

Mechanical Valve (SMV)

SMV100 Series (Rc(PT) 1/8)



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

How to order

SMV 1 2 0 - 01 - 00

① Mechanical Valve

② Number of Port
2 - 2 Port
3 - 3 Port(include "exhaust hole")

③ Rod size
0 - Standard
1 - For Roller Lever

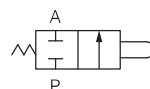
④ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)

⑤ Port size
01 - 1/8

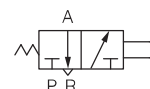
⑥ Type of Actuator
00 - Standard
01 - Roller lever
02 - One way roller lever
30 - Push button(Mushroom type)
32 - Push button(Flat type)
34 - Selector(2position)

Symbol

2 Port



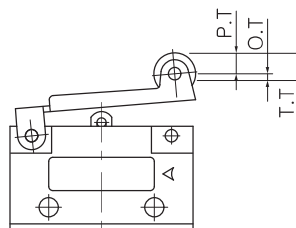
3 Port



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Effective orifice(Cv)	2.5mm ² (0.14)
Lubrication	Not required
Port size	1/8

Operating point of Mechanical valve

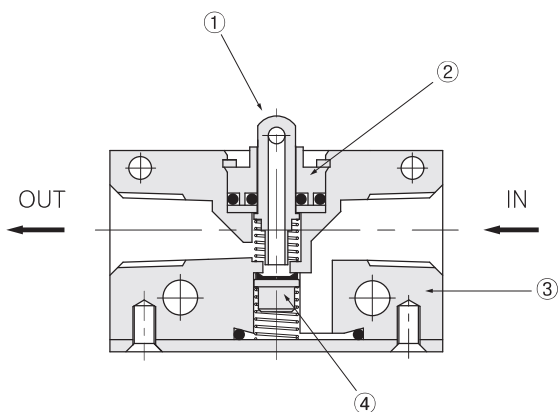


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMV100

STRUCTURE / PARTS

SMV 100



No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

DIMENSIONS (mm)

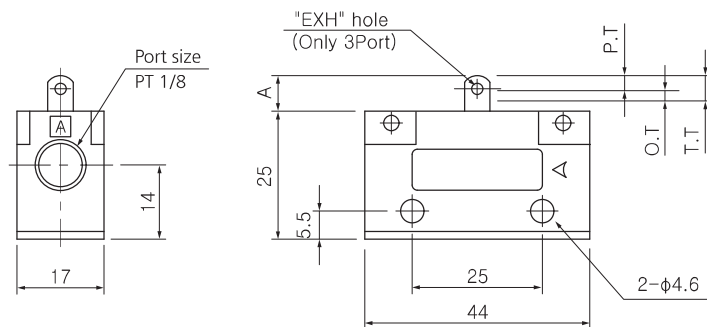
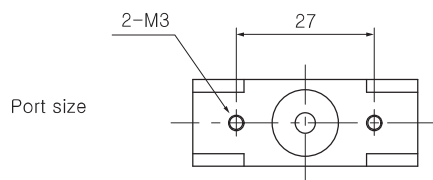
SMV 120-01-00

121-01-00

130-01-00

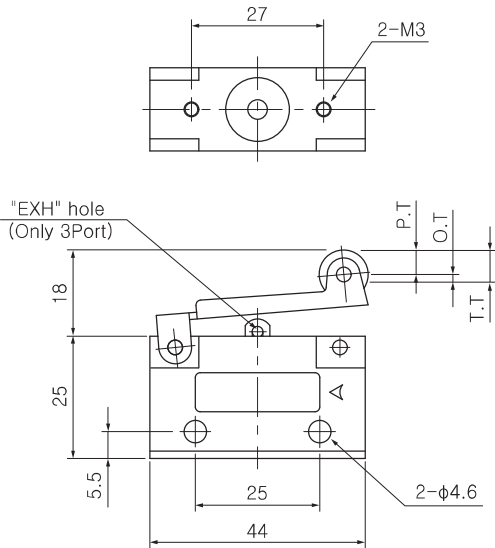
131-01-00

Model	A
SMV120	7.5
SMV130	
SMV121	5.0
SMV131	
P.T.	1.1
O.T.	3
T.T.	4.1

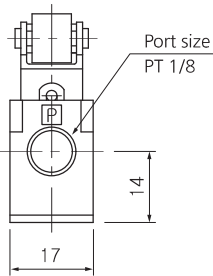


DIMENSIONS (mm)

SMV 121-01-01
131-01-01



P.T.	2.1
O.T.	4
T.T.	6.1



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

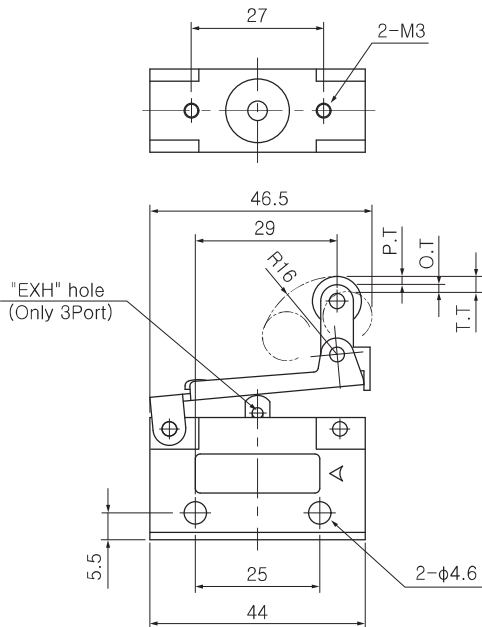
SMVF350

SFVM

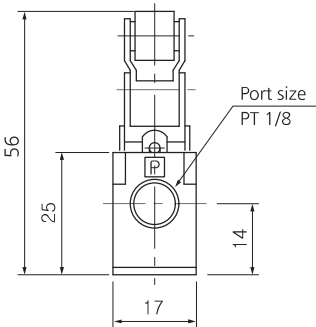
SHV

CAUTION

SMV 121-01-02
131-01-02



P.T.	2.1
O.T.	4
T.T.	6.1



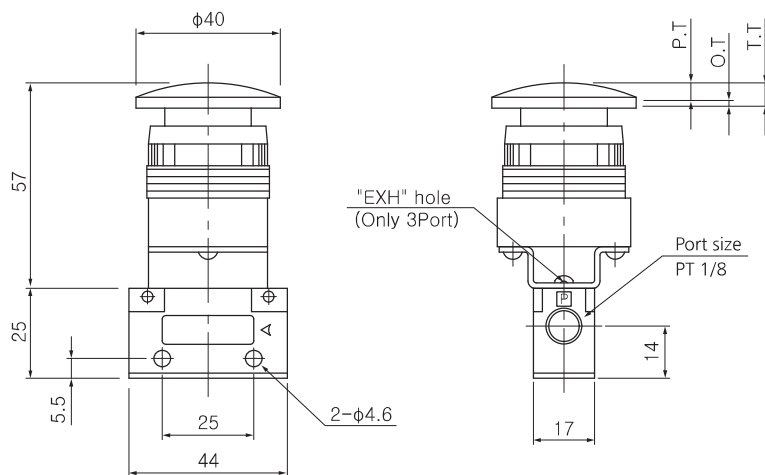
Series SMV100

DIMENSIONS (mm)

SMV 120-01-30

130-01-30

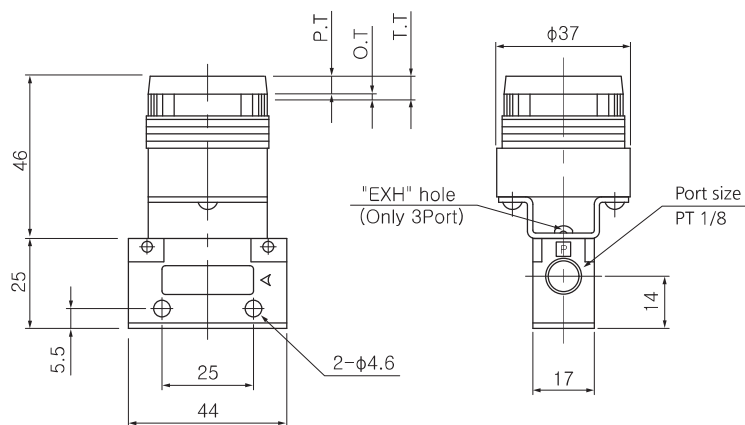
P.T.	5.4
O.T.	2.4
T.T.	7.8



SMV 120-01-32

130-01-32

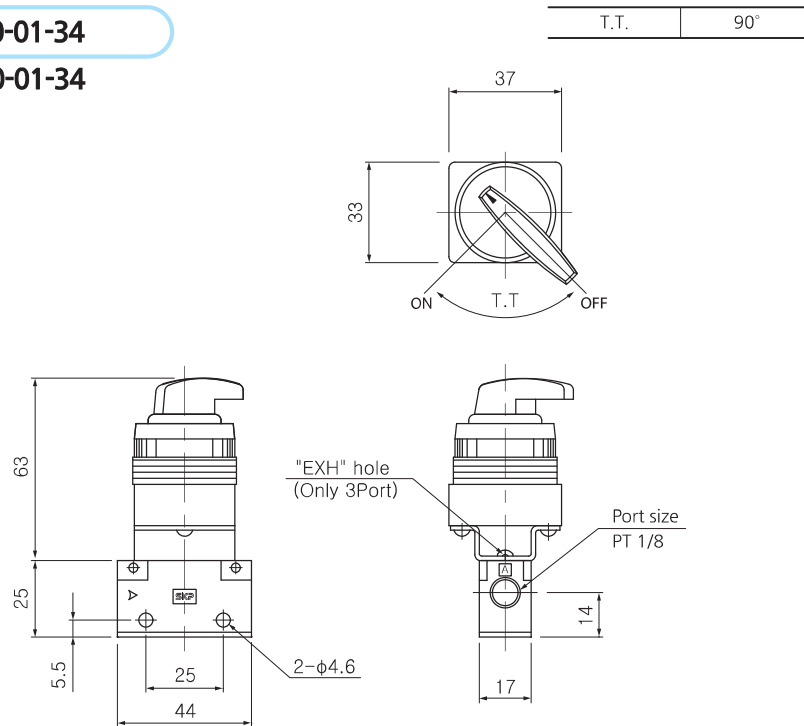
P.T.	5.4
O.T.	2.4
T.T.	7.8



DIMENSIONS (mm)

SMV 120-01-34

130-01-34



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

Mechanical Valve (SMV)

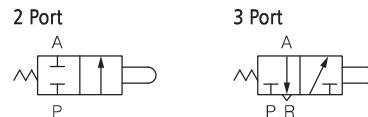
SMV200 Series (Rc(PT) 1/4)



How to order

- SMV 2 20 - 02 - 00**
- ① Mechanical Valve
 - ② Number of Port
 - 20 - 2 Port
 - 30 - 3 Port(include "exhaust hole")
 - ③ Thread type
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ④ Port size
 - 02 - 1/4
 - ⑤ Type of Actuator
 - 00 - Standard
 - 01S - Roller lever(Bearing type)
 - 02S - One way roller lever(Bearing type)
 - 30 - Push button(Mushroom type)
 - 31 - Push button(ENG type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

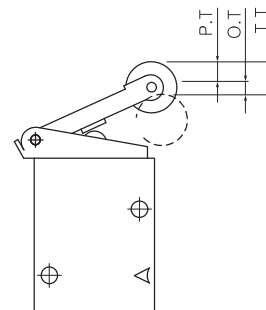
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

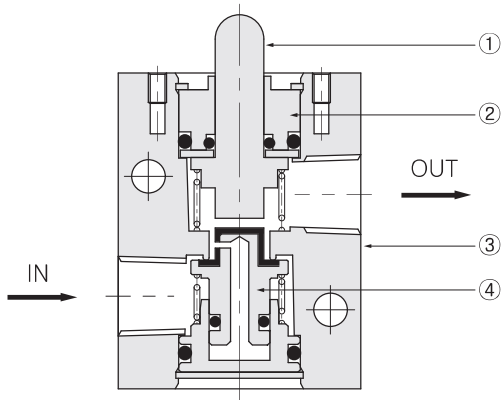
Operating point of Mechanical valve



P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

STRUCTURE / PARTS

SMV 200



No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

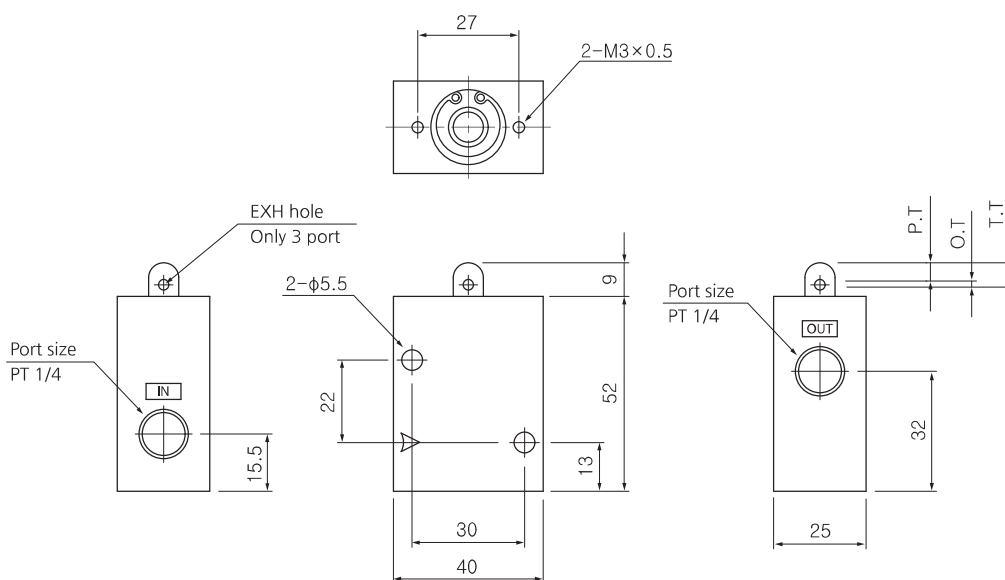
CAUTION

DIMENSIONS (mm)

SMV 220-02-00

230-02-00

P.T.	2.7
O.T.	3
T.T.	5.7



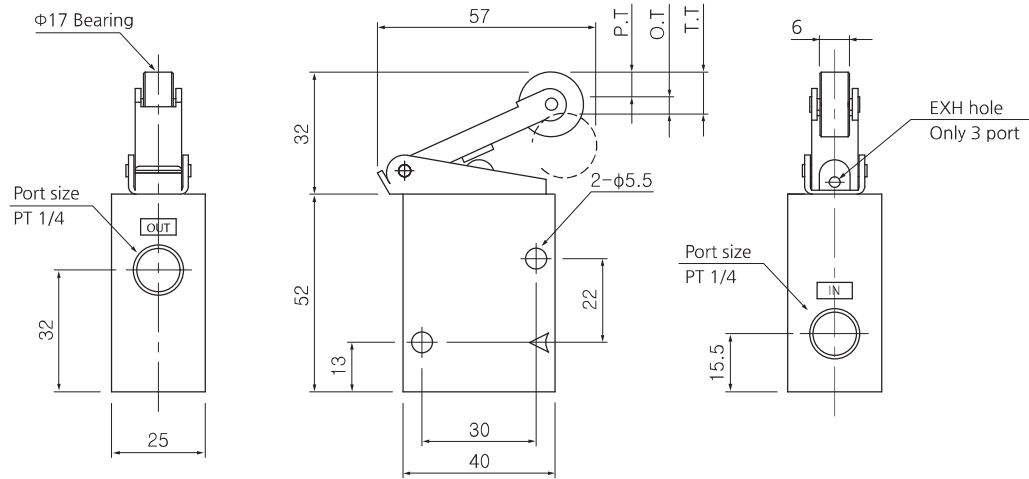
Series SMV200

DIMENSIONS (mm)

SMV 220-02-01S

230-02-01S

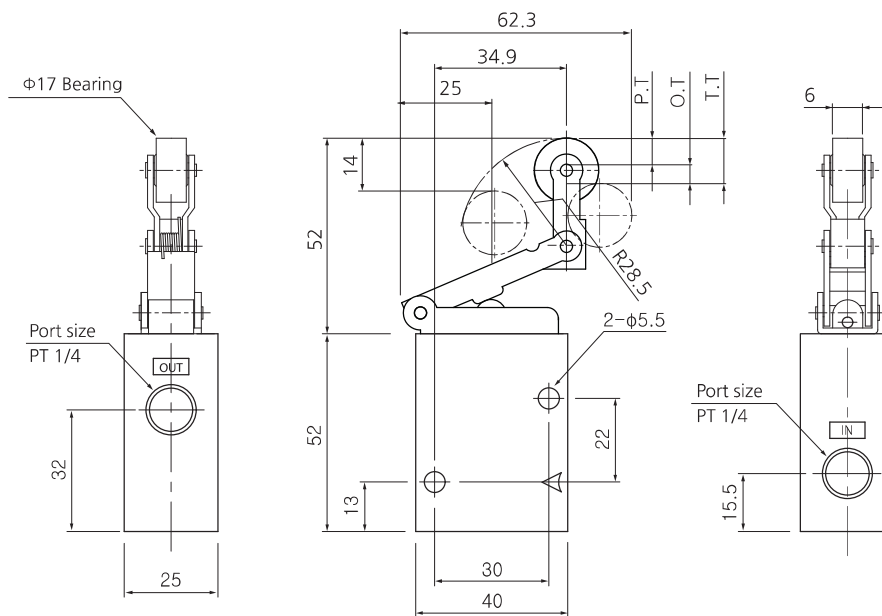
P.T.	5.8
O.T.	6.6
T.T.	12.4



SMV 220-02-02S

230-02-02S

P.T.	5.8
O.T.	6.6
T.T.	12.4

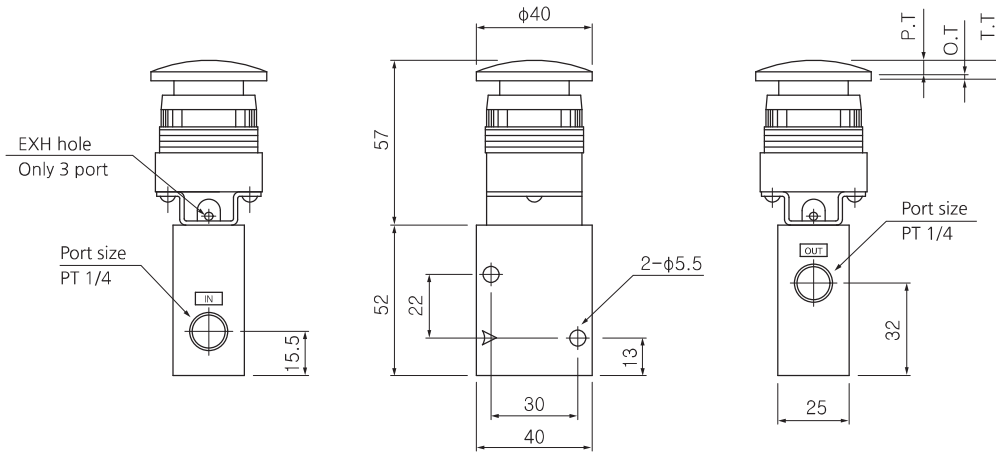


DIMENSIONS (mm)

SMV 220-02-30

230-02-30

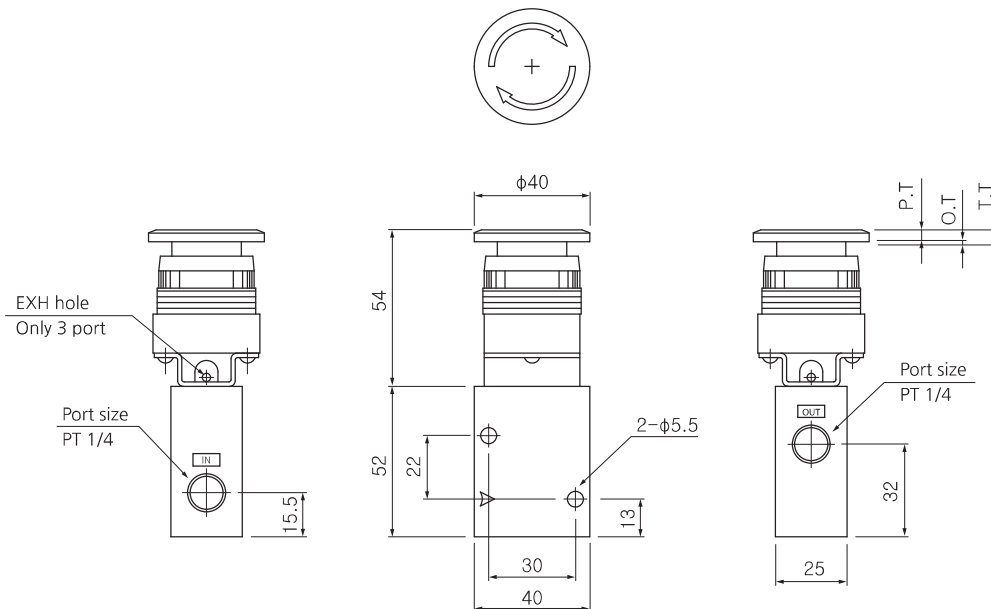
P.T.	4.7
O.T.	2.8
T.T.	7.5



SMV 220-02-31

230-02-31

T.T.	4.3
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SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

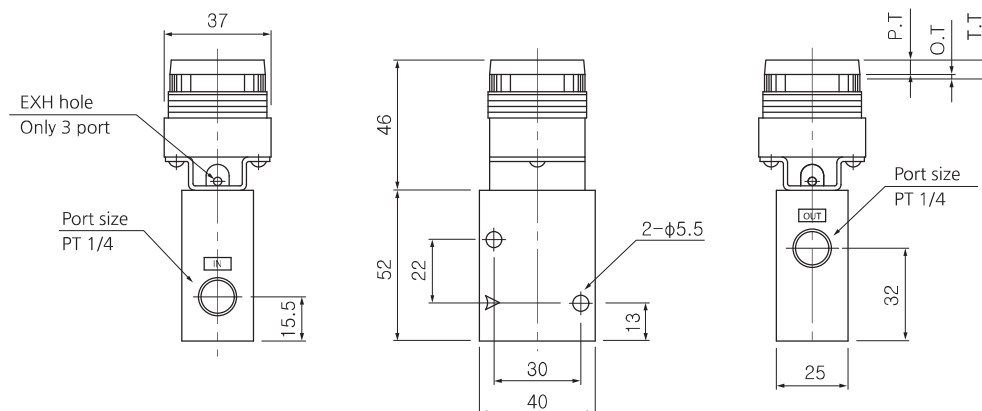
Series SMV200

DIMENSIONS (mm)

SMV 220-02-32

230-02-32

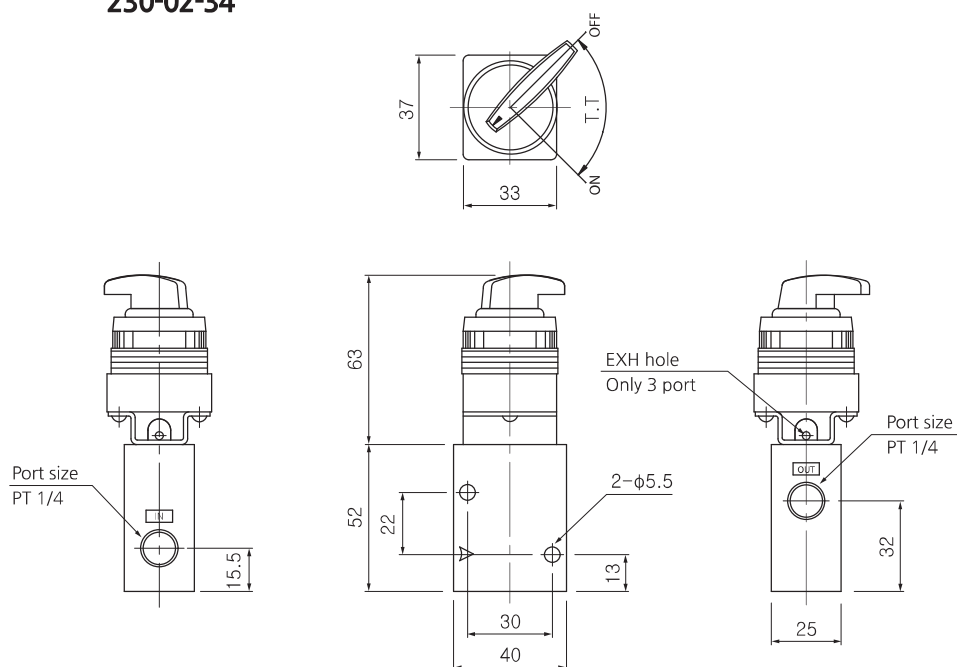
P.T.	4.7
O.T.	2.8
T.T.	7.5



SMV 220-02-34

230-02-34

T.T.	90°
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Spool type Mechanical Valve (SMVS)

SMVS230 Series (Rc(PT) 1/4)



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

How to order

SMVS 2 3 0 - 02 - 00

① Spool type
Mechanical Valve

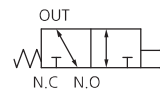
② Number of Port
3 - 3 Port

③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)

④ Port size
01 - 1/4

⑤ Type of Actuator
00 - Standard
01S - Roller lever(Bearing type)
02S - One way roller lever(Bearing type)
30 - Push button(Mushroom type)
31 - Push button(ENG type)
32 - Push button(Flat type)
34 - Selector(2position)

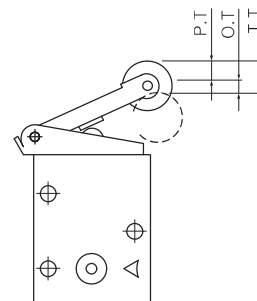
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Lubrication	Not required
Port size	1/4

Operating point of Mechanical valve

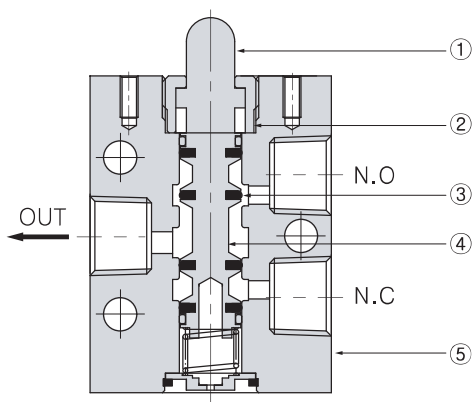


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMVS200

STRUCTURE / PARTS

SMVS 230

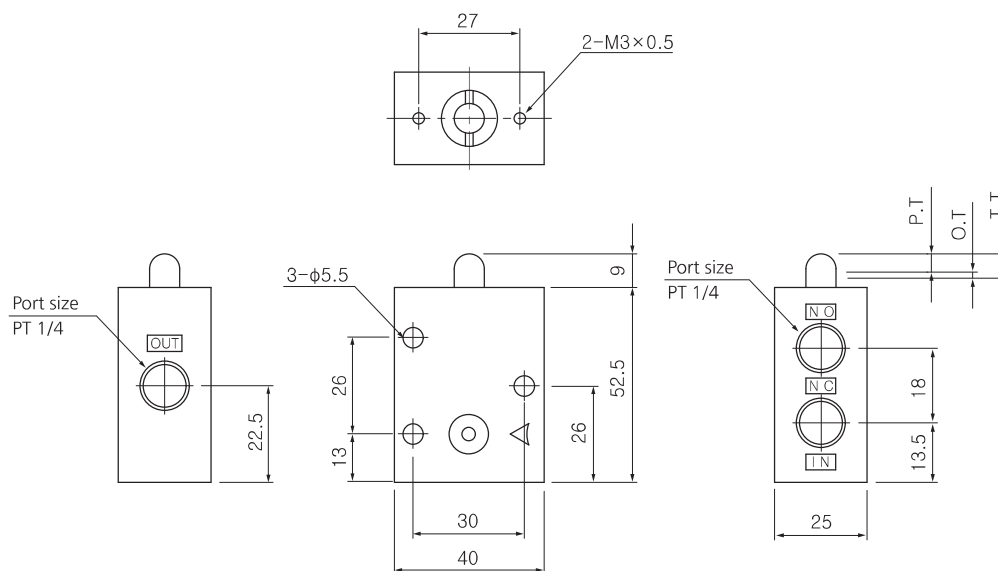


No.	PARTS	MATERIAL
①	Rod	SUS
②	Rod guide	Brass
③	I-ring	NBR
④	Spool	Al
⑤	Body	ALDC

DIMENSIONS (mm)

SMVS 230-02-00

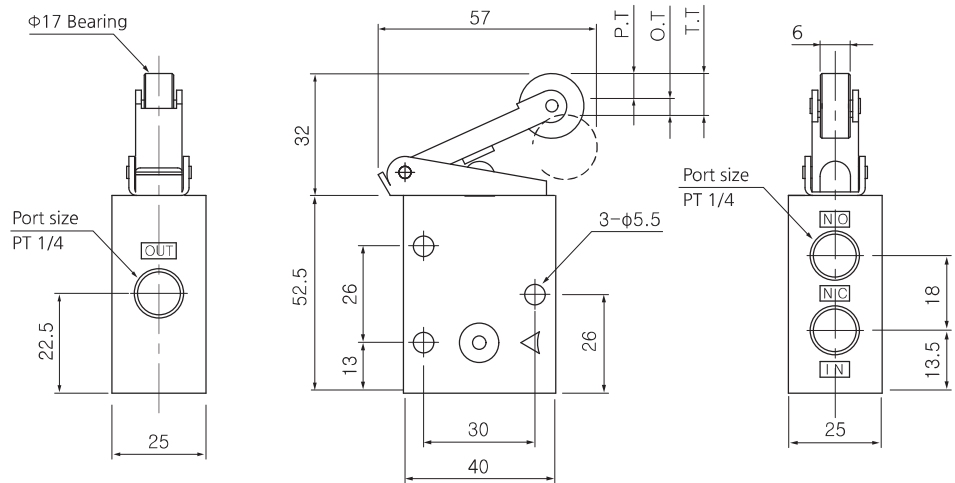
P.T.	1.8
O.T.	2.2
T.T.	4



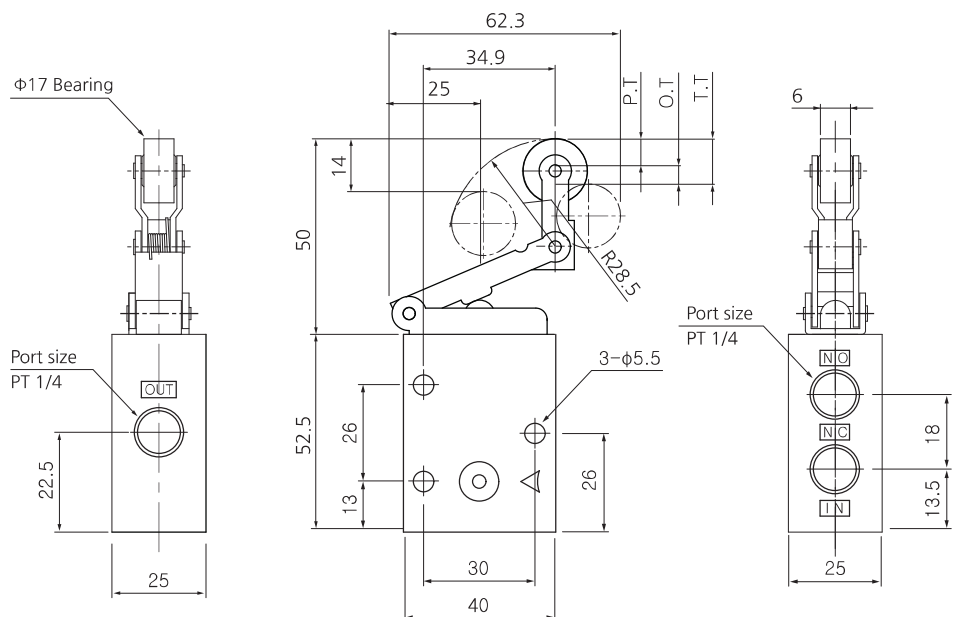
Spool type Mechanical Valve

DIMENSIONS (mm)

SMVS 230-02-01S



SMVS 230-02-02S



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

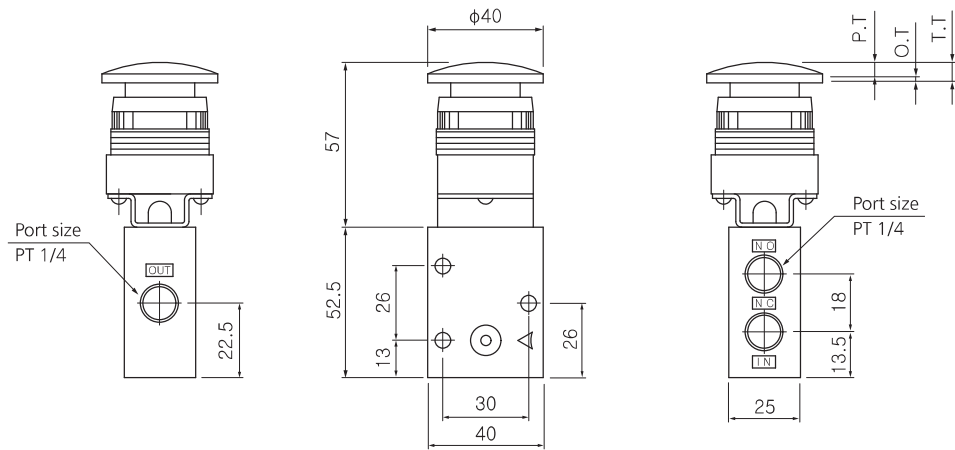
CAUTION

Series SMVS200

DIMENSIONS (mm)

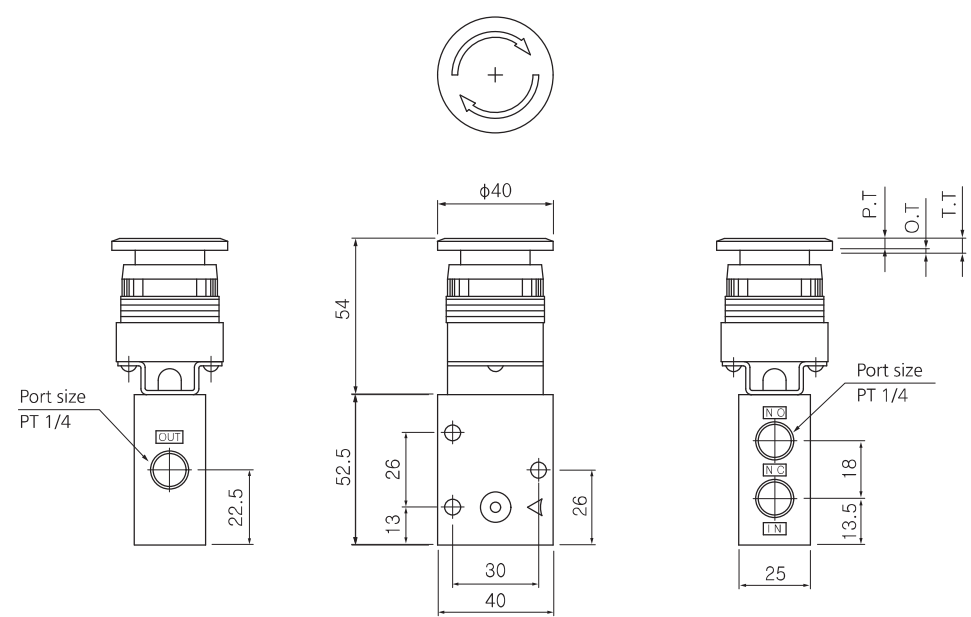
SMVS 230-02-30

P.T.	4.9
O.T.	1.6
T.T.	6.5



SMVS 230-02-31

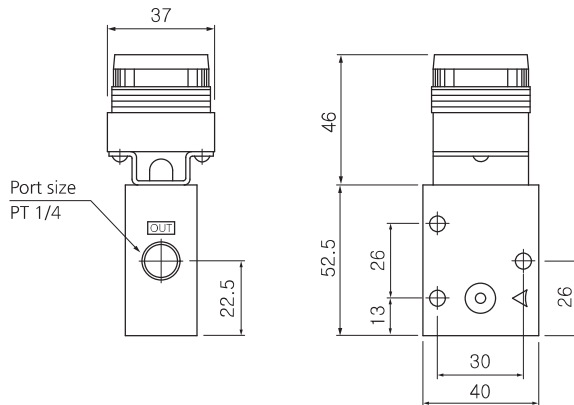
T.T.	4.3
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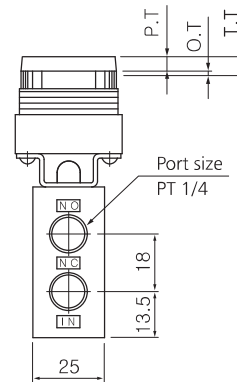
Spool type Mechanical Valve

DIMENSIONS (mm)

SMVS 230-02-32



P.T.	4.9
O.T.	1.6
T.T.	6.5



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

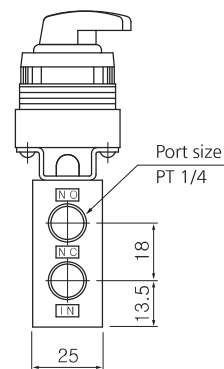
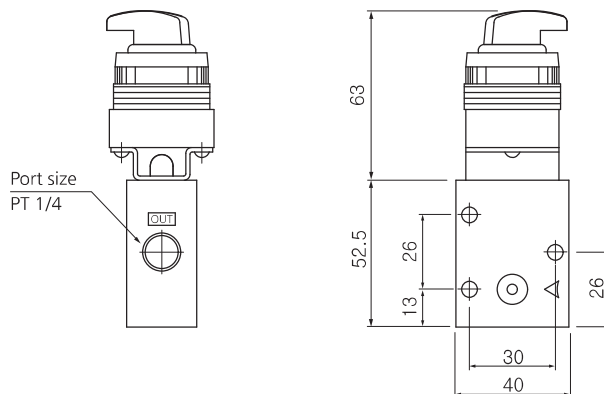
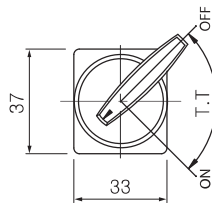
SFVM

SHV

CAUTION

SMVS 230-02-34

T.T.	90°
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3port Pilot type Mechanical Valve (SMVF)

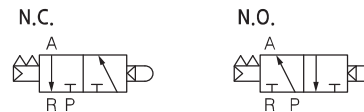
SMVF231~232 Series (Rc(PT) 1/4)



How to order

- SMVF 2 3 1 - 02 - 00**
- ① Pilot type Mechanical Valve
 - ② Number of Port
3 - 3 Port
 - ③ Function
1 - Nomal Close(N.C.)
2 - Nomal Open(N.O.)
 - ④ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ⑤ Port size
02 - 1/4
 - ⑥ Type of Actuator
00 - Standard
01 - Roller lever
015 - Roller lever(Bearing type)
02 - One way roller lever
025 - One way roller lever(Bearing type)
30 - Push button(Mushroom type)
32 - Push button(Flat type)
34 - Selector(2position)

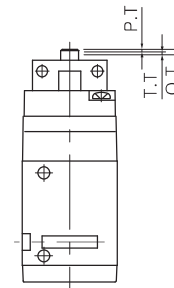
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

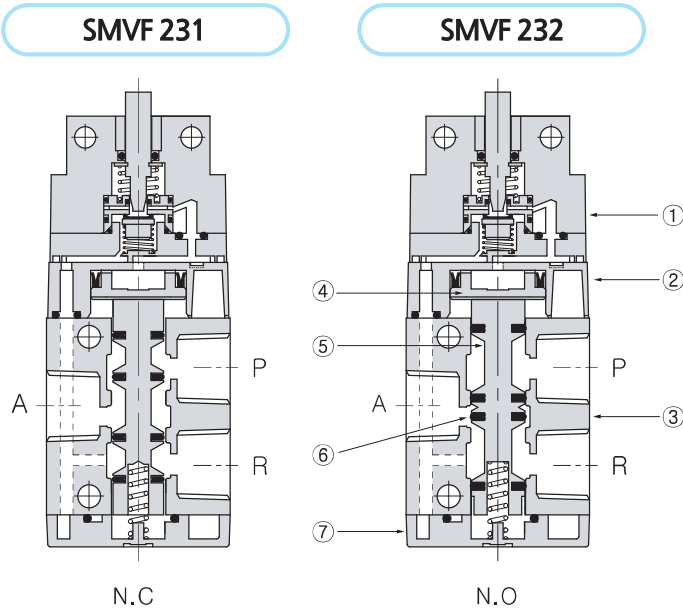
Operating point of Mechanical valve



P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Pilot type Mechanical Valve

STRUCTURE / PARTS



No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

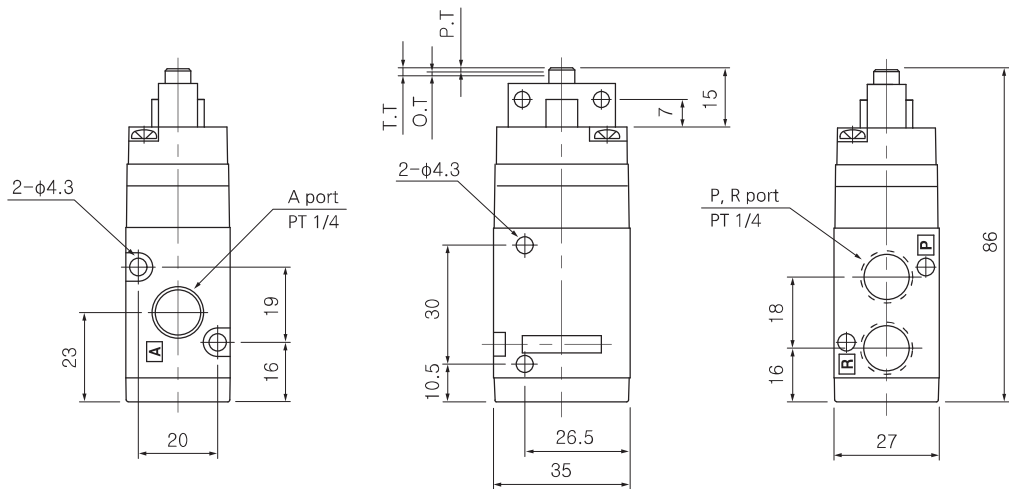
SHV

CAUTION

DIMENSIONS (mm)

SMVF 231-02-00
232-02-00

P.T.	1
O.T.	2
T.T.	3



Series SMVF231~232

DIMENSIONS (mm)

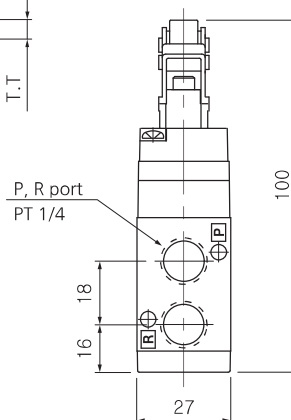
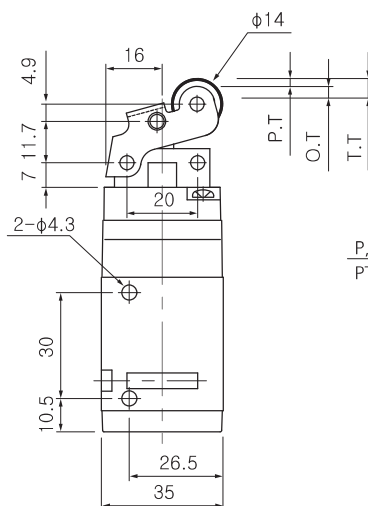
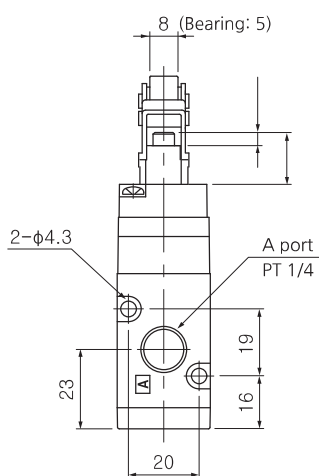
SMVF 231-02-01

232-02-01

231-02-01S

232-02-01S

P.T.	2.2
O.T.	4
T.T.	6.2



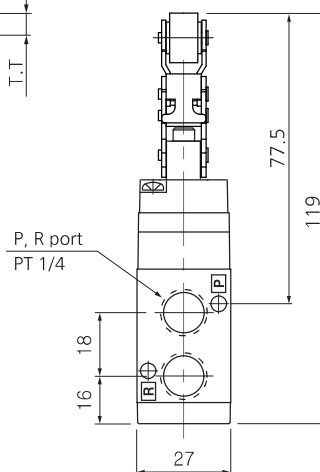
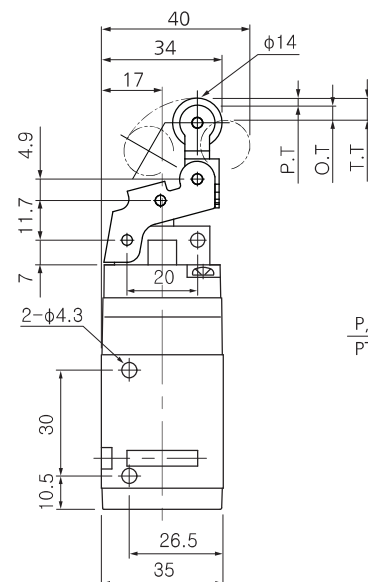
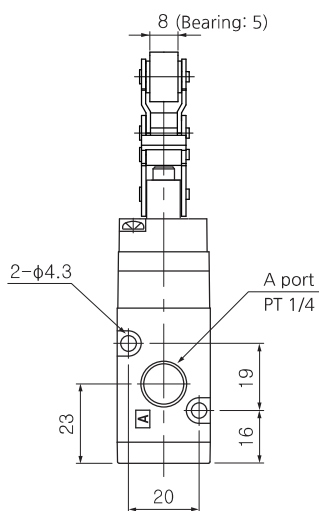
SMVF 231-02-02

232-02-02

231-02-02S

232-02-02S

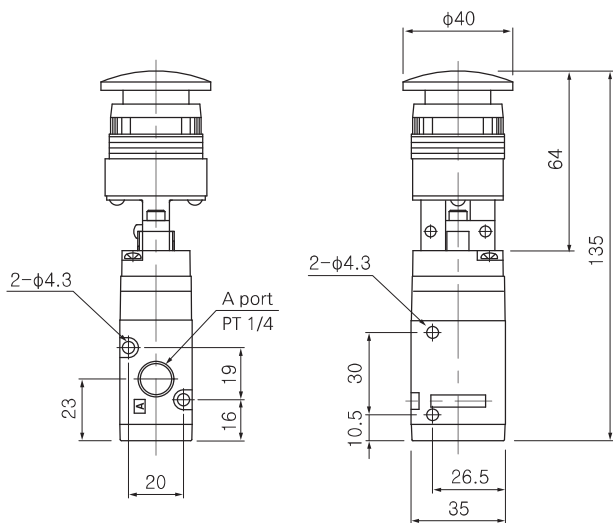
P.T.	2.2
O.T.	4
T.T.	6.2



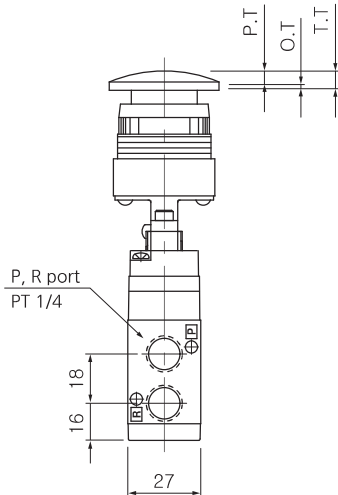
Pilot type Mechanical Valve

DIMENSIONS (mm)

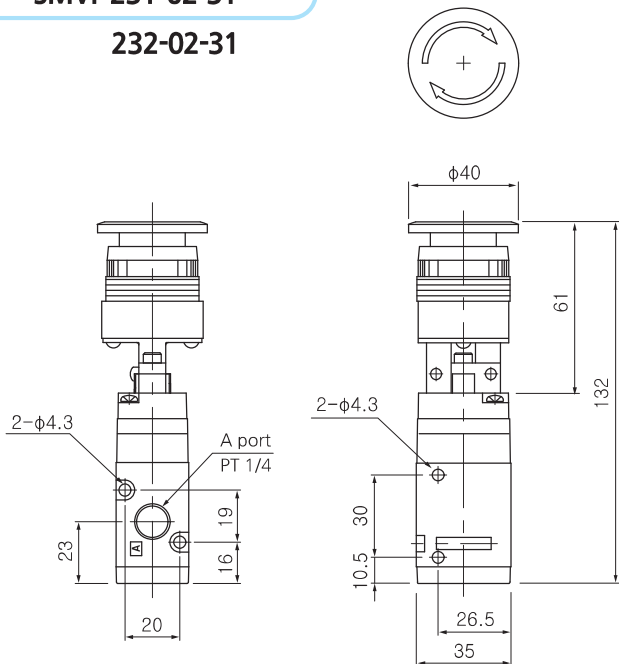
SMVF 231-02-30
232-02-30



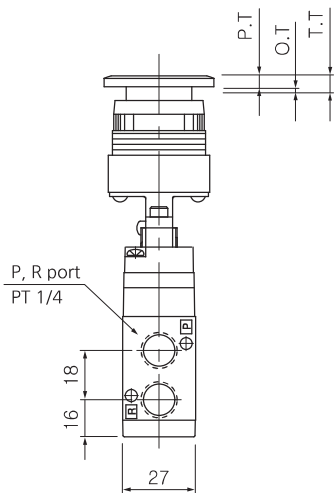
P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 231-02-31
232-02-31



T.T.	8
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- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

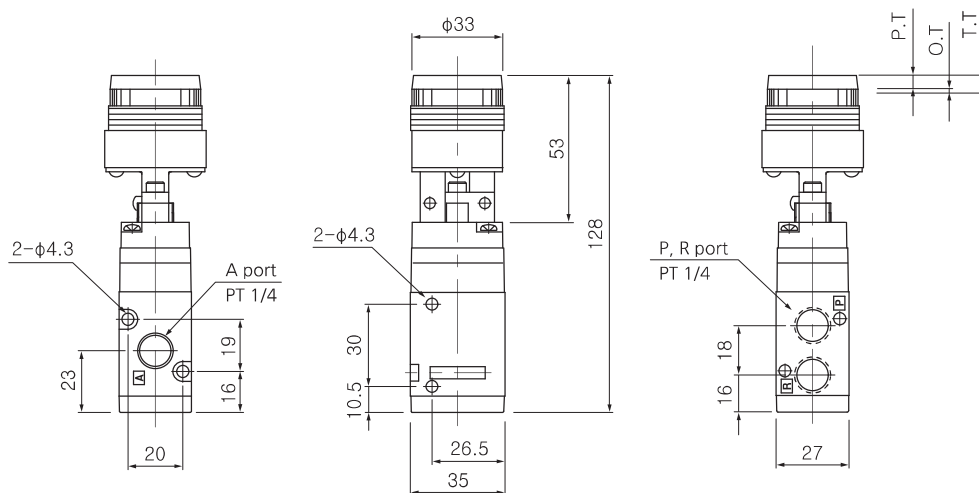
Series SMVF231~232

DIMENSIONS (mm)

SMVF 231-02-32

232-02-32

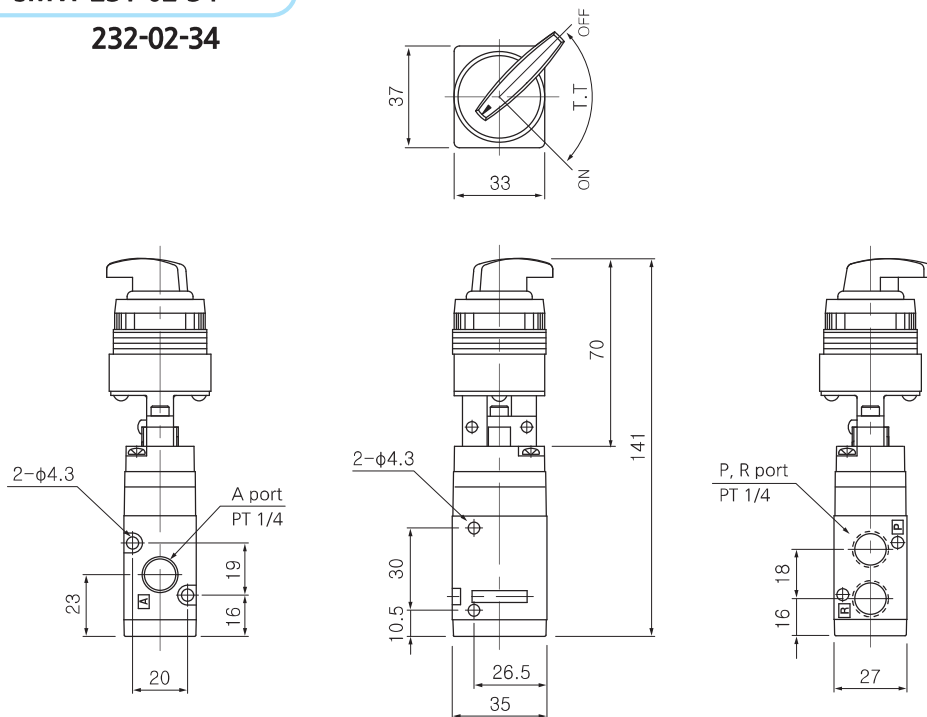
P.T.	6
O.T.	2
T.T.	8



SMVF 231-02-34

232-02-34

T.T.	90°
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5port Pilot type Mechanical Valve (SMVF)

SMVF250 Series (Rc(PT) 1/4)



SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

How to order

SMVF 2 5 0 - 02 - 00

① Pilot type
Mechanical Valve

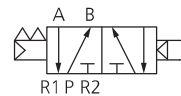
② Number of Port
5 - 5 Port

③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)

④ Port size
02 - 1/4

⑤ Type of Actuator
00 - Standard
01 - Roller lever
015 - Roller lever(Bearing type)
02 - One way roller lever
025 - One way roller lever(Bearing type)
30 - Push button(Mushroom type)
32 - Push button(Flat type)
34 - Selector(2position)

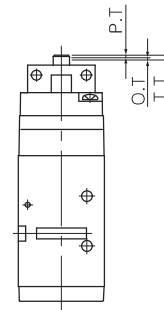
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5~60℃ (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

Operating point of Mechanical valve

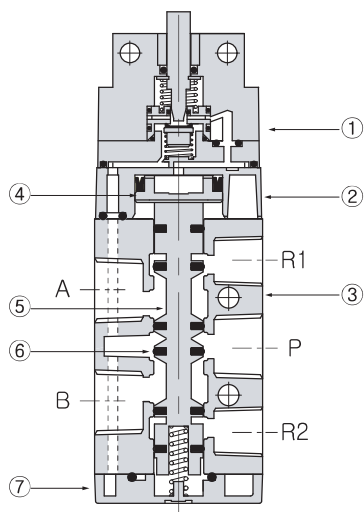


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMVF250

STRUCTURE / PARTS

SMVF 250

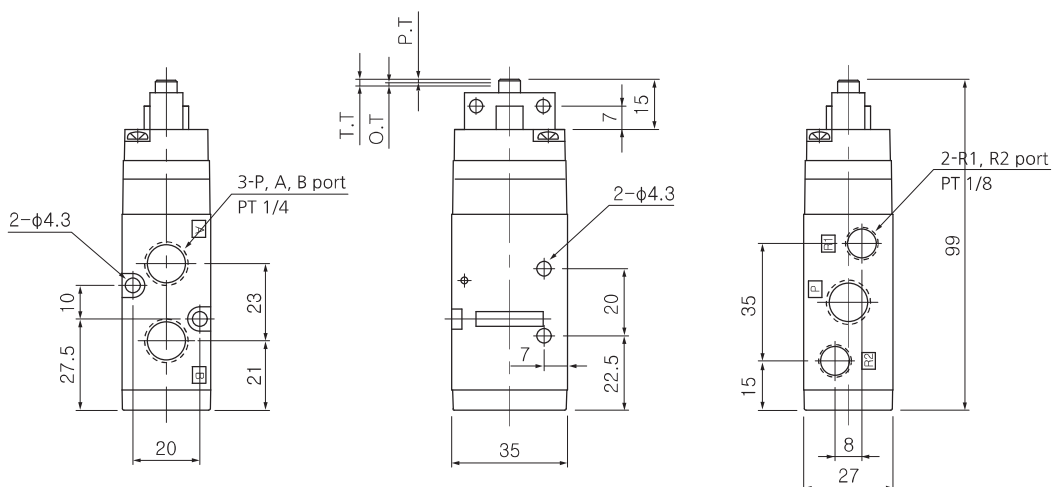


No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

DIMENSIONS (mm)

SMVF 250-02-00

P.T.	1
O.T.	2
T.T.	3

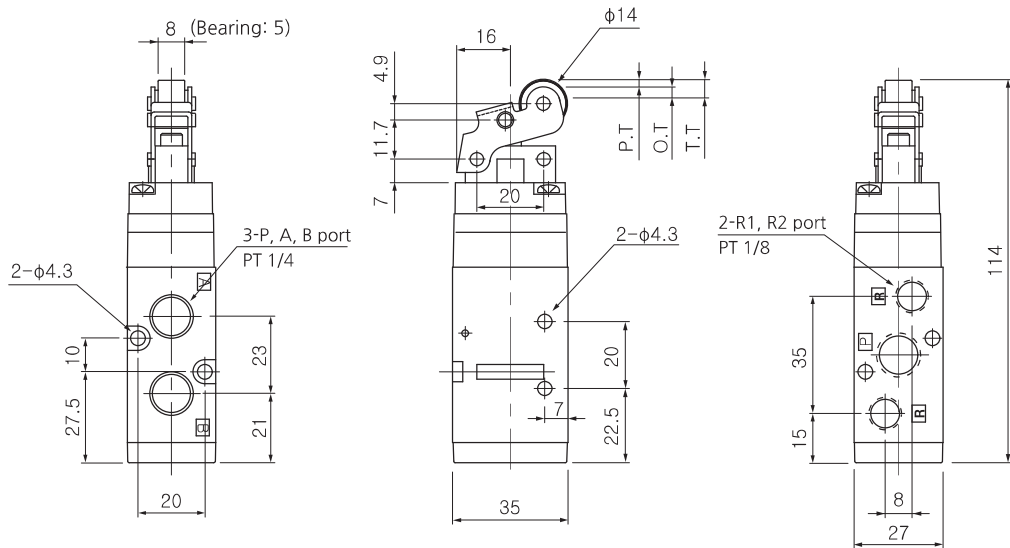


Pilot type Mechanical Valve

DIMENSIONS (mm)

SMVF 250-02-01

250-02-01S



P.T.	2.2
O.T.	4
T.T.	6.2

SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

SMVF250

SMVF350

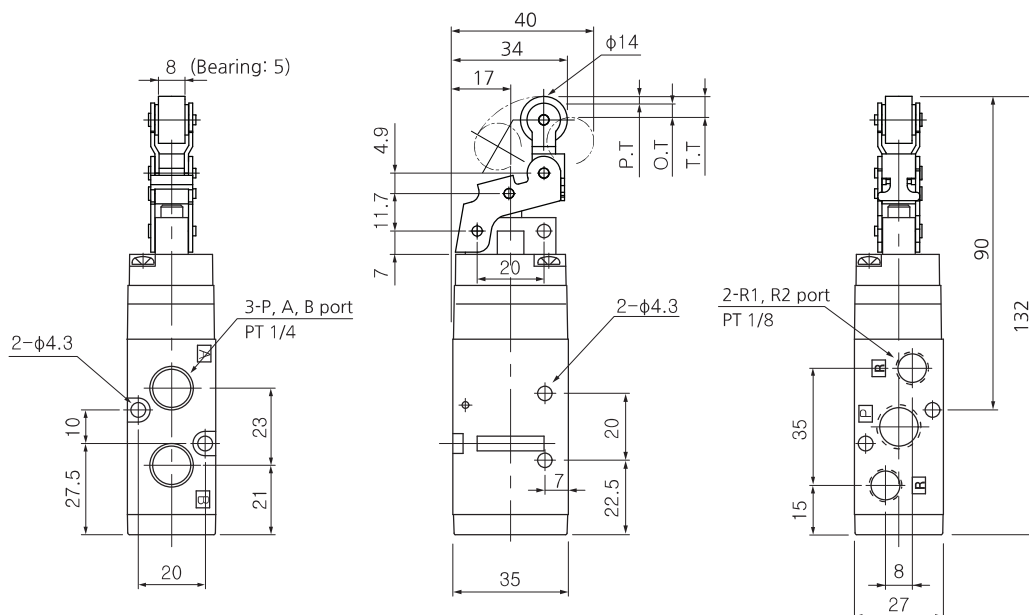
SFVM

SHV

CAUTION

SMVF 250-02-02

250-02-02S



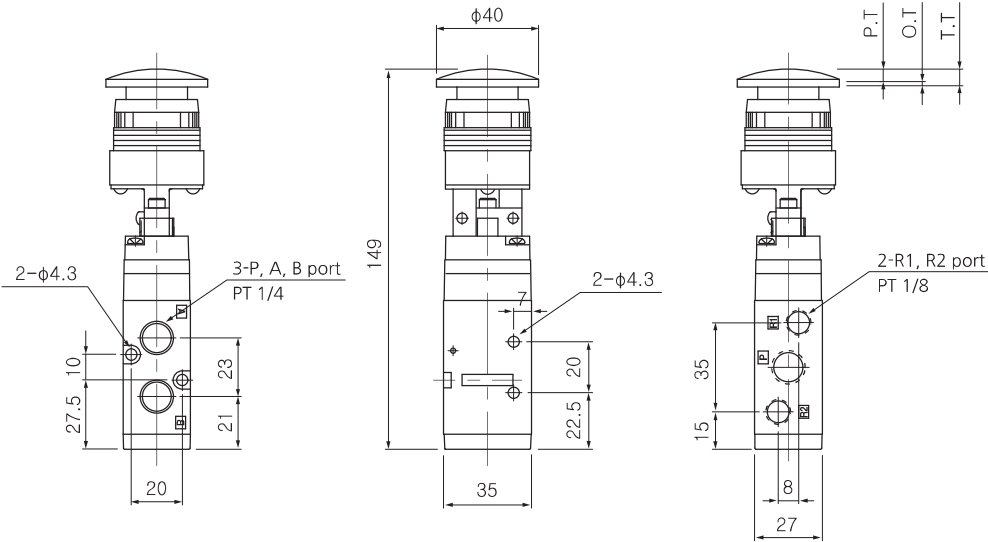
P.T.	2.2
O.T.	4
T.T.	6.2

Series SMVF250

DIMENSIONS (mm)

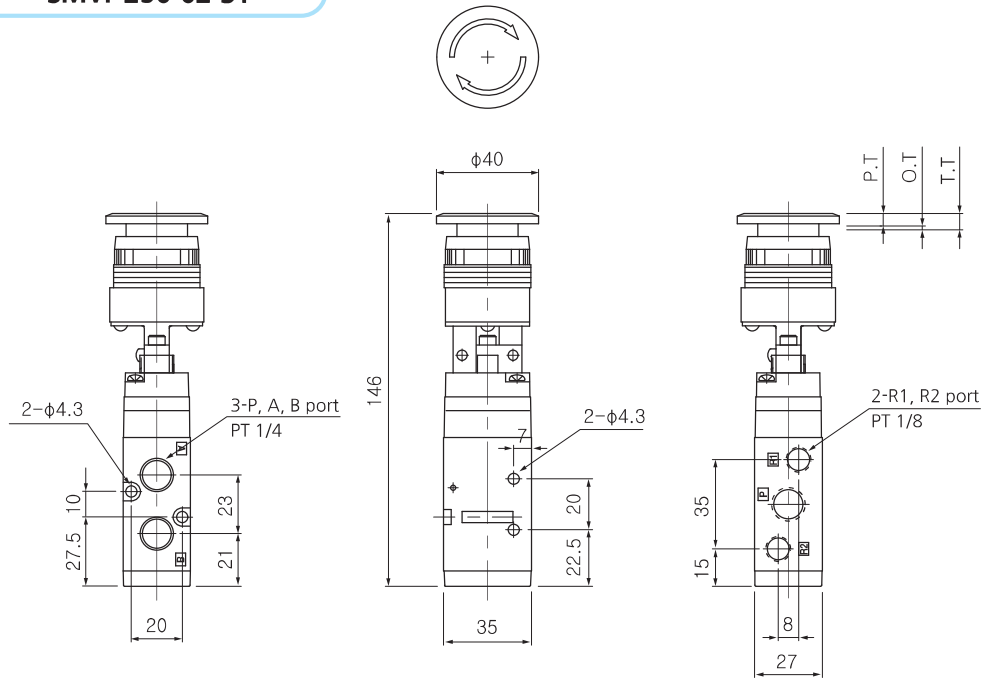
SMVF 250-02-30

P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 250-02-31

T.T.	8
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Pilot type Mechanical Valve

DIMENSIONS (mm)

SMVF 250-02-32

P.T.	6
O.T.	2
T.T.	8

SV1000

SV3000

SV5000

SV6000

SV231
~232

COIL
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231
~232

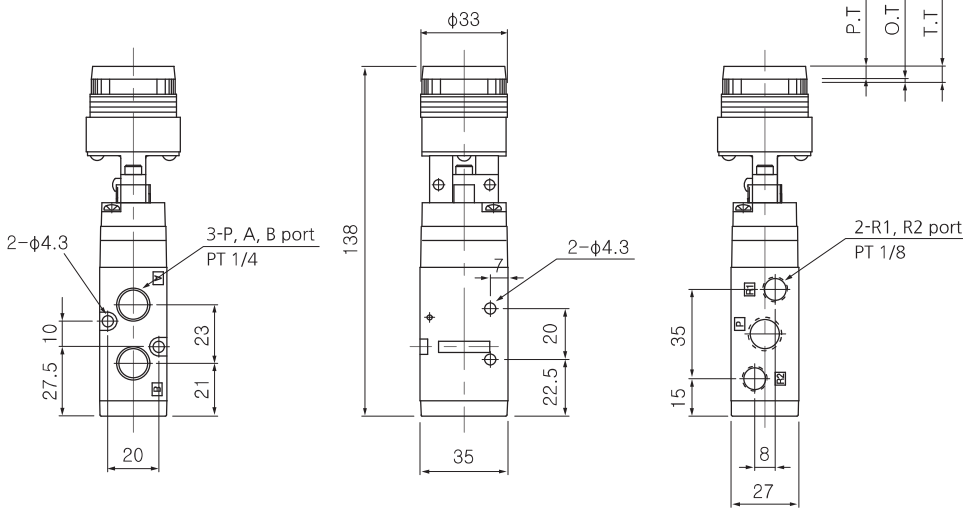
SMVF250

SMVF350

SFVM

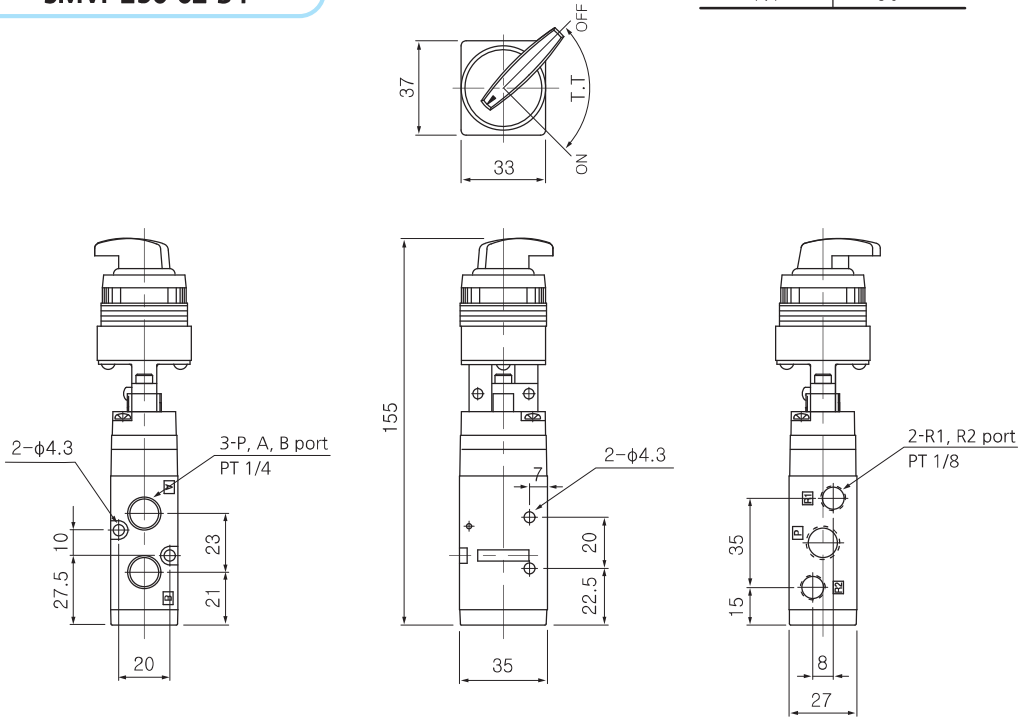
SHV

CAUTION



SMVF 250-02-34

T.T.	90°
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5port Pilot type Mechanical Valve (SMVF)

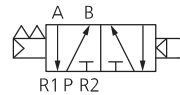
SMVF350 Series (Rc(PT) 3/8)



How to order

- SMVF 3 5 0 - 03 - 01**
- ① Pilot type Mechanical Valve
 - ② Number of Port
5 - 5 Port
 - ③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ④ Port size
03 - 3/8
 - ⑤ Type of Actuator
 - 00 - Standard
 - 01 - Roller lever
 - 01S - Roller lever(Bearing type)
 - 02 - One way roller lever
 - 02S - One way roller lever(Bearing type)
 - 30 - Push button(Mushroom type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

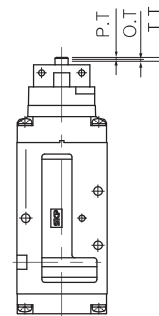
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Effective orifice(Cv)	45mm ² (2.4)
Lubrication	Not required
Port size	3/8

Operating point of Mechanical valve

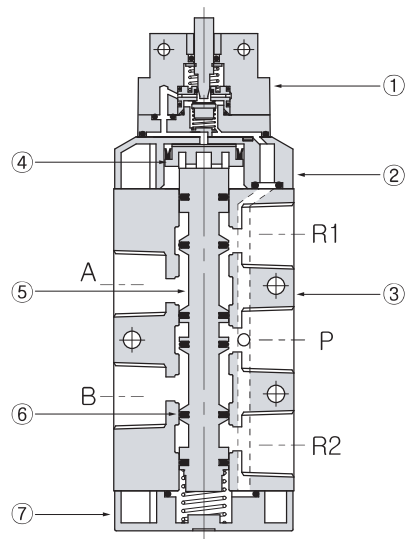


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Pilot type Mechanical Valve

STRUCTURE / PARTS

SMVF 350



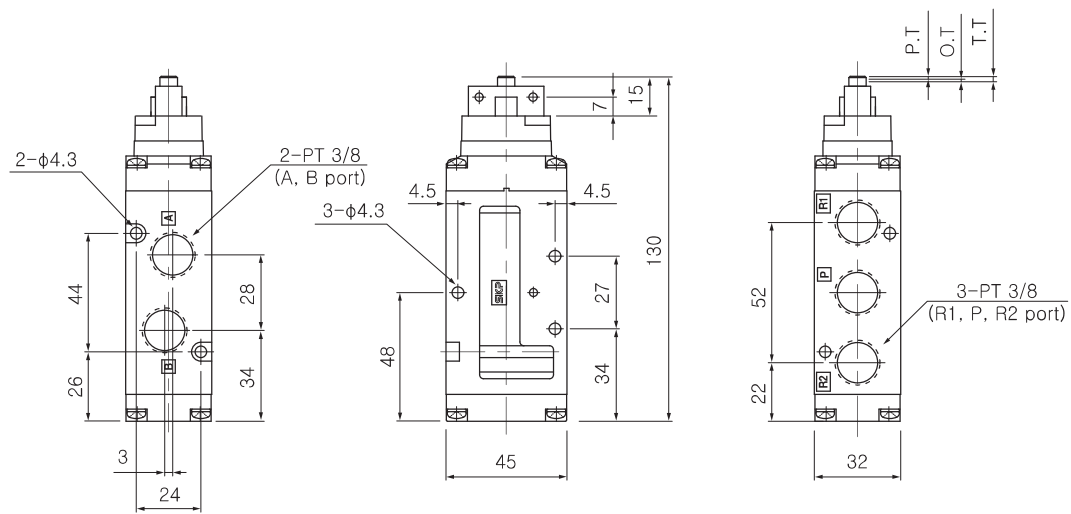
No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

DIMENSIONS (mm)

SMVF 350-03-00

P.T.	1
O.T.	2
T.T.	3

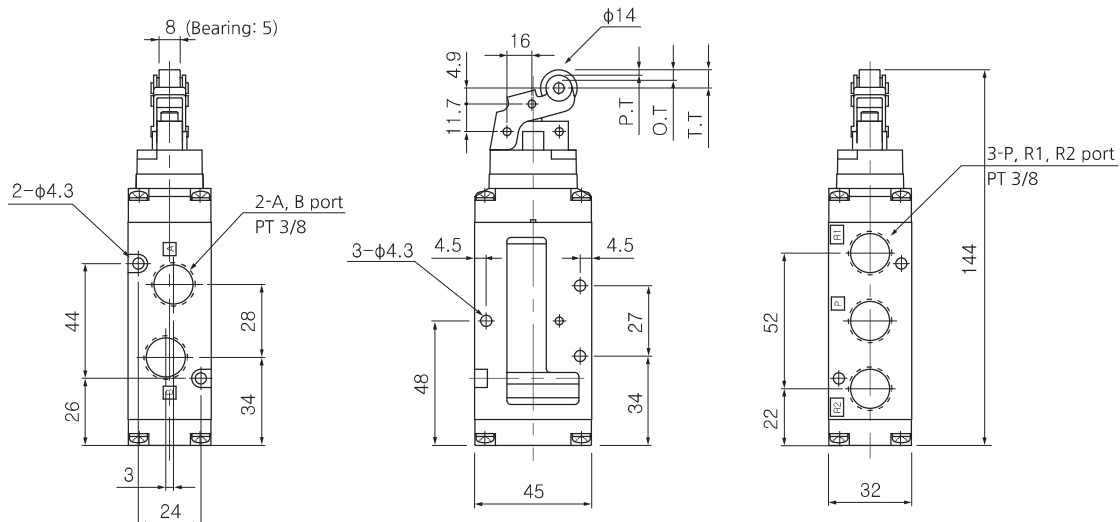


Series SMVF350

DIMENSIONS (mm)

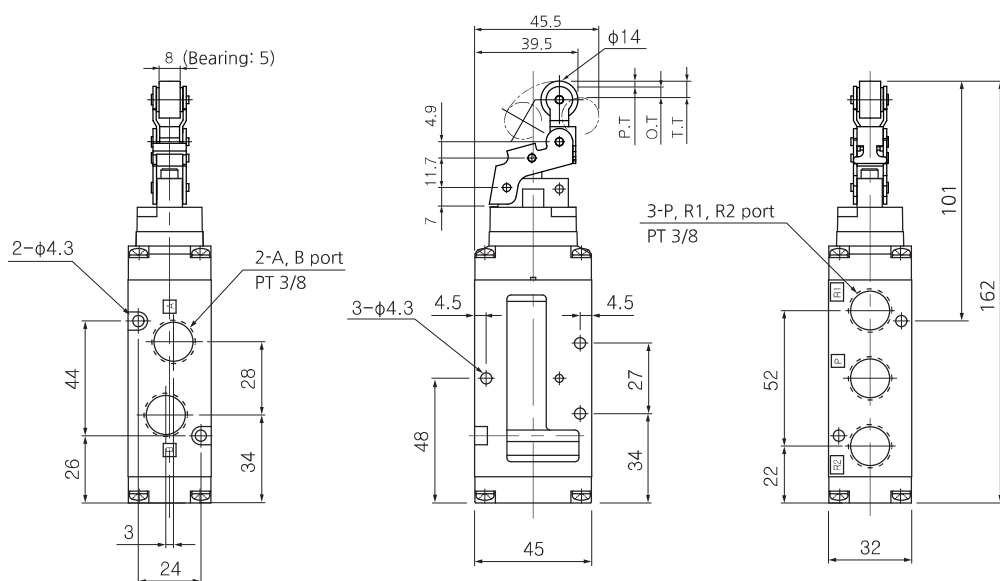
SMVF 350-03-01

350-03-01S



SMVF 350-02-02

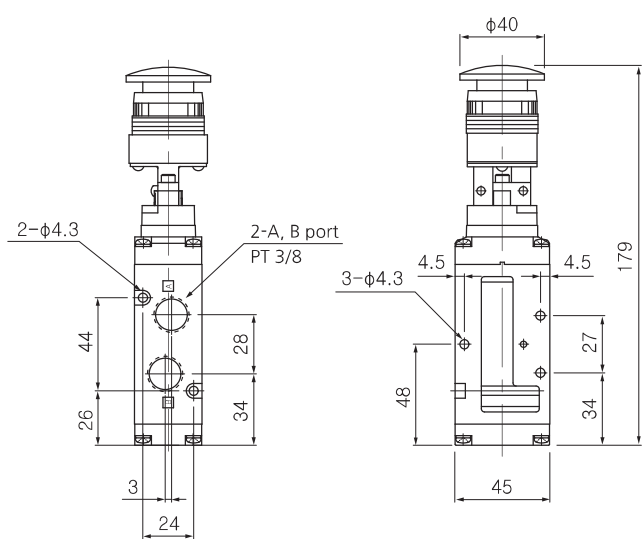
350-02-02S



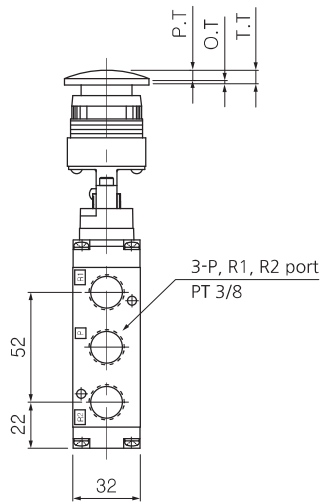
Pilot type Mechanical Valve

DIMENSIONS (mm)

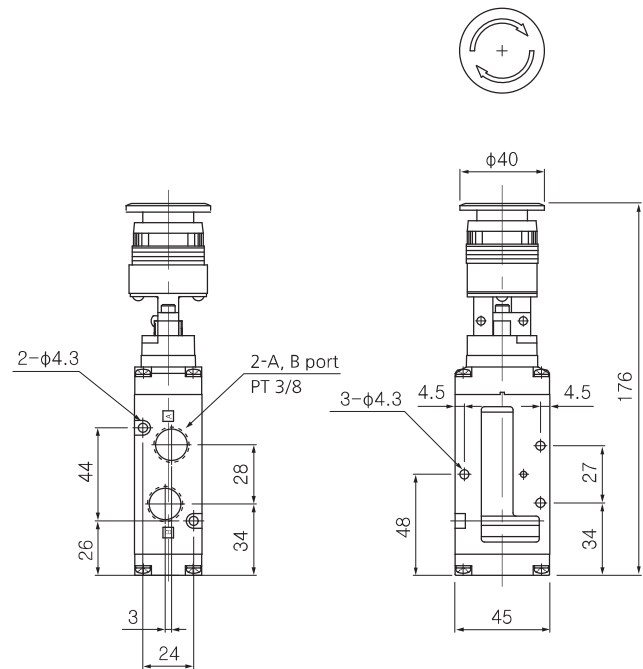
SMVF 350-03-30



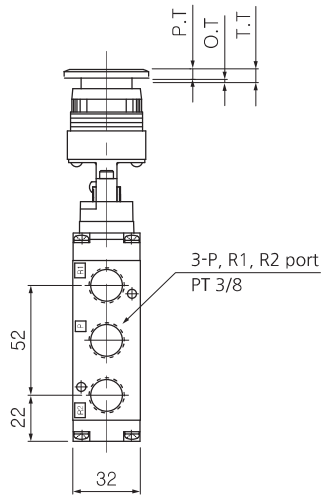
P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 350-03-31



T.T.	8
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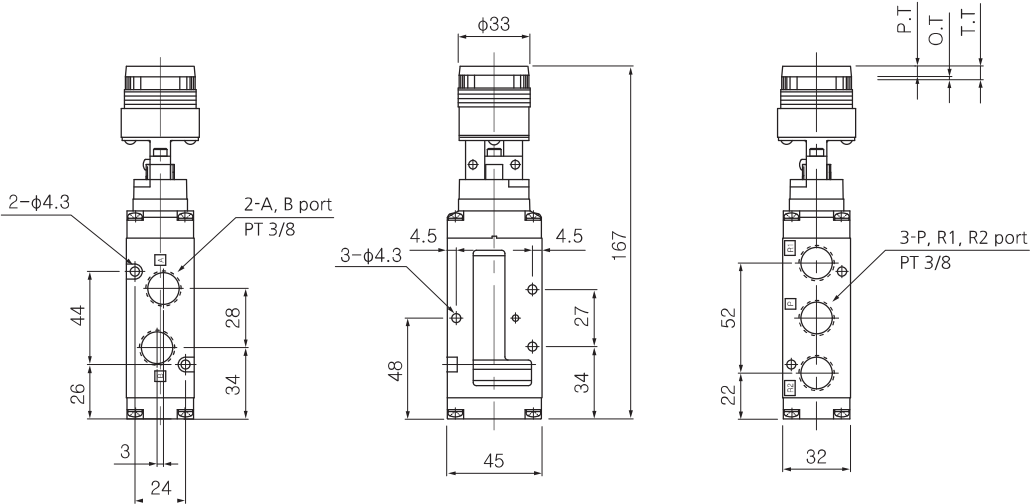
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

Series SMVF350

DIMENSIONS (mm)

SMVF 350-03-32

P.T.	6
O.T.	2
T.T.	8



SMVF 350-03-34

T.T.	90°
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