

Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M

3V Manifold

4V Manifold

Coil

3A100

3A200

3A300

4A100

4A200

4A300

4A400

3A Manifold

4A Manifold

VF3000

VF5000

SY

SY Manifold

MVSD-180

MVSC-220

MVSC-260

MVSC-300

MVSC-460

HB10

3H

4H

TSV

3R

4R

HSV

4HV/4HVL

HV

K²⁴₃₄

MOV

JM

MSV

XQ²³₂₅

3F/3FM

4F

FV

K²³₂₅

ASC

RE

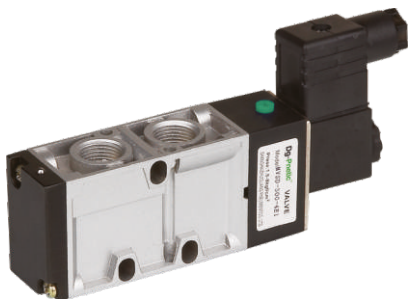
QE

ST

KA

XQ

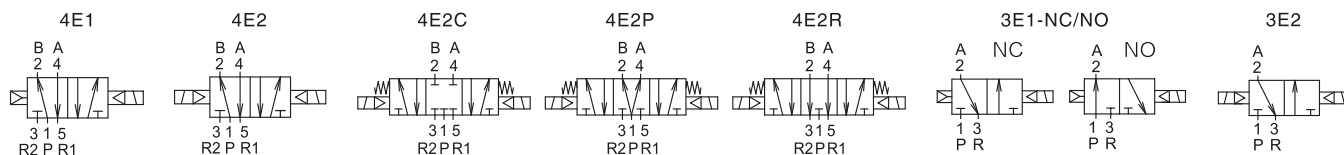
AQ



Specification

Model	3E1	3E2	4E1	4E2	4E2C, P.R
Bore No.	6A				
Port size	1/8"				
No. of port	3		5		
No. of position	2				3
Medium	Air (to be filtered by 40μm filter element)				
Operating perssure range	0.15~0.8MPa				0.2~0.7MPa
Operating pressue (LP)	0~0.8MPa				0~0.7MPa
External pilot pressure (LP)	0.15~0.8MPa				0.2~0.7MPa
Proof pressure	1MPa				
Effective orifice	15mm ²		12mm ²		9mm ²
Ambient temperature	-5~+50℃ (No freezing)				
Response time	30ms				
Voltage	AC110V, 220V(50/60)Hz, DC24V				
Power consumption	AC=3.7/3.1VA, DC=3W				
Available voltage range	±10%				
Insulation class	F Class				
Weight	120g	172g	124g	176g	190g

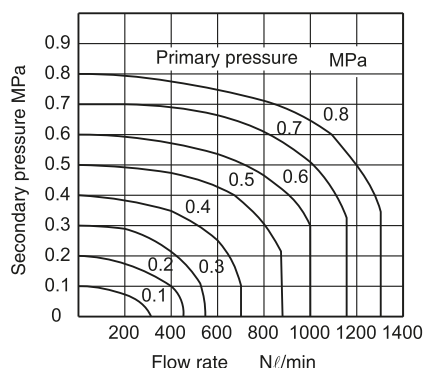
Symbol



Ordering code

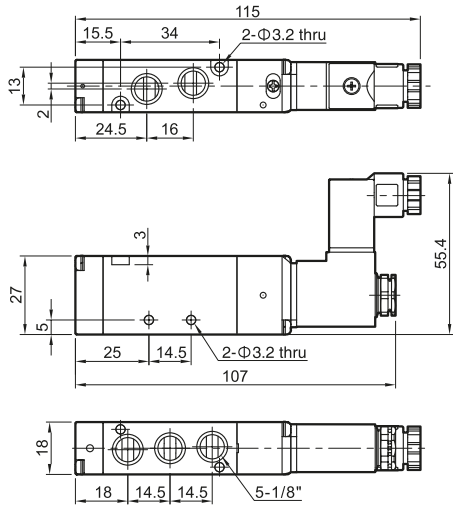
MVSD	180	4	E2	C	NC	AC110	L	LP	G
Model	Body width	No. of port	Coil	No. of position	Acting type	Voltage	Electrical entry	Pilot type	Thread type
		3 3 way (3 port) 4 4 way (5 port)	E1 Single solenoid E2 Double solenoid	C Closed center P Pressure center R Exhaust center (Only for 4E2 type)	NC Normally closed NO Normally open (Only for 3E1 type)	AC220V(50/60)Hz AC110V(50/60)Hz DC24V	Blank DIN connector L DIN connector with LED indicator W Lead wire (Only for MVSD series)	Blank Standard LP External pilot	Blank Rc thread G G thread NPT NPT thread

Flow features

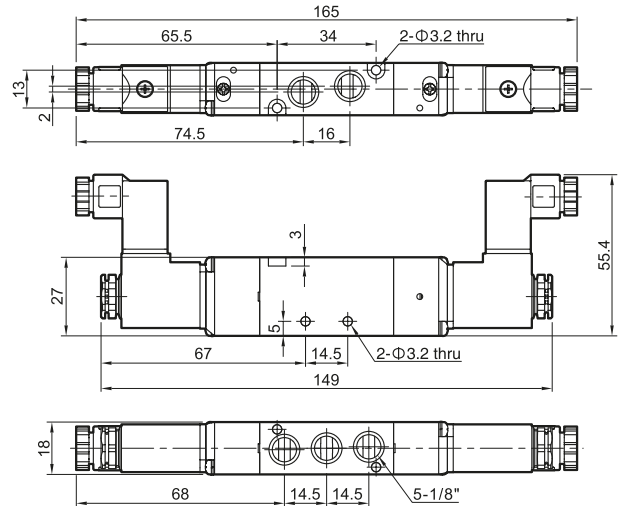


Dimensions

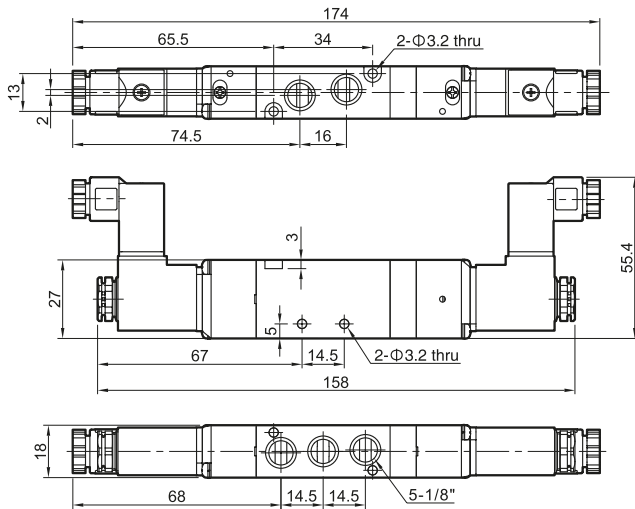
MVSD-180-4E1



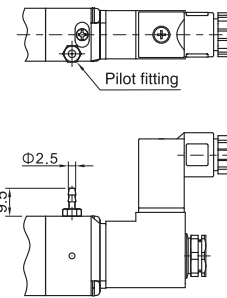
MVSD-180-4E2



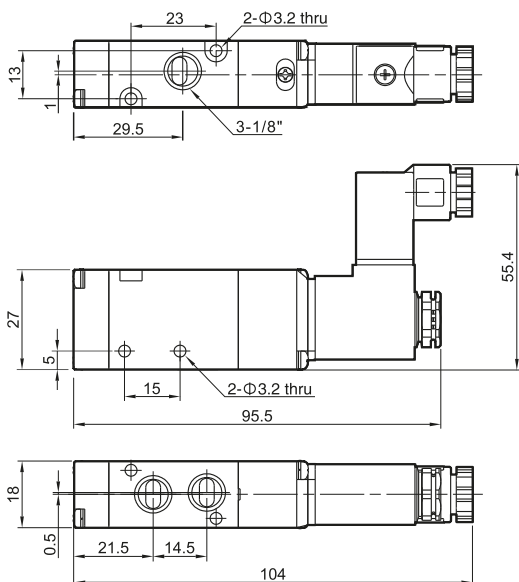
MVSD-180-4E2C.P.R



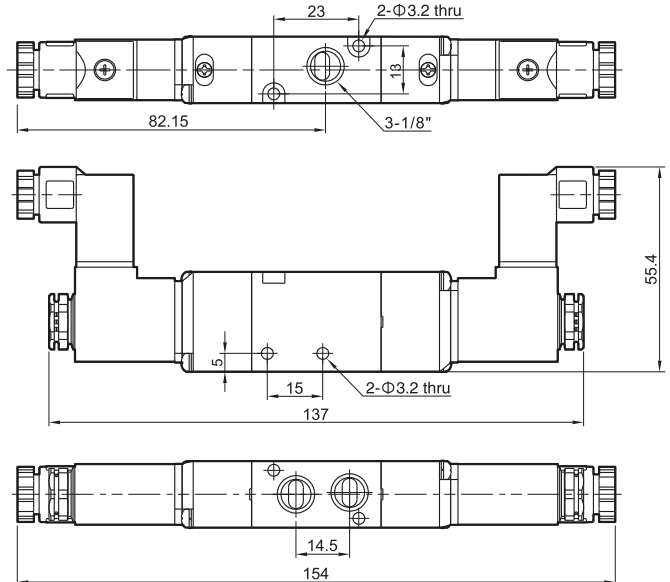
LP



MVSD-180-3E1-NC/NO



MVSD-180-3E2



Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ

Valve

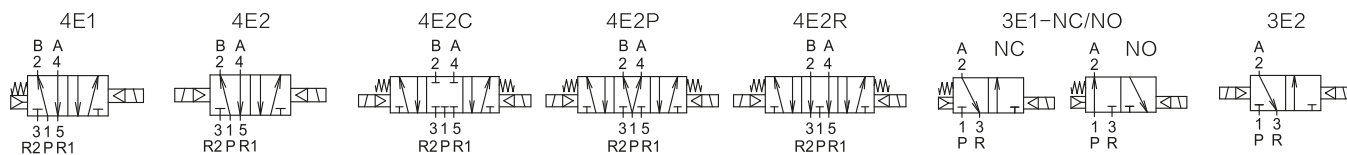
3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K₂₄²⁴₃₄
MOV
JM
MSV
XQ₂₅²³
3F/3FM
4F
FV
K₂₅²³
ASC
RE
QE
ST
KA
XQ
AQ



Specification

Model	3E1	3E2	4E1	4E2	4E2C,P.R
Bore No.	8A		6A,8A		
Port size	1/4"		1/8", 1/4"		
No. of port	3		5		
No. of position	2				3
Medium	Air (to be filtered by 40μm filter element)				
Operating perssure range	0.2~0.8MPa				0.3~0.8MPa
Operating pressue (LP)	0~0.8MPa				
External pilot pressure (LP)	0.2~0.8MPa				0.3~0.8MPa
Proof pressure	1MPa				
Effective orifice	18mm ²				16mm ²
Ambient temperature	-5~+50℃ (No freezing)				
Response time	30ms				40ms
Voltage	AC110V, 220V(50/60)Hz, DC24V				
Power consumption	AC=4.8/4.4VA, 6/4.9VA DC=2W				
Available voltage range	±10%				
Insulation class	F Class				
Weight	203g	296g	184g	292g	338g

Symbol



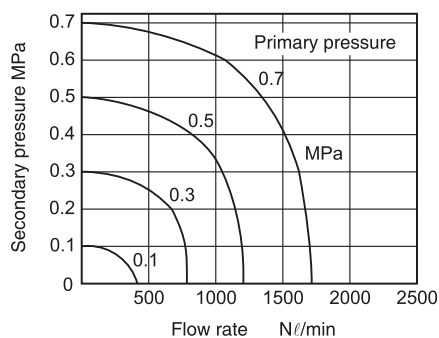
Ordering code

MVSC	220	M	4	E2	C	NC	AC110	L	LP	G
Model	Body width			Coil		Acting type	Voltage		Pilot type	Thread type
Valve type				E1 Single solenoid E2 Double solenoid		NC Normally closed NO Normally open (Only for 3E1 type)	AC220V(50/60)Hz AC110V(50/60)Hz DC24V		LP External pilot	Blank Rc thread G G thread NPT NPT thread (Only for body ported type)
No. of port				No. of position		Port size	Electrical entry			
3 3 way (3 port) 4 4 way (5 port)				C Closed center P Pressure center R Exhaust center D Differential (Only for 4E2 type)		Blank 1/4" 6A 1/8" (Only for 4E* & body ported type)	Blank DIN connector L DIN connector with LED indicator E Explosion protection (Table 1) (E type use black coil)			

Table 1 Property for explosion-proof type

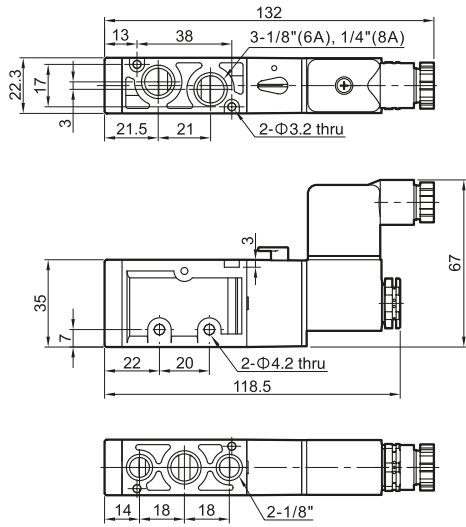
Anti-explosion class	EEx m II T4
Voltage	AC110V, 220V(50/60)Hz, DC24V.
Power consumption	AC=4.4VA DC=5W
Available voltage range	±10%
Insulation class	F class
Wire length	3 m

Flow features

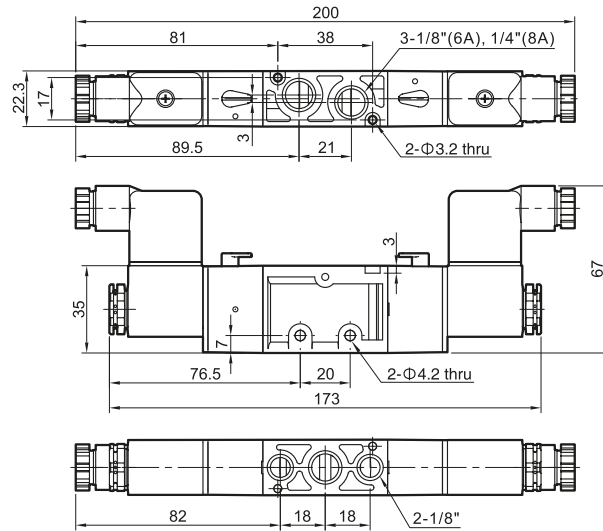


Dimensions

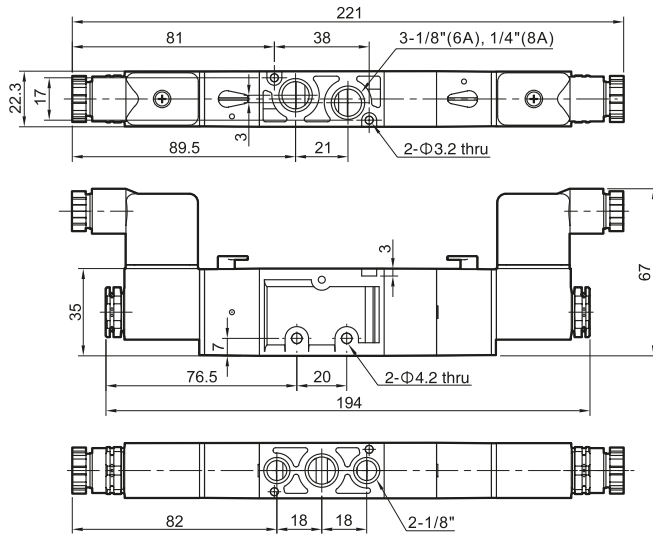
MVSC-220-4E1



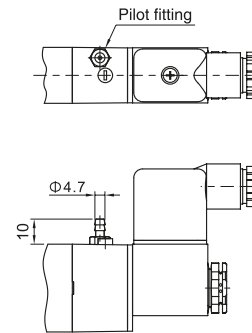
MVSC-220-4E2



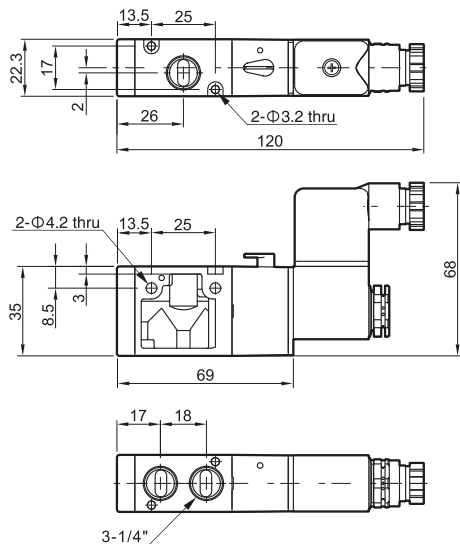
MVSC-220-4E2C.P.R



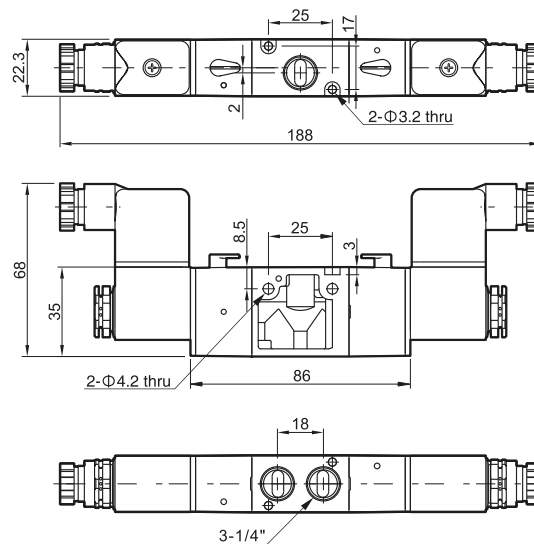
LP



MVSC-220-3E1-NC/NO



MVSC-220-3E2



Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ

Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4

4M

3V Manifold

4V Manifold

Coil

3A100

3A200

3A300

4A100

4A200

4A300

4A400

3A Manifold

4A Manifold

VF3000

VF5000

SY

SY Manifold

MVSD-180

MVSC-220

MVSC-260

MVSC-300

MVSC-460

HB10

3H

4H

TSV

3R

4R

HSV

4HV/4HVL

HV

K²⁴₃₄

MOV

JM

MSV

XQ²³₂₅

3F/3FM

4F

FV

K²³₂₅

ASC

RE

QE

ST

KA

XQ

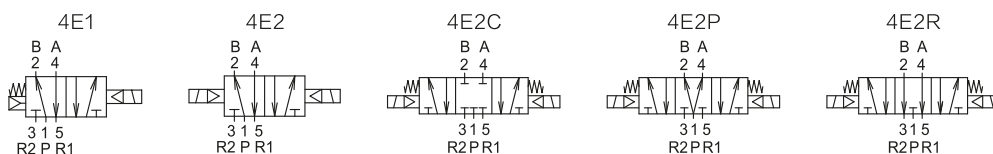
AQ



Specification

Model	4E1	4E2	4E2C.P.R
Bore No.	8A		
Port size	1/4"		
No. of port	5		
No. of position	2	3	
Medium	Air (to be filtered by 40μm filter element)		
Operating perssure range	0.2~0.8MPa		0.3~0.8MPa
Operating pressue (LP)	0~0.8MPa		
External pilot pressure (LP)	0.2~0.8MPa		0.3~0.8MPa
Proof pressure	1MPa		
Effective orifice	18mm ²		16mm ²
Ambient temperature	-5~+50℃ (No freezing)		
Response time	40ms		
Voltage	AC110V, 220V(50/60)Hz, DC24V		
Power consumption	AC=4.8/4.4VA, 6/4.9VA DC2W		
Available voltage range	±10%		
Insulation class	F Class		
Weight	228g	314g	444g

Symbol



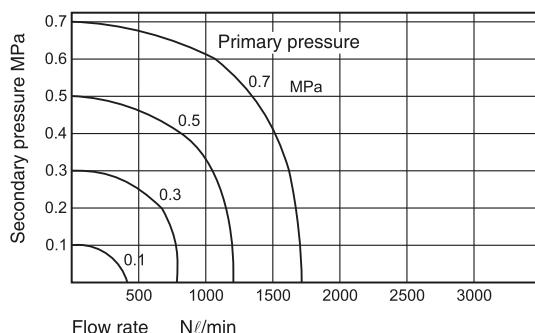
Ordering code

MVSC	260	4	E2	C	AC110	L	LP	G
Model	Body width	No. of port	Coil	No. of position	Voltage	Electrical entry	Pilot type	Thread type
		4 4 way (5 port)	E1 Single solenoid E2 Double solenoid	C Closed center P Pressure center R Exhaust center (Only for 4E2 type)	AC220V(50/60)Hz AC110V(50/60)Hz DC24V	Blank DIN connector L DIN connector with LED indicator E Explosion protection (Table 1) (E type use black coil)	LP External pilot	Blank Rc thread G G thread NPT NPT thread

Table 1 Property for explosion-proof type

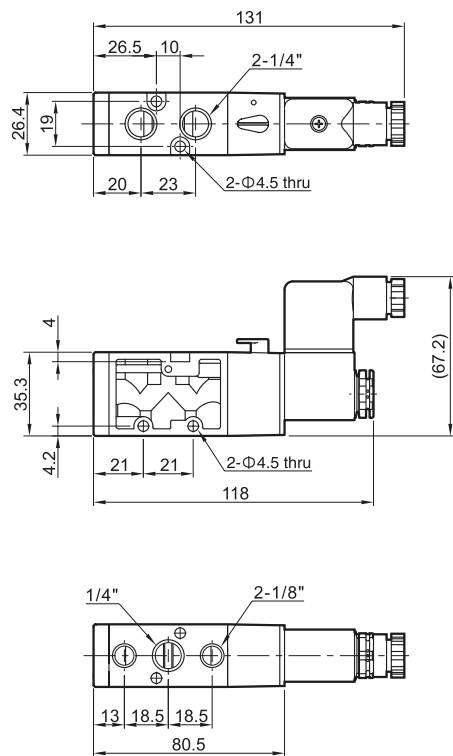
Anti-explosion class	EEx m II T4
Voltage	AC110V, 220V(50/60)Hz, DC24V
Power consumption	AC=4.4VA DC=5W
Available voltage range	±10%
Insulation class	F class
Wire length	3 m

Flow features

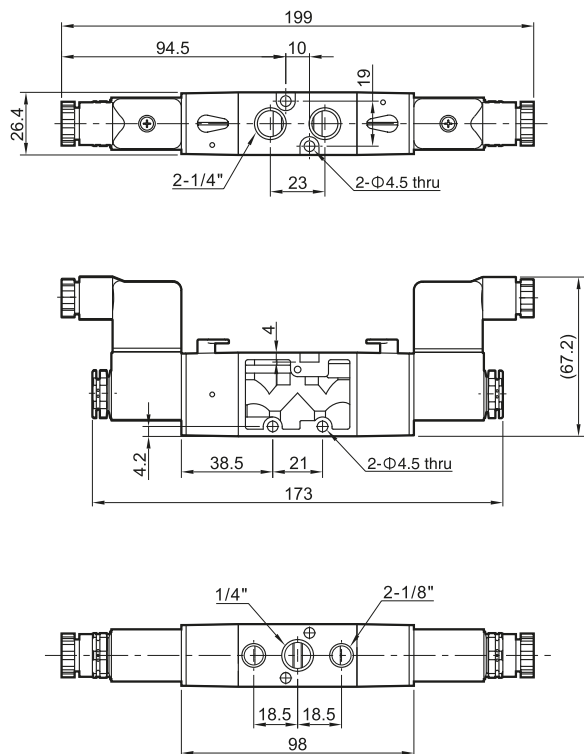


Dimensions

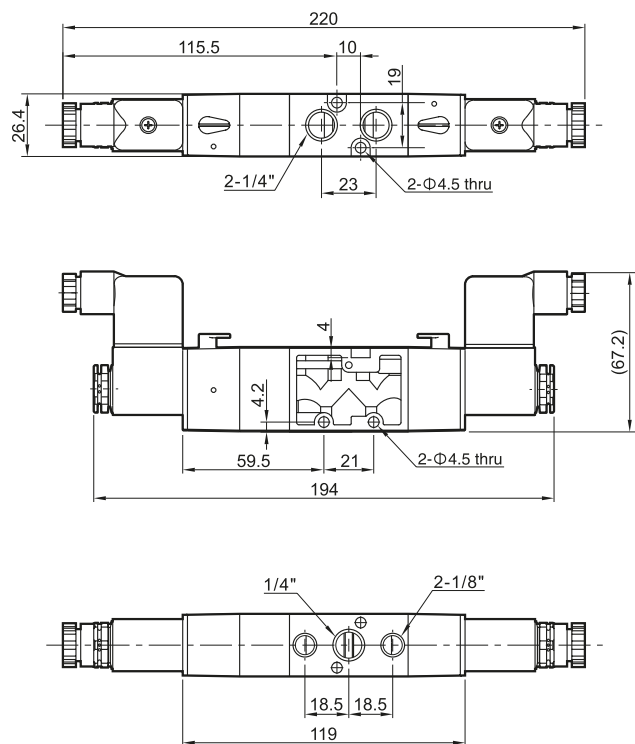
MVSC-260-4E1



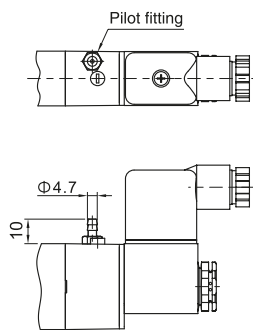
MVSC-260-4E2



MVSC-260-4E2C.P.R



LP



Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ

Valve

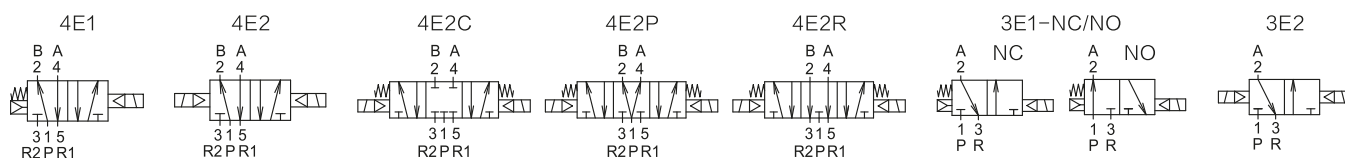
3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K²⁴₃₄
MOV
JM
MSV
XQ²³₂₅
3F/3FM
4F
FV
K²³₂₅
ASC
RE
QE
ST
KA
XQ
AQ



Specification

Model	3E1	3E2	4E1	4E2	4E2C.P.R
Bore No.	10A				
Port size	3/8"				
No. of port	3	5			
No. of position	2				3
Medium	Air (to be filtered by 40μm filter element)				
Operating perssure range	0.2~0.8MPa				0.3~0.8MPa
Operating pressue (LP)	0~0.8MPa				
External pilot pressure (LP)	0.2~0.8MPa				0.3~0.8MPa
Proof pressure	1MPa				
Effective orifice	30mm ²	35mm ²			25mm ²
Ambient temperature	-5~+50℃ (No freezing)				
Response time	50ms				
Voltage	AC110V, 220V(50/60)Hz, DC24V				
Power consumption	AC=4.8/4.4VA, 6/4.9VA DC=2W				
Available voltage range	±10%				
Insulation class	F Class				
Weight	350g	439g	293g	387g	565g

Symbol



Ordering code

MVSC 300 4 E2 C NC AC110

Model **Body width**

No. of port

3 3 way (3 port)
4 4 way (5 port)

Coil

E1 Single solenoid
E2 Double solenoid

No. of position

C Closed center
P Pressure center
R Exhaust center
(Only for 4E2 type)

Acting type

NC Normally closed
NO Normally open
(Only for 3E1 type)

Voltage

AC220V(50/60)Hz
AC110V(50/60)Hz
DC24V

Electrical entry

Blank DIN connector
L DIN connector with LED indicator
E Explosion protection (Table 1)
(E type use black coil)

Pilot type

LP External pilot

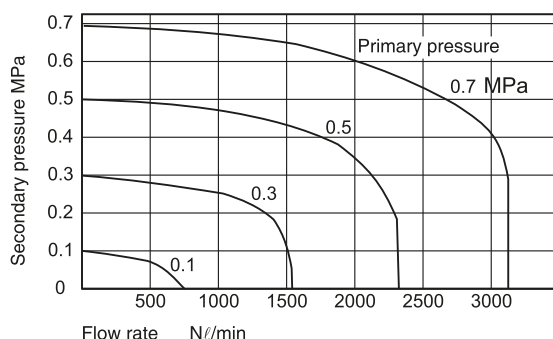
Thread type

Blank Rc thread
G G thread
NPT NPT thread

Table 1 Property for explosion-proof type

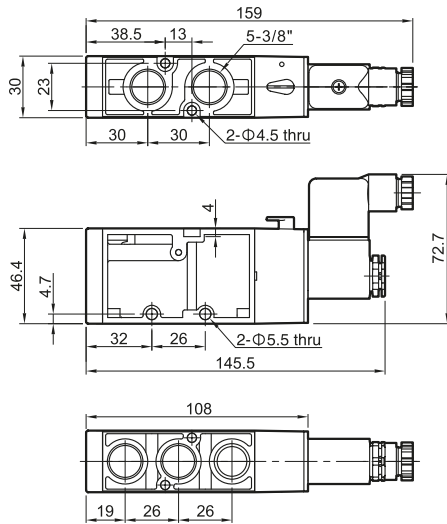
Anti-explosion class	EEx m II T4
Voltage	AC110V, 220V(50/60)Hz, DC24V
Power consumption	AC=4.4VA DC=5W
Available voltage range	±10%
Insulation class	F class
Wire length	3 m

Flow features

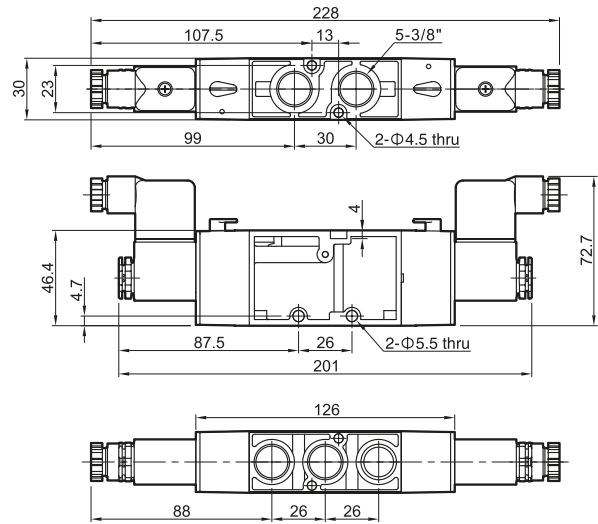


Dimensions

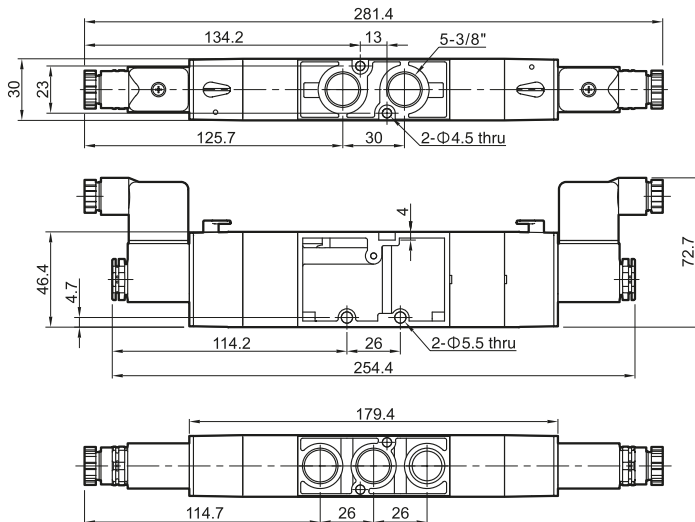
MVSC-300-4E1



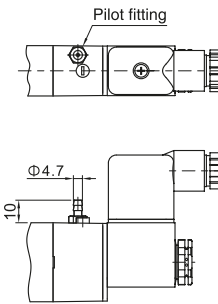
MVSC-300-4E2



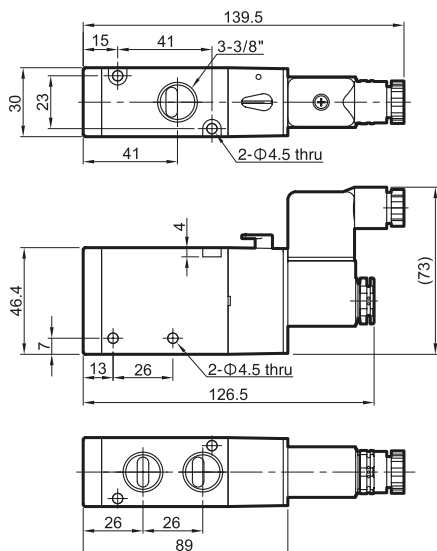
MVSC-300-4E2C.P.R



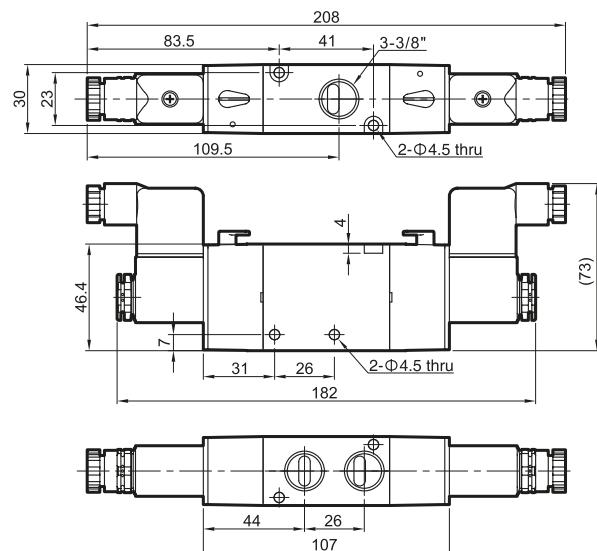
LP



MVSC-300-3E1-NC/NO



MVSC-300-3E2



Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ

Valve

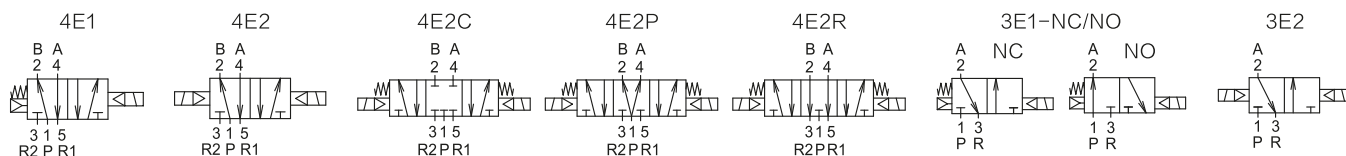
3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K²⁴₃₄
MOV
JM
MSV
XQ²³₂₅
3F/3FM
4F
FV
K²³₂₅
ASC
RE
QE
ST
KA
XQ
AQ



Specification

Model	3E1	3E2	4E1	4E2	4E2C, P, R
Bore No.	15A				
Port size	1/2"				
No. of port	3		5		
No. of position	2			3	
Medium	Air (to be filtered by 40μm filter element)				
Operating perssure range	0.2~0.8MPa			0.3~0.8MPa	
Operating pressue (LP)	0~0.8MPa				
External pilot pressure (LP)	0.2~0.8MPa			0.3~0.8MPa	
Proof pressure	1MPa				
Effective orifice	60mm ²		50mm ²		30mm ²
Ambient temperature	-5~+50℃ (No freezing)				
Response time	50ms				
Voltage	AC110V, 220V(50/60)Hz, DC24V				
Power consumption	AC=4.8/4.4VA, 6/4.9VA DC2W				
Available voltage range	±10%				
Insulation class	F Class				
Weight	353g	437g	330g	452g	634g

Symbol



Ordering code

MVSC 460 4 E2 C NC AC110

Model **Body width**

No. of port

3 3 way (3 port)
4 4 way (5 port)

Coil

E1 Single solenoid
E2 Double solenoid

No. of position

C Closed center
P Pressure center
R Exhaust center
(Only for 4E2 type)

Acting type

NC Normally closed
NO Normally open
(Only for 3E1 type)

Voltage

AC220V(50/60)Hz
AC110V(50/60)Hz
DC24V

Electrical entry

Blank	DIN connector
L	DIN connector with LED indicator
E	Explosion protection (Table 1)

(E type use black coil)

Pilot type

LP External pilot

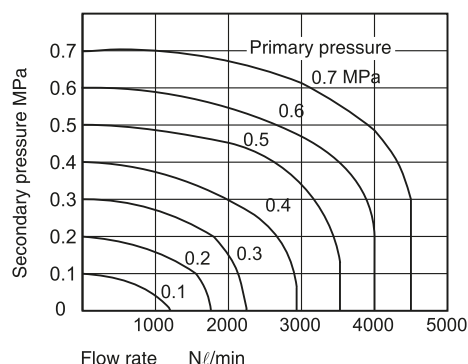
Thread type

Blank	G thread
Rc	Rc thread
NPT	NPT thread

Table 1 Property for explosion-proof type

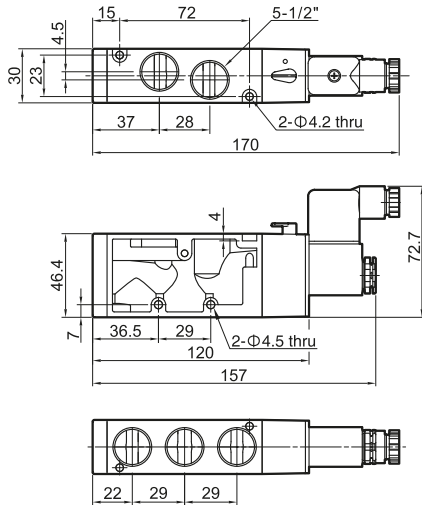
Anti-explosion class	EEx m II T4
Voltage	AC110V, 220V(50/60)Hz, DC24V.
Power consumption	AC=4.4VA DC=5W
Available voltage range	±10%
Insulation class	F class
Wire length	3 m

Flow features

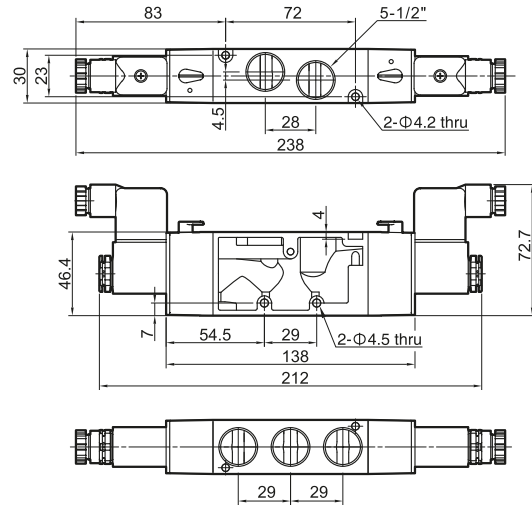


Dimensions

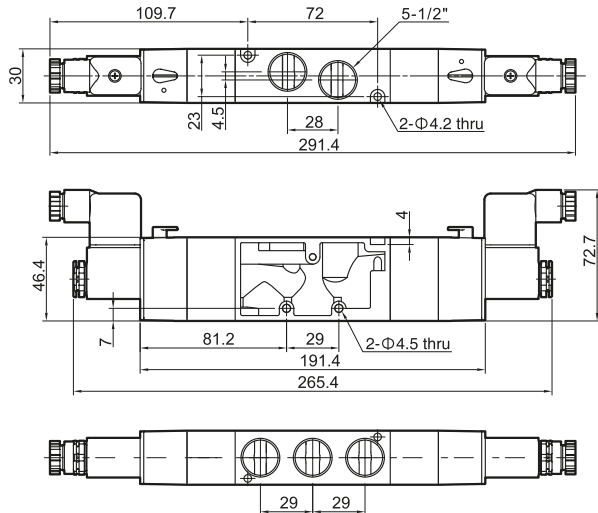
MVSC-460-4E1



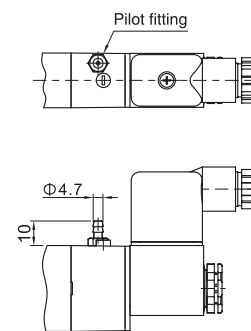
MVSC-460-4E2



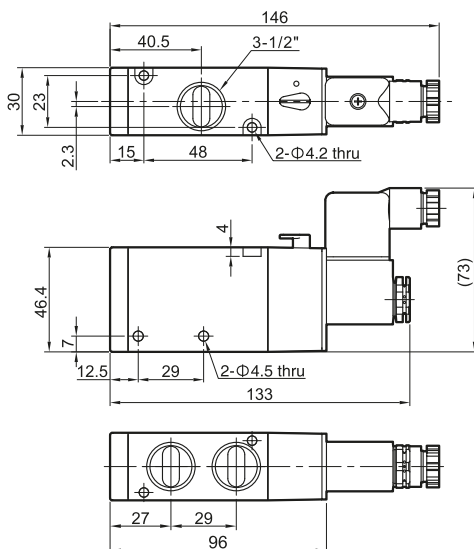
MVSC-460-4E2C.P.R



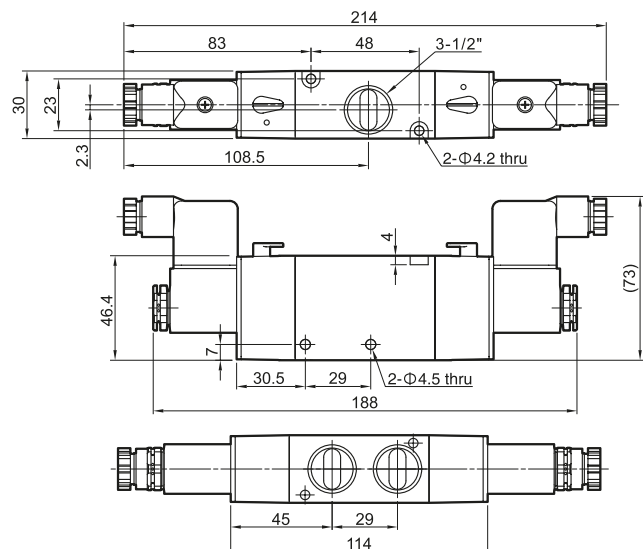
LP



MVSC-460-3E1-NC/NO



MVSC-460-3E2



Valve

3V1
3V2
3V2M
3V3
3V100
3V200
3V300
4V100
4V200
4V300
4V400
HY-S1
HY-S2
HY-S3
HY-S4
4M
3V Manifold
4V Manifold
Coil
3A100
3A200
3A300
4A100
4A200
4A300
4A400
3A Manifold
4A Manifold
VF3000
VF5000
SY
SY Manifold
MVSD-180
MVSC-220
MVSC-260
MVSC-300
MVSC-460
HB10
3H
4H
TSV
3R
4R
HSV
4HV/4HVL
HV
K ²⁴ ₃₄
MOV
JM
MSV
XQ ²³ ₂₅
3F/3FM
4F
FV
K ²³ ₂₅
ASC
RE
QE
ST
KA
XQ
AQ