = Flying Lead		- Seals	Seals kit		
DN = DIN 43650 *		B = Buna-N	354001919		
DE = Deutsch		V = Viton	354001919	P103 458E	
AJ = Amp Junior *		v = viton	354002019		
SP = Spade *	* These terminations are not available on robust coil (R12D, R24D)				
AS = AMP SuperSeal 1.5 and Metri-Pack 150 type 1	mese term	nations are not ava		(((120,12-0))	

Solenoid valves SV10-34-11