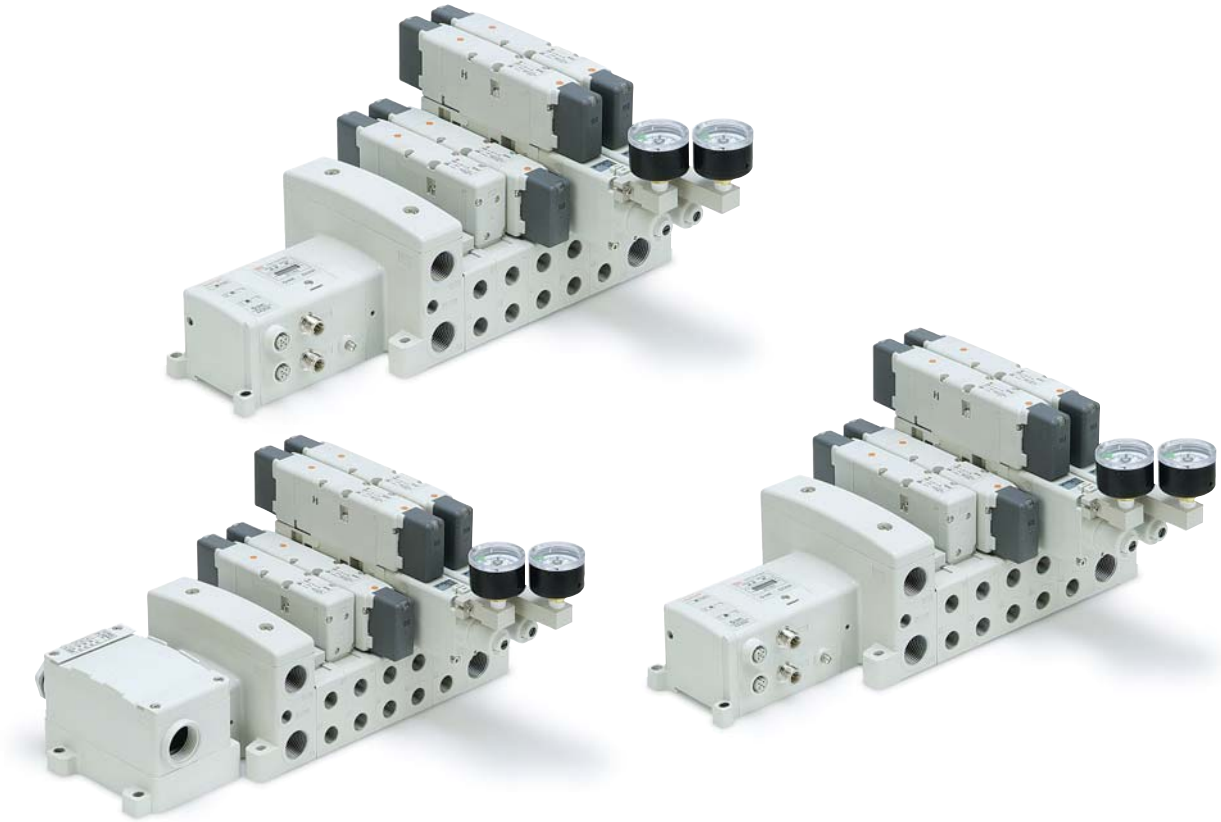
Conforming to ISO 15407-2 (Size 01) Plug-in type

Series VSR8-4/VSS8-4



ISO 15407-2 Interface

Size 01 (VSR/S8-4) Interface conforms to ISO 15407-2

Accommodates enclosure IP65

Dust/Splashproof type

Light weight

Size 01 (3-position): 0.26kg

Large capacity

Model	Flow rate	Cylinder driving size
VSR/S8-4	1000L/min (ANR)	ø100

How to Order Valve (ISO15407-2)

VS R 8 — 4 — FG — S — 3 V Z B R

Type of seal

R	Rubber
S	Metal

Size

4	Size 01

Configuration

FG	2-position
FHG	3-position, Closed center
FJG	3-position, Exhaust center
FIG	3-position, Pressure center

Number of solenoids

S	Single
D	Double

Rated voltage

3	24VDC
4	12VDC
9	Others

Individual pilot exhaust

Light/Surge voltage suppressor

Nil	None
Z	With indicator light/surge voltage suppressor

Manual override

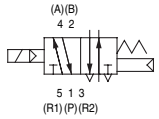
Nil	Non-locking push type (Tool required)
B	Locking push type (Tool required)

Pilot air

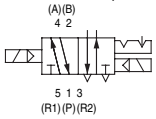
Nil	Internal pilot
R	External pilot

Symbol

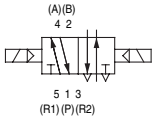
2-position single



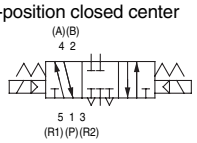
2-position double (metal)



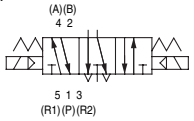
2-position double (rubber)



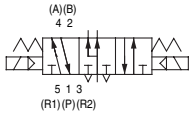
3-position closed center



3-position exhaust center



3-position pressure center



Standard Specifications

			Metal seal	Rubber seal
Valve specifications	Valve type		Metal seal	Rubber seal
	Fluid		Air, Inert gas	
	Ineternal pilot Operating pressure range	Single	0.1 to 1.0 MPa	0.15 to 1.0 MPa
		Double	0.1 to 1.0 MPa	0.1 to 1.0 MPa
		3-position	0.15 to 1.0 MPa	0.2 to 1.0 MPa
	External pilot Operating/Pilot pressure range Note 1)	Operating pressure range	-100 kPa to 1.0 MPa	
		Pilot pressure range: Single	0.1 to 1.0 MPa	0.15 to 1.0 MPa
		Pilot pressure range: Double	0.1 to 1.0 MPa	0.1 to 1.0 MPa
		Pilot pressure range: 3-position	0.15 to 1.0 MPa	0.2 to 1.0 MPa
	Ambient and fluid temperature		–10 to 60C Note 2)	–5 to 60C Note 2)
	Lubrication		Not required (non-lube type)	
	Manual override		Push type (tool required)	
	Impact resistance/Vibration resistance		150, 30ms^2 Note 3)	
	Enclosure		IP65 (Dust/Splashproof type)	
Electric specifications	Rated coil voltage		12VDC, 24VDC	
	Allowable voltage fluctuation		10% of rated voltage	
	Type of coil insulation		Equivalent to class B	
	Power consumption (Current)	24VDC	1W DC (42mA)	
		12VDC	1W DC (83mA)	

≦ Note 1) Operating pressure Pilot pressure

Note 2) Use dry air to prevent condensation at low temperatures.

Note 3) **Impact resistance:** No malfunction resulted during an impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature for both energized and de-energized conditions.

Vibration resistance: No malfunction resulted during an one-sweep test between 8.3 and 2000Hz. The test was performed in the axial and right angle directions of the main valve and armature for both energized an de-energized conditions.

Flow Rate Characteristics

Position		Seal	VSR/S8-4					
			1→4, 2 (P→A, B)			4, 2→5, 3 (A, B→EA, EB)		
			C	b	Cv	C	b	Cv
2-position	Single	Metal	3.10	0.10	0.60	3.40	0.10	0.70
		Rubber	3.60	0.28	0.90	4.20	0.20	1.00
	Double	Metal	3.10	0.10	0.60	3.40	0.10	0.70
		Rubber	3.60	0.28	0.90	4.20	0.20	1.00
3-position	Closed center	Metal	3.10	0.10	0.60	3.20	0.10	0.60
		Rubber	3.20	0.34	0.80	4.20	0.30	1.00
	Exhaust center	Metal	2.70	0.10	0.60	3.30	0.10	0.70
		Rubber	3.10	0.26	0.80	4.00	0.25	1.10
	Pressure center	Metal	3.20	0.10	0.70	3.20	0.10	0.60
		Rubber	4.40	0.25	1.00	3.60	0.25	1.00

How to Order Manifold (ISO15407-2)

VV8 [01] [5] — [03] [ ] — [SDQ] [N] [1] [1] [N] — W1 — [ ]

Size

01	Size 01

Number of stations

1	1 station
↓	↓
16	16 stations

Port size 4(A), 2(B)

Symbol	Port location / size	Application
02	Side, 1/4	Size 01
03	Side, 3/8	Size 01
02B	Bottom, 1/4	Size 01

Port thread

Nil	Rc
T	NPTF
F	G Note1)

Note 1) According to ISO1179-1 G threads

Kit designation

Refer to below for details.

SI unit COM

Number of Input block

Nil	Without SI unit / Input block
0	Without Input block
1	With 1 Input block
↓	↓
8	With 8 Input blocks

Type of Input block

Nil	Without Input block
1	M12, 2 inputs
2	M12, 4 inputs
3	M8, 4 inputs

Input block COM

Nil	PNP or without SI unit / Input block
N	NPN

Option Note 1)

Nil	None
K	Special wiring specifications (Except double wiring)
R	External pilot
S	Direct exhaust with built in silencer

Note 1) When more than two options are specified, indicate them alphabetically.

SI unit COM		EX250						EX500		EX126
		DeviceNet	PROFIBUS-DP	CC-Link —	AS-i	CANopen	EtherNet/IP	DeviceNet EtherNet/IP PROFIBUS-DP CC-Link	Remote I/O	CC-Link —
Nil	**+COM**	—	—	○	—	—	—	○	○	○
N	**-COM**	○	○		○	○	○	○	○	

Kit designation

Kit		Kit / Cable length	Max. number of stations Note 1)	Max. number of solenoids Note1)	Applicable SI unit
F kit	**FD0**	D-sub connector kit (25P) without cable	1 to 12 stations (16 stations)	24	—
	FD1	D-sub connector kit (25P) with 1.5m cable			
	FD2	D-sub connector kit (25P) with 3.0m cable			
	FD3	D-sub connector kit (25P) with 5.0m cable			
P kit	**PD0**	Flat ribbon cable kit (26P) without cable	1 to 12 stations (16 stations)	24	—
	PD1	Flat ribbon cable kit (26P) with 1.5m cable			
	PD2	Flat ribbon cable kit (26P) with 3.0m cable			
	PD3	Flat ribbon cable kit (26P) with 5.0m cable			
L kit	**LD0**	Lead wire kit (25 core) 0.6m lead wire	1 to 12 stations (16 stations)	24	—
	LD1	Lead wire kit (25 core) 1.5m lead wire			
	LD2	Lead wire kit (25 core) 3.0m lead wire			
M kit	**MD0**	Multiple connector kit (26P) without cable	1 to 12 stations (16 stations)	24	—
	MD1	Multiple connector kit (26P) with 1.5m cable			
	MD2	Multiple connector kit (26P) with 3.0m cable			
	MD3	Multiple connector kit (26P) with 5.0m cable			
T kit	**TD0**	Terminal block box kit	1 to 10 stations (16 stations)	20	—
S kit	**SD0**	Serial kit without SI unit	1 to 12 stations (16 stations)	24	—
	SDN	Serial kit for PROFIBUS-DP			EX250-SPR1
	SDQ	Serial kit for DeviceNet			EX250-SDN1 Note 2)
	SDQ1	Serial kit for DeviceNet			EX250-SDN1-X102 Note 3)
	SDTA	AS-i, 8 in/out, 31 slave modes, 2 power supply systems	1 to 4 stations (8 stations)	8	EX250-SAS3
	SDTB	AS-i, 4 in/out, 31 slave modes, 2 power supply systems	1 to 2 stations (4 stations)	4	EX250-SAS5
	SDTC	AS-i, 8 in/out, 31 slave modes, 1 power supply systems	1 to 4 stations (8 stations)	8	EX250-SAS7
	SDTD	AS-i, 4 in/out, 31 slave modes, 1 power supply systems	1 to 2 stations (4 stations)	4	EX250-SAS9
	SDV	Serial kit for CC-Link	1 to 12 stations (16 stations)	24	EX250-SMJ2
	SDY	Serial kit for CANopen			EX250-SCA1
	SDA1	Serial kit for Remote I/O	1 to 8 stations (16 stations)	16	EX500-Q001-X1/EX500-Q101-X1
	SDA2	Serial kit for DeviceNet, PROFIBUS-DP, CC-Link, EtherNet/IP			EX500-Q001/EX500-Q101
	SDVB	Serial kit for CC-Link (EX126)			EX126D-SMJ1
	SDZEN	Serial kit for EtherNet/IP	1 to 12 stations (16 stations)	24	EX250-SEN1

Note 1) The numeral in parentheses indicates the maximum number of stations in case of special wiring specification. The maximum number of manifold stations is determined by the number of solenoids. Count 1point for a single solenoid type and 2 points for a double solenoid type. Determine the number of stations so that the total number solenoids are not more than the maximum points. In case of special wiring specification, put the option symbol "-K".

Note 2) 4 byte input / 4 byte output

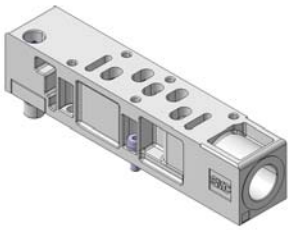
Note 3) 6 byte input / 4 byte output, corresponding to status bit for valve power supply / Input power supply

Manifold Option

Individual SUP spacer: **VV801-P-03** □

Thread type

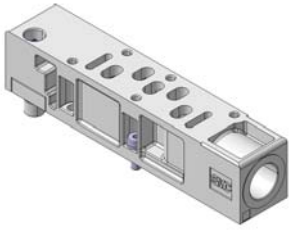
Nil	PT (Rc)
N	NPT
T	NPTF
F	G



Individual EXH spacer: **VV801-R-03** □

Thread type

Nil	PT (Rc)
N	NPT
T	NPTF
F	G



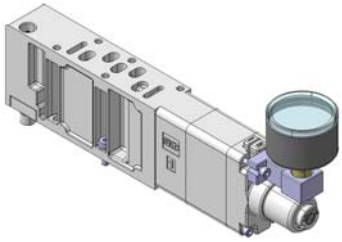
Interface regulator: **VVS8040-ARB-** □ **-1-** **X1S**

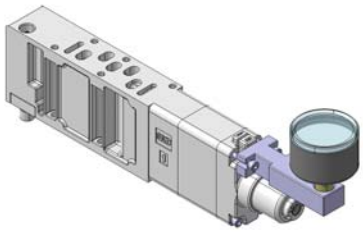
Regulation type

P	P port
A	A port
B	B port

Pressure gauge adapter

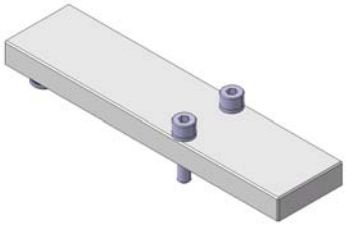
X1S	Short
X1L	Long





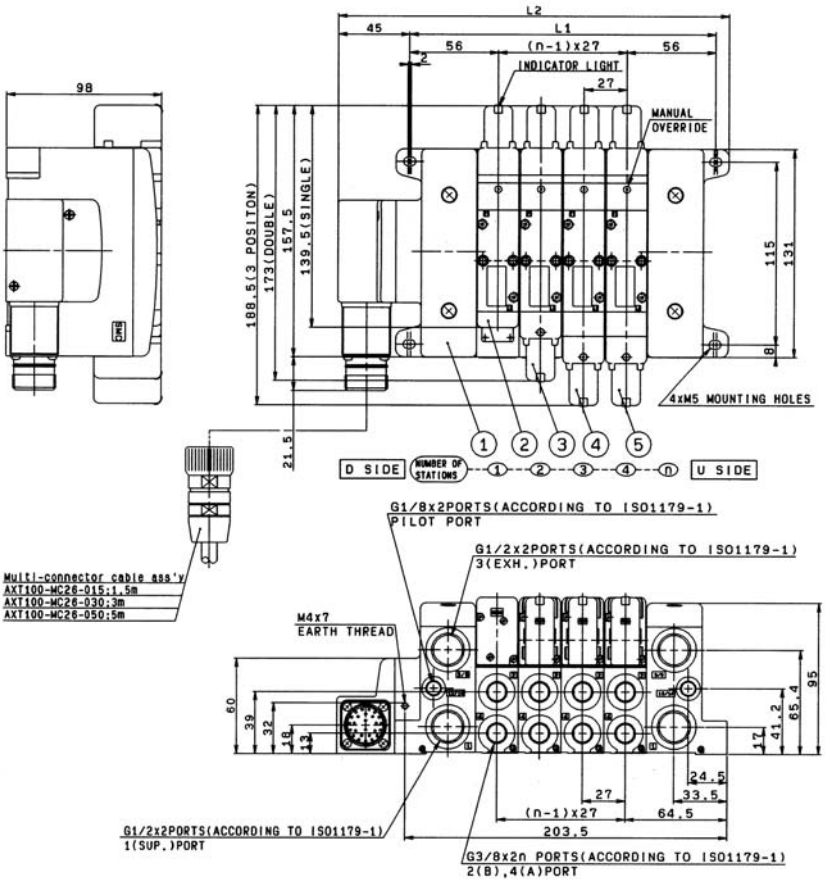
∗ Pressure gauge indication unit: Bar/Psi

Blanking plate: **VVS8040-11A**



Dimensions

VV801□ - □F-MDO



Dimensions

VV801□ - □F-SDGN