

AR120
(DN20~DN300)



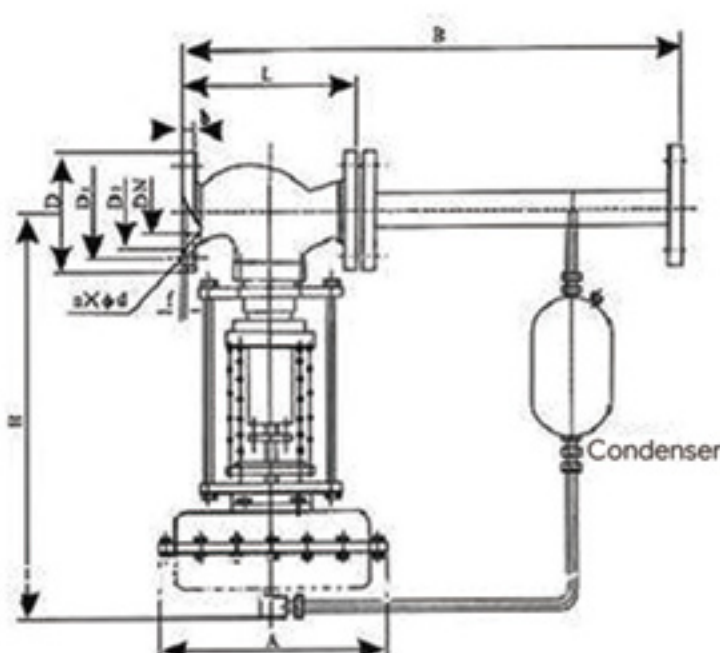
The Self-Operated Pressure Control Valve

The self-operated pressure control valve doesn't need external energy, and uses the energy of the medium to be adjusted as the power source, introduces the actuator to control the position of the spool, and changes the different pressures and flows at both ends to stabilize the pressure before the valve or after the valve. It has the advantages of sensitive action, good sealing performance and small fluctuation of pressure set point. It is widely used in the automatic control of gas, liquid and vapor medium decompression regulation or pressure relief.

This series of products has three structure types: single seat type (ZZYP), sleeve type (ZZYM) and double seat type (ZZYN); The actuator has two types: diaphragm type and piston type; The product's nominal pressure rating is PN16, 40, 64; The valve body diameter range is from DN20 to 300; The leakage level is class II, IV and VI; The flow characteristics are fast opening; The pressure section is adjusted from 15 KPa to 2500 KPa, and also can be adjusted to meet different requirements.

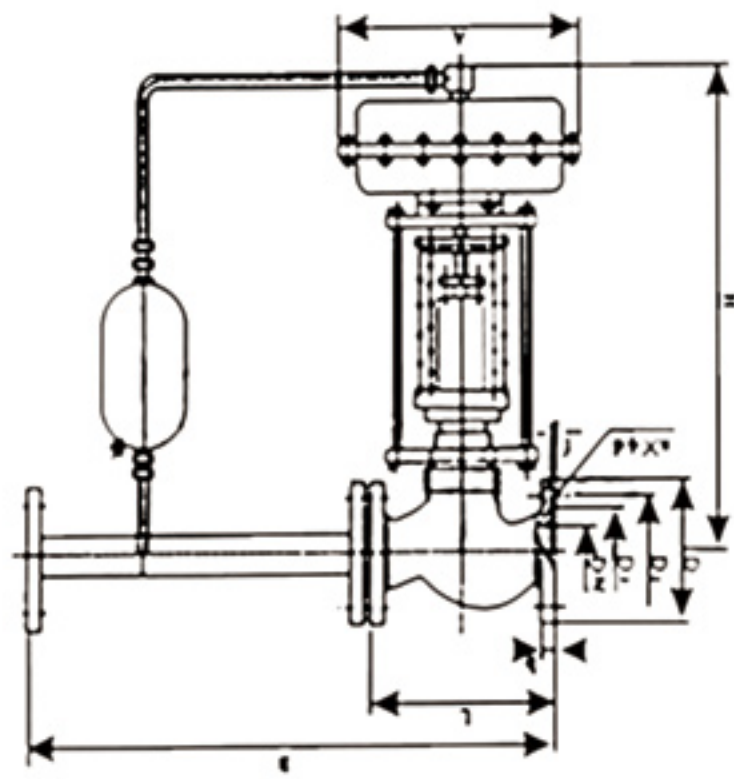
Features:

1. The self-operated pressure control valve can work without external energy supply, even work in a place without electricity or gas, which is convenient and energy saving.
2. The pressure setting value can be continuously set during operation, and as for the pressure rating of the post valve, the ratio of upstream pressure to downstream pressure is 10:1~10:8.
3. The adoption of rubber diaphragm type detection enables the actuator works with high detection accuracy and sensitive action.
4. To make the control valve more sensitive and precise, the pressure balance mechanism is adopted by AEN.TECH.



Specifications

Valve body:	ZG230-450, ZG1Cr18Ni9Ti, ZG0Cr18Ni12M02Ti
Spool:	1Cr18Ni9Ti, 0Cr18Ni12M02Ti
Seat:	1Cr18Ni9Ti, 0Cr18Ni12M02Ti
Valve stem:	1Cr18Ni9Ti, 0Cr18Ni12M02Ti
Membrane cover:	A3, A3 steel coated with tetrafluoroethylene, stainless steel
Filler:	polytetrafluoroethylene, flexible graphite
Rubber diaphragm:	butyl, ethylene, propylene, fluorine, oil resistant rubber



Dimension

DN	20	25	32	40	50	65	80	100	125	150	200	250	300
Rated flow coefficient(KV)	7	11	20	30	48	75	120	190	300	480	760	1100	1750
Rated stroke(mm)	8		10		14	20		25	40		50	60	70
Nominal pressure(MPa)	1.6 4.0 6.4												
Pressure adjustment range(MPa)	15~50 40~80 60~140 120~220 160~220 200~260												
	240~300 280~350 330~400 380~450 480~560 540~620												
	600~700 680~800 780~900 880~1000 950~1500 1000~2500												
Flow characteristics	Quick opening												
Adjustment accuracy%	±5												
Operating temperature(°C)	≤350												
Allowable leakage	Hard seal(1/h)	Single seat:≤10-4 valve rated capacity(class IV); double seat, sleeve: ≤5×10-4 valve rated capacity(Class II)											
	Soft seal(1/h)	0.15	0.3	0.45	0.6	0.9	1.7	4	6.75	11.1	16		
Decompression ratio	Maximum	10											
	Minimum	1.25											

DN	20	25	32	40	50	65	80	100	125	150	200	250	300	
Flange connector size (B)	383		512		603	862		1023	1380		1800	2000	2200	
Flange face distance (L)	150	160	180	200	230	290	310	350	400	480	600	730	850	
15-140	H	475		520		540	710		780	840	880	915	940	1000
	A	280		308										
200-500	H	455		500		520	690		760	800	870	880	900	950
	A	230												
120-300	H	450		490		510	680		750	790	860	870	890	940
	A	176				194				280				
480-1000	H	445		480		670		740	780	850	860	880	930	
	A	176				194				280				
600-1500	H	445		570		600	820		890	950		1000	1100	1200
	A	85		96										
1000-2500	H	445		570		600	820		980	950		1000	1100	1200
	A	85		96										
(Kg)	26		37		42	72	90	114	130	144	180	200	250	
Pressure pipe joint thread	M1.6×1.5													

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