ZXSP REGULATOR

Pneumatic Film Angle Regulating Valve

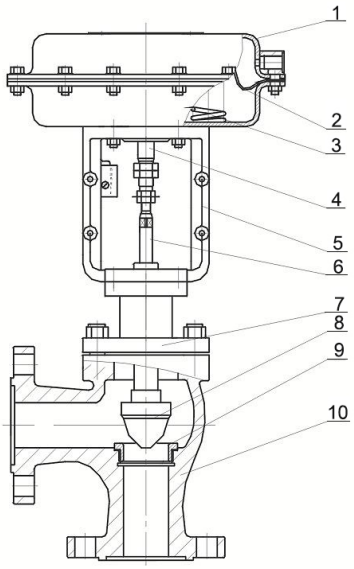
Valve description and operation

ZXSP REGULATOR is a new series of pneumatic film angle structure and single-seat regulating valve which is equipped with top-guided pneumatic and Multi-Spring film actuator.ZXSP REGULATOR has the advantages of compact structure, light weight, reaction quick, less pressure drop loss, large capacity, accurate flow,require minimal maintenanc etc.It is Widely used in the precise control of gas, liquid, steam and other medium, and process parameters such as pressure, flow rate, temperature and liquid level easily maintain at a desired set point.

This regulator is usually installed in 90 ° bend position and there is no unseen place and easy to clean so it is specially suitable for the medium of big viscosity, easy to crystallize and containing suspended particles and it is mostly used in food industry.

There are four models to choose from:1.Insulation Type,2.Low Temperature Type,3.High Temperature Heat Type,4.Bellows Seal Type

This regulator is designed and manufactured according to the standard of AMSE/API/BS/DIN/GB.we can also design and manufacture according to buyer's special requirement.



1. Membrane Cover 2. Diaphragm 3. Spring 4.Push Rod 5. Stent 6. Stem 7. Cover 8.Valve core 9.Valve seat 10. Body

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(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(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

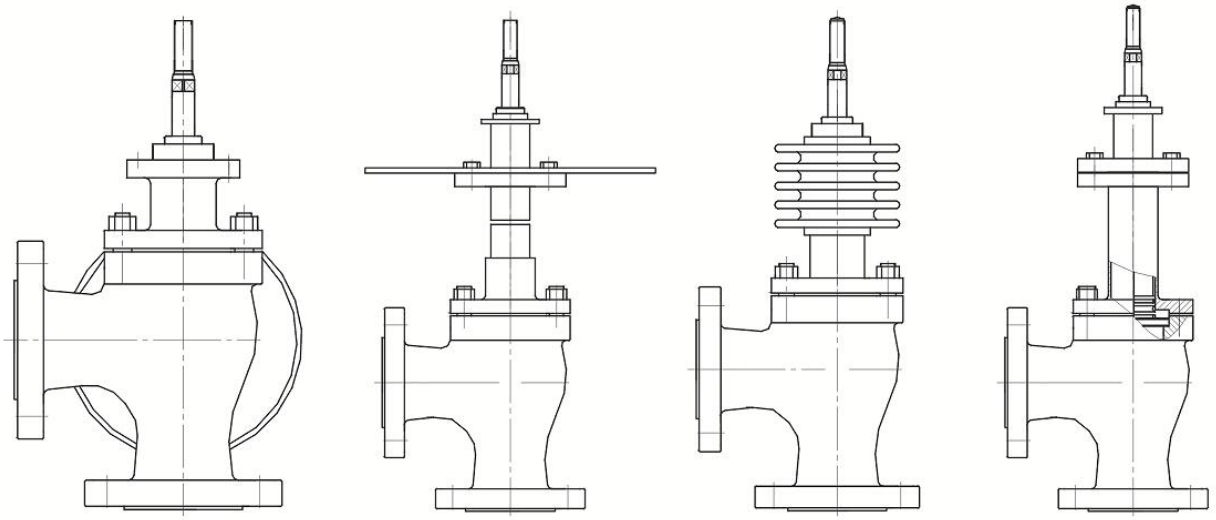
Nominal pressure (PN)/CLass	MPa	1.6，2.5，4.0，6.4(6.3)/2.0，5.0，11.0
	Bar	16，25，40，64(63)/20，50，110
	Lb	ANSI：Class150、Class300、Class600
Flow characteristic		Line; Percentage
Adjustable (R)		50:1
Spring (signal) KPa		20～100、40～200、80～240、（20～60、60～100）
Air pressure Ps（MPa）		0.14/0.25/0.3
Leakage		Class IV；Class VI

Working Temperature T(℃)	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

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

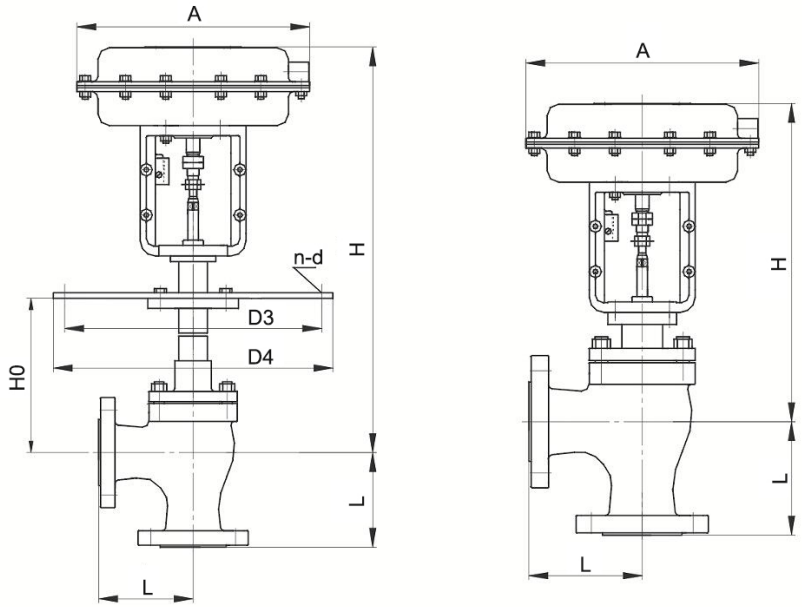


1 2 3 4

1.Insulation Type 2.Low Temperature Type

3.High temperature heat Type 4.Bellows Seal Type

Overall Dimensions



Units: mm

DN			20	25	32	40	50	65	80	100	125	150	200
A			282	282	308	308	308	394	394	394	498	498	498
L	PN16/20/25		95	100	105	115	125	145	155	175	200	225	275
	PN40		95	100	105	115	125	145	155	175	200	225	275
	PN64(63)/50		115	115	130	130	150	170	190	215	250	275	325
H	standard	PN16/25	388	388	395	415	430	515	533	551	630	696	715
		PN40	388	388	395	415	430	515	533	551	630	696	715
		PN64(63)	395	395	415	435	465	535	572	580	680	730	762
	High temperature		440	440	458	478	493	594	628	646	750	846	915
	Bellows Seal		440	440	458	450	493	594	628	646	750	846	804
H_0	-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 (Low Temperature)	-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
ΦD_3			260	260	285	305	340	370	405	460	525	590	700
ΦD_4			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