

ZXM REGULATOR

Pneumatic sleeve regulating valve

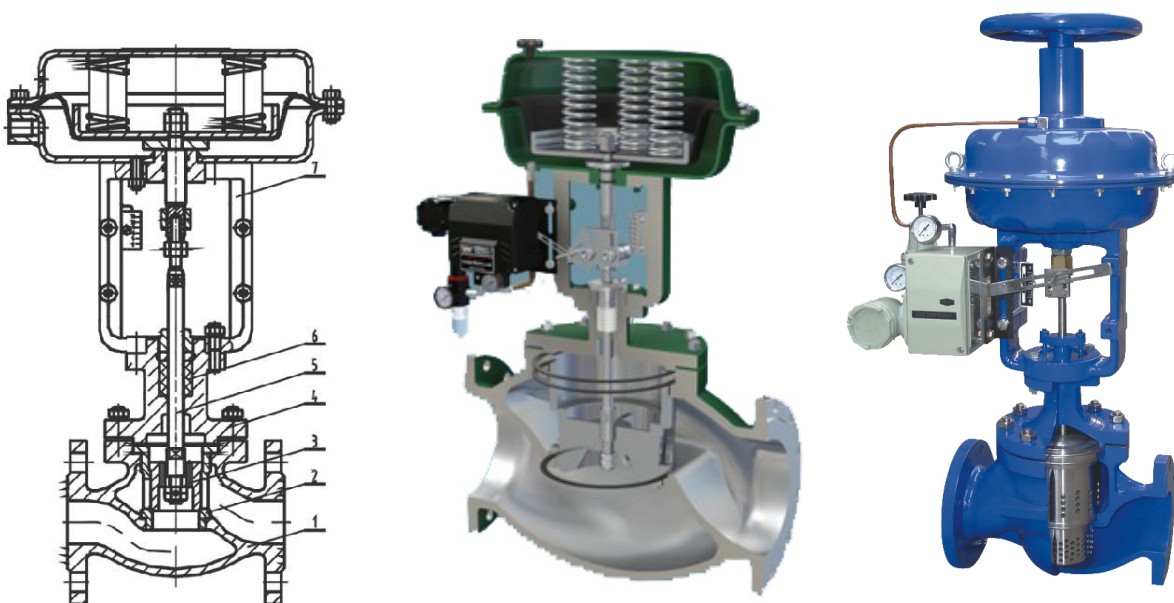
Valve description and operation

ZXM REGULATOR is a pressure balance type regulating valve which consists of multi-Spring diaphragm pneumatic actuator and low flow resistance sleeve valve.

ZXM REGULATOR has the advantages of 1.with balanced valve core,the unbalance force is small and allow the the large pressure difference,2.Valve core guide is large, it can improve the eddy currents and oscillations caused by the impact and reduce valve damage. 3.Simple structure, light weight,easy assembly,disassembly and maintenance. 4.with little noise and large flow .

This regulator is designed and manufactured according to the standard of AMSE /API /BS/ DIN/GB.And it's

widely used in the precise control of gas, liquid and steam medium,the process parameters such as pressure, flow rate, temperature and liquid level can be easily kept in a set value.Especially suitable for large flow, large pressure difference and the leakage less demanding applications.



1. Body 2. Sleeve 3. Valve core 4. Cover 5. Stem 6. Packing 7. Stent

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Valve Parameters

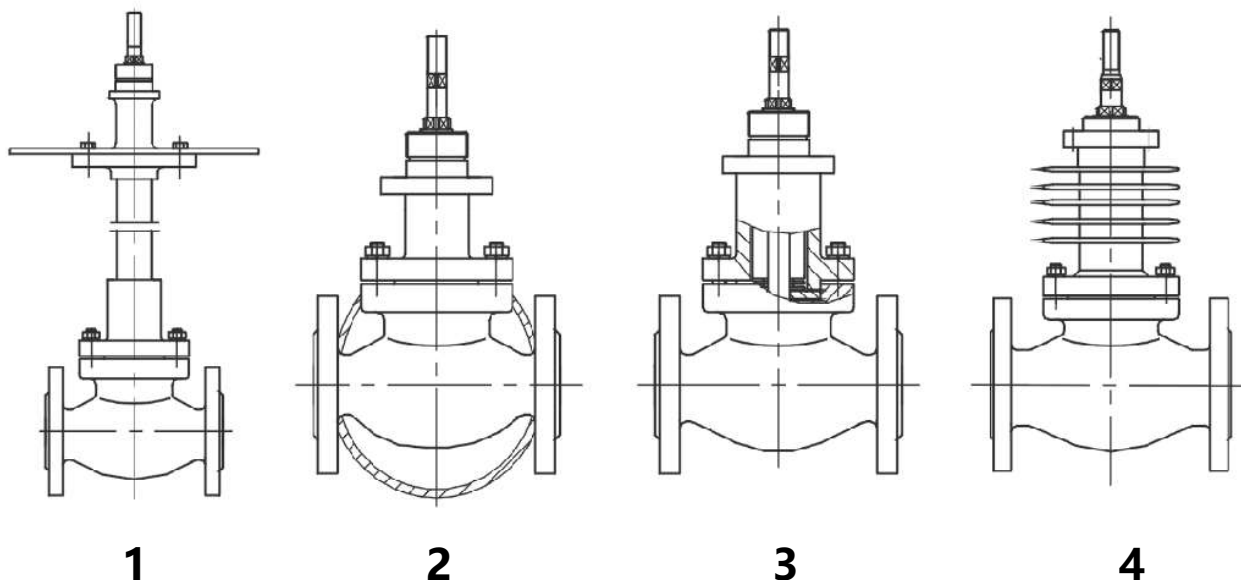
Nominal diameter DN(mm)		20				25					32	40		50			
The seat diameter DN(mm)		10	12	15	20	10	12	15	20	25	32	32	40	32	40	50	
Coefficien t(KV)	Line	1.8	2.8	4.4	6.9	1.8	2.8	4.4	6.9	11	17.6	17.6	27.5	17.6	27.5	44	
	Percentage	1.6	2.5	4.0	6.3	1.6	2.5	4.0	6.3	10	16	16	25	16	25	40	
Rated stroke(mm)		16										25					
Effective area of diaphragm Ae(cm²)		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			
Coefficien 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(cm²)		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(℃)	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(ZG15CRM O); CF8(304);CF8M(316);CF3(304L);CF3M(316L)
Core/Seat	304(0Cr18Ni9);316(0Cr17Ni12Mo2);316L(00Cr17Ni14 Mo2)
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

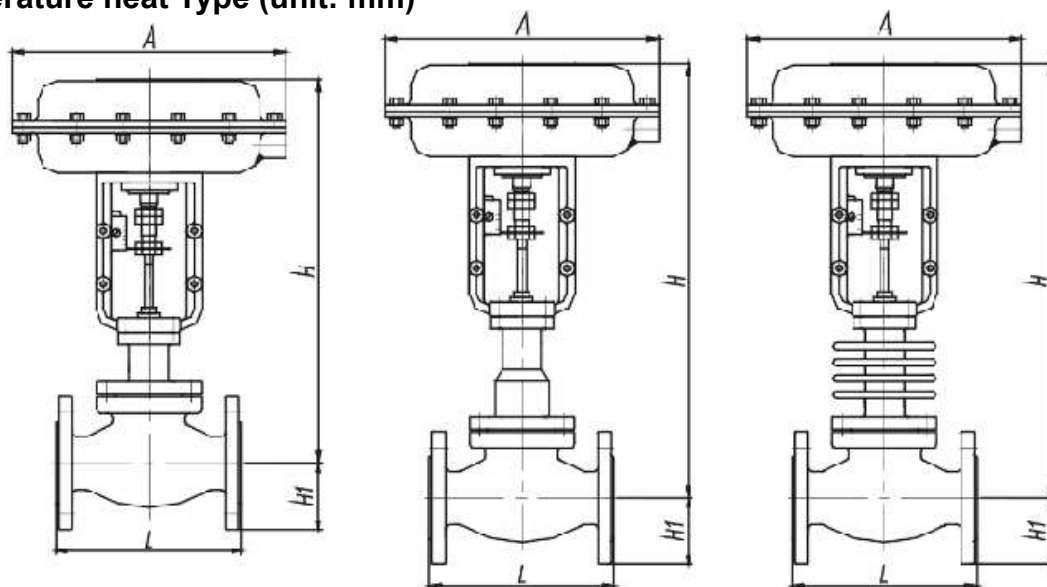
4.High Temperature Heat Dissipation Type

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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 Type

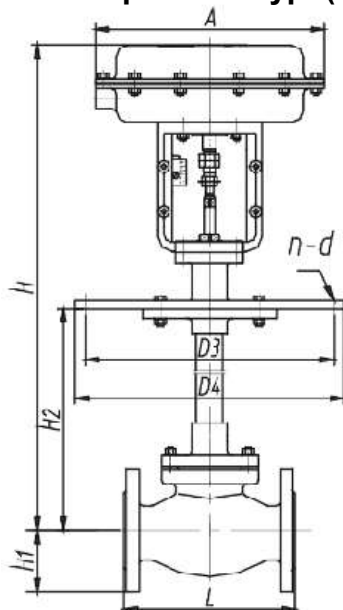
Nominal diameter DN(mm)		20	25	32	40	50	65	80	100	125	150	200	250
ϕA		282			308			395			498		620
L	PN16,20,25,40 ANSI150Lb	150	160	180	200	230	290	310	350	400	480	600	730
	PN64,100(110) ANSI300Lb,600Lb	230	230	260	260	300	340	380	430	500	550	650	775
H ₁	PN16	52.5	57.5	70	75	82.5	92.5	100	110	125	142.5	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
		ANSI150Lb(PN20)	400	400	440	450	460	570	570	570	670	700	740
		PN64,300Lb(PN50)	400	400	450	450	460	570	570	570	720	720	750
	Type 2&3		480	480	530	530	530	640	640	640	800	810	840

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 for 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

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according to need to specify the design institute and the use of unit, such as do not specify the company
according to the size of the above factory.