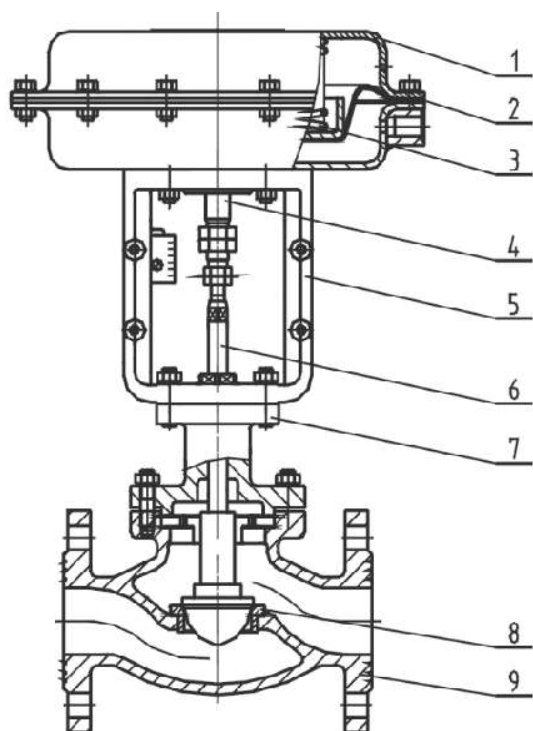


ZXP REGULATOR

Pneumatic single-seat regulating valve

Valve description and operation

ZXP REGULATOR is a new and fine-small two way pneumatic regulating valve which is equipped with top-guided pneumatic and Multi-Spring diaphragm actuator. ZXP REGULATOR has the advantages of compact structure, light weight, require minimal maintenance, quick action, Accurate flow etc, it is widely used in the Precise control for Gas, Water and steam, especially in the working condition of low leakage and low pressure difference between in-port and out-port.



1. Membrane Cover 2. Diaphragm 3. Spring 4. Push Rod 5. Stent
6. Stem 7. Cover 8. Valve core 9. Body

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Valve Parameters

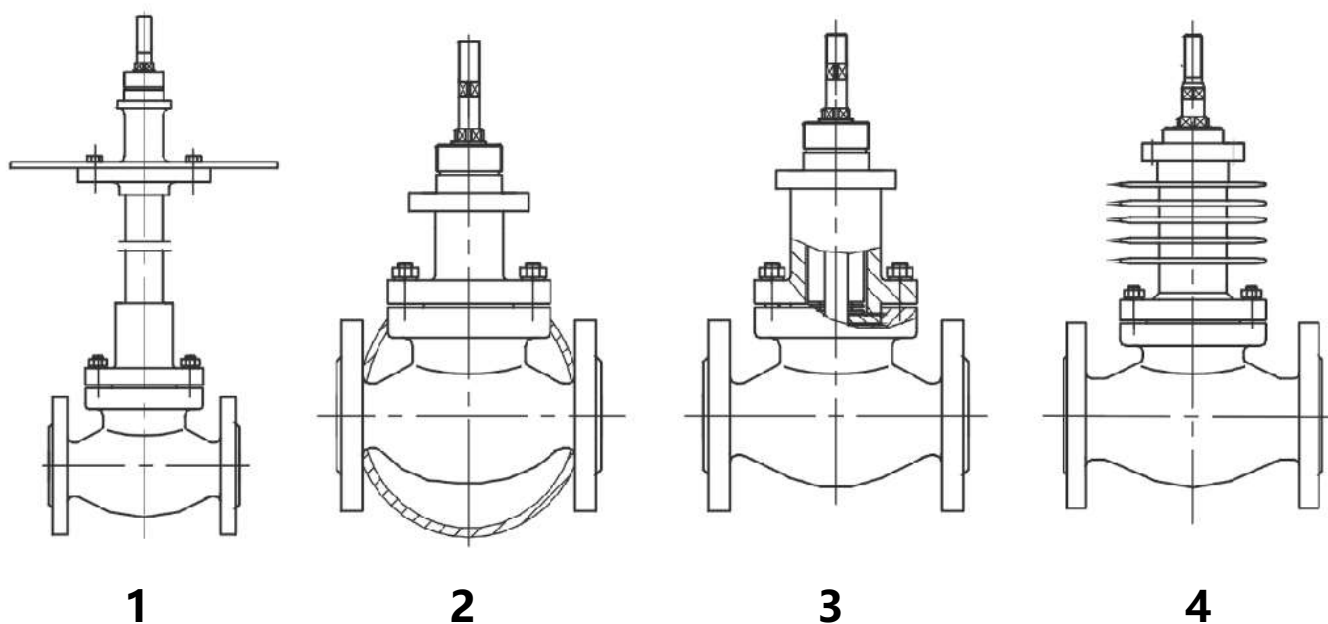
Nominal diameter DN(mm)		20				25					32	40		50		
The seat diameter DN(mm)		10	12	15	20	10	12	15	20	25	32	32	40	32	40	50
Coefficient t(KV)	Line	1.8	2.8	4.4	6.9	1.8	2.8	4.4	6.9	11	17.6	17.6	27.5	17.6	27.5	44
	Percentage	1.6	2.5	4.0	6.3	1.6	2.5	4.0	6.3	10	16	16	25	16	25	40
Rated stroke(mm)		16									25					
Effective area of diaphragm Ae(cm ²)		280									400					
Nominal diameter DN(mm)		65	80		100			125	150		200		250			
The seat diameter DN(mm)		65	65	80	65	80	100	125	125	150	150	200	250			
Coefficient t(KV)	Line	69	69	110	69	110	176	275	275	440	440	690	1100			
	Percentage	63	63	100	69	100	160	250	250	400	400	630	900			
Rated stroke(mm)		40						60				100				
Effective area of diaphragm Ae(cm ²)		600						1000				1600				
Nominal pressure (PN)/Class		MPa	1.6, 2.5, 4.0, 6.4(6.3)/2.0, 5.0, 11.0													
		Bar	16, 25, 40, 64(63)/20, 50, 110													
		Lb	ANSI: Class150、Class300、Class600													
Flow characteristic		Line; Percentage														
Adjustable (R)		50:1														
Spring (signal) KPa		20~100、40~200、80~240、(20~60、60~100)														
Air pressure Ps (MPa)		0.14/0.25/0.3														
Leakage		Class IV; Class VI														
Working Temperature T(°C)	Normal Temperature	-20~200、-40~250、-60~250														
	Heat Dissipation	S	-40~350、-60~350													
	High Temperature	G	350~550													
	Low Temperature	D	D ₀ : -60~-100、D ₁ : -100~-200、D ₂ : -200~-250													
	Adjust	Q	-40~150													

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Valve Material

Parts	Material
Body/Cover	WCB(ZG230-450);WCC(ZG270-500);WC6(ZG15CRMO); CF8(304);CF8M(316);CF3(304L);CF3M(316L)
Core/Seat	304(0Cr18Ni9);316(0Cr17Ni12Mo2);316L(00Cr17Ni14Mo2)
Packing	PTFE;R.TFE;Graphite
Sealing Gasket	XB350;PTFE;
Membrane Cover	A3;304
Corrugated Diaphragm	Nitrile Butadiene Rubber
Spring	60Si2Mn;50CrVA
STem	304;316;316L;17-4PH

Valve cover type



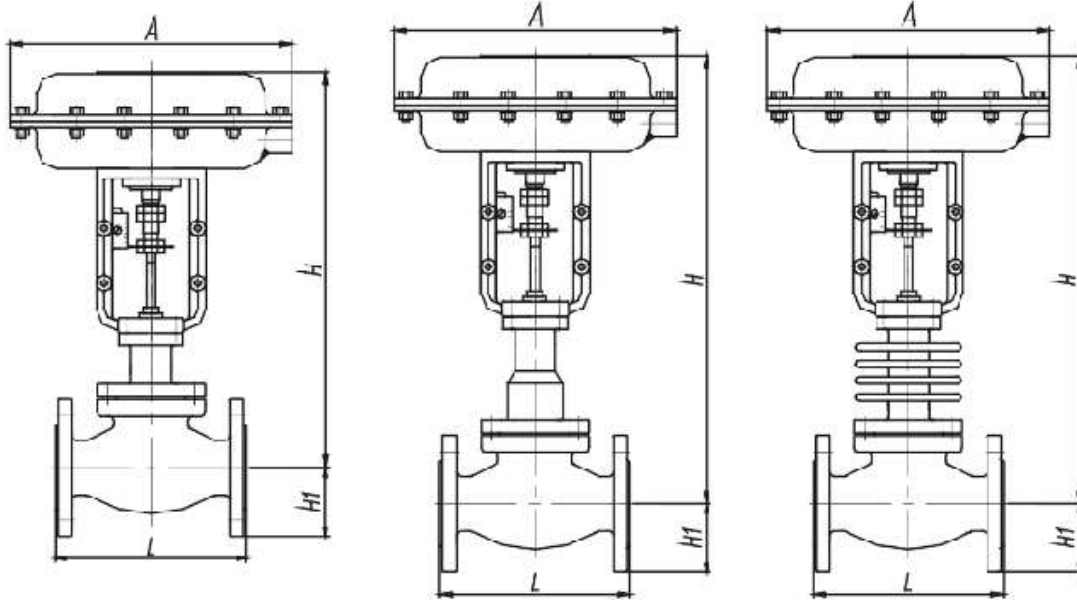
- 1.Low Temperature Type 2.Insulation Type 3.Bellows Seal Type
4.High Temperature Heat Dissipation Type

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Overall Dimensions

1. The dissipation dimension table of Standard Type; bellows seal Type and high temperature heat Type (unit: mm)



1. Standard Type

2. Bellows seal Type

3. High temperature heat Typ

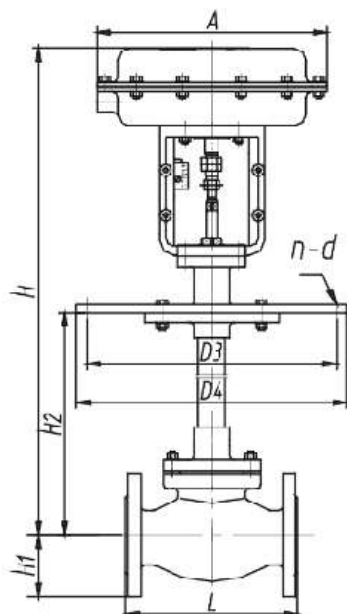
Nominal diameter DN(mm)		20	25	32	40	50	65	80	100	125	150	200	250	
φA		282			308			395			498		620	
L	PN16,20,25,40 ANSI150Lb	150	160	180	200	230	290	310	350	400	480	600	730	
	PN64,100(110) ANSI300Lb,600Lb	230	230	260	260	300	340	380	430	500	550	650	775	
H ₁	PN16	52.5	57.5	70	75	82.5	92.5	100	110	125	142.5	170	202.5	
	PN25	52.5	57.5	70	75	82.5	92.5	100	115	135	150	180	212.5	
	PN40	52.5	57.5	70	75	82.5	92.5	100	117.5	135	150	187.5	225	
	PN64(63)	65	70	78	85	90	102.5	107.5	125	147.5	172.5	202.5	235	
	ANSI150Lb(PN20)	50	55	60	65	75	80	95	115	127.5	140	172.5	202.5	
	ANSI300Lb(PN50)	60	62.5	67.5	77.5	82.5	95	105	127.5	140	160	190	222.5	
H	Type 1	PN16/25/40	400	400	440	450	460	570	570	570	670	700	740	970
		ANSI150Lb(PN20)	400	400	440	450	460	570	570	570	670	700	740	970
		PN64,300Lb(PN50)	400	400	450	450	460	570	570	570	720	720	750	980
	Type 2&3	480	480	530	530	530	640	640	640	800	810	840	1050	

1, with the top valve handwheel institutions should H increased 152 (3/4" - 50), 182 (DN65-100), 253 (DN125-200), 200 (DN250)

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2. The dimension table of low temperature type(unit: mm)



Nominal diameter DN(mm)		20	25	32	40	50	65	80	100	125	150	200	
Φ A		282		308		395		498					
L	PN16,20(150Lb) , 25,40	150	160	180	200	230	290	310	350	400	480	600	
	PN50(300Lb) 64(63)	230	230	260	260	300	340	380	430	500	550	650	
H ₂	-60~-100℃	500	500	500	500	500	600	600	600	700	700	700	
	-100~-200℃	700	700	700	700	700	800	800	800	900	900	900	
	-200~-250℃	900	900	900	900	900	1000	1000	1000	1100	1100	1100	
H	-60~- -100℃	PN16、20、 25、40	810	810	832	832	832	1026	1026	1026	1200	1198	1198
		PN50、64	810	810	832	832	832	1026	1026	1026	1200	1198	1198
	-100~- -200℃	PN16、20、 25、40	1010	1010	1032	1032	1032	1226	1226	1226	1400	1398	1398
		PN50、64	1010	1010	1032	1032	1032	1226	1226	1226	1400	1398	1398
	-200~- -250℃	PN16、20、 25、40	1210	1210	1232	1232	1232	1426	1426	1426	1600	1598	1598
		PN50、64	1210	1210	1232	1232	1232	1426	1426	1426	1600	1598	1598
φ D3		260	260	285	305	340	370	405	460	525	590	700	
φD4		290	290	315	335	370	400	435	490	555	630	740	
n-d		8-14	8-14	8-14	8-16	8-16	10-16	10-16	12-18	14-18	16-18	18-18	

1, with the top valve handwheel institutions should increase height H 152 (3/4" ~ 50), 182 (DN65-100), 100 (DN125 ~ 200).

2, size H₂ (insulation length) is generally recommended by the design size of air separation industry, can according to need to specify the design institute and the use of unit, such as do not specify the company

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Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

according to the size of the above factory.