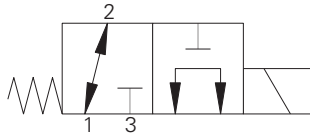


SV11-10-3/3M - Solenoid Valve

3-way, 2-position, spool type solenoid valve
Up to 23 L/min (6 USgpm) • 350 bar (5000 psi)

A



Operation

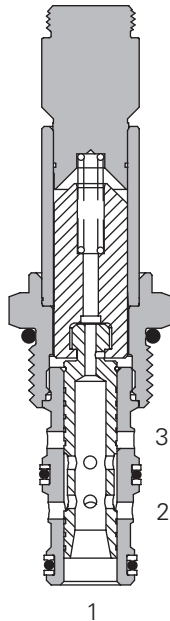
In the de-energized position this valve allows flow from port 2 to 1 while port 3 is blocked.

In the energized position flow is allowed from port 1 to port 3 while port 2 is blocked.

Features

Hardened, ground and honed working parts to limit leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop. Rated pressure on all ports. Working pressure 350 bar.

Sectional View



Performance Data

Ratings and Specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49° C (120° F)

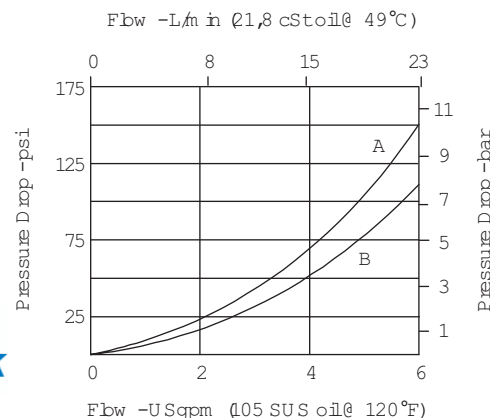
Typical Application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)
Rated Flow	23L/min (6 USgpm)
Internal leakage, port 2 to port 1	164 cm ³ /min (10 in ³ /min) max at 350 bar (5000 psi)
Temperature range	-40° to 100° C (-40° to 212° F)
Coil Duty	Continuous from 85% to 110% of nominal voltage
Cavity	C-10-3
Fluids	All general purpose hydraulics fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/16/13
Housing material (standard)	Steel
Weight cartridge only	0,19 kg (0.42 lbs)
Seal kit	889624 (Buna-N) 889688 (Viton®)

Viton is a registered trademark of E.I. DuPont

Description

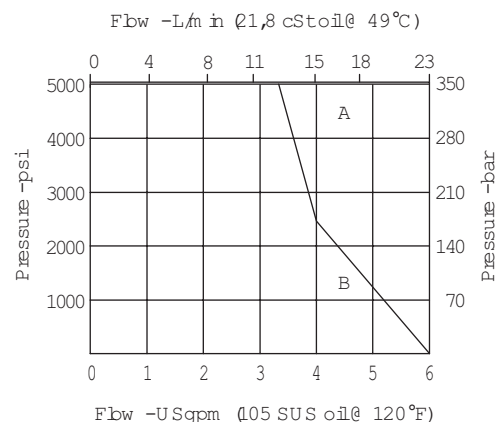
This is a 3-way 2-position, high pressure, direct acting, spool type solenoid valve. This valve can be used in applications requiring separate pressure and tank lines, such as a single acting cylinder or any other application where a three way two position solenoid valve is needed.

Pressure Drop Cartridge only



Pressure Drop vs. Flow

A - Port 3 to port 1
B - Port 1 to port 2



Operating Limits

A - Normally open, normally closed
B - Selector 1 to 2



available at:

ATP Hydraulik AG

Aarhusweg 8

CH-6403 Küssnacht am Rigi

www.atphydraulik.com

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

SV11-10-3/3M - Solenoid Valve

3-way, 2-position, spool type solenoid valve
Up to 23 L/min (6 USgpm) • 350 bar (5000 psi)

Model Code

SV11	-	10	(V)	-	3	(M)	-	(S)	**	-	****	*	H	-	00
1		2	3		4	5		6	7		8	9	10		11

1 Function
SV11 - Solenoid valve

2 Size
10 - 10 size

3 Seal Material
Blank - Buna-N
V - Viton®

4 Style
3 - 3 way, 2 position

5 Manual Override Option
Blank - No manual override
M - Manual override
For valvedimensionswithmanualover-
ride option installed see page A-980.

6 Valve Housing Material
Blank - Cartridge only
S - Steel

7 Port Size

Code	Port Size	Housing Number
0	Cartridge only	
2G	1/4" BSPP	02-175127
3G	3/8" BSPP	02-175128
6T	SAE 6	02-175124
8T	SAE 8	02-175125

See section J for housing details.

8 Voltage Rating

00 - No coil	24A - 24VAC
12D - 12VDC	115A - 115VAC
24D - 24VDC	230A - 230VAC
36D - 36VDC	12B - 12VDC/w diode*
	24B - 24VDC/w diode*

*Optional arc suppression diode

9 Connector Types
Blank - No coil
G - ISO 440 DIN 43650
Q - Spade terminals
W - Flying lead
N - Deutsch (DC only)
Y - Amp JR (DC only)
D - Metripack 150 male (DC only)
J - Metripack 280 male (DC only)

10 Coil Series
H - 10 series, 29 W
For coil dimensions see section C.

11 Special Features
00 - None
(Only required if valve has special features, omitted if "00".)

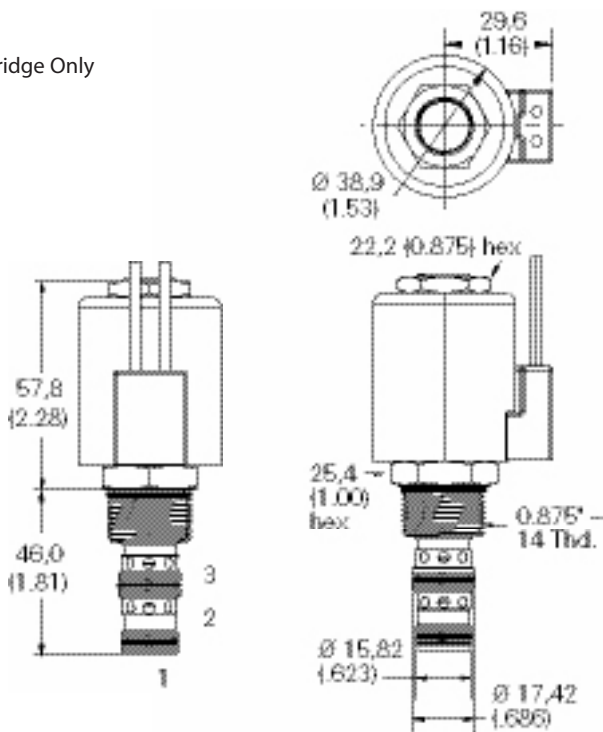
Dimensions

mm (inch)

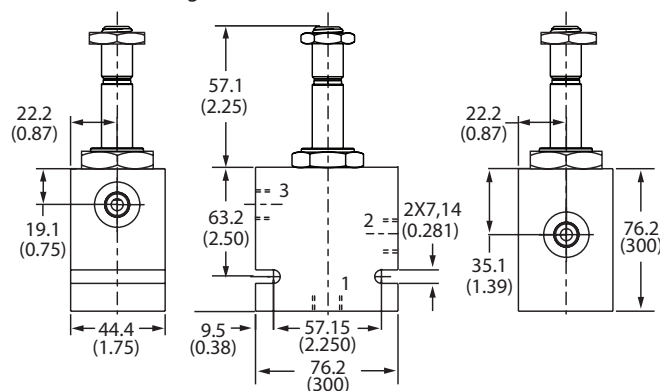
Torque cartridge in steel hous-
ing 68-75 Nm (50-55 ft. lbs)

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

Cartridge Only



Installation Drawing

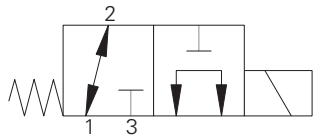


WARNING
Maintain 5-8 Nm
(4-6 ft. lbs) maximum
torque on valve tube nut.
Over tightening may cause
valve failure.

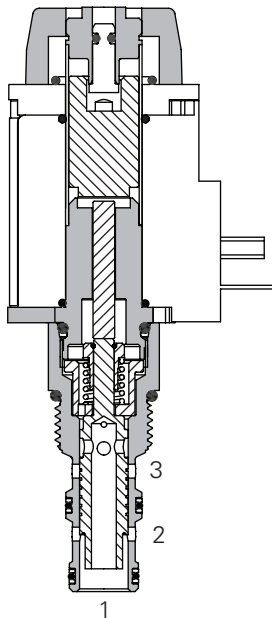
SV11A/B-10-3 - Solenoid Valve

3-way, 2-position, spool type solenoid valve
Up to 23 L/min (6 USgpm) • 350 bar (5000 psi)

A



Sectional View



Operation

In the de-energized position this valve allows flow from port 1 to 2 while port 3 is blocked.

In the energized position flow is allowed from port 3 to port 1 while port 2 is blocked.

Features

Hardened, ground and honed working parts to limit leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop. Rated pressure on all ports. Working pressure 350 bar.

Performance Data

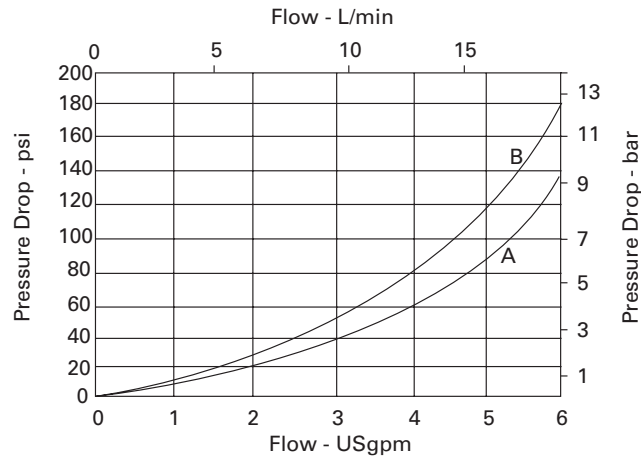
Ratings and Specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)		
Typical application pressure (all ports except port 1)		350 bar (5000 psi)
Typical application pressure at port 1		210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)		350 bar (5000 psi)
Rated flow	SV11A-10-3	17 L/min (5 USgpm)
	SV11B-10-3	23 L/min (6 USgpm)
Internal leakage		350 cc/min (21 in3/min) @ 210 bar (3000 psi)
Temperature range		-40° to 120°C (-40° to 248°F)
Coil duty		Continuous from 85% to 110% of nominal voltage
Cavity		C-10-3
Fluids		MIL-H-5606, SAE 10, SAE 20, etc.
Filtration Cleanliness code		18/16/13
Standard housing materials		Steel
Weight including coil	SV11A-10-3	0.42 kg (0.92 lbs)
	SV11B-10-3	
Seal kit		Buna-N), (Viton®)
Viton is a registered trademark of E.I. DuPont		

Description

This is a 3-way 2-position, high pressure, direct acting, spool type solenoid valve. This valve can be used in applications requiring separate pressure and tank lines, such as a single acting cylinder or any other application where a three way two position solenoid valve is needed.

Pressure Drop Cartridge only



Pressure Drop vs. Flow

A - Port 1 to port 2
B - Port 3 to port 1

SV11A/B-10-3 - Solenoid Valve

3-way, 2-position, spool type solenoid valve
Up to 23 L/min (6 USgpm) • 350 bar (5000 psi)

Model Code

SV11	*	-	10	*	3P	-	****	-	****	-	*	*	**	-	**
1	2	3	4	5	6	7	8	9	10	11					

1 Function

SV11 - Solenoid valve

2 Max Flow

A - 17 L/min (5 USgpm)
B - 23 L/min (6 USgpm)

3 Size

10 - 10 Size

4 Seal Material

Blank - Buna-N
V - Viton®

5 Style

3P - 3 way push type
manual override

Forvalvedimensionswithmanualover-
ride option installed see page A-980.

6 Port Size

Code	Port Size	Housing Number
		Aluminium Steel
0	Cartridge only	
A2G	1/4" BSPP	876705
A3G	3/8" BSPP	876710
A6H	SAE 6	876704
A8H	SAE 8	876711
S2G	1/4" BSPP	02-175127
S3G	1/3" BSPP	02-175128
S6T	SAE 6	02-175124
S8T	SAE 8	02-175125

See section J for housing details.

7 Voltage Rating

00 - No coil	12B - 12VDC/w diode*
12D - 12VDC	24B - 24VDC/w diode*
24D - 24VDC	*Optional arc suppression diode

8 Connector Types

Blank - No coil
G - ISO 440 DIN 43650
W - Flying lead
C - Deutsch on Leads
H - Metripak 150 on Leads
F - Weatherpak Male on Leads
For coil dimensions see section C.

9 Coil Types

Blank - No coil
L - L series, (30W EN
490) used for SV11A
R - R series, (30W) used
for SV11B-10

10 Coil Special Features

Blank - No coil
00 - No special feature

11 Special Features

00 - None
(Only required if valve has special
features, omitted if "00".)

Dimensions

mm (inch)

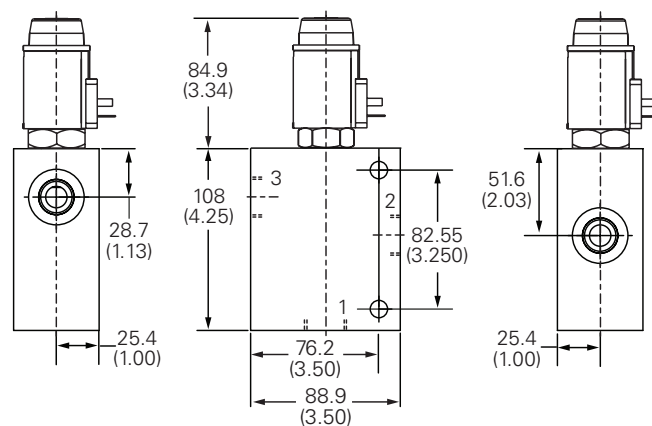
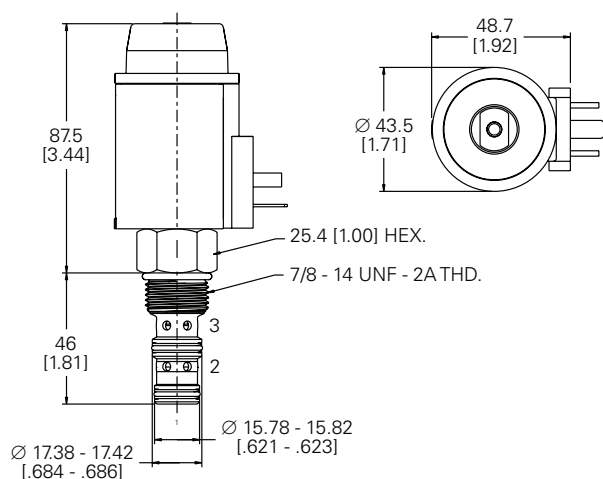
Cartridge Only

Torque cartridge in aluminum
housing 47-54 Nm (35-40 ft. lbs)

Torque cartridge in steel hous-
ing 68-75 Nm (50-55 ft. lbs)

Installation Drawing (Steel)

Note: When solenoid vale is
ordered as cartridge only,
coil nut is included.



WARNING

Aluminum housings
can be used for pres-
sures up to 210 bar (3000 psi).
Steel housings must be used
for operating pressures above
210 bar (3000 psi).



WARNING

Maintain 2.5-3 Nm
(1.8-2.2 ft. lbs) maxi-
mum torque on valve tube nut.
Over tightening may cause
valve failure.