



## GENERAL

ZZY series self-operated pressure control valve is a kind of energy-saving type pressure regulating valve that does not need external energy and realizes the automatic regulation of inspiration and expiration through pressure change of regulated medium itself, with a constant value of pressure in front of (or behind) the stable valve.

## SPECIFICATIONS AND TECHNICAL DATA

### BODY

Body style: Straight Single Seat/Double Seat/Three-way Foundry Ball Valve

DN: 25~300mm

PN: PN16, 40, 63

Joint style: Flange

Flange standard: Steel flange as per ANSI B16.5,DIN,GB9113-2000, JB/T-94,

Format of sealing surface: Convex face for PN16, Convex &concave for PN 40, 63

Face to Face Dimension: as per ANSI B16.10,DIN

Material: A216 WCB, A351 CF8, A351 CF8M

Structural style: \*Standard(-5°C ~ +80°C)

\*Medium Temperature(Condensator)(<+ 0°C)

\*Bellow Balanced Type

\*Plunger Balanced Type

Press-cap: Screw Thread type or Press-plate Type

Packing: V-Type PTFE, soft graphite

Gasket: Pattern.....tooth-shape and flat

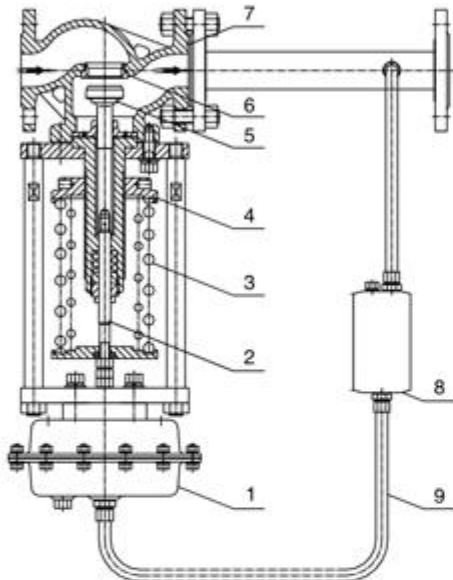
Material.....F4/reinforced F4, stainless steel and graphite

**Table 3**

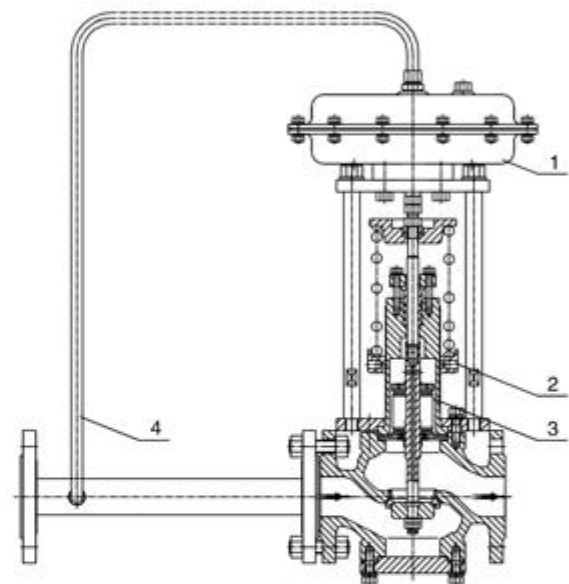
Unit: KPa

Front Pressure	Behind Pressure	Front Pressure	Behind Pressure	Front Pressure	Behind Pressure	Front Pressure	Behind Pressure
30	15 ~ 24	350	35 ~ 280	700	70 ~ 560	1250	125 ~ 1000
50	15 ~ 40	400	40 ~ 320	750	75 ~ 600	1500	150 ~ 1200
100	15 ~ 80	450	45 ~ 360	800	80 ~ 640	2000	200 ~ 1600
150	15 ~ 120	500	50 ~ 400	850	85 ~ 680	2500	250 ~ 2000
200	20 ~ 160	550	55 ~ 440	900	90 ~ 720	3000	300 ~ 2400
250	25 ~ 200	600	60 ~ 480	950	95 ~ 760		
300	30 ~ 240	650	65 ~ 520	1000	100 ~ 800		

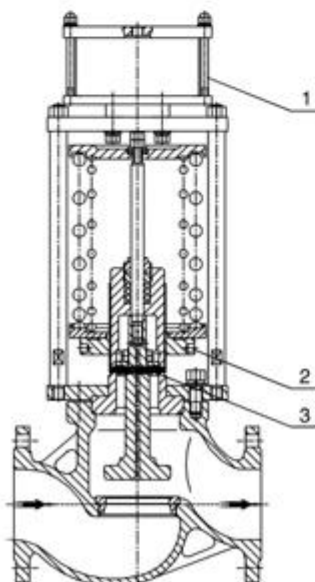
**ZZY SELF-OPERATED PRESSURE CONTROL VALVE STRUCTURE**



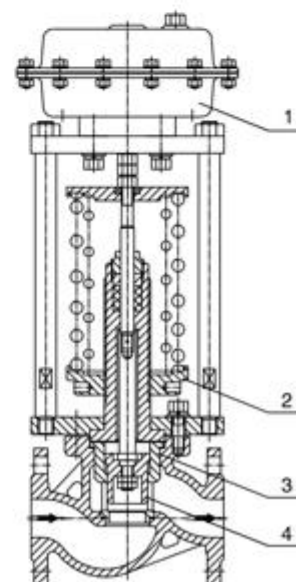
1. Actuator 2. Stem 3. Spring 4. Adjusting Plate  
5. Core 6. Seat 7. Body 8. Condensator 9. Pressure Pipe  
Chart 1 ZZY-B Single Seat Normal Type (Behind of valve)



1. Actuator 2. Adjusting Plate 3. Bellow Pipe 4. Pressure Pipe  
Chart 2 ZZY-K Single Seat Bellow Balanced Type (Front of Valve)

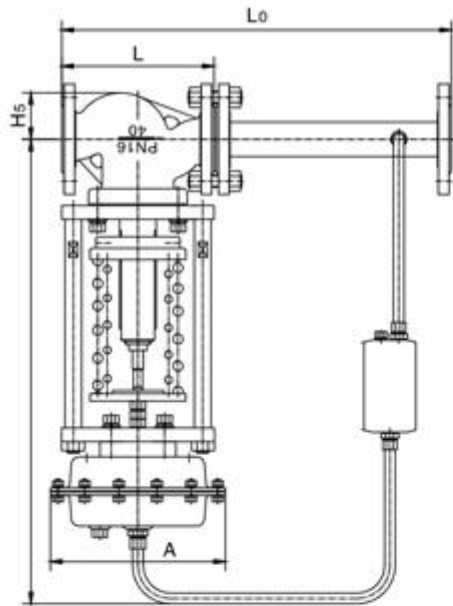


1. Actuator 2. Adjusting Plate 3. Balanced Piston  
Chart 3 ZZY-B Single Seat Piston Balanced Type (Behind of Valve)

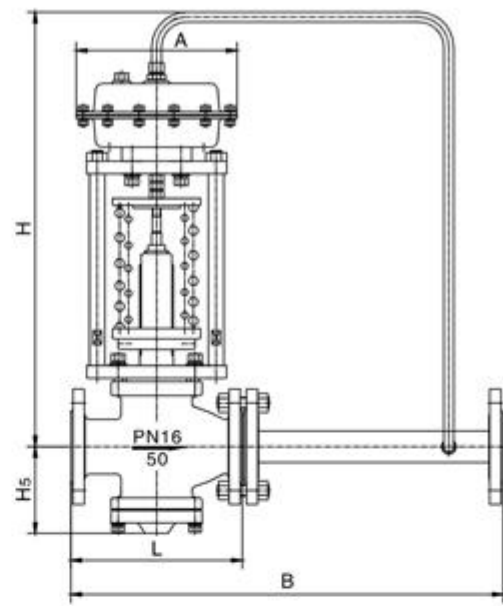


1. Actuator 2. Adjusting Plate 3. Sleeve 4. Core  
Chart 4 ZZY-B Sleeve Type (Behind of Valve)

## SIZE AND WEIGHT



Single Seat/Sleeve Type



Double Seat Type

Table4-1 (Single Seat/Sleeve)

Unit : mm

Nominal Bore (mm)	L		B	Hs	H											
	PN16 PN40	PN63			A=176	A=195		A=230	A=280			A=308				
						120-300	480-1000		120-300	480-1000	280-500	40-80	60-140	120-300	480-1000	15-50
20	150	230	383	43	585	585	-	-	595	595	595	-	-	-	-	-
25	160	230	383	48	585	585	-	-	595	595	595	-	-	-	-	-
32	180	260	512	57	595	595	-	-	605	-	-	-	-	605	605	605
40	200	260	512	66	610	610	-	-	620	-	-	-	-	620	620	620
50	230	300	603	80	620	620	-	-	630	-	-	-	-	630	630	630
65	290	340	862	92	-	-	720	720	730	-	-	-	-	730	730	730
80	310	380	862	100	-	-	735	735	745	-	-	-	-	745	745	745
100	350	430	1023	120	-	-	750	750	760	-	-	-	-	760	760	760
125	400	500	1380	134	-	-	-	-	790	-	-	790	790	790	790	790
150	480	550	1380	156	-	-	-	-	805	-	-	805	805	805	805	805
200	600	650	1800	199	-	-	-	-	855	-	-	855	855	855	855	855

Table4-2 (Double Seat)

Unit : mm

Nominal Bore (mm)	L		B	Hs	H											
	PN16 PN40	PN63			A=176	A=195		A=230	A=280			A=308				
						120-300	480-1000		120-300	480-1000	280-500	40-80	60-140	120-300	480-1000	15-50
25	160	230	383	110	615	615	-	-	625	625	625	-	-	-	-	-
32	180	260	512	130	625	625	-	-	635	635	635	-	-	-	-	-
40	200	260	512	135	630	630	-	-	640	-	-	-	-	570	570	570
50	230	300	603	145	650	650	-	-	660	-	-	-	-	586	586	586
65	290	340	862	175	755	755	-	-	765	-	-	-	-	607	607	607
80	310	380	862	195	-	-	770	770	780	-	-	-	-	724	724	724
100	350	430	1023	210	-	-	780	780	790	-	-	-	-	747	747	747
125	400	500	1380	265	-	-	-	-	855	-	-	855	855	855	855	855
150	480	550	1380	280	-	-	-	-	860	-	-	860	860	860	860	860
200	600	650	1800	345	-	-	-	-	915	-	-	915	915	915	915	915
250	730	775	2000	425	-	-	-	-	990	-	-	990	990	990	990	990
300	850	900	2200	485	-	-	-	-	1065	-	-	1065	1065	1065	1065	1065

Note: Valve body flange and The distance between flange and flange surface as per specified standard offered by customer. For example: ANSI, JIS, DIN standard.