

# Solenoid Cartridge Valve

- On/Off 2 Ways / 2 Positions Valve
- On/Off 3 Ways / 2 Positions Valve
- On/Off 4 Ways / 2 Positions Valve
- On/Off 4 Ways / 3 Positions Valve





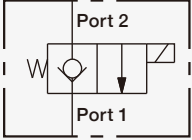
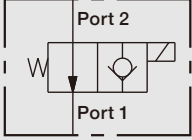
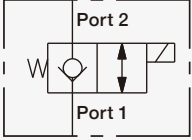
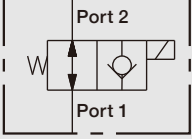
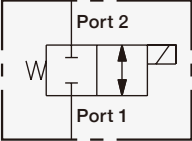
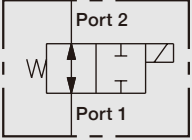
# Contents

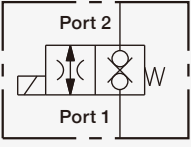
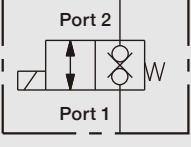
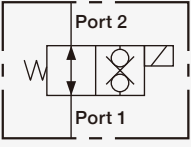
---

<b>Index</b> .....	06
<b>On/Off 2 Ways / 2 Positions Valve</b>	
SV-20 .....	08
SV-21 .....	10
SV-22 .....	12
SV-23 .....	14
SV-24 .....	16
SV-25 .....	18
SV-26 .....	20
SV-28 .....	22
SV-29 .....	26
<b>On/Off 3 Ways / 2 Positions Valve</b>	
SV-30 .....	28
SV-31 .....	30
SV-33 .....	32
SV-34 .....	34
SV-35 .....	36
SV38-38 ..... Double Blocking, 2 Position, 3-Way, N.C .....	38
<b>On/Off 4 Ways / 2 Positions Valve</b>	
SV-40 .....	40
SV-41 .....	42
SV-42 .....	44
<b>On/Off 4 Ways / 3 Positions Valve</b>	
SV-47A .....	46
SV-47C .....	48
SV-47D .....	50

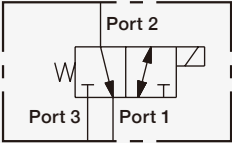
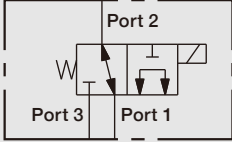
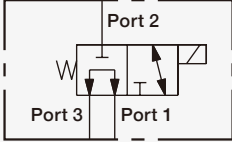
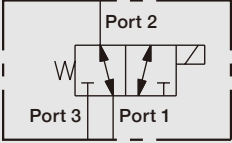
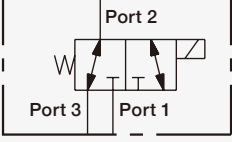
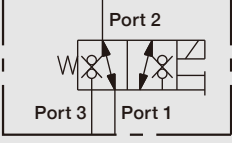
# Index

## ON/OFF 2 WAYS / 2 POSITIONS VALVE

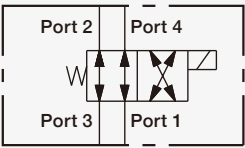
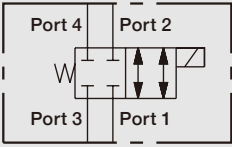
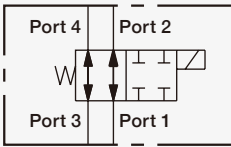
Page No.	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner	
					none	M
08		SV08-20	SAE-08-2	23	✓	✓
		SV10-20	SAE-10-2	45	✓	✓
		SV12-20	SAE-12-2	114	✓	✓
		SV16-20	SAE-16-2	132	✓	✓
10		SV08-21	SAE-08-2	30	✓	✓
		SV10-21	SAE-10-2	57	✓	✓
		SV12-21	SAE-12-2	114	✓	
		SV16-21	SAE-16-2	132	✓	
12		SV08-22	SAE-08-2	23	✓	✓
		SV10-22	SAE-10-2	45	✓	✓
		SV12-22	SAE-12-2	114	✓	✓
		SV16-22	SAE-16-2	132	✓	✓
14		SV08-23	SAE-08-2	30	✓	✓
		SV10-23	SAE-10-2	57	✓	✓
		SV12-23	SAE-12-2	114	✓	✓
		SV16-23	SAE-16-2	132	✓	✓
16		SV08-24	SAE-08-2	17	✓	
		SV10-24	SAE-10-2	38	✓	
18		SV08-25	SAE-08-2	18	✓	
		SV10-25	SAE-10-2	22	✓	

Page No.	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner	
					none	M
20		SV08-26	SAE-08-2	1	✓	
22		SV08-28G	SAE-08-2	19	✓	✓
		SV38-28	SAE-08-2	19	✓	
		SV10-28	SAE-10-2	38	✓	
		SV12-28	SAE-12-2	76	✓	
26		SV10-29	SAE-10-2	75.7	✓	✓
		SV12-29	SAE-12-2	113.6	✓	✓

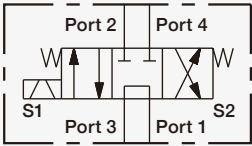
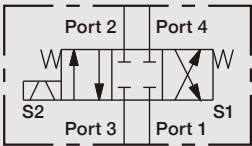
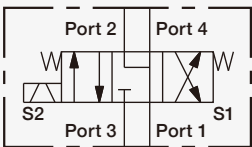
**ON/OFF 3 WAYS / 2 POSITIONS VALVE**

Page No.	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner	
					none	M
28		SV08-30	SAE-08-3	15	✓	
30		SV08-31	SAE-08-3	11	✓	
		SV10-31	SAE-10-3	22	✓	
32		SV08-33	SAE-08-3	11	✓	
		SV10-33	SAE-10-3	19	✓	
34		SV08-34	SAE-08-3	11	✓	
		SV10-34	SAE-10-3	23	✓	
36		SV08-35	SAE-08-3	11	✓	
38		SV38-38	SAE-08-3	11	✓	

## ON/OFF 4 WAYS / 2 POSITIONS VALVE

Page No.	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner	
					none	M
40		SV08-40	SAE-08-4	11	✓	
		SV10-40	SAE-10-4	22	✓	
42		SV08-41	SAE-08-4	11	✓	
		SV10-41	SAE-10-4	22	✓	
44		SV08-42	SAE-08-4	11	✓	
		SV10-42	SAE-10-4	22	✓	

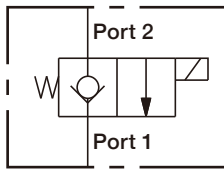
## ON/OFF 4 WAYS / 3 POSITIONS VALVE

Page No.	Symbols	Model No.	Cavity	Capacity (l/min)	Control Manner	
					none	M
46		SV08-47A	SAE-08-4	11	✓	✓
		SV10-47A	SAE-10-4	14	✓	
48		SV08-47C	SAE-08-4	11	✓	✓
		SV10-47C	SAE-10-4	22	✓	
50		SV08-47D	SAE-08-4	11	✓	✓
		SV10-47D	SAE-10-4	22	✓	

# SV-20



## SYMBOLS



## ORDER CODES

SV **08** - **20** **M** - **A1** - **DR** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10, 12, 16	
2	▶ Model Name	20	
3	▶ Control Manner	none	without manual override
		M	manual override
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

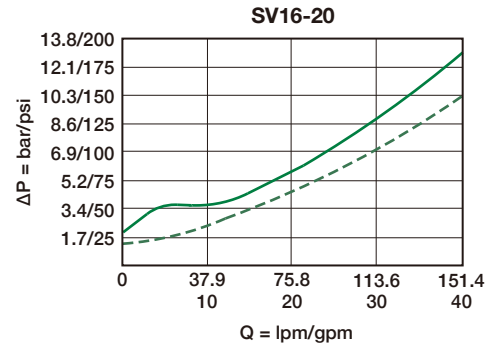
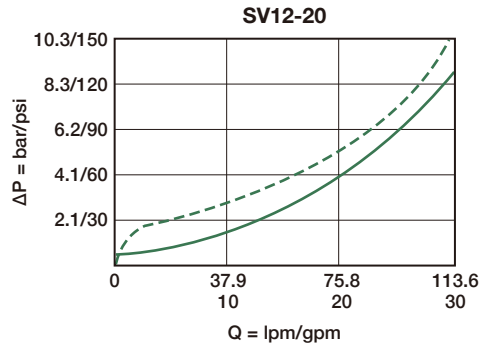
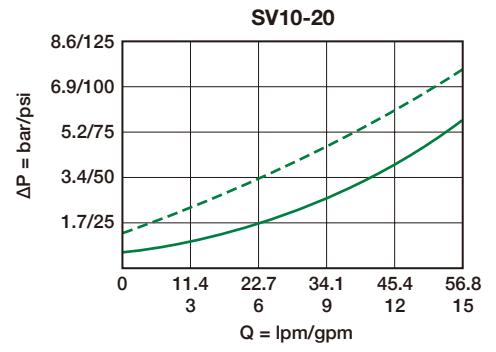
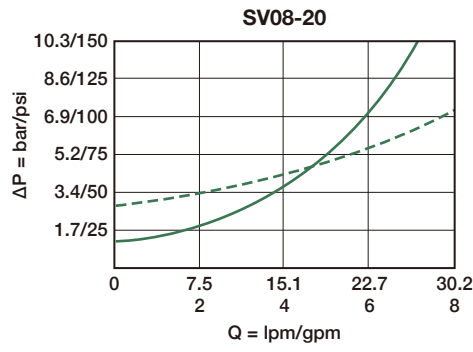
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-20	SAE-08-2	23	350	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.25
SV08-20M	SAE-08-2	23		27.1		0.26
SV10-20	SAE-10-2	45		33.9		0.45
SV10-20M	SAE-10-2	45		33.9		0.46
SV12-20	SAE-12-2	114		47.4		0.53
SV12-20M	SAE-12-2	114		47.4		0.54
SV16-20	SAE-16-2	132		67.7		0.62
SV16-20M	SAE-16-2	132		67.7		0.62

# PERFORMANCE CURVES

## ► Typical Pressure Drop

- de-energized, Port 1 → Port 2
- energized, Port 2 → Port 1

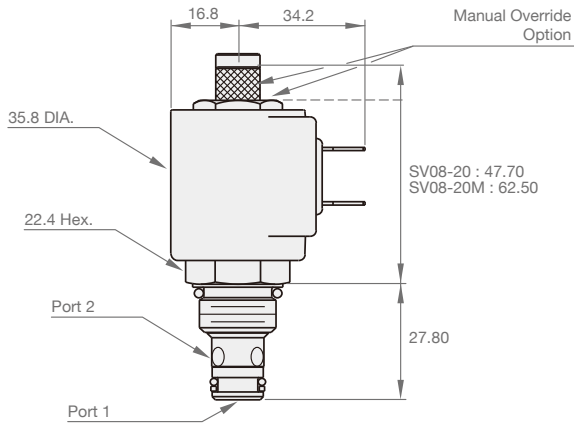
\* 32cSt / 150 ssu oil at 40°C



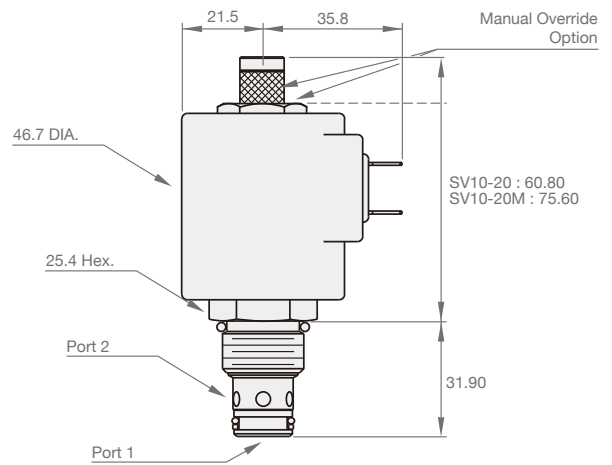
# DIMENSION

( UNIT : mm )

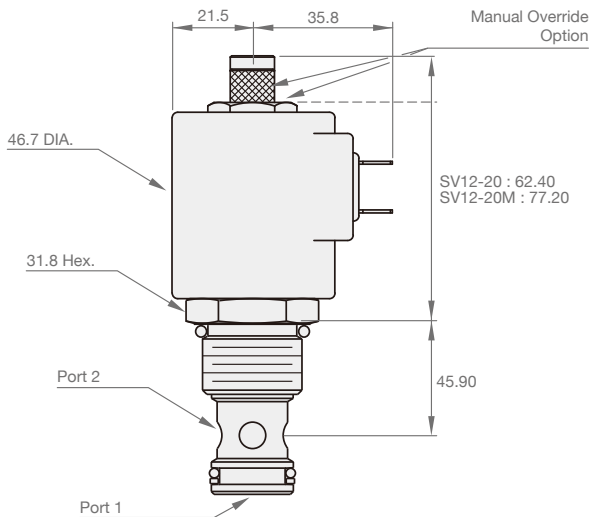
## ► SV08-20



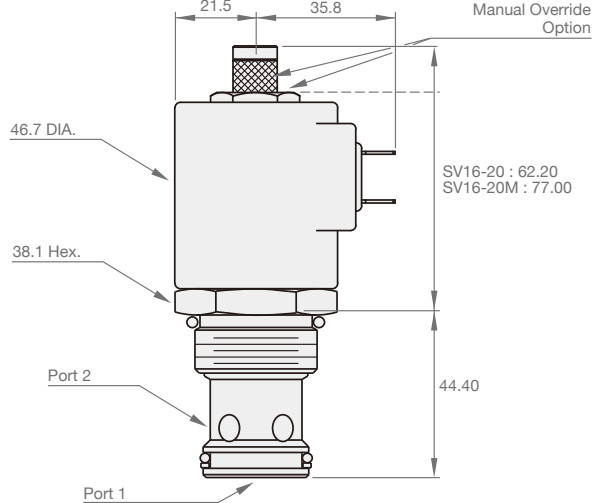
## ► SV10-20



## ► SV12-20



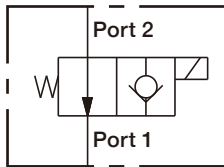
## ► SV16-20



# SV-21



## SYMBOLS



## ORDER CODES

SV **08** - **21** **M** - **D1** - **DL** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10, 12, 16	
2	▶ Model Name	21	
3	▶ Control Manner	none	without manual override
		M	manual override *
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

\* Only for SV08-21M, SV10-21M

## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-21	SAE-08-2	30	350	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.27
SV08-21M	SAE-08-2	30		27.1		0.27
SV10-21	SAE-10-2	57		33.9		0.49
SV10-21M	SAE-10-2	57		33.9		0.49
SV12-21	SAE-12-2	114		47.4		0.57
SV16-21	SAE-16-2	132		67.7		0.66

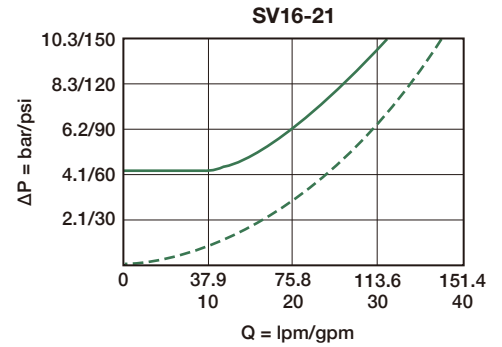
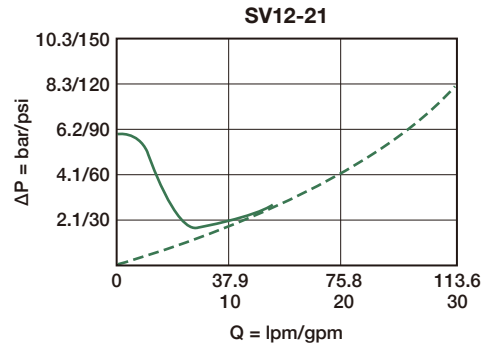
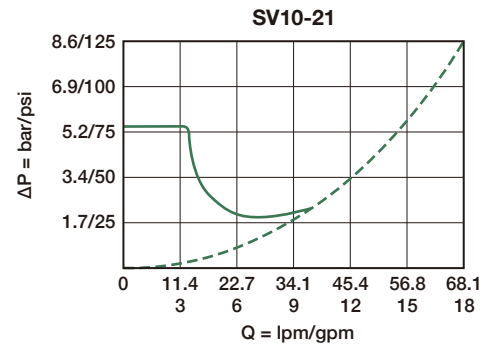
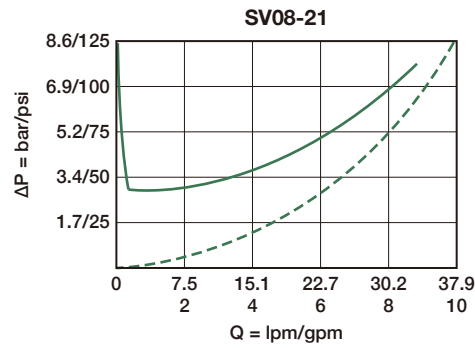
## PERFORMANCE CURVES

### ► Typical Pressure Drop

--- de-energized,  
Port 2 → Port 1

— energized,  
Port 1 → Port 2

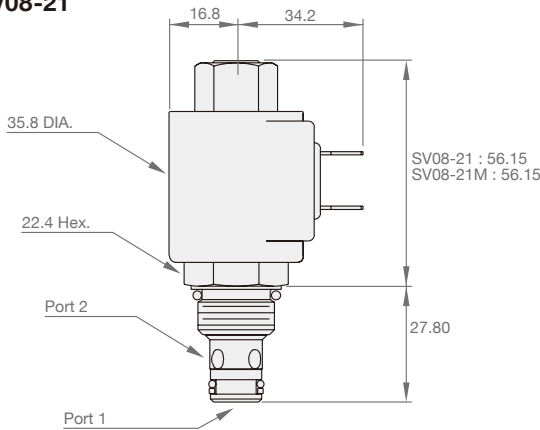
\* 32cSt / 150 ssu oil at 40°C



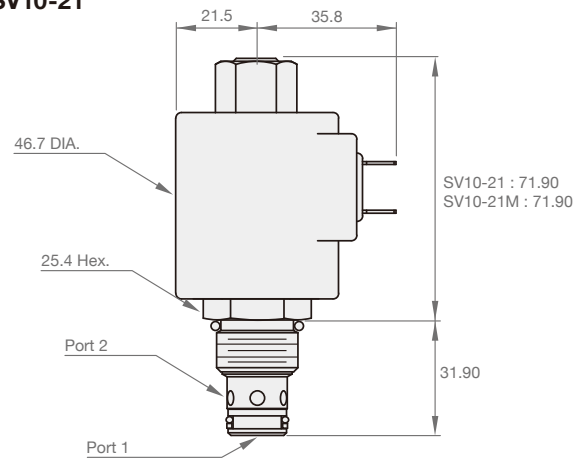
## DIMENSION

( UNIT : mm )

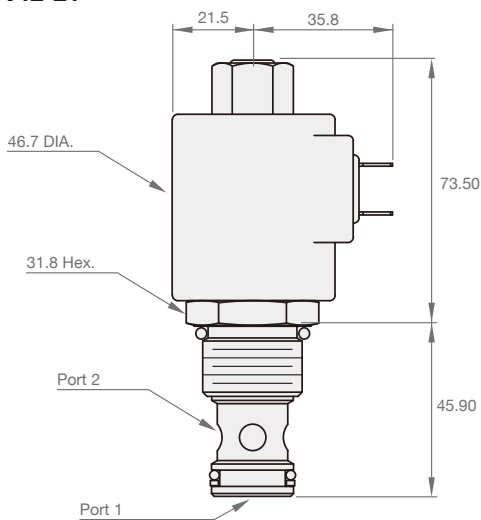
### ► SV08-21



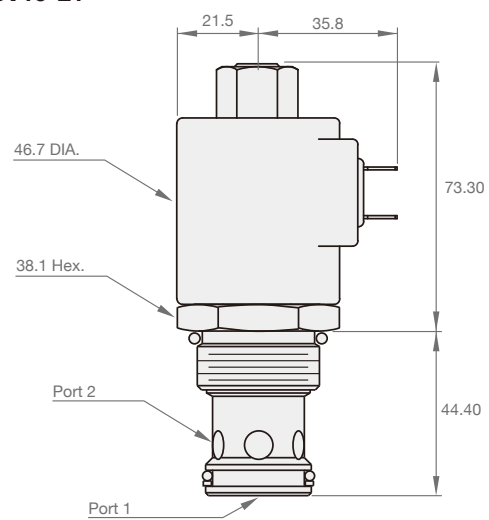
### ► SV10-21



### ► SV12-21



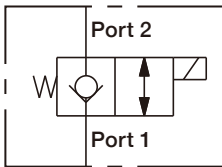
### ► SV16-21



# SV-22



## SYMBOLS



## ORDER CODES

SV **10** - **22** **M** - **D2** - **DG** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10, 12, 16	
2	▶ Model Name	22	
3	▶ Control Manner	none	without manual override
		M	manual override
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

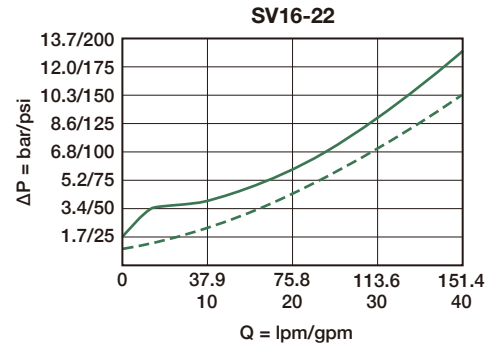
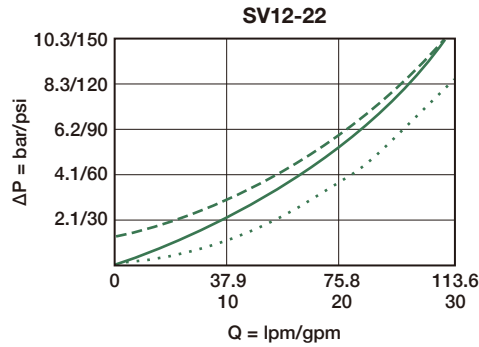
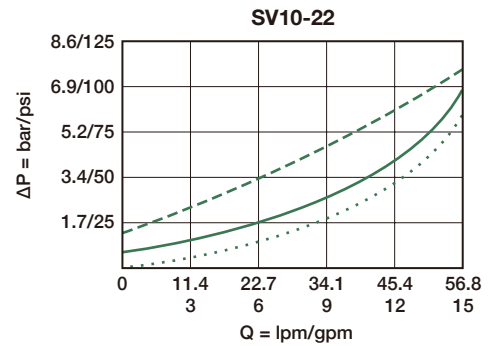
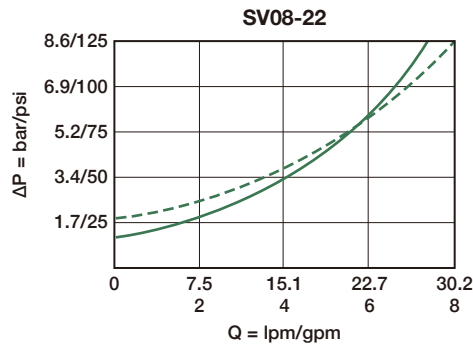
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-22	SAE-08-2	23	350	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.25
SV08-22M	SAE-08-2	23		27.1		0.25
SV10-22	SAE-10-2	45		33.9		0.47
SV10-22M	SAE-10-2	45		33.9		0.48
SV12-22	SAE-12-2	114		47.4		0.55
SV12-22M	SAE-12-2	114		47.4		0.56
SV16-22	SAE-16-2	132		67.7		0.64
SV16-22M	SAE-16-2	132		67.7		0.64

# PERFORMANCE CURVES

## ► Typical Pressure Drop

- de-energized, Port 1 → Port 2
- energized, Port 2 → Port 1
- ..... energized, Port 1 → Port 2

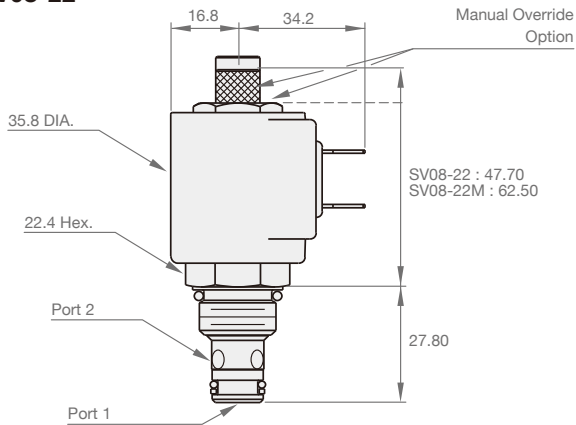
\* 32cSt / 150 ssu oil at 40°C



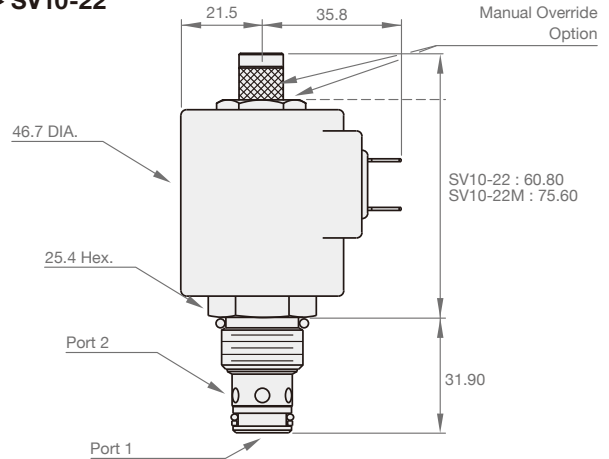
# DIMENSION

( UNIT : mm )

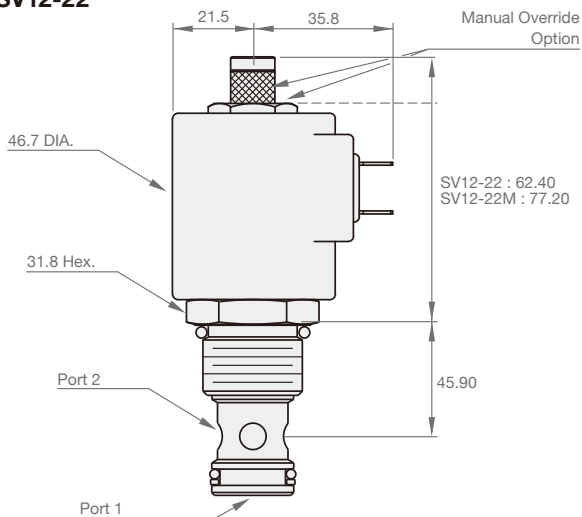
## ► SV08-22



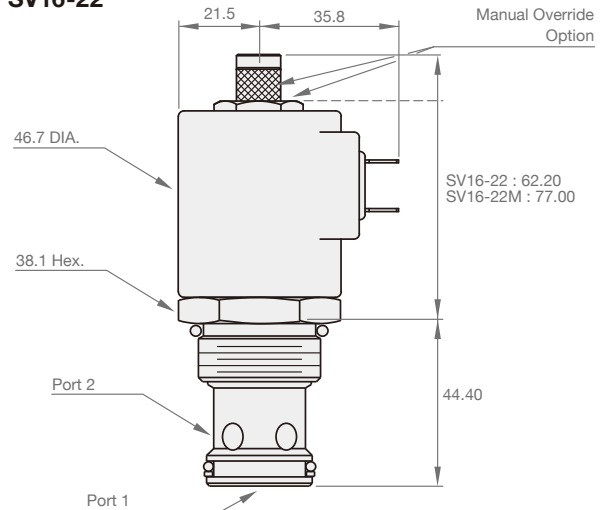
## ► SV10-22



## ► SV12-22



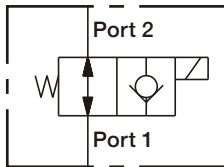
## ► SV16-22



# SV-23



## SYMBOLS



## ORDER CODES

SV **12** - **23** **M** - **A1** - **DL** - **V**

1
2
3
4
5
6

1	▶ Valve Size	08, 10, 12, 16	
2	▶ Model Name	23	
3	▶ Control Manner	none	without manual override
		M	manual override
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

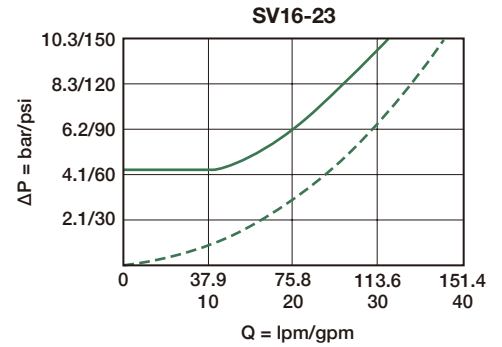
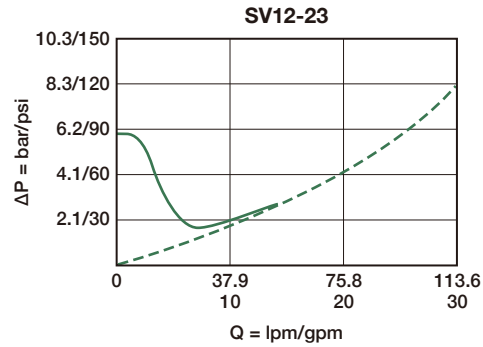
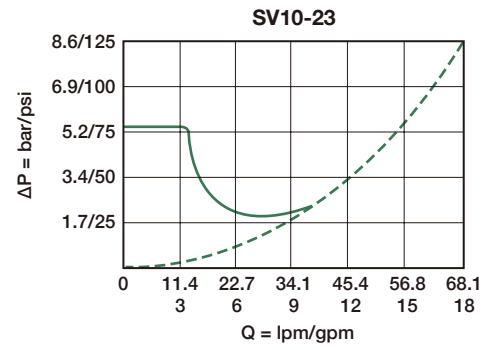
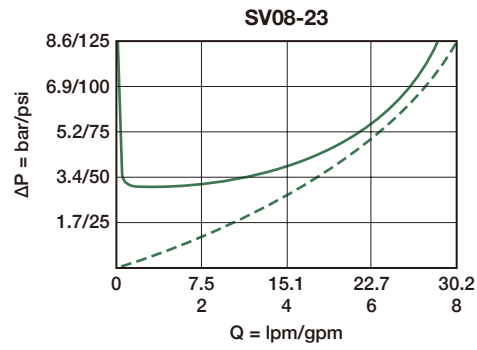
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-23	SAE-08-2	30	350	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.28
SV08-23M	SAE-08-2	30		27.1		0.28
SV10-23	SAE-10-2	57		33.9		0.49
SV10-23M	SAE-10-2	57		33.9		0.49
SV12-23	SAE-12-2	114		47.4		0.57
SV12-23M	SAE-12-2	114		47.4		0.57
SV16-23	SAE-16-2	132		67.7		0.66
SV16-23M	SAE-16-2	132		67.7		0.65

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized, Port 2 → Port 1
- energized, Port 1 → Port 2

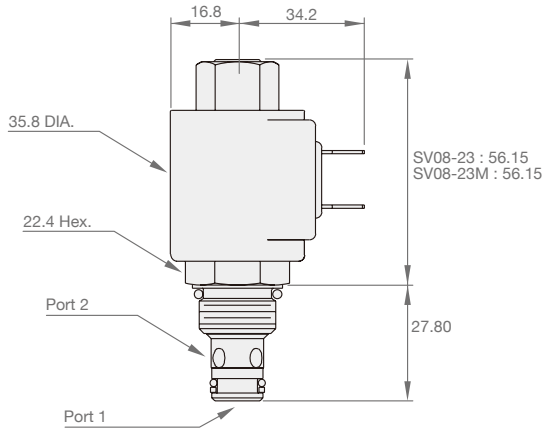
\* 32cSt / 150 ssu oil at 40°C



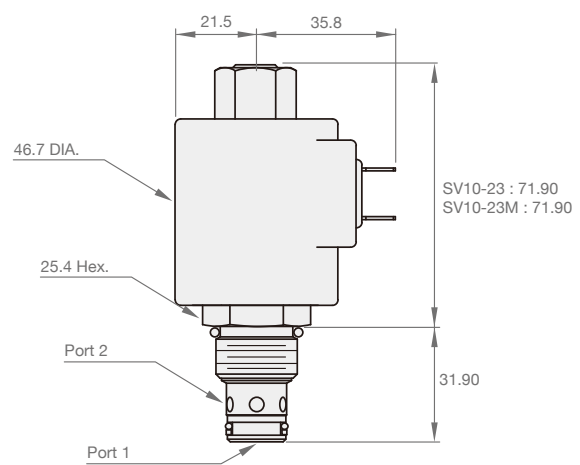
## DIMENSION

( UNIT : mm )

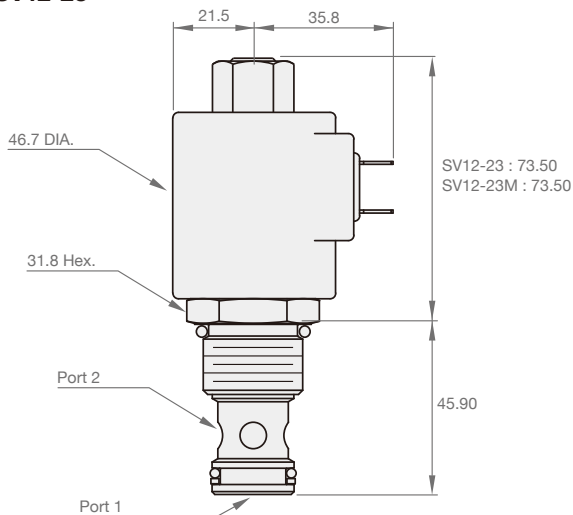
### ► SV08-23



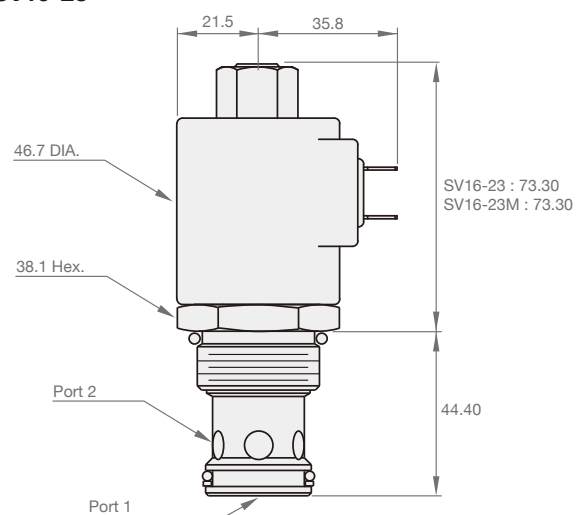
### ► SV10-23



### ► SV12-23



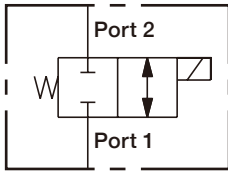
### ► SV16-23



# SV-24



## SYMBOLS



## ORDER CODES

SV **08** - **24** - **A2** - **DG** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	24	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

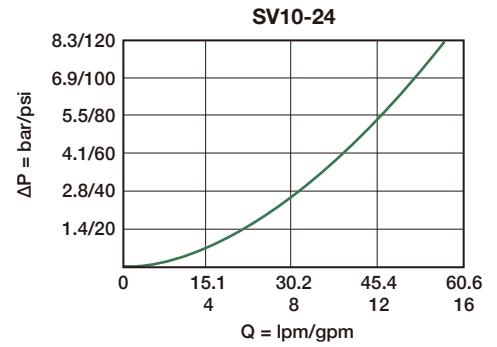
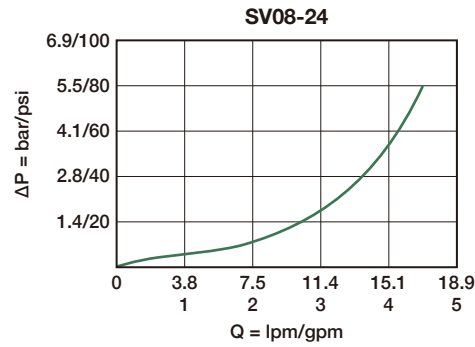
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-24	SAE-08-2	17	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.25
SV10-24	SAE-10-2	38		33.9		0.47

## PERFORMANCE CURVES

### ► Typical Pressure Drop

energized

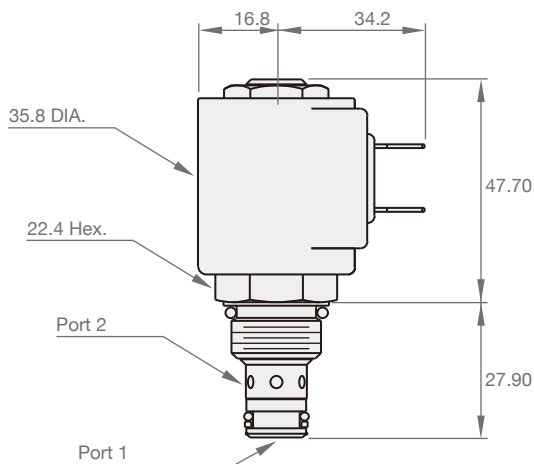
\* 32cSt / 150 ssu oil at 40°C



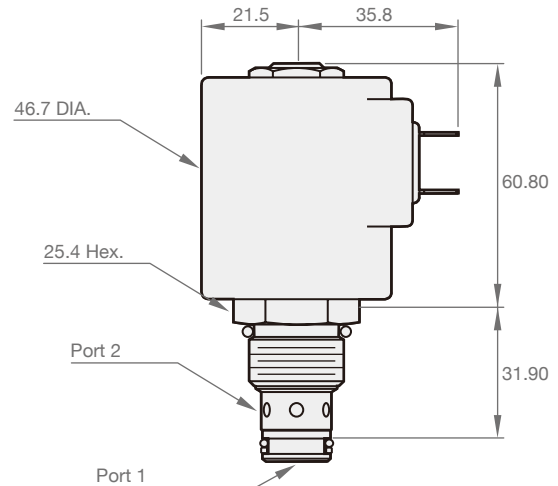
## DIMENSION

( UNIT : mm )

### ► SV08-24



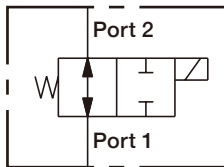
### ► SV10-24



# SV-25



## SYMBOLS



## ORDER CODES

SV **10** - **25** - **D1** - **DL** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	25	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

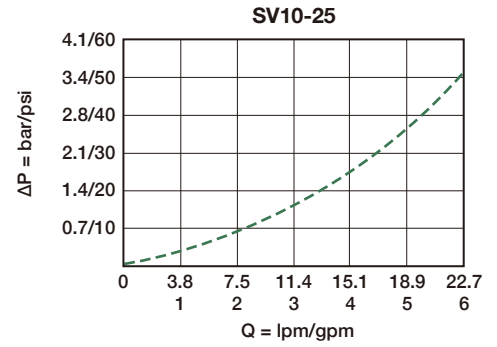
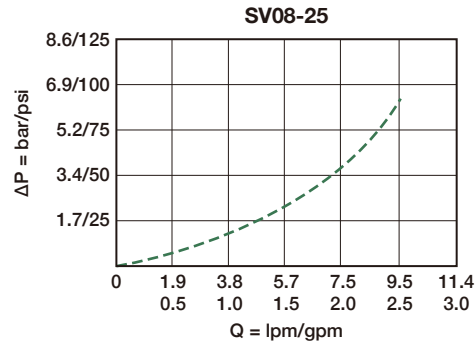
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-25	SAE-08-2	18	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.25
SV10-25	SAE-10-2	22		33.9		0.47

## PERFORMANCE CURVES

### ► Typical Pressure Drop

--- de-energized

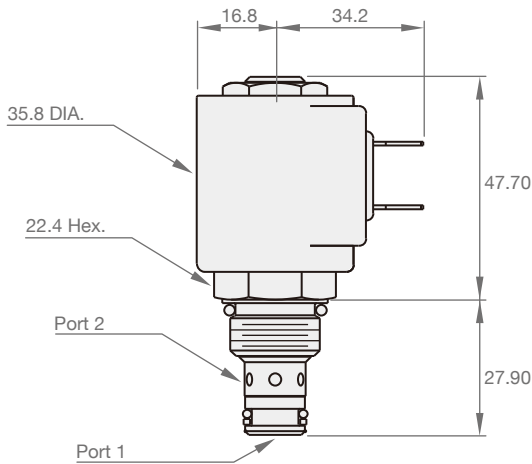
\* 32cSt / 150 ssu oil at 40°C



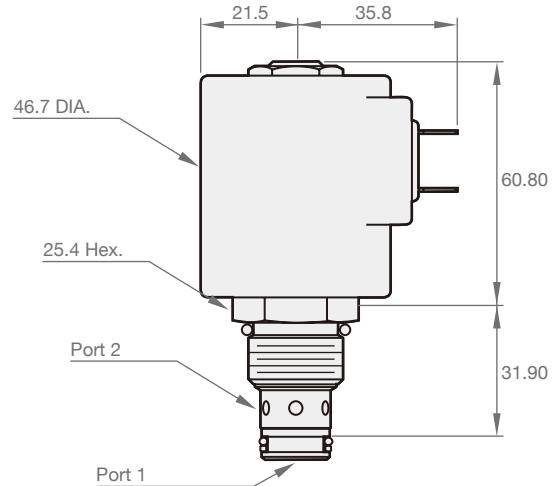
## DIMENSION

( UNIT : mm )

### ► SV08-25



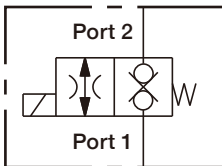
### ► SV10-25



# SV-26



## SYMBOLS



## ORDER CODES

SV **08** - **26** - **A1** - **DR** - **N**

1
2
3
4
5

1	▶ Valve Size	08	
2	▶ Model Name	26	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
		4	▶ Connector (coil)
5	▶ Material of Seal	DL	wiring type
		DR	Deutsch DT04-2P
		N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

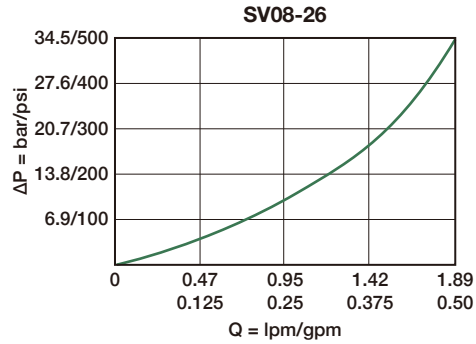
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-26	SAE-08-2	1	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26

## PERFORMANCE CURVES

### ► Typical Pressure Drop

— energized,  
Port 2 → Port 1 or  
Port 1 → Port 2

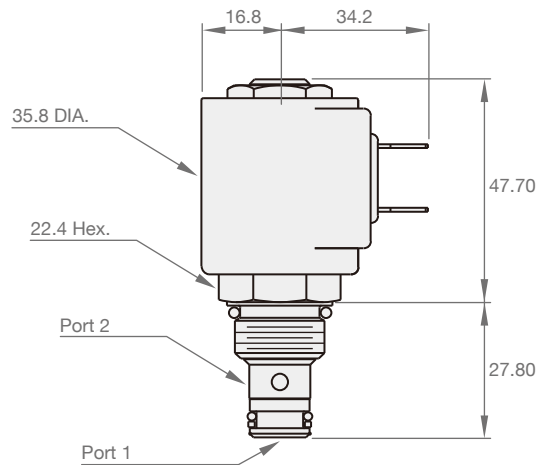
\* 32cSt / 150 ssu oil at 40°C



## DIMENSION

( UNIT : mm )

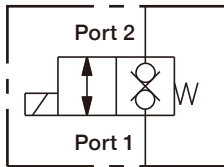
### ► SV08-26



# SV-28



## SYMBOLS



## ORDER CODES

SV **08** - **28G** **M** - **D1** - **DG** - **N**

1
2
3
4
5
6

1	Valve Size	08, 38, 10, 12	
2	Model Name	28G, 28	
3	Control Manner	none	without manual override
		M	manual override *
4	Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

\* Only for SV08-28GM

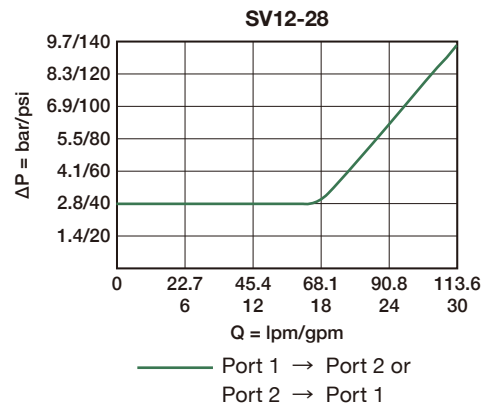
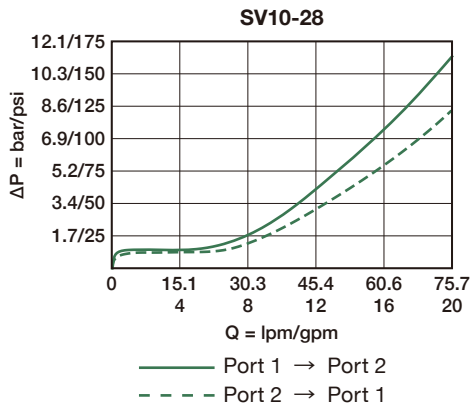
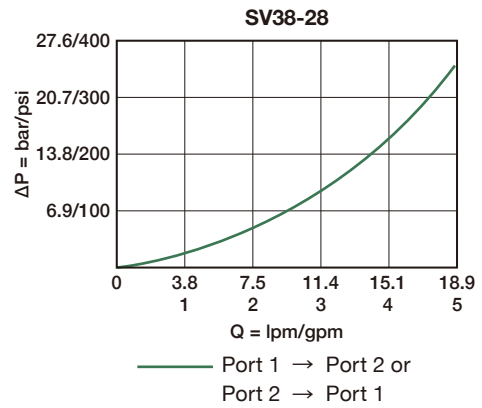
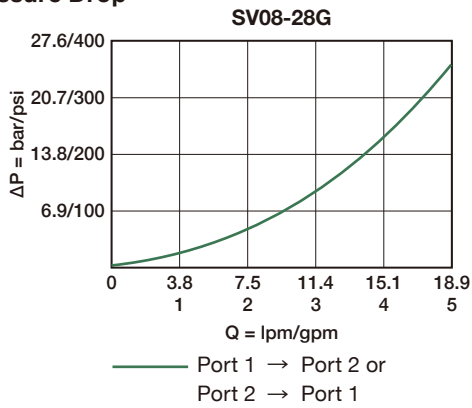
## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-28G	SAE-08-2	19	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.30
SV08-28GM	SAE-08-2	19		27.1		0.43
SV38-28	SAE-08-2	19		27.1		0.48
SV10-28	SAE-10-2	38		33.9		0.48
SV12-28	SAE-12-2	76		47.4		0.55

\* SV38-28 : direct acting, SV08-28G : pilot.

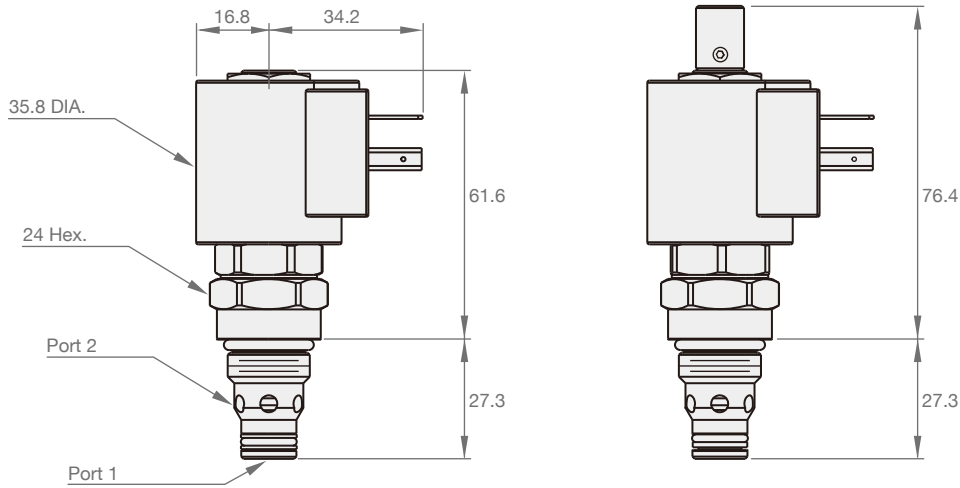
## PERFORMANCE CURVES

### Typical Pressure Drop

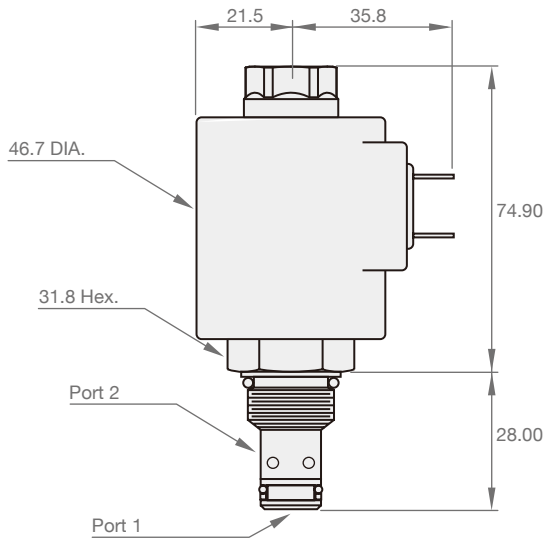


\* 32cSt / 150 ssu oil at 40°C

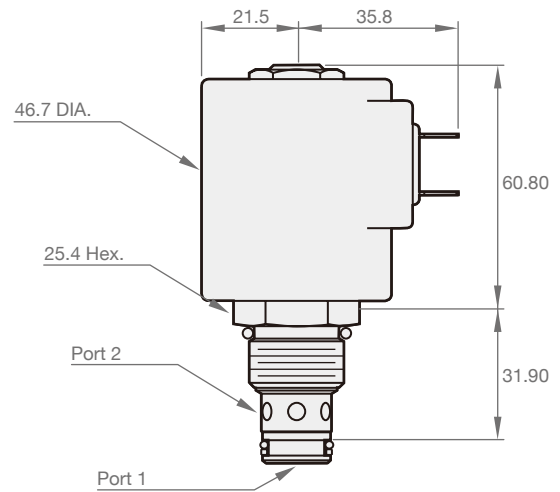
► SV08-28G, SV08-28GM



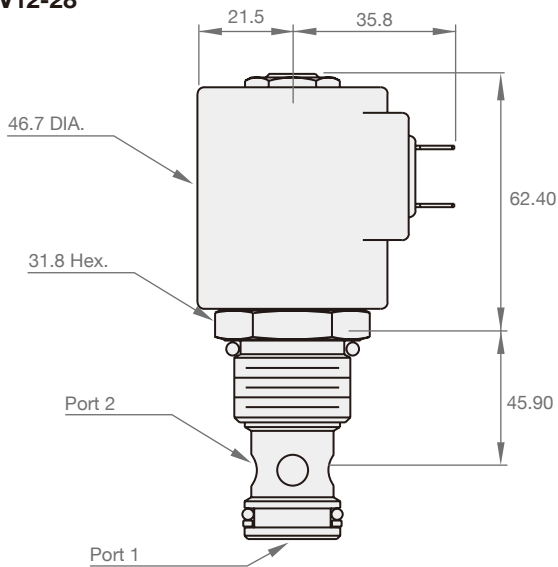
► SV38-28

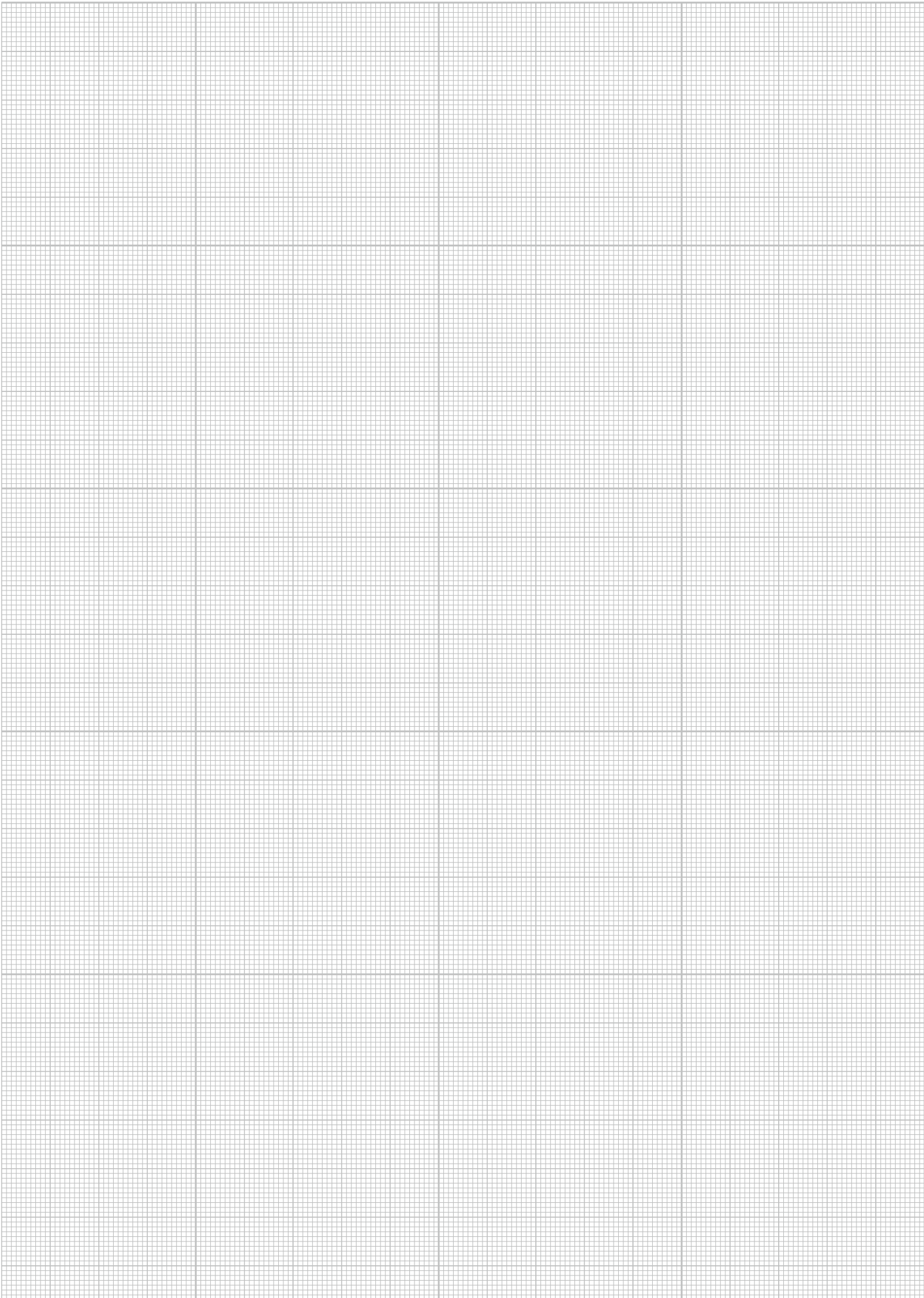


► SV10-28



► SV12-28

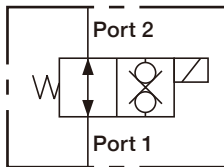




# SV-29



## SYMBOLS



## ORDER CODES

SV **12** - **29** **M** - **D2** - **DG** - **N**

1
2
3
4
5
6

1	▶ Valve Size	10, 12	
2	▶ Model Name	29	
3	▶ Control Manner	none	without manual override
		M	manual override
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

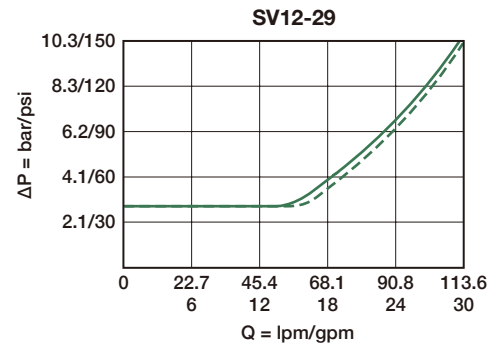
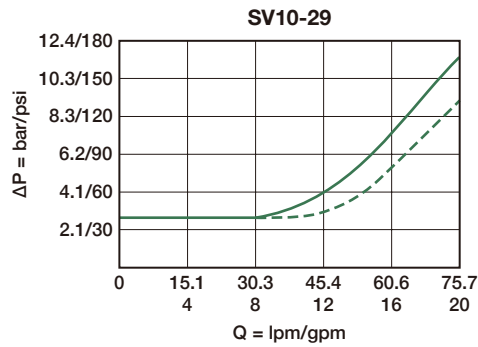
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV10-29	SAE-10-2	75.7	240	33.9	-35 ~ 100°C (-31 ~ 212°F)	0.48
SV10-29M	SAE-10-2	75.7		33.9		0.48
SV12-29	SAE-12-3	113.6		47.4		0.56
SV12-29M	SAE-12-3	113.6		47.4		0.56

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- Port 1 → Port 2
- - - Port 2 → Port 1

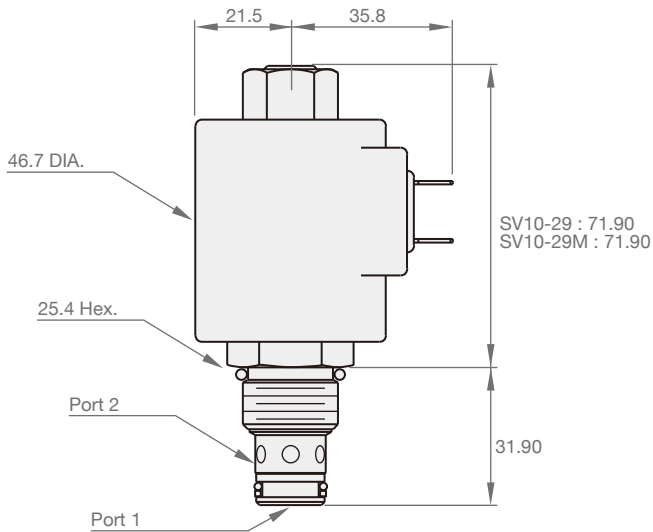
\* 32cSt / 150 ssu oil at 40°C



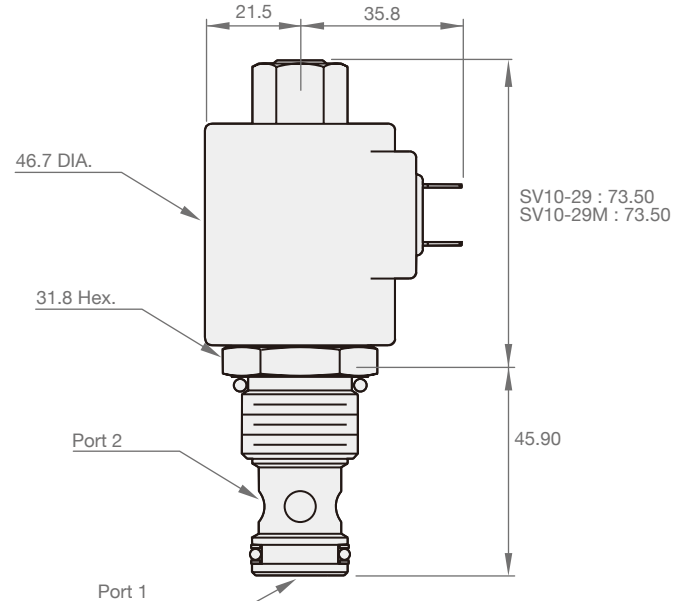
## DIMENSION

( UNIT : mm )

### ► SV10-29



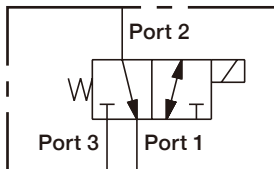
### ► SV12-29



# SV-30



## SYMBOLS



## ORDER CODES

SV **08** - **30** - **D1** - **DR** - **N**

1
2
3
4
5

1	▶ Valve Size	08	
2	▶ Model Name	30	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

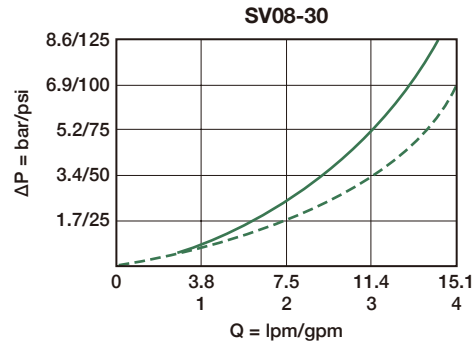
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-30	SAE-08-3	15	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized,  
Port 2 → Port 1
- energized,  
Port 3 → Port 2

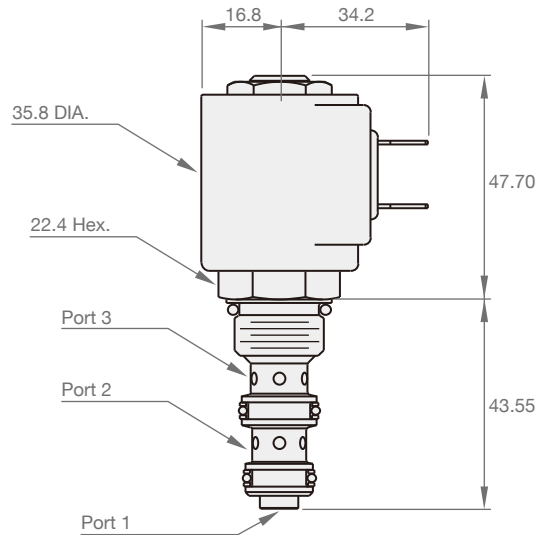
\* 32cSt / 150 ssu oil at 40°C



## DIMENSION

( UNIT : mm )

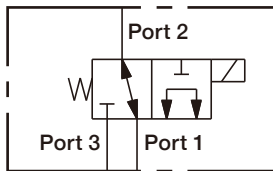
### ► SV08-30



# SV-31



## SYMBOLS



## ORDER CODES

SV **10** - **31** - **A2** - **DL** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	31	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

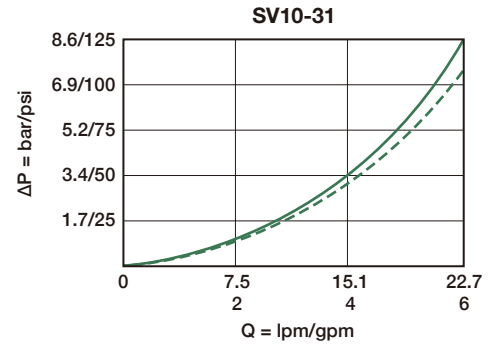
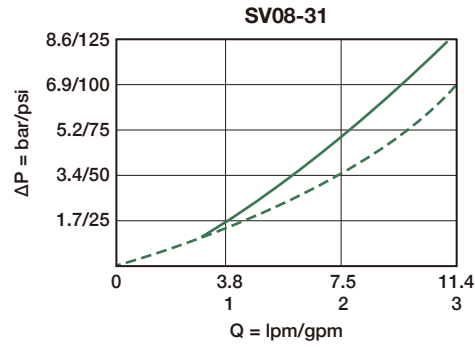
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-31	SAE-08-3	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26
SV10-31	SAE-10-3	22		33.9		0.48

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized,  
Port 2 → Port 1
- energized,  
Port 1 → Port 3

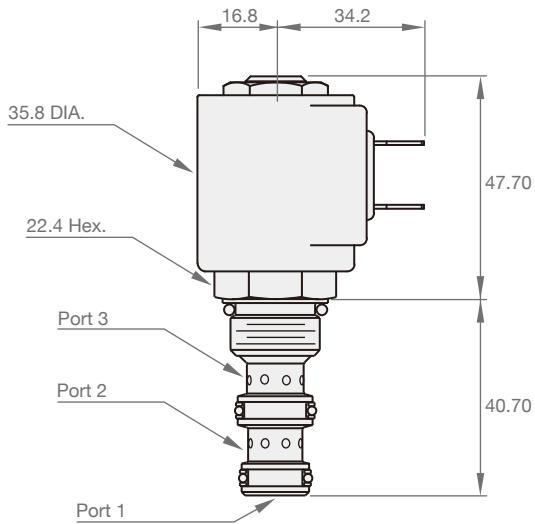
\* 32cSt / 150 ssu oil at 40°C



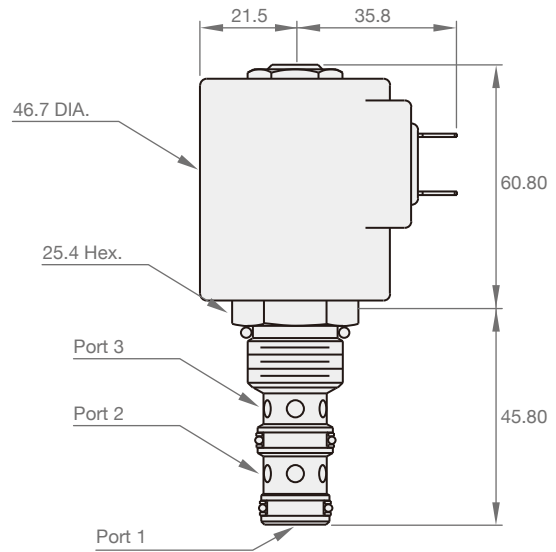
## DIMENSION

( UNIT : mm )

### ► SV08-31



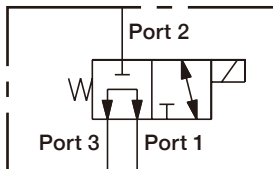
### ► SV10-31



# SV-33



## SYMBOLS



## ORDER CODES

SV **08** - **33** - **D1** - **DG** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	33	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

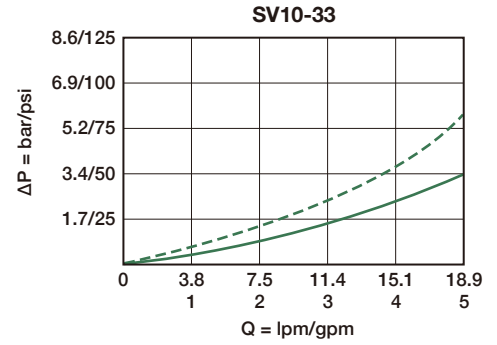
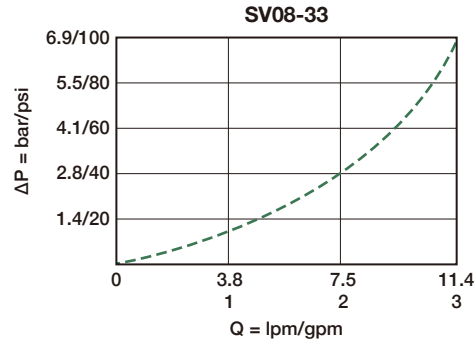
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-33	SAE-08-3	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26
SV10-33	SAE-10-3	19		33.9		0.47

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized, Port 3 → Port 1
- energized, Port 1 → Port 2

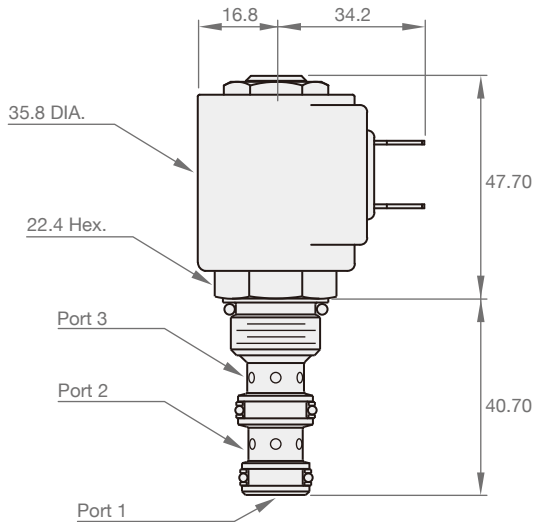
\* 32cSt / 150 ssu oil at 40°C



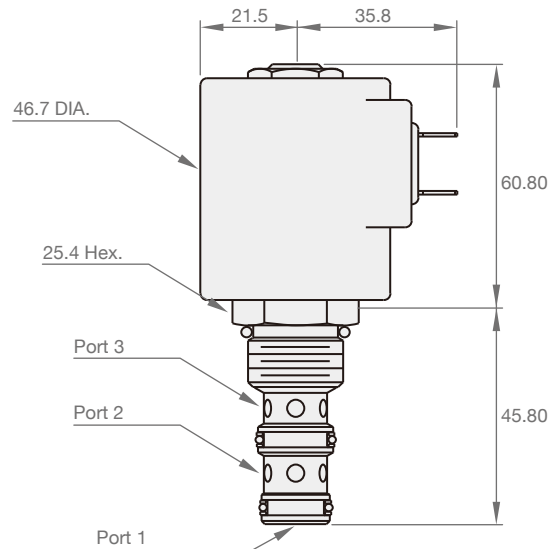
## DIMENSION

( UNIT : mm )

### ► SV08-33



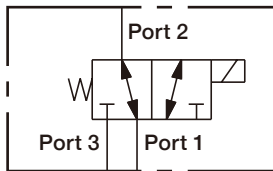
### ► SV10-33



# SV-34



## SYMBOLS



## ORDER CODES

SV **10** - **34** - **D2** - **DR** - **N**

1
2
3
4
5

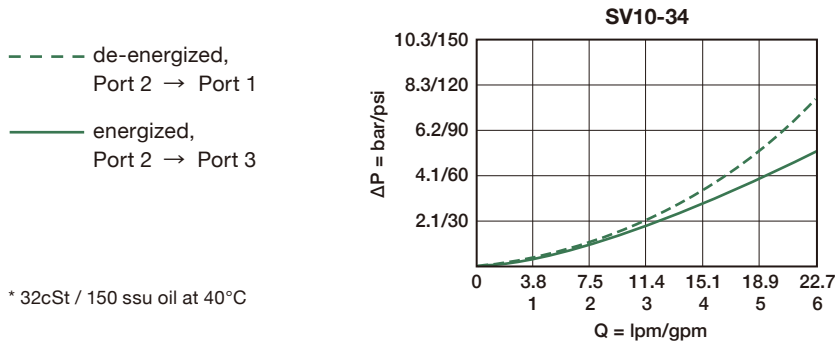
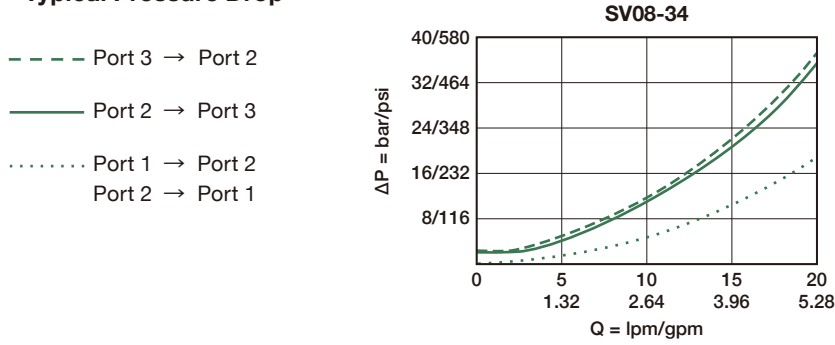
1	▶ Valve Size	08, 10	
2	▶ Model Name	34	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-34	SAE-08-3	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26
SV10-34	SAE-10-3	23		33.9		0.48

## PERFORMANCE CURVES

### ► Typical Pressure Drop

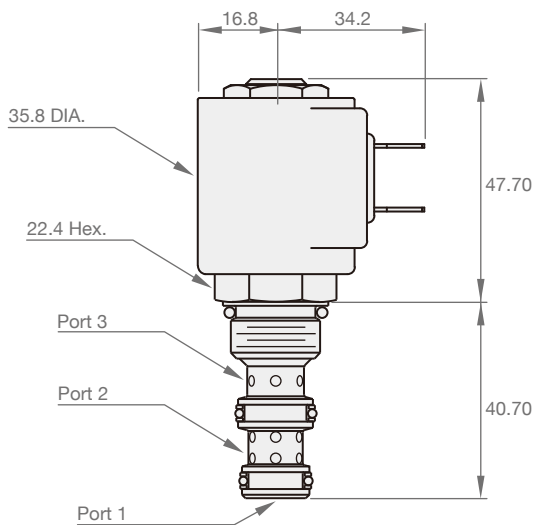


\* 32cSt / 150 ssu oil at 40°C

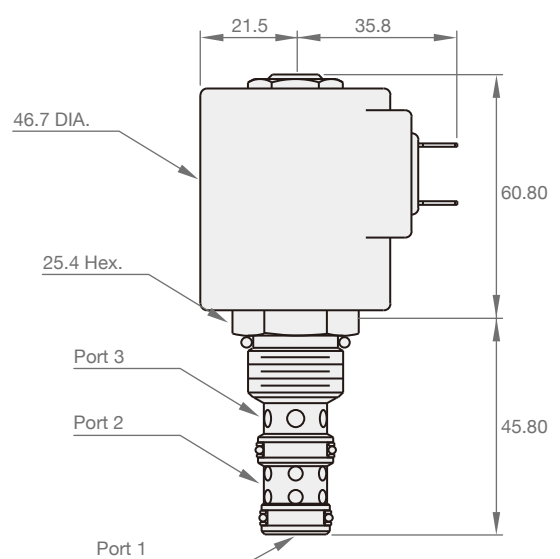
## DIMENSION

( UNIT : mm )

### ► SV08-34



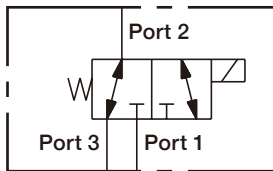
### ► SV10-34



# SV-35



## SYMBOLS



## ORDER CODES

SV **08** - **35** - **D2** - **DR** - **N**

1
2
3
4
5

1	▶ Valve Size	08	
2	▶ Model Name	35	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

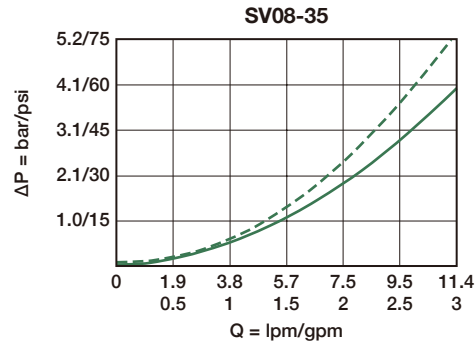
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-35	SAE-08-3	11	241	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.26

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized,  
Port 2 → Port 3
- energized,  
Port 2 → Port 1

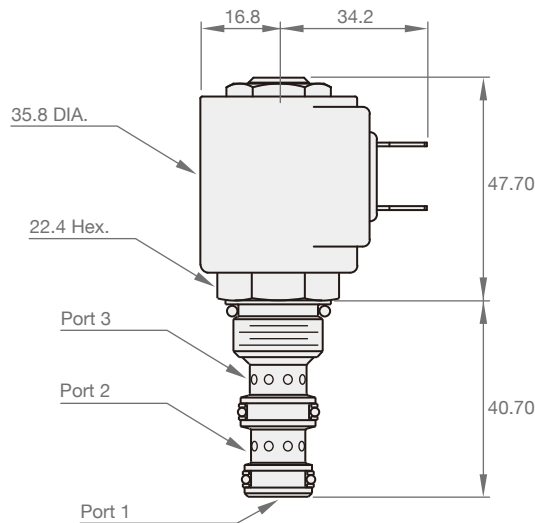
\* 32cSt / 150 ssu oil at 40°C



## DIMENSION

( UNIT : mm )

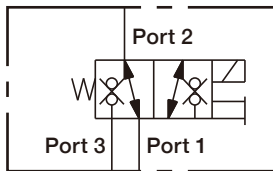
### ► SV08-35



# SV38-38



## SYMBOLS



## ORDER CODES

SV **38** - **38** - **A1** - **DR** - **N**

1
2
3
4
5

1	▶ Valve Size	38	
2	▶ Model Name	38	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

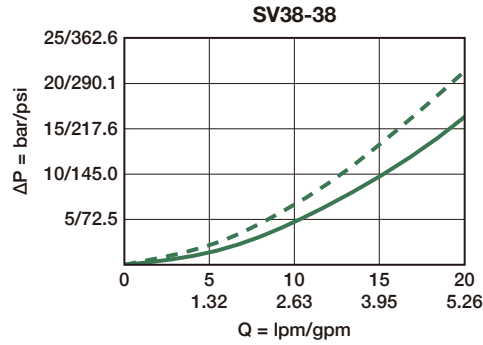
## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV38-38	SAE-08-3	11	250	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.33

## PERFORMANCE CURVES

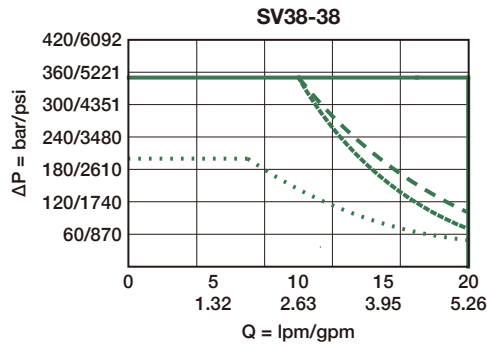
### ► Typical Pressure Drop

- Port 3 → Port 2,  
Port 2 → Port 3
- Port 1 → Port 2,  
Port 2 → Port 1



### ► Performance Range

- Port 2 → Port 1
- Port 3 → Port 2
- ..... Port 1 → Port 2
- ..... Port 2 → Port 3

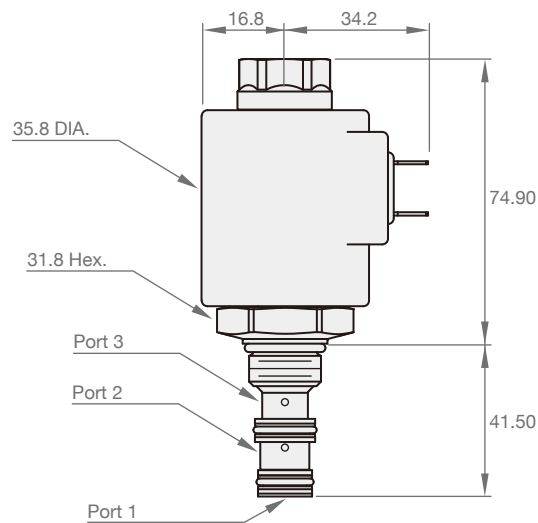


\* 32cSt / 150 ssu oil at 40°C

## DIMENSION

( UNIT : mm )

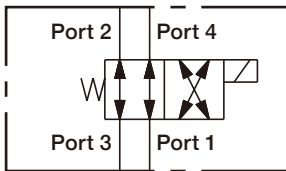
### ► SV38-38



# SV-40



## SYMBOLS



## ORDER CODES

SV **08** - **40** - **A1** - **DL** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	40	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

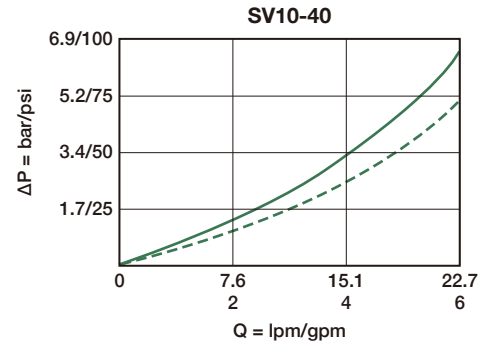
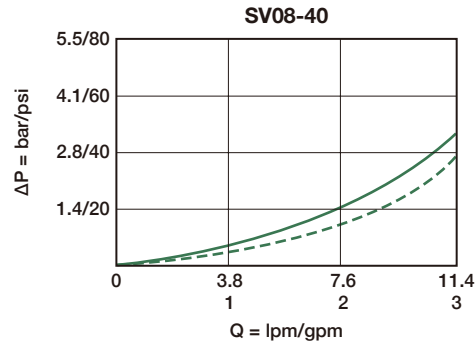
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-40	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.248
SV10-40	SAE-10-4	22		33.9		0.33

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- de-energized,  
Port 4 → Port 1
- Port 3 → Port 2

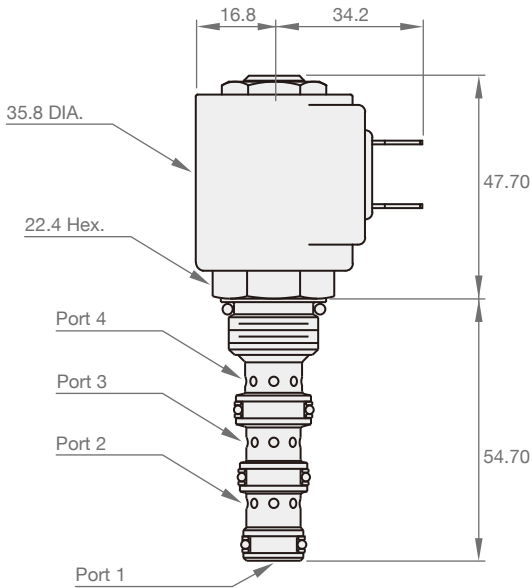
\* 32cSt / 150 ssu oil at 40°C



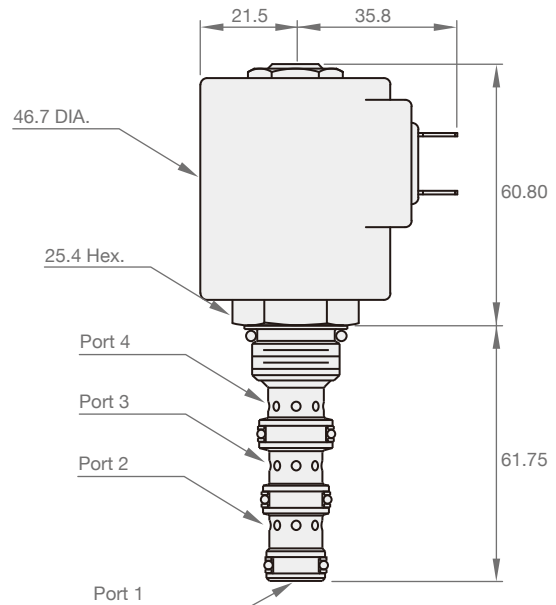
## DIMENSION

( UNIT : mm )

### ► SV08-40



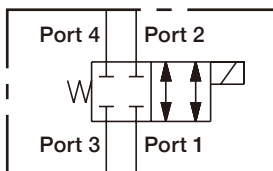
### ► SV10-40



# SV-41



## SYMBOLS



## ORDER CODES

SV **08** - **41** - **D1** - **DG** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	41	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

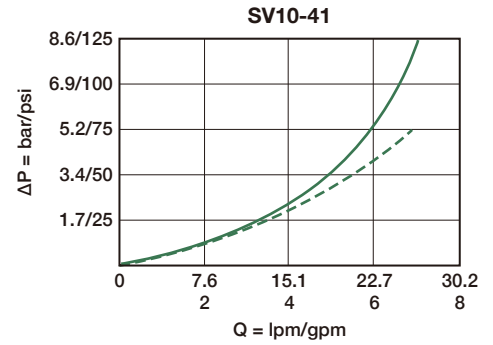
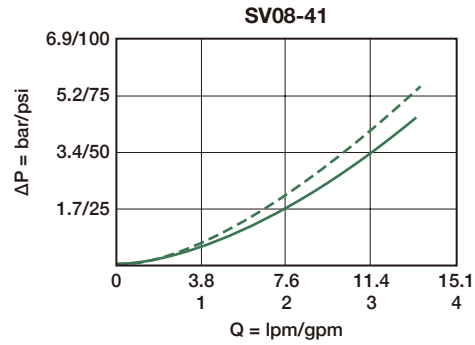
Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-41	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.248
SV10-41	SAE-10-4	22		33.9		0.33

## PERFORMANCE CURVES

### ► Typical Pressure Drop

- Port 2 → Port 1
- Port 3 → Port 4

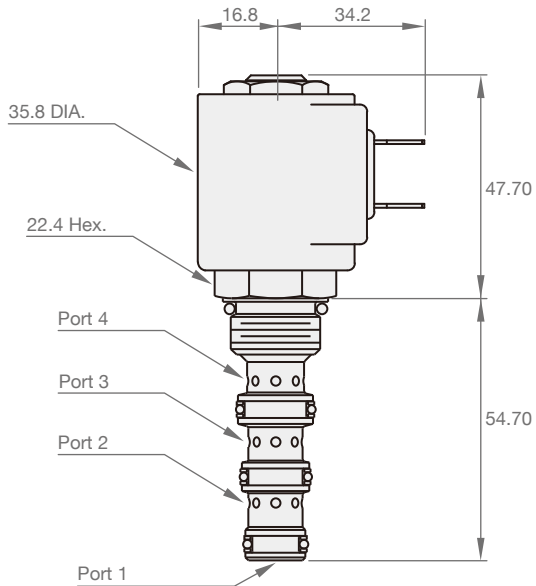
\* 32cSt / 150 ssu oil at 40°C



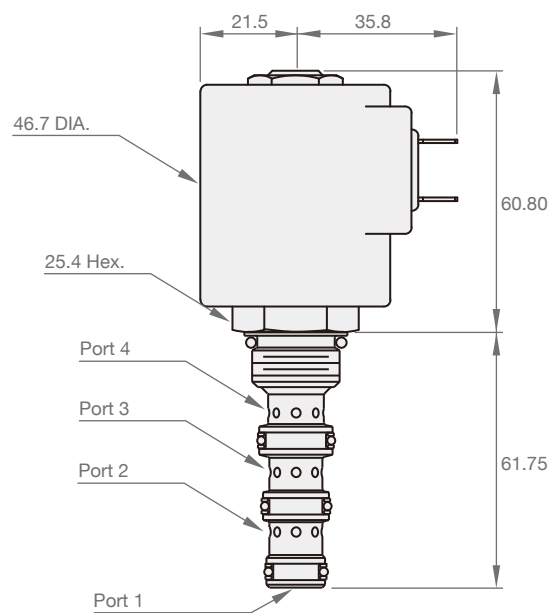
## DIMENSION

( UNIT : mm )

### ► SV08-41



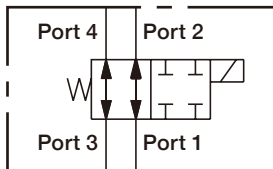
### ► SV10-41



# SV-42



## SYMBOLS



## ORDER CODES

SV **08** - **42** - **D2** - **DG** - **N**

1
2
3
4
5

1	▶ Valve Size	08, 10	
2	▶ Model Name	42	
3	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
4	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
5	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)
SV08-42	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.248
SV10-42	SAE-10-4	22		33.9		0.33

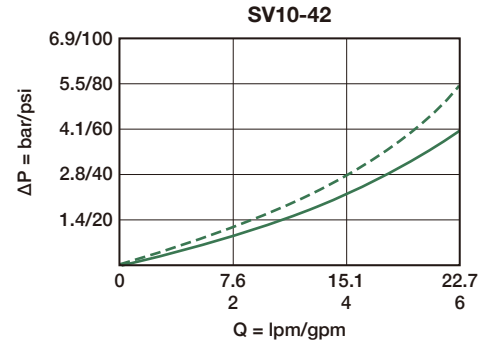
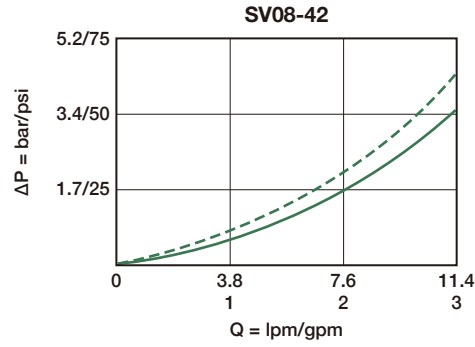
## PERFORMANCE CURVES

### ► Typical Pressure Drop

--- Port 2 → Port 1

— Port 3 → Port 4

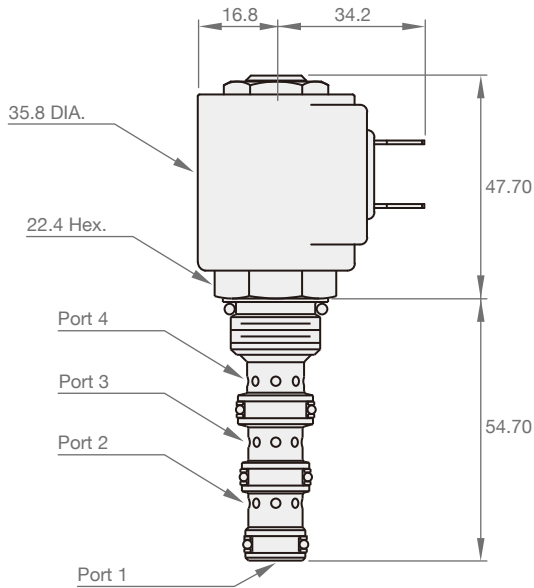
\* 32cSt / 150 ssu oil at 40°C



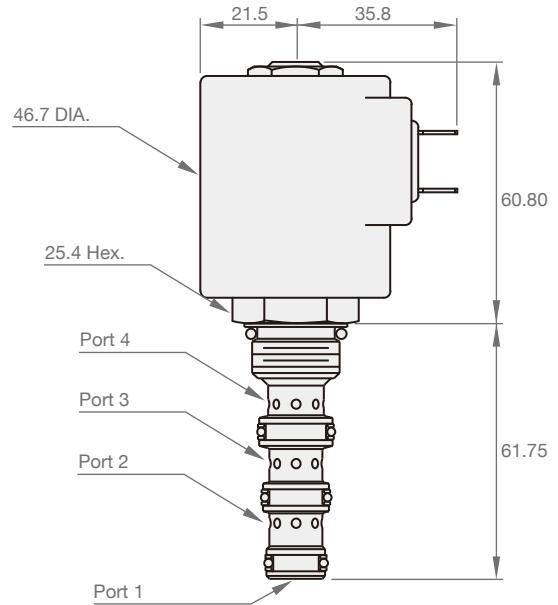
## DIMENSION

( UNIT : mm )

### ► SV08-42



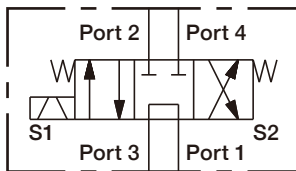
### ► SV10-42



# SV-47A



## SYMBOLS



## ORDER CODES

SV **08** - **47A** **M** - **A1** - **DG** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10	
2	▶ Model Name	47A	
3	▶ Control Manner	none	without manual override
		M	manual override *
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

\* Only for SV08-47AM

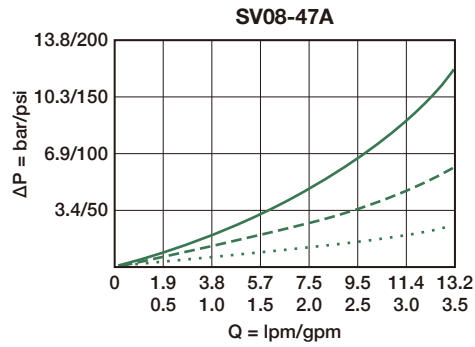
## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)	
						none	M
SV08-47A	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.43	0.45
SV10-47A	SAE-10-4	14		33.9		1.45	-

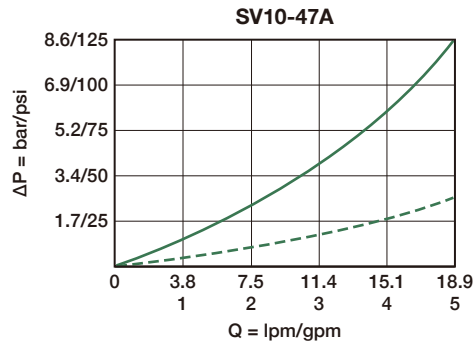
## PERFORMANCE CURVES

### ► Typical Pressure Drop

- Port 3 → Port 2 or 4
- - - Port 2 or 4 → Port 1
- ..... Port 3 → Port 1
- \* 32cSt / 150 ssu oil at 40°C



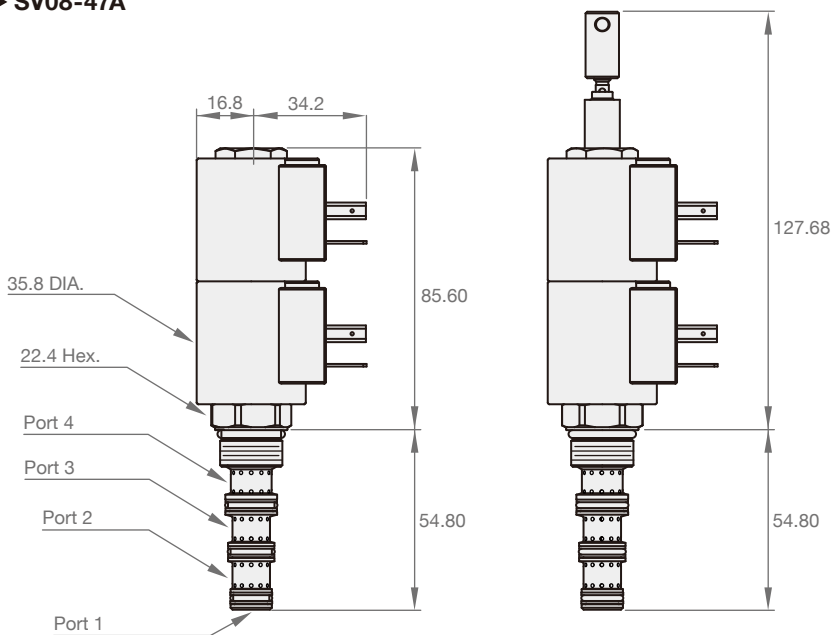
- loop
- Port 3 → Port 2
- Port 4 → Port 1
- ..... neutral
- Port 3 → Port 1
- \* 32cSt / 150 ssu oil at 40°C



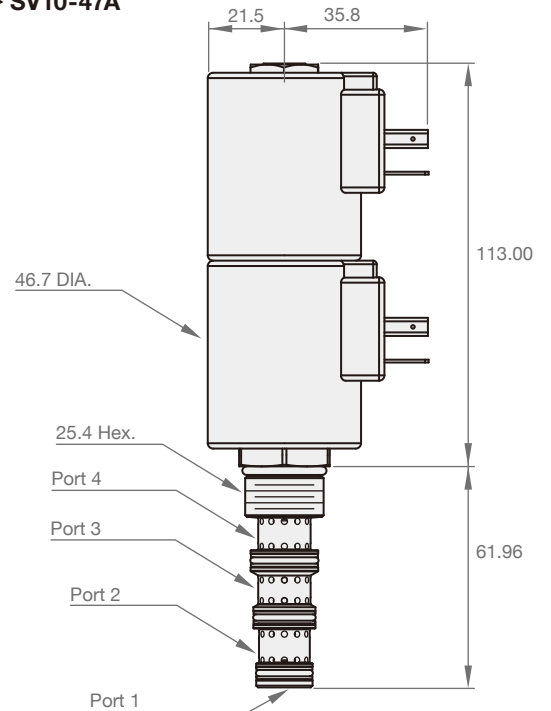
## DIMENSION

( UNIT : mm )

### ► SV08-47A



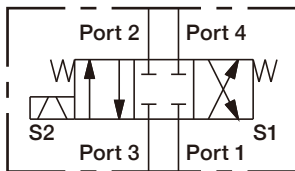
### ► SV10-47A



# SV-47C



## SYMBOLS



## ORDER CODES

SV **08** - **47C** **M** - **D1** - **DL** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10	
2	▶ Model Name	47C	
3	▶ Control Manner	none	without manual override
		M	manual override *
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

\* Only for SV08-47CM

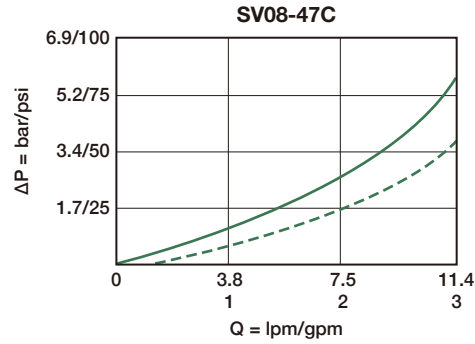
## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)	
						none	M
SV08-47C	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.43	0.45
SV10-47C	SAE-10-4	22		33.9		1.45	-

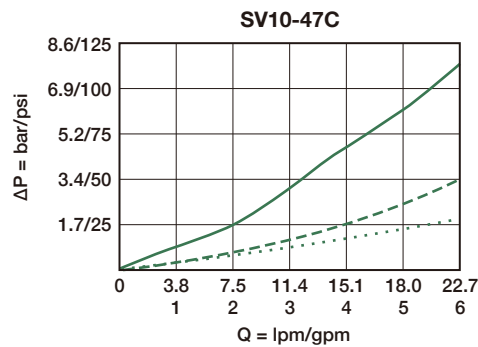
## PERFORMANCE CURVES

### ► Typical Pressure Drop

- Port 3 → Port 2 or 4
- - - Port 2 or 4 → Port 1



- Port 3 → Port 2 or 4
- - - Port 4 → Port 1
- ..... Port 2 → Port 1

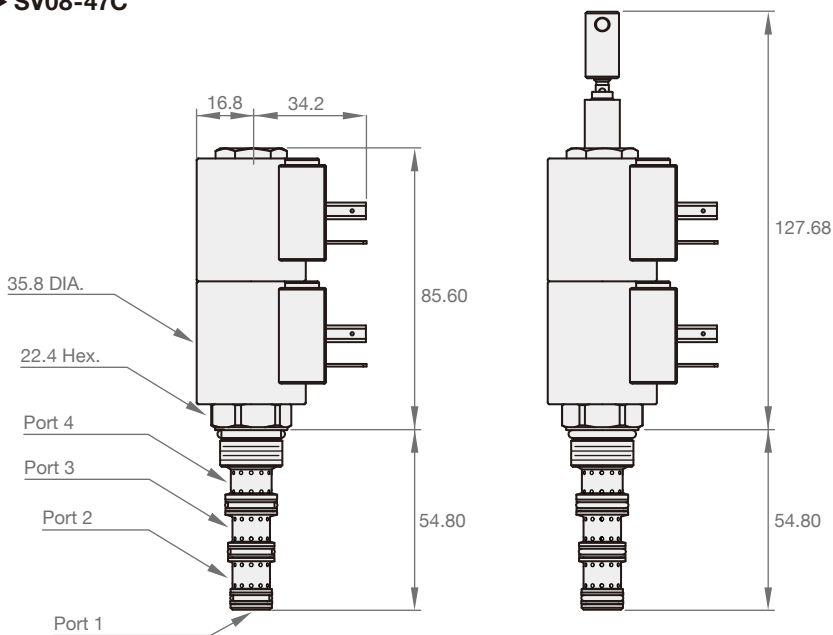


\* 32cSt / 150 ssu oil at 40°C

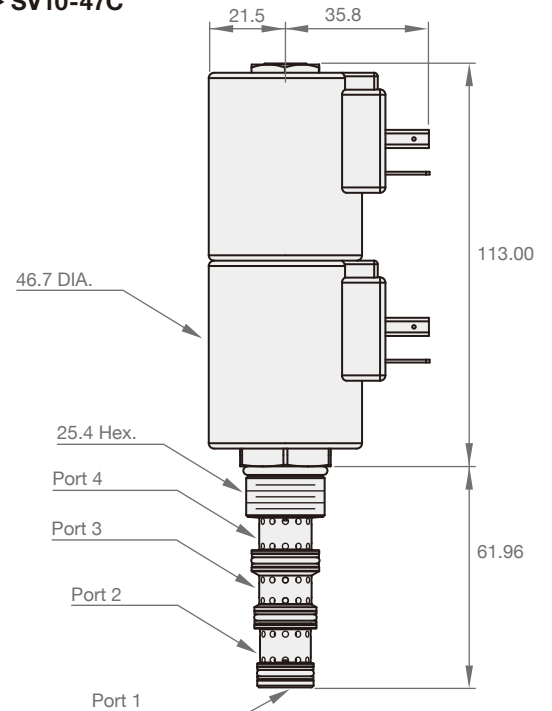
## DIMENSION

( UNIT : mm )

### ► SV08-47C



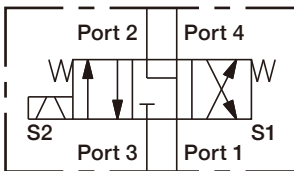
### ► SV10-47C



# SV-47D



## SYMBOLS



## ORDER CODES

SV **08** - **47D** **M** - **A2** - **DL** - **N**

1
2
3
4
5
6

1	▶ Valve Size	08, 10	
2	▶ Model Name	47D	
3	▶ Control Manner	none	without manual override
		M	manual override *
4	▶ Voltage (coil)	A1	115 VAC
		A2	230 VAC
		D1	12 VDC
		D2	24 VDC
5	▶ Connector (coil)	DG	DIN connector type
		DL	wiring type
		DR	Deutsch DT04-2P
6	▶ Material of Seal	N	buna-N
		V	viton
		E	EPDM
		H	HNBR
		U	polyurethane

\* Only for SV08-47DM

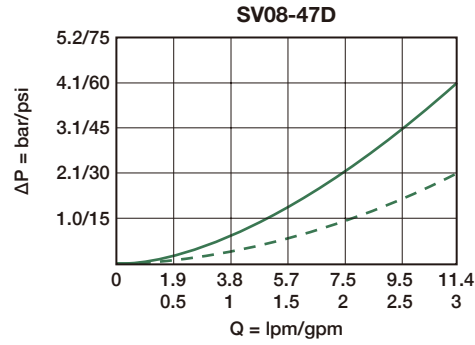
## MODEL SPEC.

Model	Cavity	Capacity (l/min)	Max. Pressure (bar)	Installation Torque (Nm)	Operating Temperature	Weight (kg)	
						none	M
SV08-47D	SAE-08-4	11	255	27.1	-35 ~ 100°C (-31 ~ 212°F)	0.43	0.45
SV10-47D	SAE-10-4	22		33.9		1.45	-

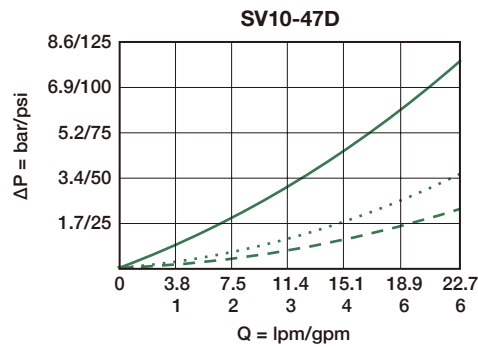
## PERFORMANCE CURVES

### ► Typical Pressure Drop

- Port 3 → Port 2
- Port 3 → Port 4
- Port 4 → Port 1
- - - Port 2 or 4 → Port 1



- Port 3 → Port 2 or 4
- ..... Port 4 → Port 1
- - - Port 2 → Port 1

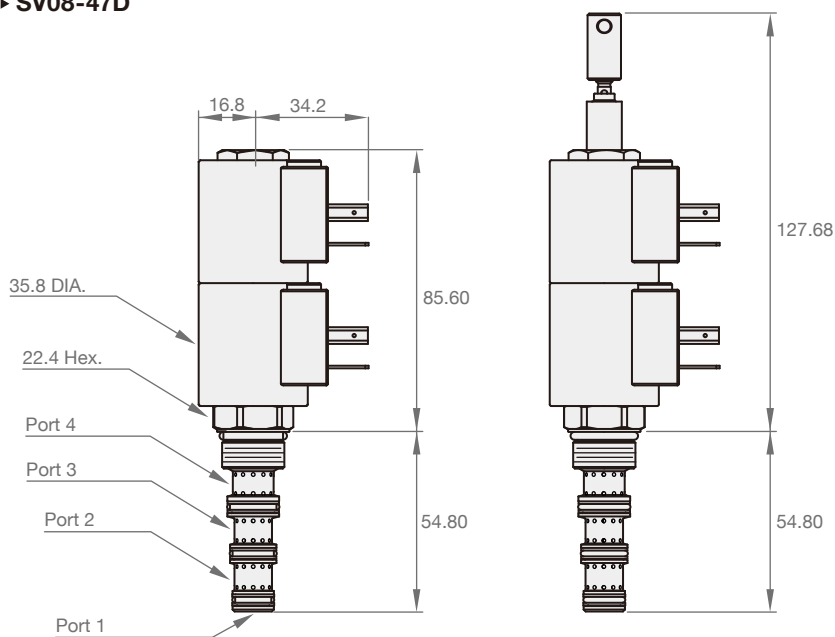


\* 32cSt / 150 ssu oil at 40°C

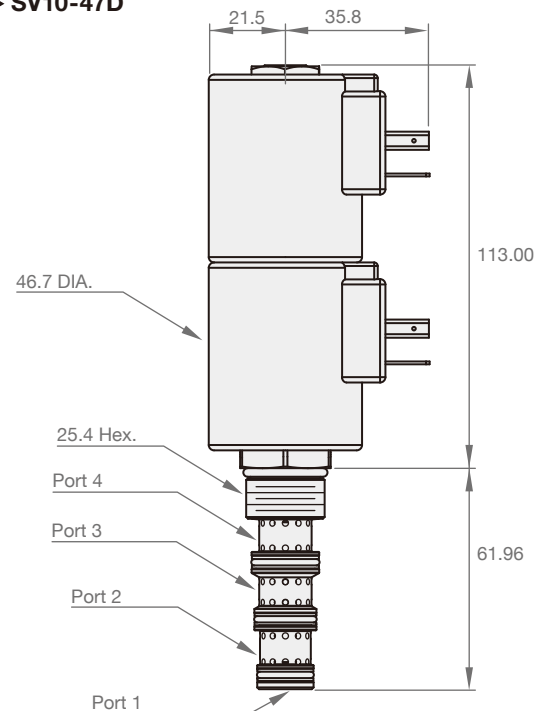
## DIMENSION

(UNIT : mm)

### ► SV08-47D



### ► SV10-47D



# Steed Machinery Co., Ltd.

No. 28, Ruiguang St., South Dist.,  
Taichung City 402006,  
Taiwan  
Tel : +886-4-2285-4867  
Fax : +886-4-2285-2848  
Email : info@steedmachinery.com.tw

more information  
[www.steedmachinery.com.tw](http://www.steedmachinery.com.tw)

