E-P HYREG®

VY1 Series

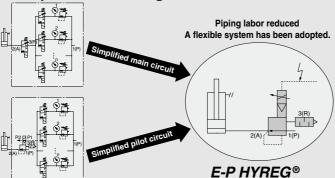
This hybrid regulator combines a regulator and a solenoid valve.

Stepless control through electric signals

Port sizes M5 to 2 inches can be covered by combining an ultra-compact electro-pneumatic pilot valve and a 3 port high-capacity exhaust main regulator.



Simple circuit configuration



Cylinder behavior and pressurization control

Drive and Thrust Control

for peening

Application example
Capable of performing multistage
pressure control and stepless pressure
control by varying the electrical signals.

control by varying the electrical signals.

and stamping Welding pressure control of spot welding gun cylinder Loading cylinder Loading cylinder control balancer

Example Auto balancer

Example Auto balancer

Flow Control of Various Fluids

Ease of handling

Having the amplifier built into the electro-pneumatic pilot valve, only an external power supply and signal (voltage, current) need to be connected.

Manifold capable

Using the VVEXB/2/4 series, a maximum 10 station manifold is possible.

Air Flow Control of Nozzle Note)

Air blowing Air cooling

Pressure Control of Tank

Automatic adjustments

Nozzle

Note) Use for the sonic flow.

Tank

AR425 to 935

ARX

ARM

ARP IR□-A

IR

IRV VEX

SRH

SRP SRF

ITV IC

ITVH

ITVX PVQ

VY1

VBAT AP100

989



For remote control of another air operated valve

E-P HYREG® VY1 Series





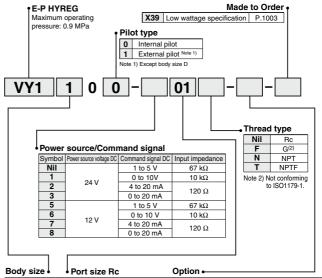
Symbol



External pilot



How to Order



Mounting	Symbol	Symbol	Port 1(P), 2(A) Port 3(R)	B (Bracket)	F (Foot)	G (Pressure gauge)	N (Silencer)	Applicable pilot valve
	D	00	Without sub-plate		_	_	_	
		M5	M5		_	_	•	
		00	Without sub-plate					
	В	M5	M5	_	_	•	_	
		01	1/8					
Base		00	Without sub-plate			•		
mounted	2	01	1/8	_	_		•	VY1D00- □00 ⁽⁵⁾
mountou		02	1/4					
		00	Without sub-plate					
	4	02	1/4	_	_		•	
		03	3/8				•	
		04	1/2					
	Α	M5	M5	• (3)	• (3)	_		
	1	01	1/8	(3)	(3)		•	
		02	1/4					
		02	1/4					
	3	03	3/8	•	_	•	•	
Body ported		04	1/2					
, μ	_	04	1/2	_		_	_	
	5	06	3/4	•	_	•	•	
		10	1					VY1B00-
	7	10	1 11/4	•	_	•	•	□ 00 (5)
		12	11/4					
		14	1 1 1/2	1		1		1

20 Note 3) Only bracket or foot may be mounted.

Note 4) When replacing the pilot valve, it may not satisfy characteristics such as accuracy, etc. Confirm the product works under the operating conditions before using. If SMC is requested to repair the product, SMC confirms whether characteristics are satisfied.

Note 5) \square in the applicable pilot valve part number is designated for the power source/command signal. Note 6) Cut off the command signal when the pressure control on the outlet side is not required, such as when the line is temporarily halted, etc. Refer to Specific Product Precautions on page 1006.



ARJ AR425 to 935 ARX AMR ARM ARP IR□-A IR IRV

VEX

SRH

SRP

SRF ITV IC ITVH

ITVX PVQ VY1 VBA VBAT AP100

Standard Specifications

Model		VY1D00	VY1A0	VY1	B0 i	VY1	10 Y	VY	120°	V١	/13	0 ^º	ا V	14	0 i	V۱	/150)¦	VY1	701	VY1	90 i
	Port	M5	M5	M5	01	01	02	01	02	02	03	04	02	03	04	04	06	10	10	12	14	20
Port size	1(P) 2(A)	M5	M5	M5	1/8	1/8	1/4	1/8	1/4	1/4	3/8	1/2	1/4	3/8	1/2	1/2	3/4	1	1	11/4	1½	2
	3(R)																		$1\frac{1}{4}$		2	
Weight (kg) (1)		0.11	0.16	0.	19	0.	25	0.	35	(0.55	;	(0.75	,		1.5		2	2	4	4
Hysteresis (2)		0.009 MPa				0.023	МРа						0.0	27 N	1Pa				0.045	MPa		
Sensitivity (2)		0.005 MPa				0.009	MPa						0.0	14 N	1Pa				0.018	MPa		
Repeatability (2)		\pm 0.005 MPa			:	± 0.00	9 MPa	a					± 0.	009 I	ИРа			4	0.01	в МРа	l	
Response time (2)		10 ms							30	ms												
Fluid									Α	ir												
Ambient and fluid temp	perature						0 t	o 50°0	(No	cond	dens	satic	n)									
Maximum operating p	ressure								0.91	ИРа												
Regulating pressure	e range					0.05	to 0.8	4 MPa	(Sup	ply p	pres	sure	0.9	MF	a)							
External pilot press	sure	— (Direct operated)				Set	press	ure +	0.04 t	o 0.9	9 MI	Pa (VY1	□01)							
Command signal (3	3)				1 to	5 VDC	, 0 to	10 VD	C, 4 to	o 20	mΑ	DC	, 0 t	o 20	mA	\ DC	;					
Power supply						12 V	'DC±1	0%, 2	4 VDC	C ±1	0%,	1.8	W o	r les	ss							
Electrical entry DIN terminal																						
Applicable cable Cable O.D. ø4 to 6.5																						
Bleed air flow (Pilot EXH port) When not operating: Zero, When operating: 10 L/min (ANR) (Supply pressure 0.9 M					.9 MP	a)																
Installation	Universal																					
Lubrication								N	ot req	uire	d (4)											

Note 1) The mass of the base mounting type (D/B/2/4 size) with sub-plate is indicated.

Note 2) All property values indicate maximum values.

Note 3) Cut off the command signal when the pressure control on the outlet side is not required, such as when the line is temporarily halted, etc. Refer to Specific Product Precautions on page 1006.

Note 4) To lubricate the outlet side of "VY", use "VY" as an external pilot. Avoid lubrication to the pilot air.

Note 5) The non-lubricated specification is not applicable to these models.

Note 6) The service life is approximately 4000 to 5000 operating hours. (When using AF + AFM)

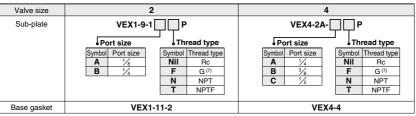
This may be approximately 3000 hours with ultra-dry air (dew point -40°C or equivalent).

Ontion

- P											
						Par	t no.				
Description		VY1D00	VY1A0 ₁	VY1B0 ₁	VY110 ⁰	VY120 1	VY130 1	VY140 ⁰	VY150 1	VY170 1	VY190 1
Bracket	В	_	VEXA-18-2A	_	VEX1-18-1A		VEX3-32A		VEX5-32A	VEX7-32A	VEX9-32A
(With bolt, washer)	F	_	VEXA-18-3A	_	VEX1-18-2A	_	_		_	_	_
Pressure gauge	G	_	_	G27-10-R1-X207	G27-10-01		G36-10-01	_		G46-10-01	
Pilot EXH port silencer	N	AN120-M5	_	_	AN12	.0-M5	AN101-01	AN120-M5	AN210-02		

Sub-plate and Base Gasket Part No

Sub-plate and base Gasket Part No.								
Valve size	D	В						
Sub-plate	VEXD-5 (Port size: M5)	VEXB-2-2 P Port size Thread type						
		Symbol Port size A M5 B ½ Symbol Thread type NiI Rc F G (?) N NPT T NPTF						
Base gasket	VYD-7	VEXB-4-1						



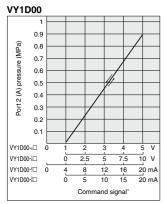
Note 7) Not conforming to ISO1179-1.

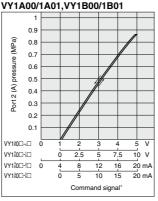


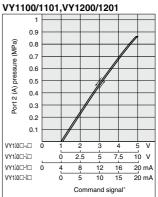
Characteristics

Command Signal — Outlet Pressure Characteristics (Characteristics of pressure setting)

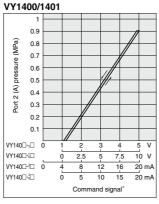
Port 1(P) Pressure 0.9 MPa (-X39: 0.7 MPa)

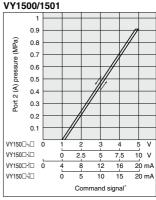




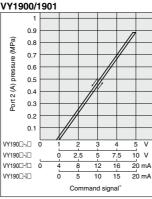


VY1300/1301 0.9 2 (A) pressure (MPa) 0.8 0.5 0.4 0.3 0.2 VY130□-₅□ 5 VY130□-¦□ 0 2.5 5 7.5 10 V VY130□-∄□ 8 12 16 20 mA VY130□-3□ ___ 20 mA Command signal





VY1700/1701 0.9 Port 2 (A) pressure (MPa) 0.8 0.6 0.4 0.2 0.1 VY170□-₅□ 4 5 VY170□-¦□ 0 2.5 5 75 10 \/ VY170□-3□ 8 16 20 mA VY170□-%□ 0 10 20 mA Command signal



Command signal voltage (current) for starting the operation of a pilot valve VY1D00 (-X39) (direct operated) (There is dispersion in the following range)

Symbol (1)	Input signal	Operation start range
Nil, 5	1 to 5 VDC	0.93 to 1.07 VDC
1, 6	0 to 10 VDC	0.01 to 0.1 VDC
2, 7	4 to 20 mA DC	3.7 to 4.3 mA DC
3, 8	0 to 20 mA DC	0.02 to 0.2 mA DC

Note 1) Enter symbols above ☐ in VY1D00-□**. ☐ indicates power supply and a command signal.

Note 2) Other body sizes add the dispersion on the above data when the main valve activates.

^{*} For the command signal range of the low wattage specification (X39), refer to the specifications on page 1003.

ARJ

AR425 to 935

ARX AMR ARM

ARP IR□-A

IR

IRV VEX

SRH SRP

SRF ITV

IC

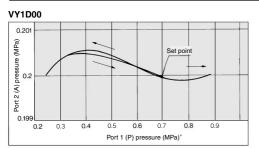
ITVH

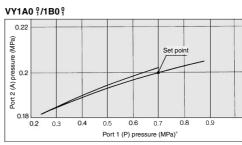
ITVX

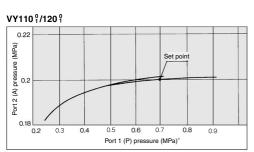
VY1
VBA
VBAT

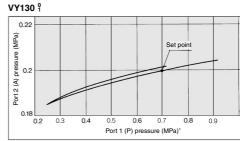
AP100

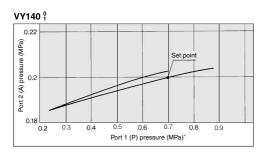
Pressure Characteristics

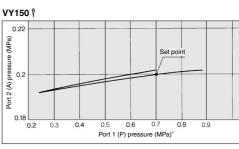


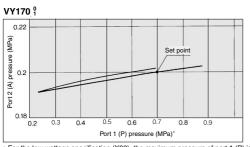


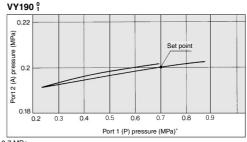








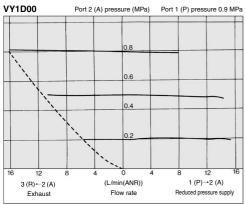


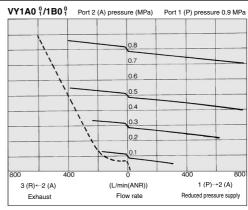


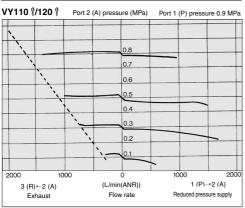
 $[\]ast$ For the low wattage specification (X39), the maximum pressure of port 1 (P) is 0.7 MPa.

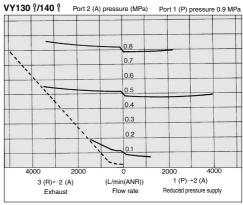
Characteristics

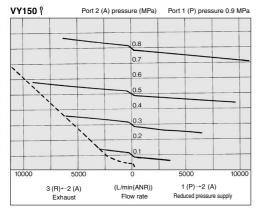
Flow Rate Characteristics

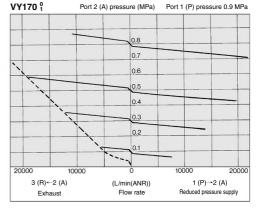


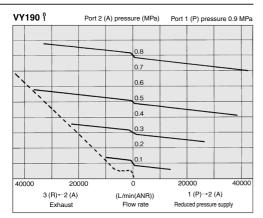


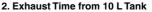


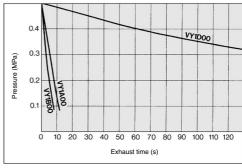






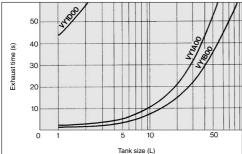




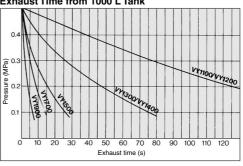




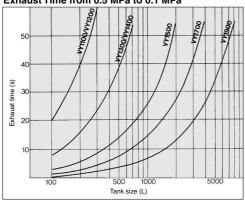
1. Exhaust Time from 0.5 MPa to 0.1 MPa



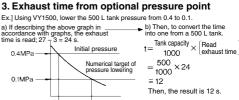
Exhaust Time from 1000 L Tank



Exhaust Time from 0.5 MPa to 0.1 MPa



Exhaust time



PVQ VY1

ARJ

AR425

to 935

ARX

AMR

ARM

ARP

IR□-A

IR

IRV

VEX

SRH

SRP

SRF

ITV IC

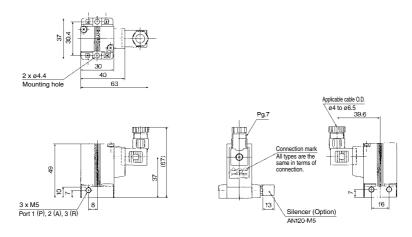
ITVH

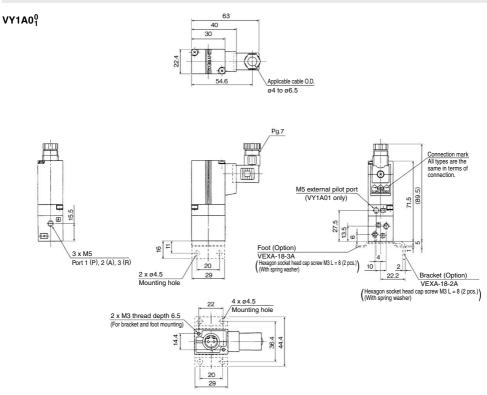
ITVX

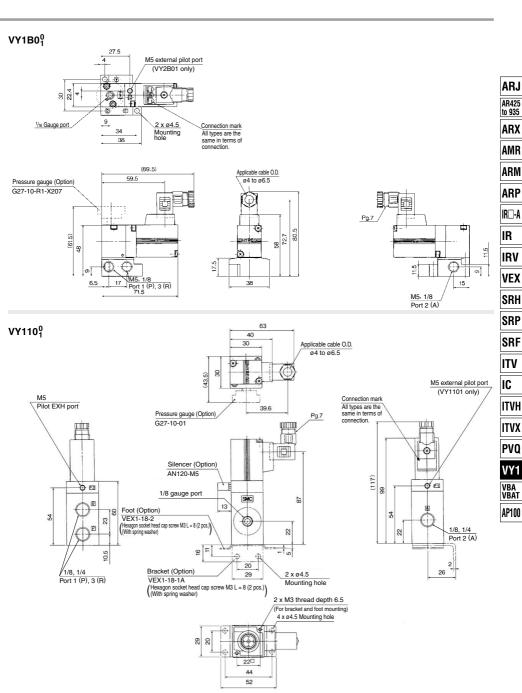
VBA VBAT AP100

Dimensions

VY1D00

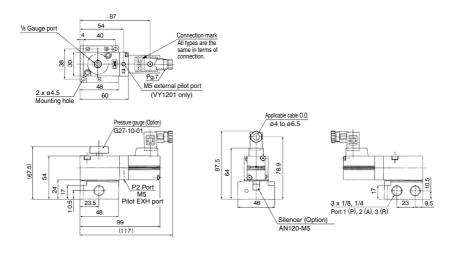




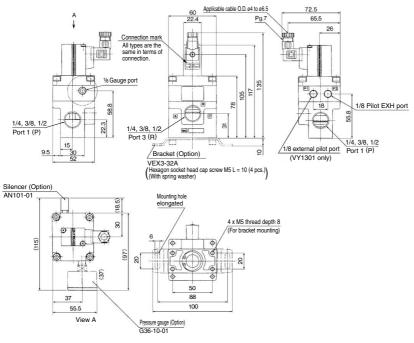


Dimensions

VY1200



VY1301



ARJ AR425 to 935 ARX

AMR

ARM

ARP IR□-A

IR

IRV

VEX

SRH SRP

SRF

IC ITVH

ITVX

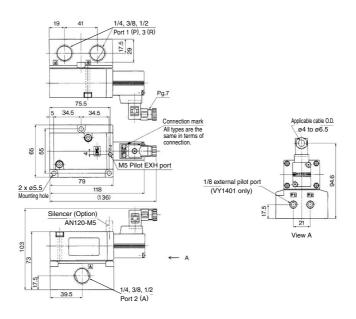
PVQ

VY1

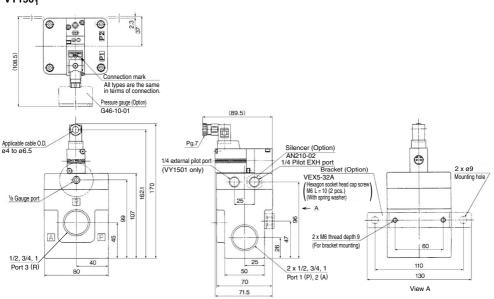
VBA VBAT

AP100

VY140⁰

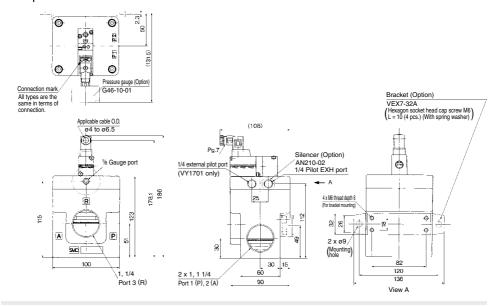


VY1501

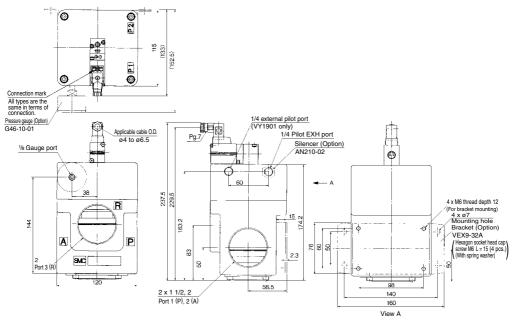


Dimensions

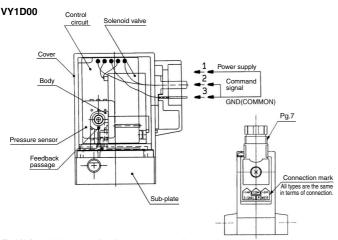
VY1701



VY1901



Construction/Component Parts/Working Principle



The VY1D00, which is the smallest direct drive, consists of a solenoid, pressure sensor, control circuit, body cover, and a sub-plate. The type with sub-plate can be used alone, and the type without sub-plate can also be used as a pilot valve.

Working principle

- When the command signal is below 1 VDC, (refer to page 992) the solenoid valve is inactive, and the port 2(A) pressure is zero.
- inactive, and the port 2(A) pressure is zero.

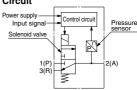
 When a command signal between 1 and 5
 VDC is provided, the solenoid is activated.
- The port 2(A) pressure is fed back to the control circuit by the pressure sensor.
 The control circuit compares the feedback
- I he control circuit compares the feedback signal with the size of the command signal that was provided, and:
 1) If the feedback signal is smaller, current
 - is supplied to the solenoid valve to raise the port 2(A) pressure [from 1(P) to 2(A)].

2(YI).

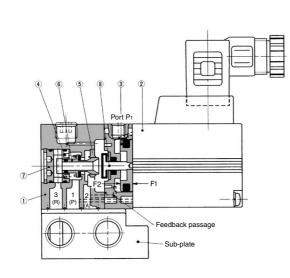
2) If the feedback signal is greater, current is not supplied to valve to reduce the port 2(A) pressure [from 2(A) to 3(R)].

The above processes 1) and 2) are repeated at high speeds to set the ont 2(A) pressure.

Circuit



VY1A0₁, VY1B0₁ (Pilot valve: VY1D00-□00)



Working principle

- The supply [1(P) to 2(A)] valve of valve 6: and the exhaust [2(A) to 3(R)] valve close due to the balance between actuating forces F1 and F2. Actuating force F1 is applied to the right surface of pressure regulation piston ③ by the pilot pressure (pilot valve assembly ②: VY1D00-□00), and actuating force F2 is applied to the left surface of the pressure regulation piston by the port and pressure that passes through the feedback passage. Thus, the port 2(A) pressure that coprersponds to the pilot pressure is established.
- •When the port 2(A) pressure becomes higher than the pilot pressure, F2 becomes greater than F1. This causes only the pressure regulation piston to move to the right, and the exhaust valve seat to open, allowing the air to be discharged from port 2(A) to port 3(R). When the port 2(A) pressure drops to reach a balance, the regulator returns to the set state.
- •Conversely, if the port 2(A) pressure is lower than the pilot pressure, F2 becomes lower than F1. This causes the pressure regulating piston to move the valve to the left, and the supply valve seat to open, allowing the air to be supplied from port 1(P) to port 2(A). When the port 2(A) pressure balances, the regulator reuturns to the set state.

Component Parts

•••		*			
	Description	Material			
1	Body	Zinc alloy die-casted			
2	Pilot valve assembly	_			
3	Adjusting piston	Aluminum alloy			
4	Spring	Stainless steel			
5	Valve guide	Stainless steel			
6	Valve	Aluminum alloy/Rubber			
7	Retainer	Aluminum alloy			
8	Rod	Stainless steel/Rubber			

ARJ

AR425 to 935

ARX AMR

ARM

ARP IR□-A

IR IRV

VEX

SRH SRP

SRF

ITV IC

ITVH

ITVX

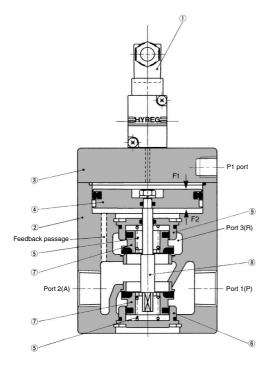
PVQ VY1

VBA VBAT

AP100

Construction/Component Parts/Working Principle

VY110⁰1, VY120⁰1, VY130⁰1, VY140⁰1 (Pilot valve: VY1D00-□00) VY150⁰1, VY170⁰1, VY190⁰1 (Pilot valve: VY1B00-□00)



Working principle

- The pair of poppet valves

 Occope due to the balance between actuating forces F1 and F2. Actuating force F1 is applied to the top surface of pressure regulation piston
 by the pilot pressure (pilot valve assembly
 V1
 Occope 0. Occ
- When the port 2(A) pressure becomes higher than the pilot pressure, F2 becomes higher than F1. This causes the pressure regulation piston to move upward, and the top poppet valve to open, allowing the air to be discharged from port 2(A) to port 3(R). When the port 2(A) pressure drops to reach a balance, the regulator returns to the state shown in the diagram to the left.
- ◆ Conversely, if the port 2(A) pressure is lower than the pilot pressure, F2 becomes less than F1. This causes the pressure regulation piston to move downward, and the lower poppet valve to open, allowing the air to be supplied from port 1(P) to port 2(A). When the port 2(A) pressure rises to reach a balance, the regulator returns to the state shown in the diagram to the left.

Component Parts

No.	Description	Material
1	Pilot valve assembly	_
2	Body	Aluminum alloy
3	Cover	Aluminum alloy
4	Adjusting piston	Aluminum alloy
5	Spring	Stainless steel
6	Valve guide	Aluminum alloy
7	Poppet valve	Aluminum alloy/Rubber
8	Shaft	Stainless steel
9	Valve guide	Aluminum alloy

Made to Order Specifications

Please contact SMC for detailed dimensions, specifications and lead times



ARJ

AR425

to 935

ARX

AMR

ARM

ARP

IR□-A

IR

IRV

VEX

SRH

SRP

SRF

ITV

IC

ITVH

ITVX

PVQ

VY1

VBAT

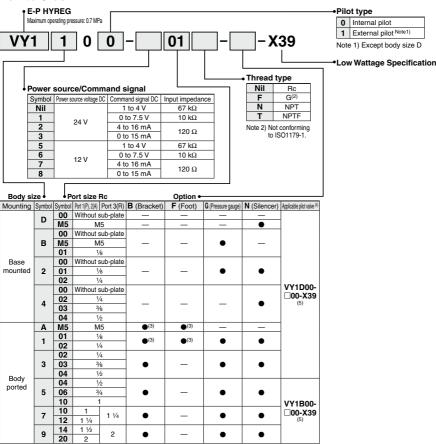
AP100

1 Low Wattage Specification: 0.8 W or less

Symbol -X39

Under operating conditions that the ON time, such as charging to the tank is long, the service life may be shortened due to the heat generation of the product. When the operating pressure is 0.7 MPa or less, it is recommended to use the special product "X39" (Service life: Approx. 7000 operating hours) that is a type of low wattage and suppresses heat generation. Please note that the product characteristics are those with 0.7 MPa or less of the standard specifications.

How to Order



Note 3) Only bracket or foot may be mounted.

Note 4) When replacing the pilot valve, it may not satisfy characteristics such as accuracy, etc. Confirm the product works under the operating conditions before using. If SMC is requested to repair the product, SMC confirms whether characteristics are satisfied.

Note 5) \square in the applicable pilot valve part number is designated for the power source/command signal.

Specifications (Specifications other than those below are the same as the standard type.)

Max. operating pressure (6)	0.7 MPa
Regulating pressure range	0.05 to 0.66 MPa (Supply pressure 0.7 MPa)
External pilot pressure	Set pressure +0.04 MPa to 0.7 MPa
Command signal (7)	1 to 4 VDC, 0 to 7.5 VDC, 4 to 16 mA DC, 0 to 15 mA DC
Power supply	12 VDC ±10%, 24 VDC ±10%, 0.8 W or less
Bleed air flow (Pilot EXH port)	When not operating: Zero, When operating: 7 L/min (ANR) (Supply pressure 0.7 MPa)

Note 6) The supply pressure must be under the maximum operating pressure.

Note 7) Cut off the command signal when the pressure control on the outlet side is not required, such as when the line is temporarily halted, etc. Refer to Specific Product Precautions on page 1006.



If the supply pressure exceeds the maximum operating pressure, this may cause abnormal leakage from the pilot valve or abnormal set pressure to occur.

E-P HYREG® Manifold Specifications

Using the VVEXB/2/4 series, a maximum of 10 stations manifold is possible.





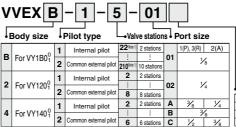
Specifications

Applicable valve	VY1B0 0	VY140 ⁰			
Valve stations (1)	2 to 10 stations	2 to 8 stations	2 to 6 stations		
Passage	Passage Common supply/exhaust				
Pilot type	Internal pilot, Common external pilot (2)				
Pilot port size	M5				
Port size port 1(P), 2(A), 3(R)	1/8	1/4	1/4, 3/8, 1/2		
Blanking plate assembly (3)	VEXB-6	VEX1-17	VEX4-5		

Note 1) VY1B0⁰₁6 stations or more, VY120⁰₁5 stations or more, VY140⁰₁4 stations or more supply pressure to the ports 1(P) on both sides of the manifold and exhaust pressure from the port 3(R) on the both sides.

Note 2) When used as a common external pilot, select the internal pilot specification as an applicable valve. Note 3) Gasket and mounting bolts are equipped.

How to Order



VY manifold pilot type Body size B, 2

Pilot type	Manifold base part no.	Applicable valve part no.
Internal pilot manifold	VVEX□-1-□-□□	VY1□00
Common external pilot manifold	VVEX□-2-□-□□] VIII00
Individual external pilot manifold	VVEX□-□-□-□□	VY1□01

Note) It is recommended to use a common type when the external pilot type is used.

Body size 4

Pilot type	Manifold base part no.	Applicable valve part no
Internal pilot manifold	VVEX4-1-□-□□	VY1400
Common external pilot manifold	VVEX4-2-□-□□	VY1401

Enter the valves and the blank plates to be placed on a manifold in order, starting at the left side of the manifold base (with port 2(A) facing you).

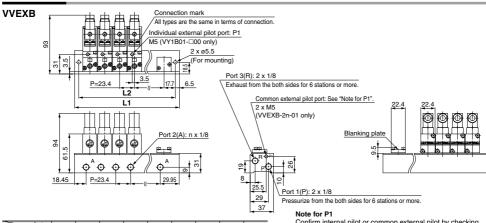
- Ex.) **VVEX2-2-5-02** VY1200-00-G 4 pcs.
- VY1200-00-G = 4 pcs. • VEX1-17 — 1 pc.

Piping thread type

Nil Rc F G Note 2) N NPT T NPTF

- Note 1) In the case of VVEXB, the "2" in the first digit of the valve station number is a dummy part number.
- Note 2) Not conforming to ISO 1179-1.

Dimensions



2 3 4 5 6 7 8 9 10 118.6 142 165.4 188.8 212.2 235.6 259 58.8 82 2 105 6 129 152 4 | 175 8 | 199 2 | 222 6 | 246 ARJ

AR425

to 935

ARX

AMR

ARM

ARP

IR□-A

IR

IRV

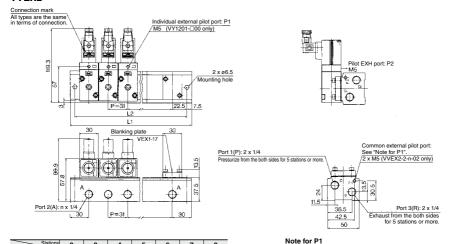
VEX

SRH

SRP

Dimensions

VVEX2



8

Confirm internal pilot or common external pilot by checking whether P1 has a M5 screw or not.

Internal pilot ... P1 has no M5 screw. - P1 has an M5 screw. Common external pilot

VVEX4

Dimension Sta

11

L2

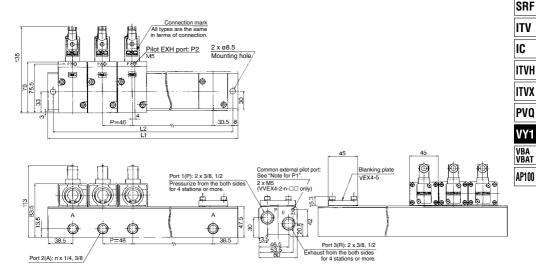
2

76 107 138 169 200 231 262

4

153 184 215 246 277

122 91



Dimension Stations	2	3	4	5	6
L1	123	169	215	261	307
L2	107	153	199	245	291

Note for P1

Confirm internal pilot or common external pilot by checking whether P1 has a M5 screw or not.

Internal pilot P1 has no M5 screw.

Common external pilot-----... P1 has an M5 screw.



VY1 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and each Best Pneumatics for Precautions on every series.

Piping

∧ Caution

Tightening the fittings and their torque

When screwing fittings into the valves, make sure to tighten them to the proper torque values given below.

Connection thread: M5

First, tighten by hand, then use a wrench appropriate for the hexagon flats of the body to tighten an additional 1/6 to 1/4 turn.

A reference value for the tightening torque is 1 to 1.5 N·m.

For the fitting with sealant R or NPT, first, tighten it by hand, then use a
wrench appropriate for the hexagon flats of the body to tighten it a further
two or three turns. For a tightening torque quide, refer to the table below.

Connection thread size (R, NPT)	Proper tightening torque (N·m)
1/8	3 to 5
1/4	8 to 12
3/8	15 to 20
1/2	20 to 25
3/4	28 to 30
1	36 to 38
1 1/4	40 to 42
1 1/2	48 to 50
2	48 to 50

Operating Fluid

∧ Caution

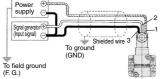
- 1. If drainage or debris is present in the supply pressure line, the sliding resistance of the main valve or piston, etc. increases, resulting in a malfunction. Therefore, in addition to the air filter (SMC's AF series), make sure to use a mist separator (SMC's AM, AFM series). Concerning the quality of the operating air, refer to SMC's air preparation equipment selection guide (pages 2 and 3).
- Make sure to perform a maintenance periodically on air filter and mist separator (by discharging the drain and cleaning a filter element or replacing with new one).

Pressure Gauge

For products with pressure gauge, use caution about the durability of a pressure gauge, since it may be affected by the sudden pressure changes during operation.

Wires to be Used

Use 3 core shielded wires measuring 0.5 (mm²) for the power supply and signal lines according to the respective number of conductors. When connecting the shielded braich wire, connect it to the ground of the signal generator. As a rule, the electro-pneumatic hybrid regulator should be installed in a location that is free of noise or is shielded. If it must be installed in an environment with poor noise conditions, eliminate the power supply noise by using a line filter, Z-wrap, or a spark killer on the 100 V power supply or signal source line. The length of the power suply and signal lines must be kept as short as possible.



Terminal	Details of
no.	wire connection
1	Power supply
2	Command signal
3	GND (COMMON)

How to Use DIN Terminal

Wiring procedures

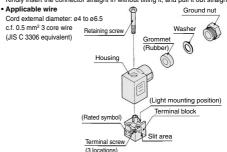
- 1. Loosen the retaining screw and pull the connector from the solenoid valve terminal block.
- Remove the retaining screw, insert a flat head screwdriver into the groove below the terminal block and pry it up to separate the terminal block from the housing.
- 3. Loosen the terminal screws (slot head screws) on the terminal block. Then, in accordance with the wiring procedure, insert the cord of the lead wires into the terminals and tighten the terminal screws to secure in place.
 4. Tighten the ground nut to secure the cord.

· Outlet changing procedure

After the terminal block has been separated from its housing, reassemble the housing in the desired direction (in four 90° increments) to change the direction of the cord outlet.

Precautions

Kindly insert the connector straight in without tilting it, and pull it out straight.



• Connector part no.: VK300-82-1

Input Signal

• Input signal when out of operation

There is dispersion in operation start voltage (current) for the input signal. (Refer to page 992.) if the command signal when out of operation exceeds the lower limit of the operation start voltage (current), the solenoid valve inside the pilot valve starts to activate and may be in the operation state. The service life of this product varies depending on the operating time of the solenoid valve inside the pilot valve. Be sure to cut off the command signal when the pressure control on the outlet is die is not required, such as when the line is temporarily halted, etc. (Refer to "Service Life" below.)

Service Life

▲ Caution

The pilot valve service life is approximately 4000 to 5000 operating hours. (When using AF + AFM) This may be approximately 3000 hours with ultra-dry air (dew point -40°C or equivalent). For the low wattage specification (X39), the service life is approximately 7000 operating hours. (When using AF and AFM)

Bleed

Since the pilot solenoid valve enters the normally operating status and the air is discharged continuously from the pilot EXH port (port 3 (R) for VY1D00, VY1A0 \square and VY1B0 \square) in the pressure setting status, the bleed sound is produced. However, this is not an abnormal phenomenon.

Related Products:

Silencer (AN series)

- Noise reducing effect: 30 dB or more.
- · Large effective area
- Refer to Best Pneumatics No. 7 for details.

Exhaust cleaner (AMC series)

- · Provides noise reduction and oil mist collecting functions.
- · Can also be used in a common piping system.
- Oil mist recovering efficiency 99.9%
- · Noise reduction efficiency 35 dB or more
- Refer to Best Pneumatics No. 7 for details

