



The Right Valve Solution



POV701-Series Vacuum Pneumatic Valve

**Engineered Product
Reference Guide**

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Customer Support
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POV701-Series Vacuum Pneumatic Valve

Used as a pneumatic on-off valve to control gas or liquid flow in industrial equipment. CF8 valve body with optional NBR or PTFE seals. NBR suits general media, water & oil with good sealing but poor chemical resistance; PTFE delivers better chemical resistance for corrosive fluids and is preferred for vacuum service to reduce leakage. Direct-acting, simple structure, fast response and high reliability. Suitable for rough vacuum down to -0.9 bar (g), negative pressure and zero-pressure conditions. Widely used in industrial automation fluid control systems.



Sizes

- DN15 1/2" inch
- DN20 3/4" inch
- DN25 1" inch
- DN32 1-1/4" inch
- DN40 1-1/2" inch
- DN50 2" inch

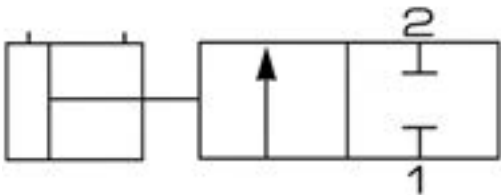
Features

- Standard double-acting actuation. Optional single-acting spring return versions: air to open (opens upon air supply, closes automatically by spring force when air pressure fails) and air to close (closes upon air supply, opens automatically by spring force when air pressure fails).
- Simple direct-acting structure with fast response.
- High reliability for continuous operation.
- Suitable for vacuum, negative pressure and zero-pressure working environments.

Materials

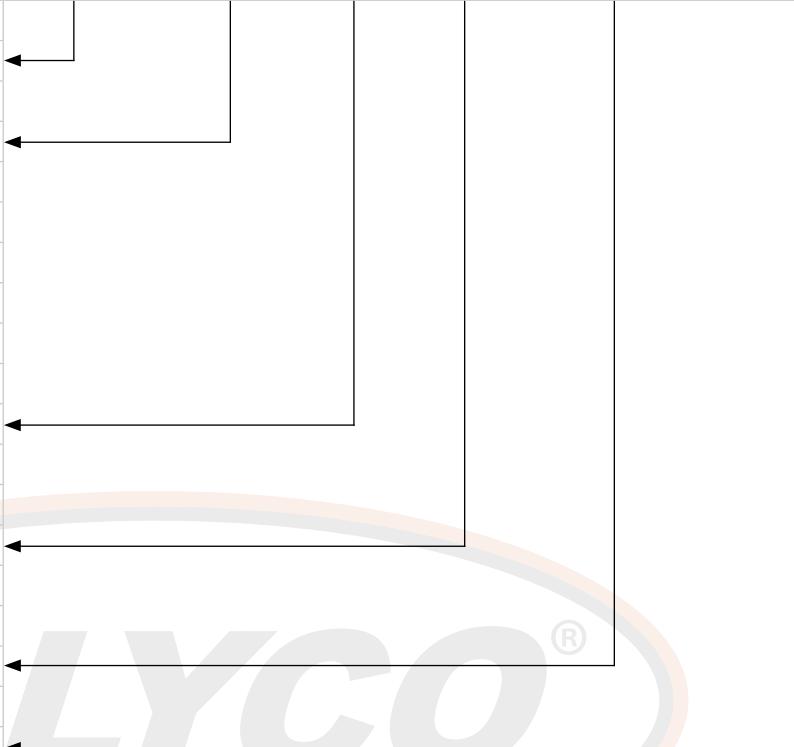
Component	Material Options	
Valve body	CF8	
Cylinder	Aluminum alloy	
Oil seal	NBR	PTFE

Graphical Symbol

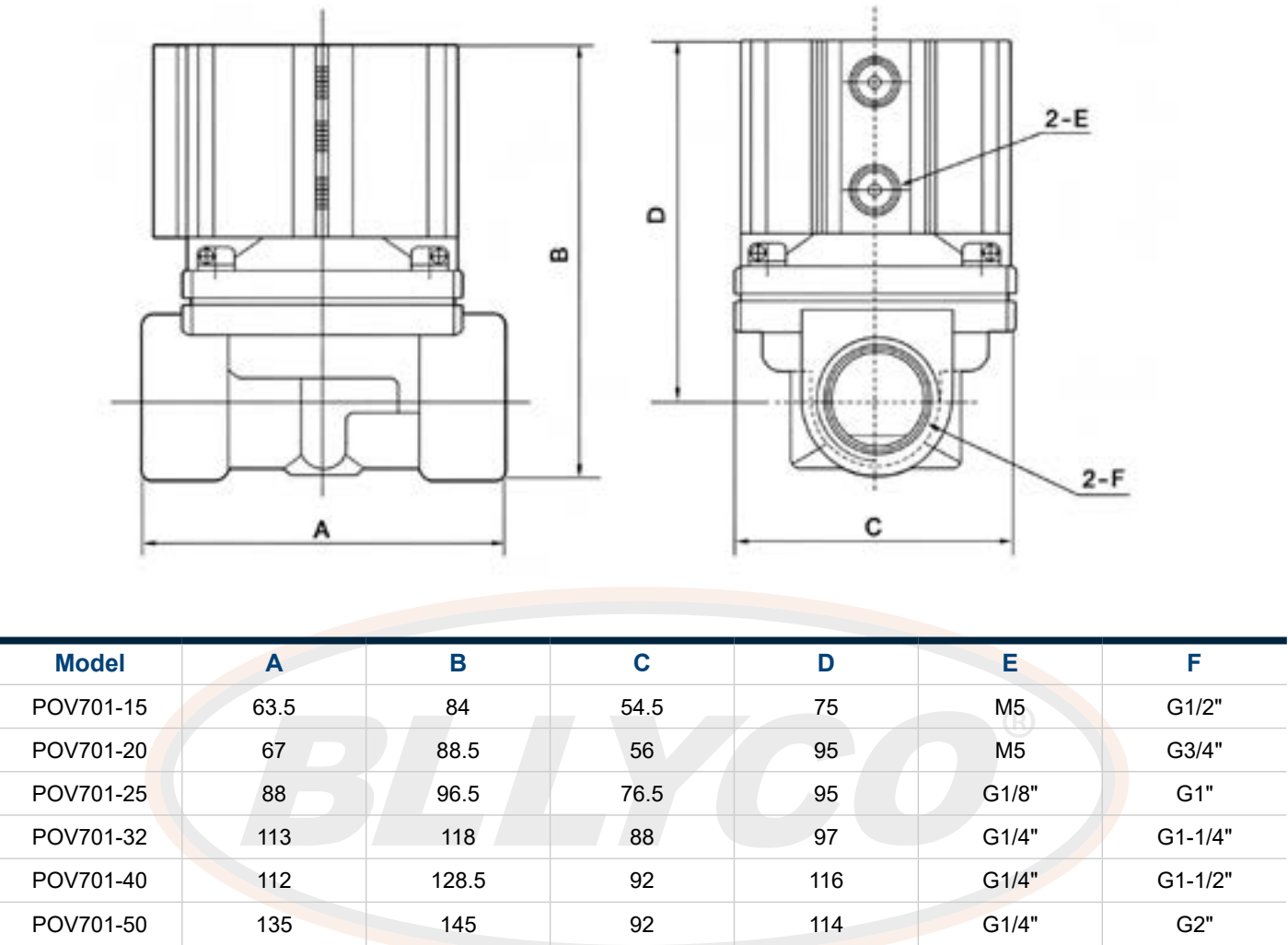


Specification

Model	POV701-15	POV701-20	POV701-25	POV701-32	POV701-40	POV701-50
Connection type	Female BSPP (G)					
Action type	Direct acting					
Flow bore	16mm	20mm	25mm	35mm	40mm	50mm
CV value	4.8	7.6	12	24	29	48
Port size	G1/2"	G3/4"	G1"	G1-1/4"	G1-1/2"	G2"
Operation fluid viscosity	Below 50 CST					
Nominal pressure	PN10 (10 bar)					
Operating pressure range	0 ~ 7 bar					
Vacuum rating	Suitable for rough vacuum down to -0.9 bar (g)					
Applicable media	Water, gas, oil and other fluids					
Operating temperature	NBR : -5 ~ 80 °C					
	PTFE : -5 ~ 150 °C					
Actuation type	Pneumatic					
Control type	Double acting (DA)					
	Single acting (SR), air to open (ATO)					
	Single acting (SR), air to close (ATC)					
Air supply pressure for control	3 ~ 6 bar					
Control port size	2 × M5	2 × M5	2 × G1/8"	2 × G1/4"	2 × G1/4"	2 × G1/4"
Actuator model	20	20	32	50	50	63
Country of origin	China					
HS Code	8481202090					

Part Number Key										
POV701-Series Vacuum Pneumatic Valve Part Number Key Example: POV701-15-10SP-DA		Series		Size		PN	Body Material	Seal Material		Control Type
		POV701	-	15	-	10	S	P	-	DA
Series	Code									
POV701	POV701									
Size	Code									
1/2" inch	15									
3/4" inch	20									
1" inch	25									
1-1/4" inch	32									
1-1/2" inch	40									
2" inch	50									
PN	Code									
PN10	10									
Body Material	Code									
Brass	B									
CF8	S									
Seal Material	Code									
NBR	N									
PTFE	P									
Control Type	Code									
Double Acting	DA									
Air to Open	AO									
Air to Close	AC									

Dimensions



Notes



Limited Warranty

BLLYCO (Bolaikong Technology (Wuxi) Co., Ltd.) warrants the products described herein to be free from defects in material and workmanship under normal use and service conditions for a period of one (1) year from the date of shipment.

BLLYCO's sole obligation under this warranty is limited to repairing or replacing the defective product, at BLLYCO's discretion, after inspection confirms the defect. A prerequisite for this warranty obligation is that the defective product must be returned to BLLYCO for inspection within three (3) months after the defect is discovered. Parts and labor for such repair or replacement of confirmed defective products shall be provided free of charge.

This warranty does NOT apply to any of the following cases:

- (a) Components or products not manufactured by BLLYCO;
- (b) Products damaged due to abuse, negligence, accident, or misapplication;
- (c) Products modified, disassembled or repaired by parties other than BLLYCO or its authorized service providers;
- (d) Routine maintenance work and replacement of consumable / wearing parts.

No legal claim for alleged breach of this warranty may be filed against BLLYCO unless such action is commenced within one (1) year from the date the cause of action arises.

Limits of Liability

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NOTE: Product selection and installation shall be performed by qualified personnel. The user is responsible for verifying product suitability for process medium, pressure, temperature and service conditions. Improper selection, installation or operation may cause equipment damage or personal injury.

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