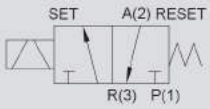
LV290 Series

Latching type Solenoid Valve /3-port Direct Poppet



■ HOW TO ORDER

LV 290 [ ] - [4] [E] - [M5]

LATCHING TYPE VALVE (LV290)

Latching type valve is designed to prevent malfunction in case of the momentary power interruption. It is advised to apply a consecutive electric current to the Set coil and a momentary electric current (over 10 ms) to the Reset coil.
Even though Latching type valve is supplied as the Reset condition (A-R), it can be turned to the Set condition because of the external shock or vibration during the handling. So you should check the power condition before the first use.

PORT SIZE

-	Without sub-base
M5	With sub-base

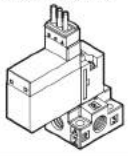
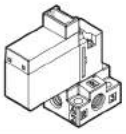
USING TYPE

-	Standard type
V	For a vacuum

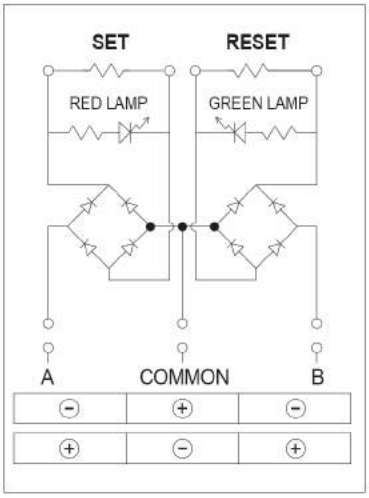
COIL RATED VOLTAGE

4	DC 24V

CONNECTOR

E	E-type Plug Connector (with 300 mm lead wire) 
EN	E-type Plug Connector (no connector) 

■ Lamp and Surge Voltage Suppressor



■ HOW TO ORDER CONNECTOR

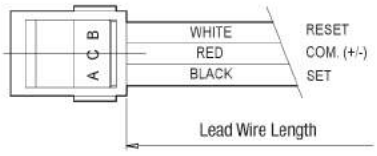
CA3 - [V4] - [6]

COIL RATED VOLTAGE

V4	DC 24V

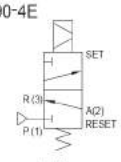
LEAD WIRE LENGTH

-	300 mm
6	600 mm
10	1,000 mm

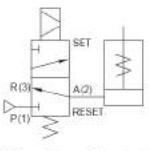


EX) USE OF THE VALVE

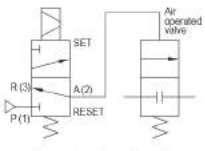
LV290-4E



Air blow

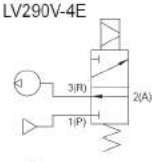


Operation of the single-acting cylinder

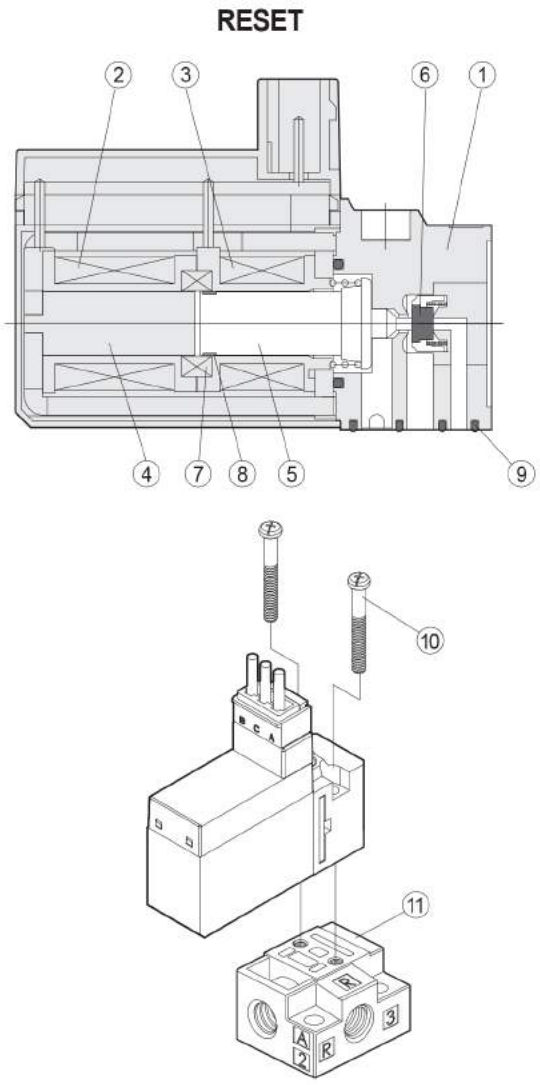


For controlling the air pilot valve

LV290V-4E



For a vacuum



No.	Part's name	Material
①	BODY	PLASTIC
②	'SET' COIL	-
③	'RESET' COIL	-
④	FIXED CORE	SUS
⑤	MOVING CORE	SUS, PLASTIC
⑥	POPPET	NBR
⑦	MAGNET	-
⑧	GUIDE RING	PLASTIC
⑨	GASKET	NBR
⑩	SCREW	-
⑪	BASE	Zn

■ SPECIFICATIONS

Items \ Model		LV290	LV290V
Valve structure		Direct-acting Poppet type	
Fluid		Air or insert gas	
Pressure range		0~0.7 MPa (0~7.1 kgf/cm^2)	-100 kPa~0.2 MPa (-0.1~2.0 kgf/cm^2)
Effective area	P(1) → A(2)	0.2 mm^2 (Cv 0.011)	0.2 mm^2 (Cv 0.011)
	A(2) → R(3)	0.2 mm^2 (Cv 0.011)	0.2 mm^2 (Cv 0.011)
Ambient and fluid temperature		Max. 50°C [1]	
Response time		5 ms or less	
Lubrication		Not required	
Shock / Vibration resistance		150/30 (m/s^2)	
Protection structure		Dust proof	
Coil rated voltage		DC 24V	
Allowable voltage		±10% of rated voltage	
Coil insulation		Class B or equivalent (130°C)	
Power consumption(Current)		SET: 0.85W / RESET: 0.7W	
Lamp		SET: RED / RESET: GREEN	

1) There should be a measure to prevent freezing and dew condensation at a low temperature below 5°C.

LV290-4E-M5

E-type Plug Connector