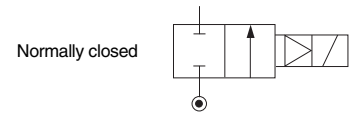


# PXL(A)

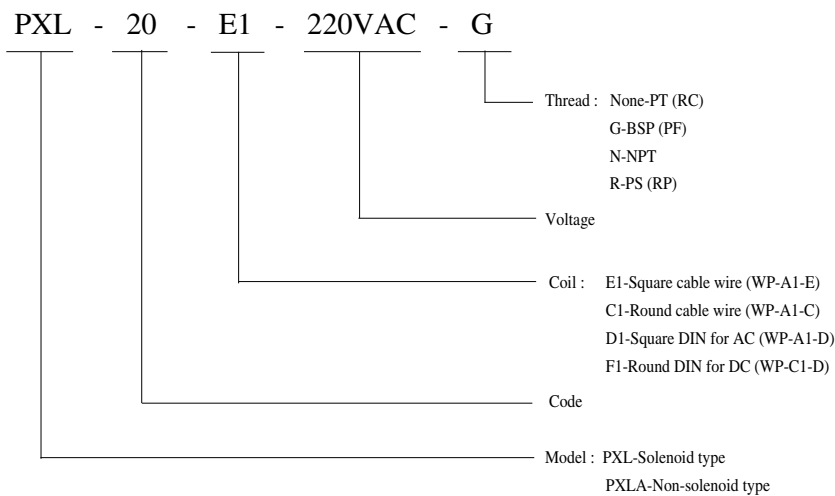
## 2/2-way dust-collecting valve of die-cast aluminum for air application

### Pilot Type



Model	Port size	Orifice (mm)	CV value	Fluid temp. (°C)	Seat disc	Differential pressure kg/cm <sup>2</sup> (bar)	Wt. (kg)
						Air	
PXL-20	3/4 "	20	9.5	-10	NBR	0.5~9.9	1.0
PXL-25	1 "	27	18.5			0.5~9.9	1.2
PXL-40	1 1/2 "	40	4.5	}		0.5~9.9	2.0
PXLA-20	3/4 "	20	9.5			0.5~9.9	0.4
PXLA-25	1 "	27	18.5	80		0.5~9.9	0.6
PXLA-40	1 1/2 "	40	45			0.5~8	1.4

### How to order



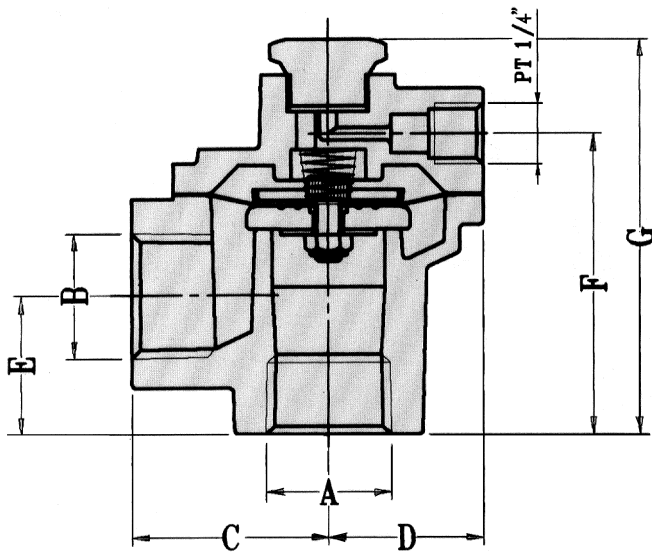
### Notes:

1. Direct-acting valves are ideally suited to allocate at any angle.
2. Voltage drop range is within  $\pm 10\%$ .
3. Pressure of voltage DC is 70% of voltage AC only.
4. The exhaust can connect to a 1/4" muffler, assuring no noise.
5. Selection of coil refer to page 136~139.

### Inapplicable Fluids:

1. Corrosive fluids.

### ● PXLA Specification Chart



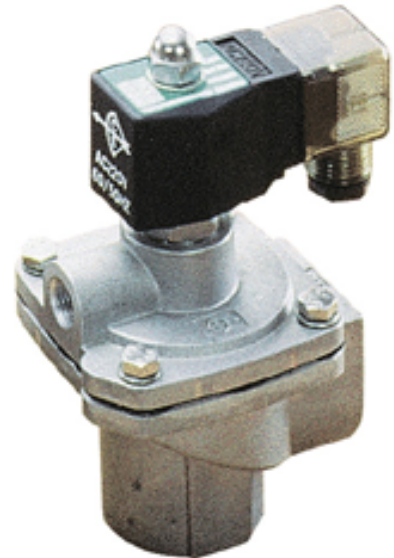
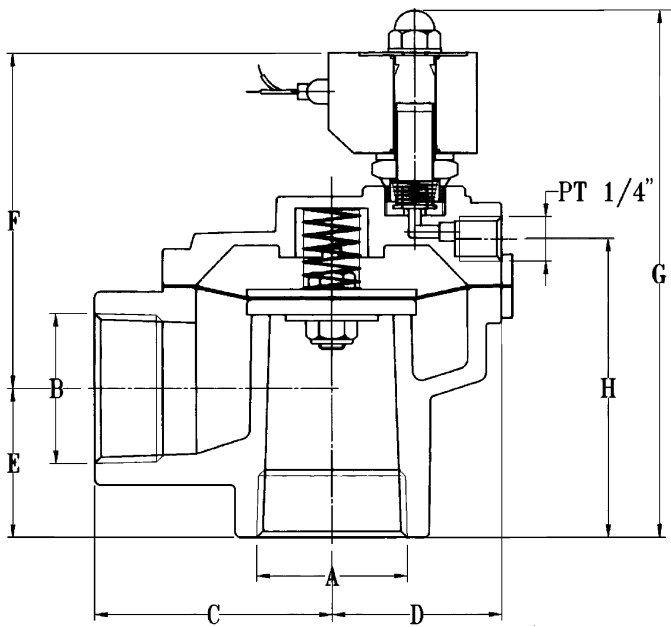
### ● Specifications

Unit : mm

Item Model	A	B	C	D	E	F	G
PXLA-20	3/4 "	3/4 "	40	33	25	58.5	77
PXLA-25	1 "	1 "	47	37	32	71.5	92
PXLA-40	1 1/2 "	1 1/2 "	77	55	48.5	97.2	114



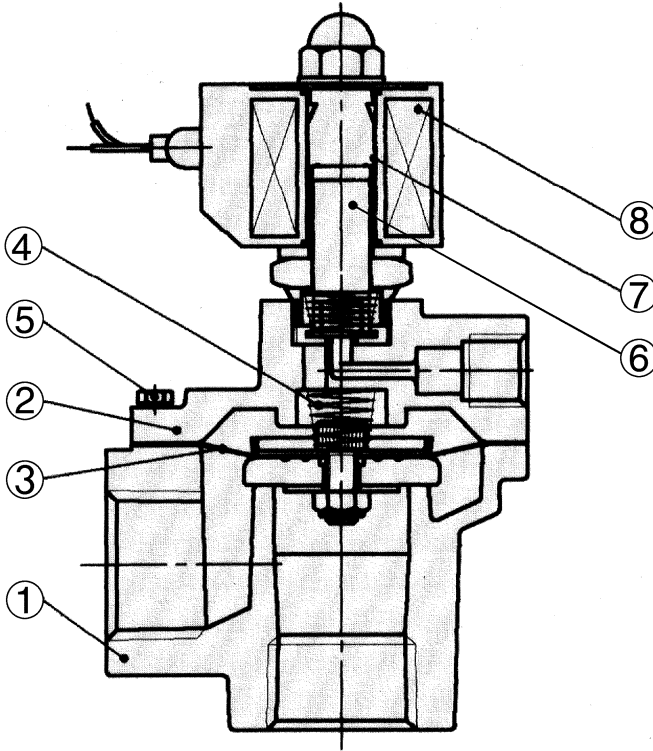
### ● Specification Chart



### ● Specifications

Unit : mm

Item Model	A	B	C	D	E	F	G	H
PXL-20	3/4 "	3/4 "	40	33	25	90	129	58.5
PXL-25	1 "	1 "	47	37	32	100	143	71.5
PXL-40	1 1/2 "	1 1/2 "	77	55	48.5	109.5	172	97.2

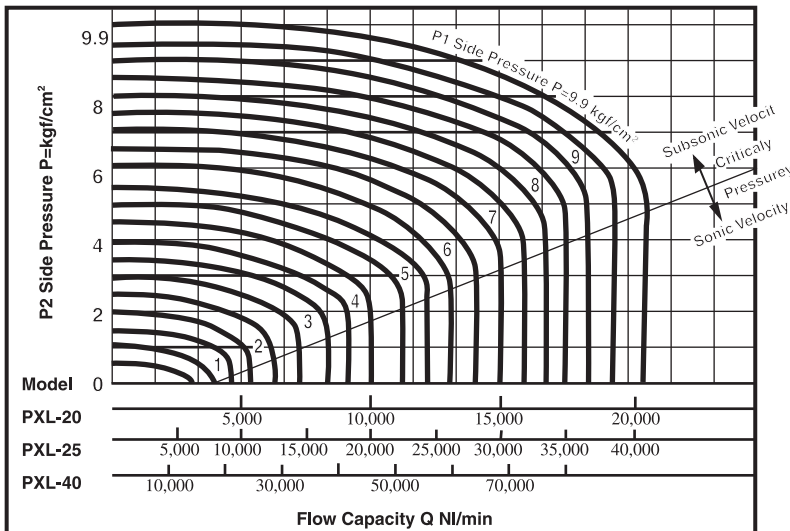


### ● Material Table

Item	Article	Material
1	Valve Body	Aluminum
2	Top Cover	Aluminum
3	Diaphragm	N.B.R
4	Spring	Stainless Steel
5	Fixing Screw	Stainless Steel
6	Armature Core	Stainless Steel
7	Solenoid Tube	Stainless Steel
8	Coil	Brass Wire

### ● Flow Curve Chart

Flow Characteristics/  
Normal Flow Situation (common two-hole air valve application)



### Formula of Flow Capacity (air or non-active gas)

$$1 \quad P_1 + 1.033 = (1 - 1.89)(P_2 + 1.033)$$

$$Q = 22.2S \sqrt{\frac{P(P_2 + 1.033)}{G}} \cdot \sqrt{\frac{273}{273 + \theta}}$$

$$2 \quad P_2 + 1.033 \geq 1.89(P_1 + 1.033)$$

$$Q = 11.1S(P_1 + 1.033) \frac{1}{\sqrt{G}} \cdot \sqrt{\frac{273}{273 + \theta}}$$

Q : Flow capacity under standard situation (NI/min)

P<sub>1</sub> : P<sub>1</sub> side pressure (gauge pressure) (kgf/cm<sup>2</sup>)

P<sub>2</sub> : P<sub>2</sub> side pressure (gauge pressure) (kgf/cm<sup>2</sup>)

P : Pressure difference (P<sub>1</sub> - P<sub>2</sub>) (kgf/cm<sup>2</sup>)

G : Specific gravity (air=1)

θ : Applied air temperature (°C)

S : Effective area (mm<sup>2</sup>)