SAFE VALVE MODEL PV165



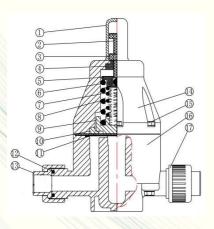
PV165 is a diaphragm type safety valve design and develop according to international standard, the body and main parts which touch medium are made from plastic and rubber, in this case it is suitable for corrosive working conditions. different materials optional for different applications.

Basic specification

Size range: DN15~DN65 (1/2 inch ~ 2-1/2 inch) Body materials: PVC-U;PVC-C;PVDF Diaphragm material: PTFE with EPDM cushion Connection: DIN; ANSI Design pressure: 1.0Mpa; 1.6Mpa

Feature of valve

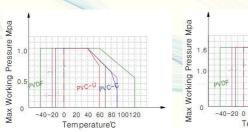
Body and diaphragm that touch medium are made from plastic and rubber. Two springs ensure the valve regulate accurately EPDM cushion protect the PTFE diaphragm from over tighten, make sealing better. Strengthen design of bonnet and body make the valve stronger and sealing better. PTFE diaphragm is coated with EPDM cushion, extend the diaphragm working life. Safety valve is unidirectional valve PN1.6 Mpa is customized if need

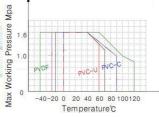


Main part&material								
No.	Part Name	Material Optional	Part code					
1	Сар	Rubber	P165-1					
2	Ad usting Bolt	SS304	P165-2					
3	Setting Nut	SS304	P165-3					
4	Insert	Steel	P165-4					
5	Press Plate	Steel	P165-5					
6	Ball	SS304	P165-6					
7	Spring	Steel	P165-7					
8	Spring	Steel	P165-8					
9	Spring Sleeve	PVC-U	P165-9					
10	Stop Ring	PVC-U	P165-10					
11	Seat/Seal	EPDM C/W PTFE	P165-11					
12	Seal Ring	FPM	P165-12					
14	Bonnet	PPGF	P165-14					
15	Bolt	SS304	P165-15					
16	Body	PVC-U;PVC-C;PVDF	P165-16					

Note: Some inner parts are not shown on this picture, please refer to drawing for accurate information.

Temperature VS pressure

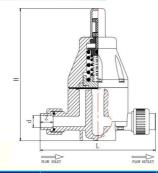




Working	temperat	ture of	materia l



Dimension(Unit:mm)



Norminal Size	FLANGE DIN PN10		FLANGE ANSI CL150		FLANGE JIS 10K		d		н	z			
DN(Inch)	D1	n	Φd	D1	n	Φd	D1	n	Φd	u	L	п	2
15(1/2")	65	4	14	60.5	4	15.8	70	4	15	20	171	200	20
20(3/4")	75	4	14	70	4	15.8	75	4	15	25	172	200	21
25(1")	85	4	14	79.5	4	15.8	90	4	19	32	212	240	26
32(1-1/4")	100	4	18	89	4	15.8	100	4	19	40	251	286	31
40(1-1/2")	110	4	18	98.5	4	15.8	105	4	19	50	285	345	31
50(2")	125	4	18	120.5	4	19	120	4	19	63	355	415	39
65(2-1/2")	145	4	18	139.5	4	19	140	4	19	75	376	440	41

Dimension may revised due to products development, please refer to drawings for accurate dimensions

Referenced Weight (unit:kg)

Material	DN15	DN20	DN25	DN32	DN40	DN50	DN65
Material	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
PVC-U	0.82	0.82	1.6	2.0	2.6	3.3	5.8
PVC-C	0.82	0.82	1.6	2.0	2.6	3.4	6.1
PVDF	0.95	0.95	2.0	2.5	2.8	3.7	6.2

Note:Weight in this sheet for reference only, please refer to drawing for accurate data.

Main steps of diaphragm replacement

1.Take off the cap(P165-1), loose the setting nut(P165-3) and ad u 2.Remove bolts(P165-15), and seperate the bonnet from body. 3.Replace new diaphragm and cushion.

4. Connect the bonnet with body by bolts and nuts, tighten the bolts 5.Set the valve again

Trouble shoot and solve

Trouble	Trouble shoot	Solve		
Leaking to the atmosphere	 Bonnet bolts not properly tightened. Line pressure exceeds maximum recommended line pressure. Diaphragm has ruptured or has been chemically attached. 	 Tighten the bonnet bolt. Reduce the pressure of pipeline. Replace diaphragm. 		
Valve can not open	1.Ad Justing nut set incorrectly2.Line pressure too low	 Reset AdJusting bolt Increase line pressure 		
Valve can not closed completely	 Line pressure exceed ad Justing bolt set Diaphragm has ruptured 	1.Lower line pressure or reset valve 2.Replace diaphragm		



usting bolt(P165-2) Note:	
Never remove the valve from	
pipeline under pressure.	
ts proportionately. Valve should take pressure	
test after replace diaphragm	