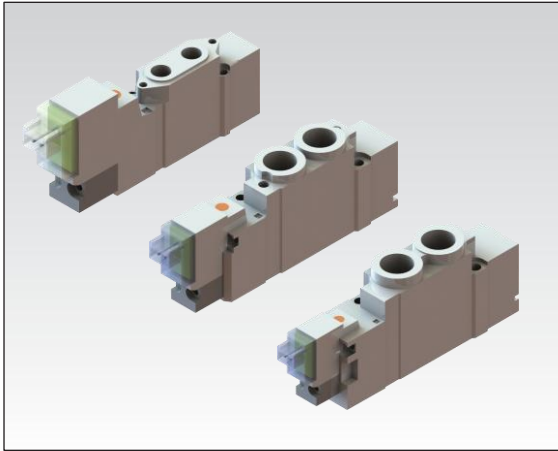


DV1/3/4000 - R Series

5 Port Pilot Solenoid Valve



● Quick Response Time & Large Flow Rate

- Response time under 12ms (for DV1000)
- Increased effective orifice area

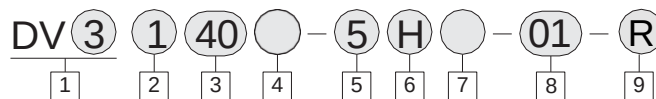
● High Reliability

- Long lifespan
- Equipped with wear ring → Prevents uneven pool wear
- Use of U-packing → Minimizes friction resistance
- Piston Return mechanism adopted for reliable return

● Product Versatility

- Standard with collective exhaust structure
- Available with built-in fitting type (for body ported type)

How to order



(1) Series

- 1 : DV1000 Series
- 3 : DV3000 Series
- 4 : DV4000 Series

(2) Actuation

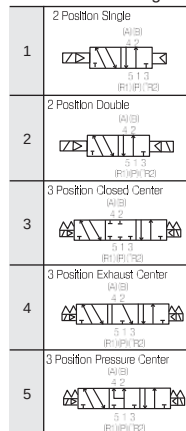
- 1 : Single Solenoid
- 2 : Double Solenoid
- 3 : Closed Center
- 4 : Exhaust Center
- 5 : Pressure Center

(3) Piping

- 20 : Body Ported
- 40 : Base ported

※ Built-in fitting is only available with body ported type

Standard Circuit Diagram



(4) Pilot type

Blank : Internal pilot

(5) Voltage

- 5 : DC24V
- 6 : DC12V

(6) Connector

- V : Vertical
- H : Horizontal

(7) PCB Type

Blank : Standard type(Lamp, Surge protection type)

(8) Port size

Body ported

- M5 : M5 x 0.8 (DV1000 Series)
- 1. : Rc(PT)1/8 (DV3000 Series)
- 2. : Rc(PT)1/4 (DV4000 Series)

Base ported (w/ sub plate, A, B ports)

- M5 : M5 x 0.8 (DV1000 Series)
- 02 : G1/4 (DV3000, 4000)

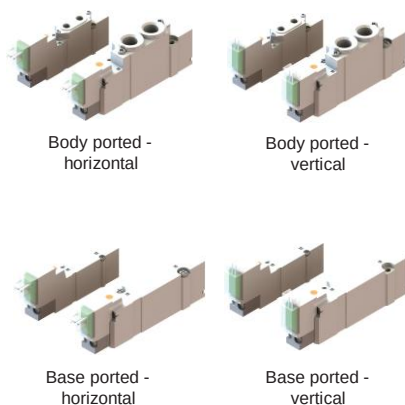
※ Built-in fitting option(Body ported)

Symbol	Description	Series
blank	No fitting	All series
T4	Ø4 one-touch Fitting	DV1000 Series
T6	Ø6 one-touch Fitting	
T4	Ø4 one-touch Fitting	DV3000 Series
T6	Ø6 one-touch Fitting	
T8	Ø8 one-touch Fitting	DV4000 Series
T8	Ø8 one-touch Fitting	
T10	Ø10 one-touch Fitting	

(9) Option

R : Revolution

Available types



Specifications

Series		DV1000	DV3000	DV4000	
Action		5 Port Pilot Type Solenoid Valve(Rubber Seal)			
Fluid		Air			
Operating Pressure Range(MPa)	2Position Single	0.15~0.7			
	2Position Double	0.1~0.7			
	3 Position	0.2~0.7			
Ambient and Fluid Temp.°C		MAX. 50°C(Non freezing)			
Manual Override		Push & Lock Type			
Lubrication		Not Required			
Mounting		Free			
Max. Operating Frequency(Hz)	2 Position	10	8	8	
	3 Position	3	5	5	
Protection Structure		Dust Proof			
Lead Electrical Entry		Connector (H:Horizontal,V:Vertical)			
Voltage		DC24V, DC12V			
Voltage Allowance		-10(%)~+10(%)of Rated Voltage			
Response Time(ms)	at 5kgf/cm ²	H,V	~12ms	~18ms	~30ms
Power Consumption(W)	H,V	DC	Revolution Type : 1.0		

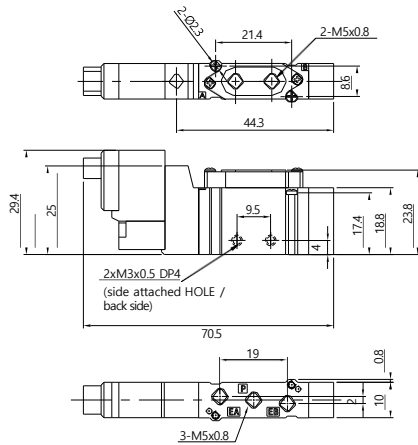
Body Ported Type Effective Orifice and Response Time

Part Number		Port Size Rc(PT)	Acting		Operating Pressure MPa(psi)	Effective Orifice mm ² (Cv)	Response Time ms		
							H,V	G,D,DZ	
DV1120-○M5	DV1120	M5	2	Single	0.15~0.70 (20~100)	3.6 (0.20)	≤ 12	-	
DV1220-○M5	DV1220			Double	0.10~0.70 (14~100)	3.6 (0.20)	≤ 10	-	
DV1320-○M5	DV1320		3	Closed Center	0.20~0.70 (27~100)	3.3 (0.18)	≤ 16	-	
DV1420-○M5	DV1420			Exhaust Center	0.20~0.70 (27~100)	3.3 (0.18)	≤ 16	-	
DV1520-○M5	DV1520			Pressure Center	0.20~0.70 (27~100)	3.6 (0.20)	≤ 16	-	
DV3120-○01	DV3120	Rc(PT) ¼	2	Single	0.15~0.70 (20~100)	9.0 (0.50)	≤ 18	≤ 17	
DV3220-○01	DV3220			Double	0.10~0.70 (14~100)	9.0 (0.50)	≤ 18	≤ 17	
DV3320-○01	DV3320		3	Closed Center	0.20~0.70 (27~100)	5.5 (0.30)	≤ 32	≤ 30	
DV3420-○01	DV3420			Exhaust Center	0.20~0.70 (27~100)	5.5 (0.30)	≤ 32	≤ 30	
DV3520-○01	DV3520			Pressure Center	0.20~0.70 (27~100)	9.5 (0.53)	≤ 32	≤ 30	
DV4120-○02	DV4120	Rc(PT) ¼	2	Single	0.15~0.70 (20~100)	16.2 (0.90)	≤ 30	≤ 38	
DV4220-○02	DV4220			Double	0.10~0.70 (14~100)	16.2 (0.90)	≤ 30	≤ 30	
DV4320-○02	DV4320		3	Closed Center	0.20~0.70 (27~100)	10.8 (0.60)	≤ 50	≤ 56	
DV4420-○02	DV4420			Exhaust Center	0.20~0.70 (27~100)	10.8 (0.60)	≤ 50	≤ 56	
DV4520-○02	DV4520			Pressure Center	0.20~0.70 (27~100)	17.1 (0.96)	≤ 50	≤ 56	

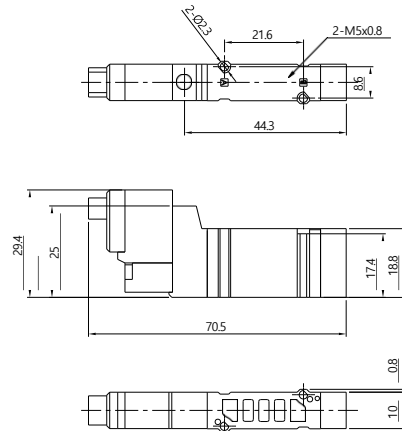
Base Ported Type Effective Orifice and Response Time

Part Number		Port Size Rc(PT)	Acting	Operating Pressure MPa(psi)	Effective Orifice mm ² (Cv)	Response Time ms		
						H,V	G,D,DZ	
DV1140-○M5	DV1140	M5	2	Single	0.15~0.70 (20~100)	3.6 (0.20)	≤ 12	-
DV1240-○M5	DV1240		2	Double	0.10~0.70 (14~100)	3.6 (0.20)	≤ 10	-
DV1340-○M5	DV1340		3	Closed Center	0.20~0.70 (27~100)	3.3 (0.18)	≤ 16	-
DV1440-○M5	DV1440			Exhaust Center	0.20~0.70 (27~100)	3.3 (0.18)	≤ 16	-
DV1540-○M5	DV1540			Pressure Center	0.20~0.70 (27~100)	3.6 (0.20)	≤ 16	-
DV3140-○01	DV3140	Rc(PT) ¼	2	Single	0.15~0.70 (20~100)	9.0 (0.50)	≤ 18	≤ 17
DV3240-○01	DV3240		2	Double	0.10~0.70 (14~100)	9.0 (0.50)	≤ 18	≤ 17
DV3340-○01	DV3340		3	Closed Center	0.20~0.70 (27~100)	5.5 (0.30)	≤ 32	≤ 30
DV3440-○01	DV3440			Exhaust Center	0.20~0.70 (27~100)	5.5 (0.30)	≤ 32	≤ 30
DV3540-○01	DV3540			Pressure Center	0.20~0.70 (27~100)	9.5 (0.53)	≤ 32	≤ 30
DV4140-○02	DV4140	Rc(PT) ½	2	Single	0.15~0.70 (20~100)	16.2 (0.90)	≤ 30	≤ 38
DV4240-○02	DV4240		2	Double	0.10~0.70 (14~100)	16.2 (0.90)	≤ 30	≤ 30
DV4340-○02	DV4340		3	Closed Center	0.20~0.70 (27~100)	10.8 (0.60)	≤ 50	≤ 56
DV4440-○02	DV4440			Exhaust Center	0.20~0.70 (27~100)	10.8 (0.60)	≤ 50	≤ 56
DV4540-○02	DV4540			Pressure Center	0.20~0.70 (27~100)	17.1 (0.96)	≤ 50	≤ 56

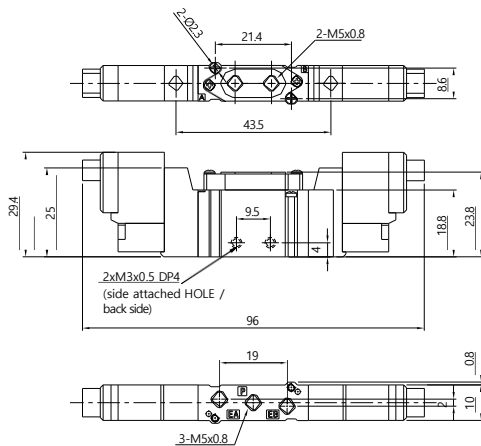
DV1120-R Single/2 Position/Body Ported Type



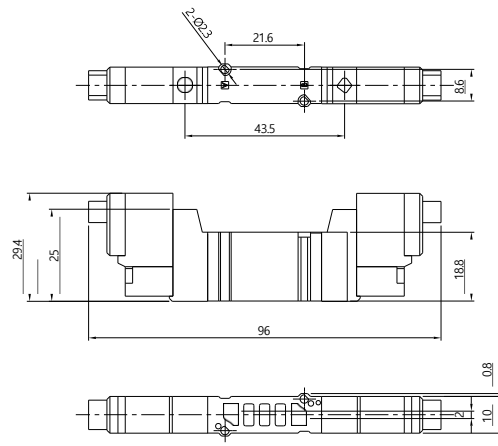
DV1140-R Single/2 Position/Base Ported Type



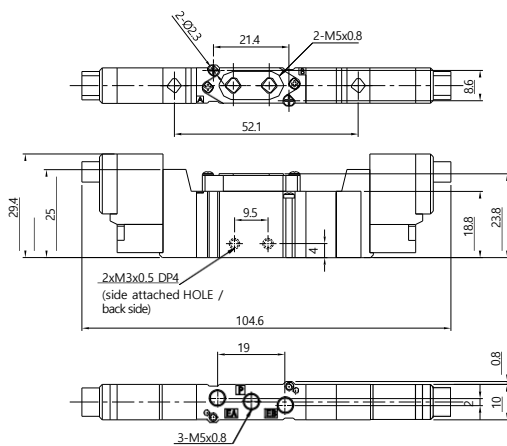
DV1220-R Double/2 Position/Body Ported Type



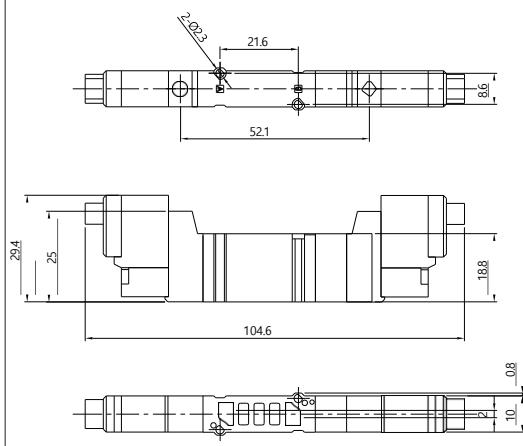
DV1240-R Double/2 Position/Base Ported Type



DV1320/1420/1520-R/3 Position/Body Ported Type

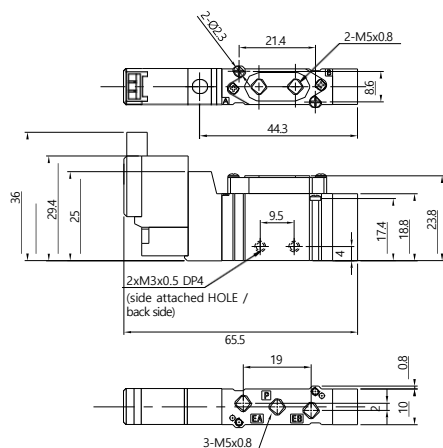


DV1340/1440/1540-R/3 Position/Base Ported Type

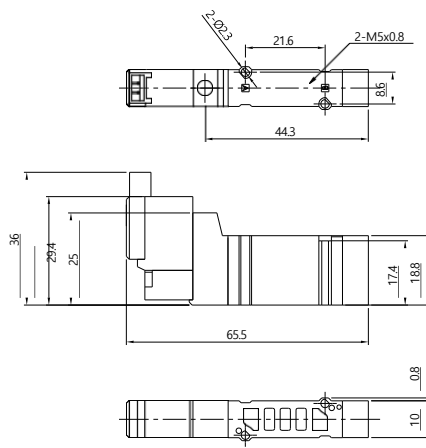


DV1000-R Series / V: Vertical Connector Type

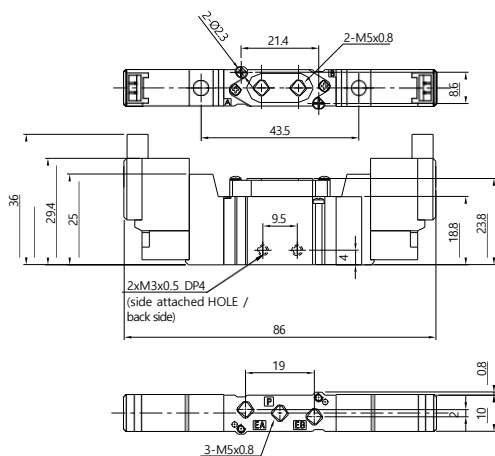
DV1120-R Single/2 Position/Body Ported Type



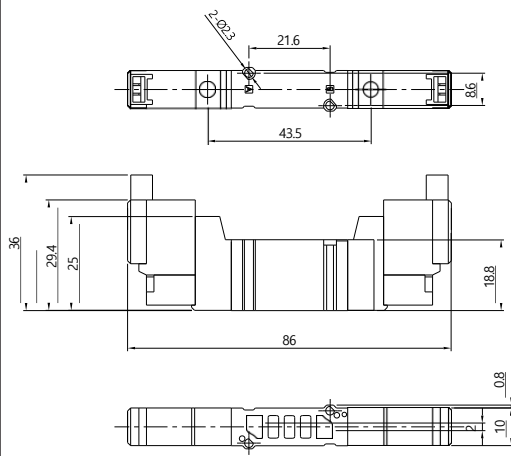
DV1140-R Single/2 Position/Base Ported Type



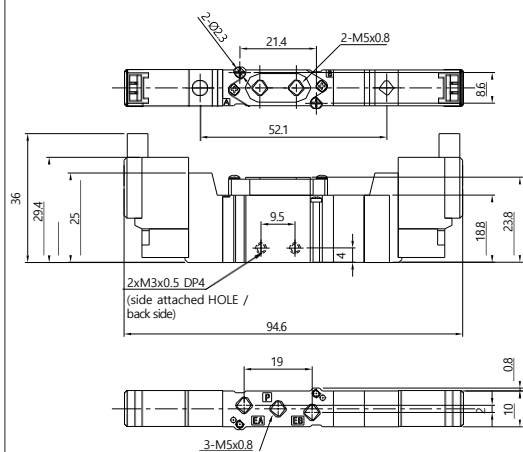
DV1220-R Double/2 Position/Body Ported Type



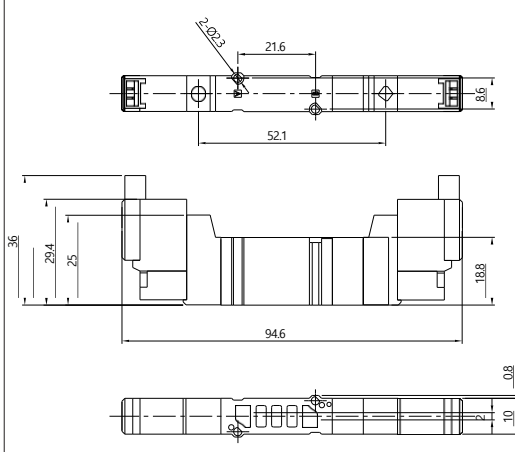
DV1240-R Double/2 Position/Base Ported Type



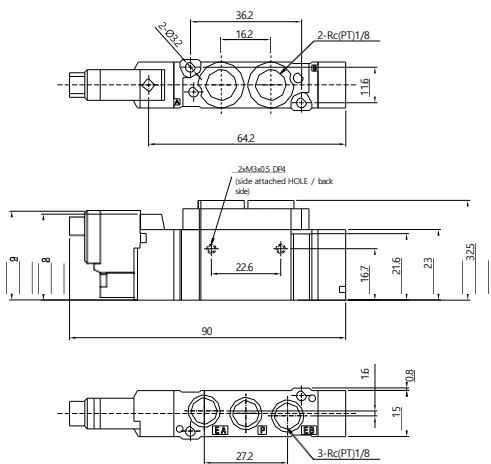
DV1320/1420/1520-R/3 Position/Body Ported Type



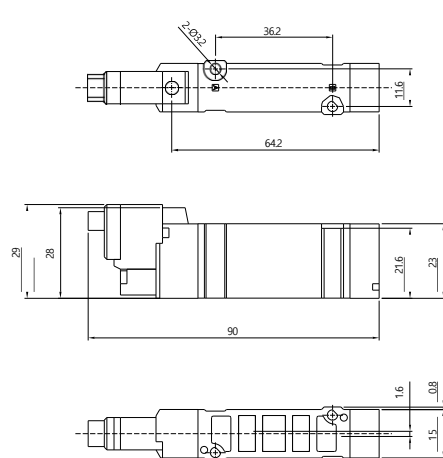
DV1340/1440/1540-R/3 Position/Base Ported Type



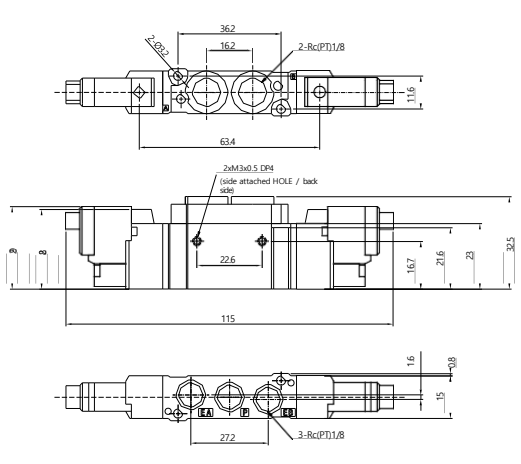
DV3120-R Single/2 Position/Body Ported Type



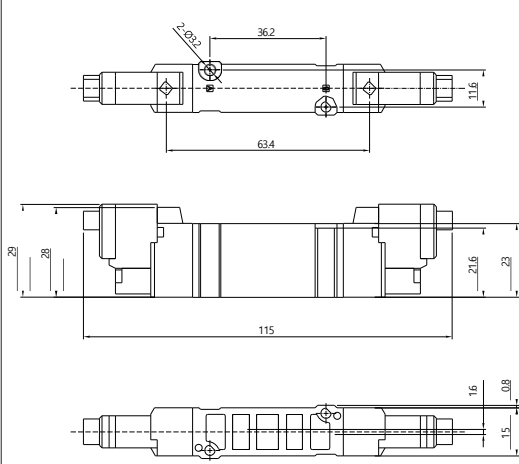
DV3140-R Single/2 Position/Base Ported Type



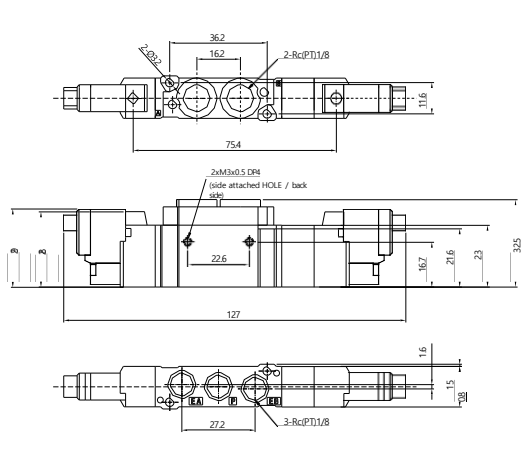
DV3220-R Double/2 Position/Body Ported Type



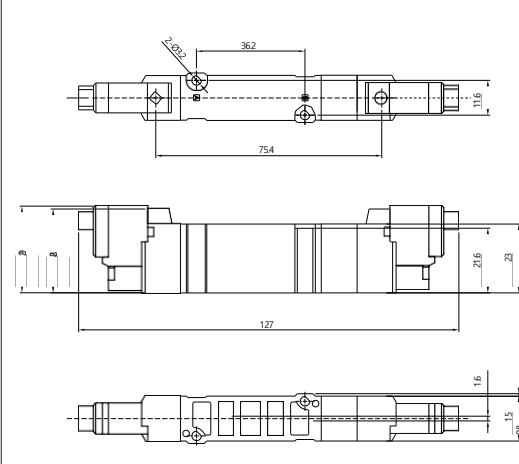
DV3240-R Double/2 Position/Base Ported Type



DV3320/3420/3520-R/3 Position/ Body Ported Type

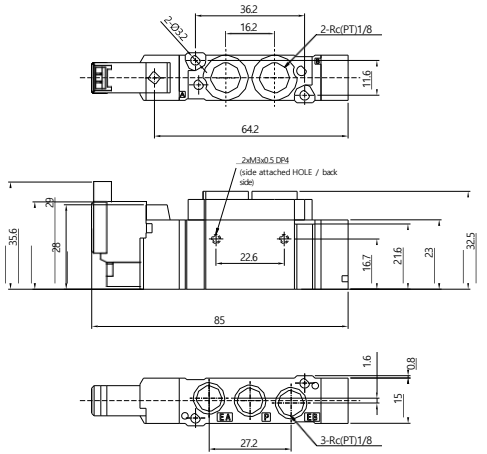


DV3340/3440/3540-R/3 Position/Base Ported Type

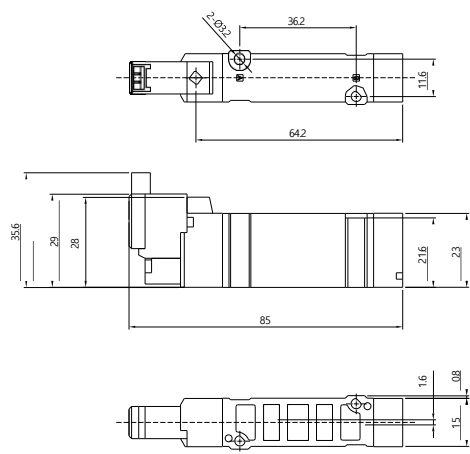


DV3000-R Series / V: Vertical Connector Type

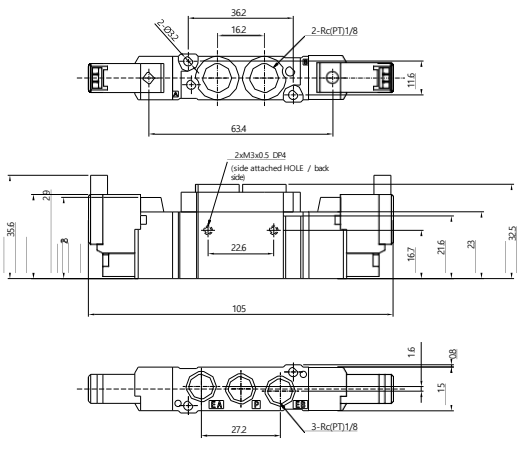
DV3120-R Single/2 Position/Body Ported Type



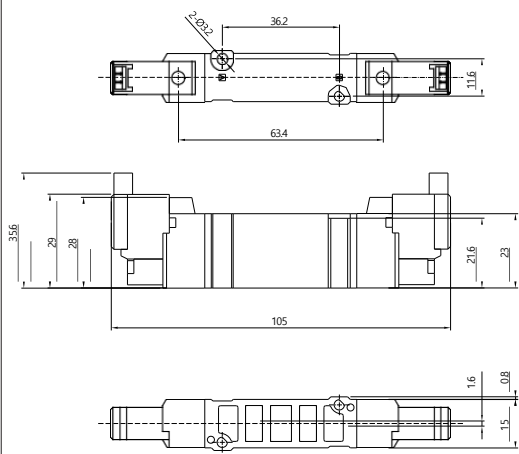
DV3140-R Single/2 Position/Base Ported Type



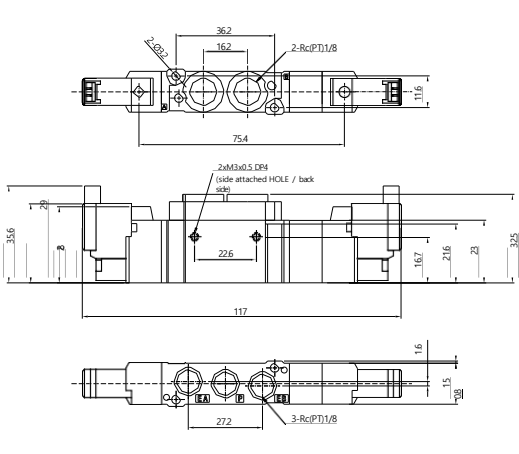
DV3220-R Double/2 Position/Body Ported Type



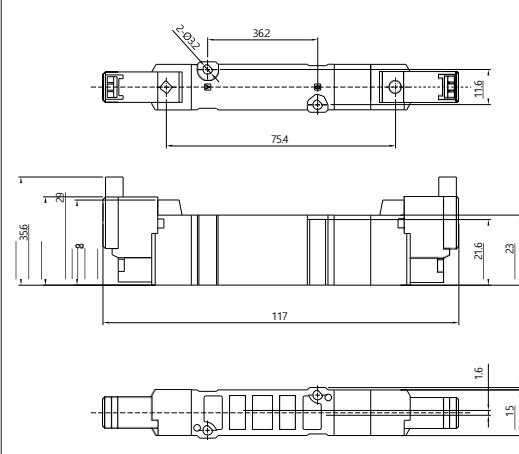
DV3240-R Double/2 Position/Base Ported Type



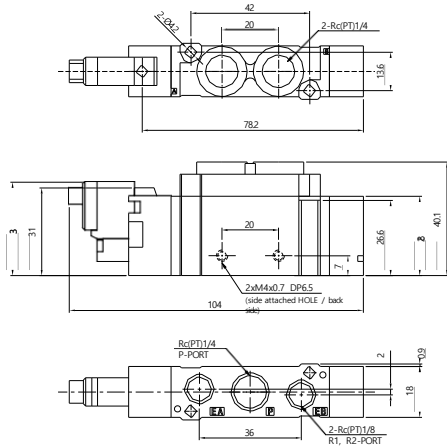
DV3320/3420/3520-R /3 Position/Body Ported Type



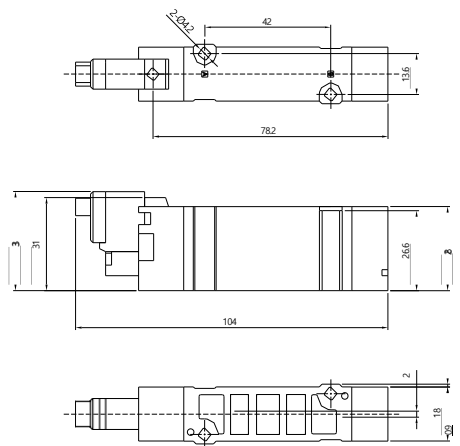
DV3340/3440/3540-R/3 Position/Base Ported Type



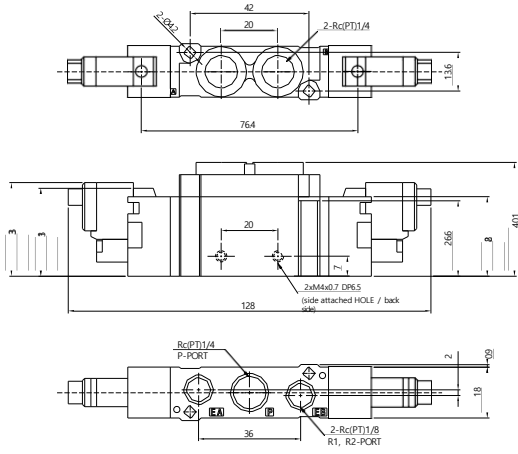
DV4120-R Single/2 Position/Body Ported Type



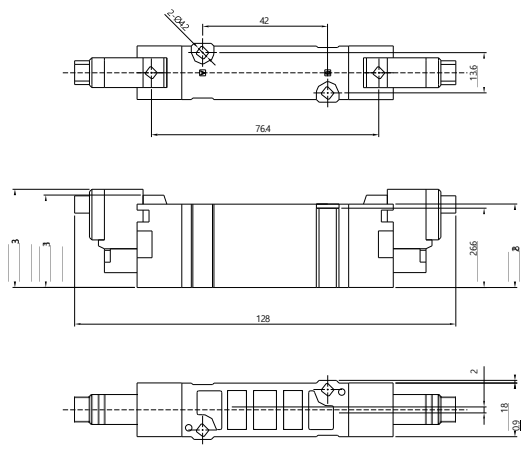
DV4140-R Single/2 Position/Base Ported Type



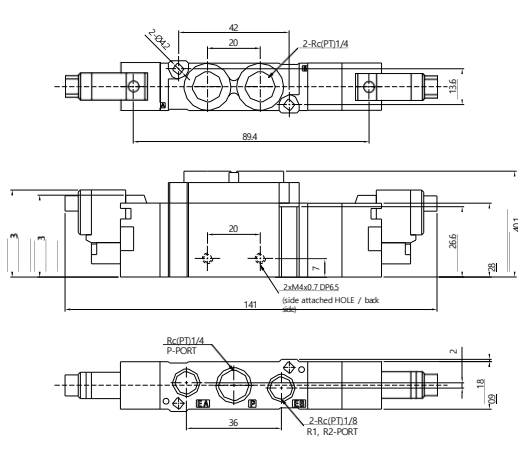
DV4220-R Double/2 Position/Body Ported Type



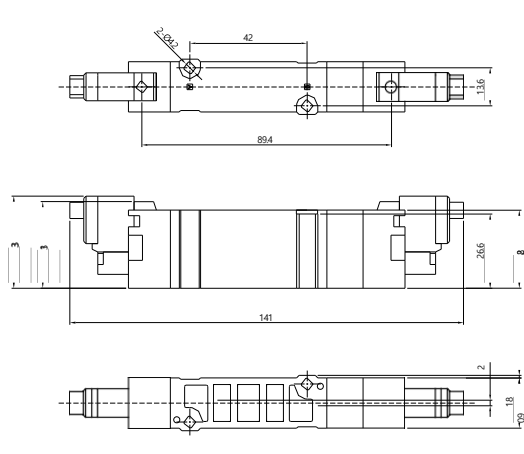
DV4240-R Double/2 Position/Base Ported Type



DV4320/4420/4520-R/3 Position/Body Ported Type

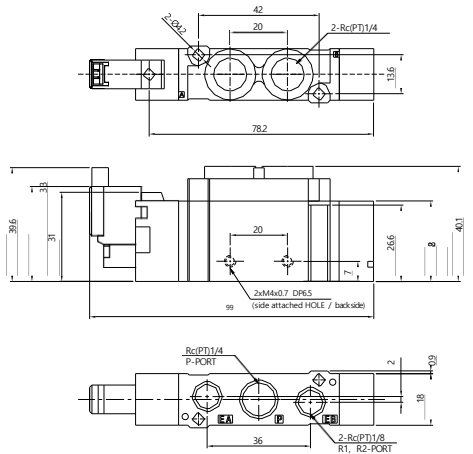


DV4340/4440/4540-R/3 Position/Base Ported Type

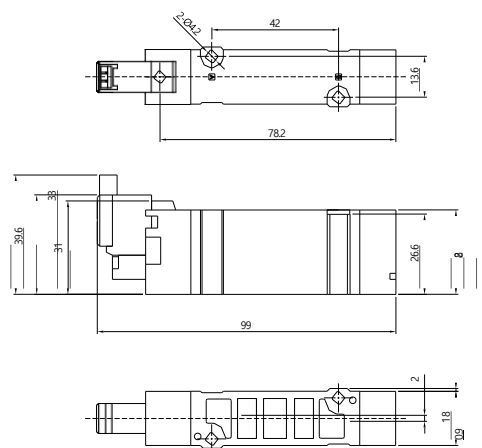


DV4000-R Series /V: Vertical Connector Type

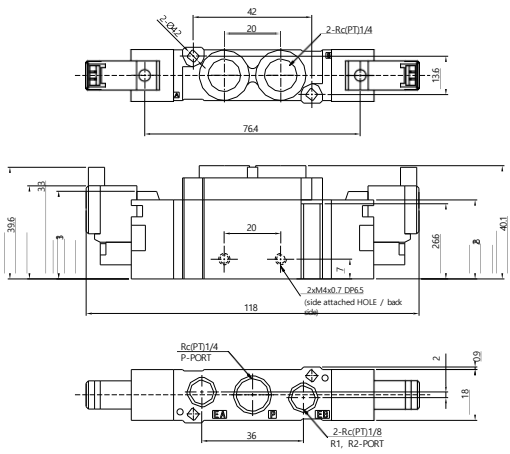
DV4120-R Single/2 Position/Body Ported Type



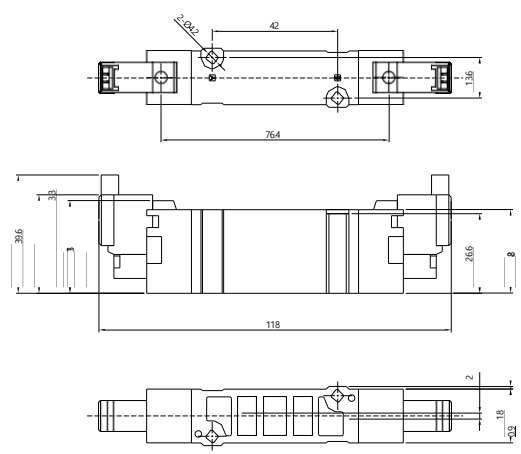
DV4140-R Single/2 Position/Base Ported Type



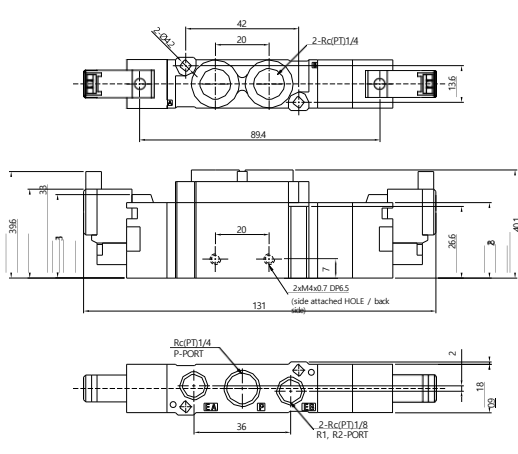
DV4220-R Double/2 Position/Body Ported Type



DV4240-R Double/2 Position/Base Ported Type



DV4320/4420/4520-R/3 Position/Body Ported Type



DV4340/4440/4540-R/3 Position/Base Ported Type

