VP58/59/68 Series

FLANGED PNEUMATIC CONTROL VALVES

SPECIFICATION DATA



Features

- Cast iron/steel or stainless steel body with flanged end connection.
- Available in variety of sizes,
 1/2 ~ 12" for 2-way,
 1/2 ~ 6" for 3-way
- Easy to install and maintain.
- Large capacity, Kvs from 4 to 998.
- On-line interchangeable trim units.
- High dynamic stability.
- Self-alignment of cage and valve plug.
- Noise-Attenuating Trim to help reduce aerodynamic noise.

Specifications

Body Type: Two Way cast globe valve Action: Stem down to close

Nominal pressure rating: PN16

Operating Temperature: 60°C for VP58 VP68

180°C for VP59

Operating Humidity: 5%~95% RH (non condensing)
Plug: Pressure balanced, unbalanced

plug

Flow characteristic: Equal percentage, Linear

Rangeability: 50:1

Leakage rate: $\leq 0.1\%$ of k_{vs}

Stroke: See Dimension table, p3

Body end connection: Flanged

Body material Cast Iron, Cast Steel, Stainless

Steel

Seat material: Stainless Steel

Plug material: Stainless Steel, Bronze

Stem material: Stainless Steel

Packing: Spring loaded PTFE V-rings

Actuator type: Single acting diaphragm

actuator

Action: Direct or reverse action

Operation Pressure: 20kPa~100kPa

40kPa~120kPa 80kPa~240kPa

Operation Temperature: $-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$

Operation type: A: Air Fail to Close

B: Air Fail to Open

Standard Stroke: 10mm~100mm

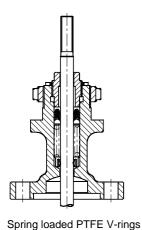
Dimension: See Dimension table, p3 Medium temperature & 2° C \sim 80 $^{\circ}$ C max. 1600kPa

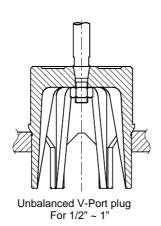
pressure: 80°C~180°C max. 1300kPa

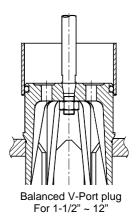
Air Supply: 400~700kPa Input Signal: 4~20mA

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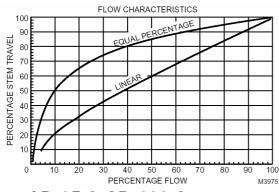
Construction





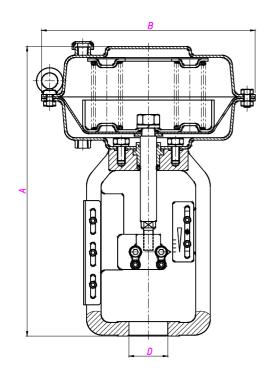


Flow characteristic



- Linear Characteristics
- Equal Percentage Characteristics
- Quick Open

Type AD-25 & AD-100 Actuator Diaphragm Pneumatic Actuators



Type AD-25 and AD-100 Diaphragm actuators are designed to provide reliable operation of the VP58/59 valve. It features spring-return action and is reversible between spring open and spring close.

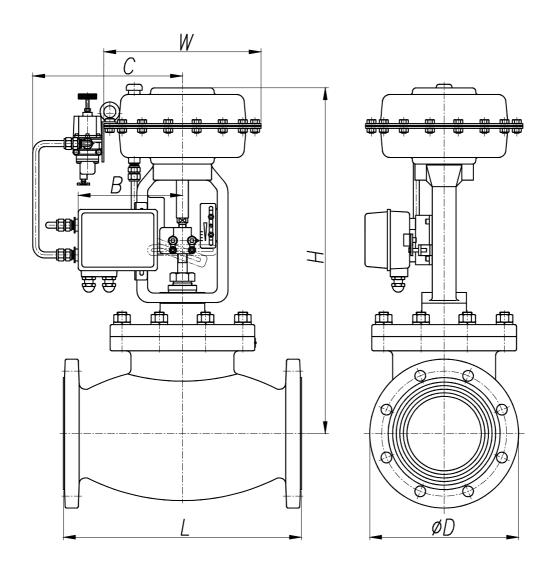
The actuator can be used for on-off or throttling service, with or without a positioner.

Multiple springs determine the bench set; so there is no need for a bench set adjustment.

The actuator diaphragm is made of durable neoprene with high-tension cloth, the pressure rating is 6kg/cm2, and able to withstand over 1,000,000 times operating.

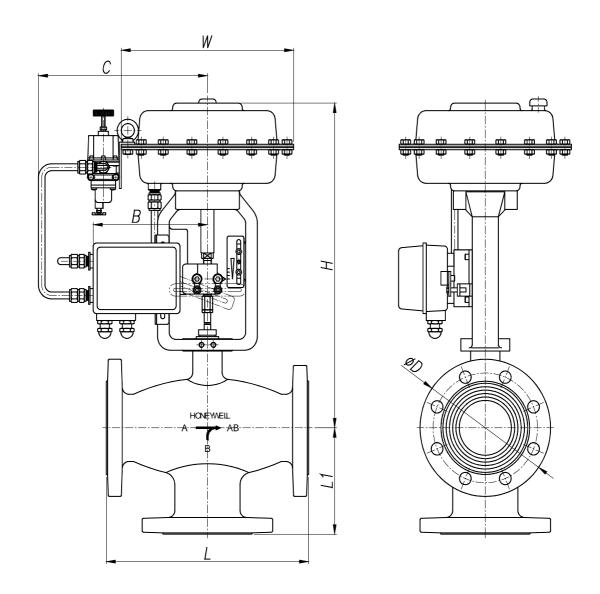
Dimension:

Model	Α	В	D		
AD-25	<510mm	264mm	48mm		
AD-100	<828mm	510mm	72mm		



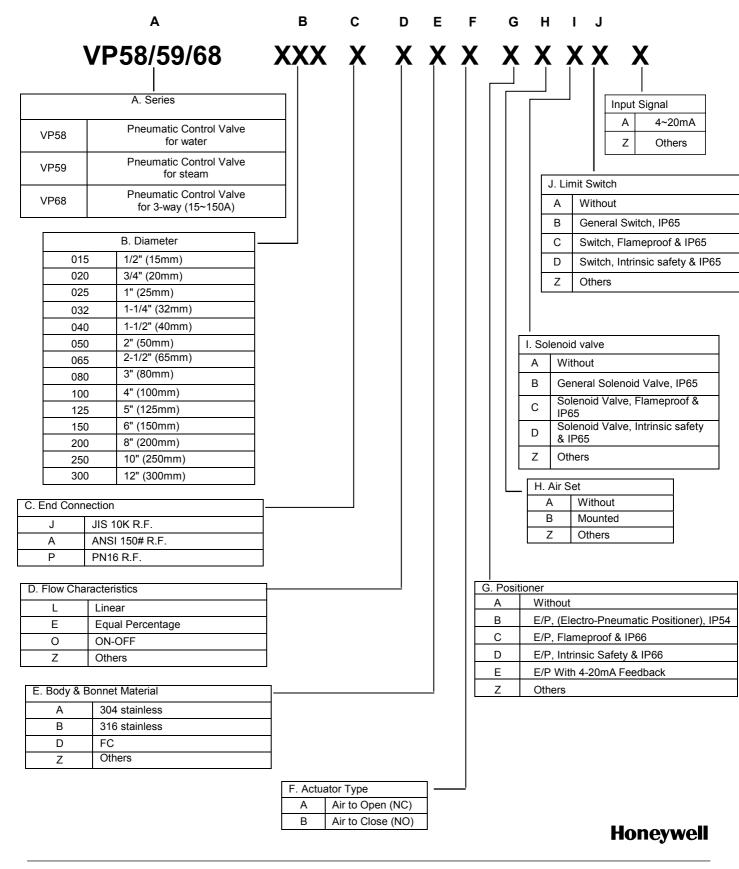
Dimension: For Diaphragm Actuator

Cina	1/2"	3/4"	1"	1-1/4*	1-1/2*	2"	2-1/2"	3*	4*	5*	6"	8"	10°	12"
Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300
L	130	150	160	180	200	230	290	310	350	400	480	543	673	737
D	95	105	115	140	150	165	185	200	220	250	285	448	580	525
Н	2 11 1	582 599 604 622 624 696 729 880					880	1248	1256					
С	265										335			
W	264										510			
Stroke	20							40	50	50 80				
Actuator	AD-25									AD100				
Kvs	4.0	6.3	10.0	16	25	40	63	100	160	250	360	703	838	998
Max ∆P kPa	1000 900				800					700				



Dimension: For Diaphragm Actuator

15.16	1/2"	3/4"	1*	1-1/4"	1-1/2"	2"	2-1/2"	3"	4*	5°	6"	
Size	15	20	25	32	40	50	65	80	100	125	150	
L	130	150	160	180	200	230	290	310	350	400	480	
D	95	105	115	140	150	165	185	200	220	250	285	
Н		582		599	6)4	622	624	696 729			
С	265											
W	264											
Stroke	20 40											
Actuator	AD-25											
Kv	4	6.3	10	16	25	40	63	100	160	250	360	
Max ∆P kPa		1000				900			800			



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