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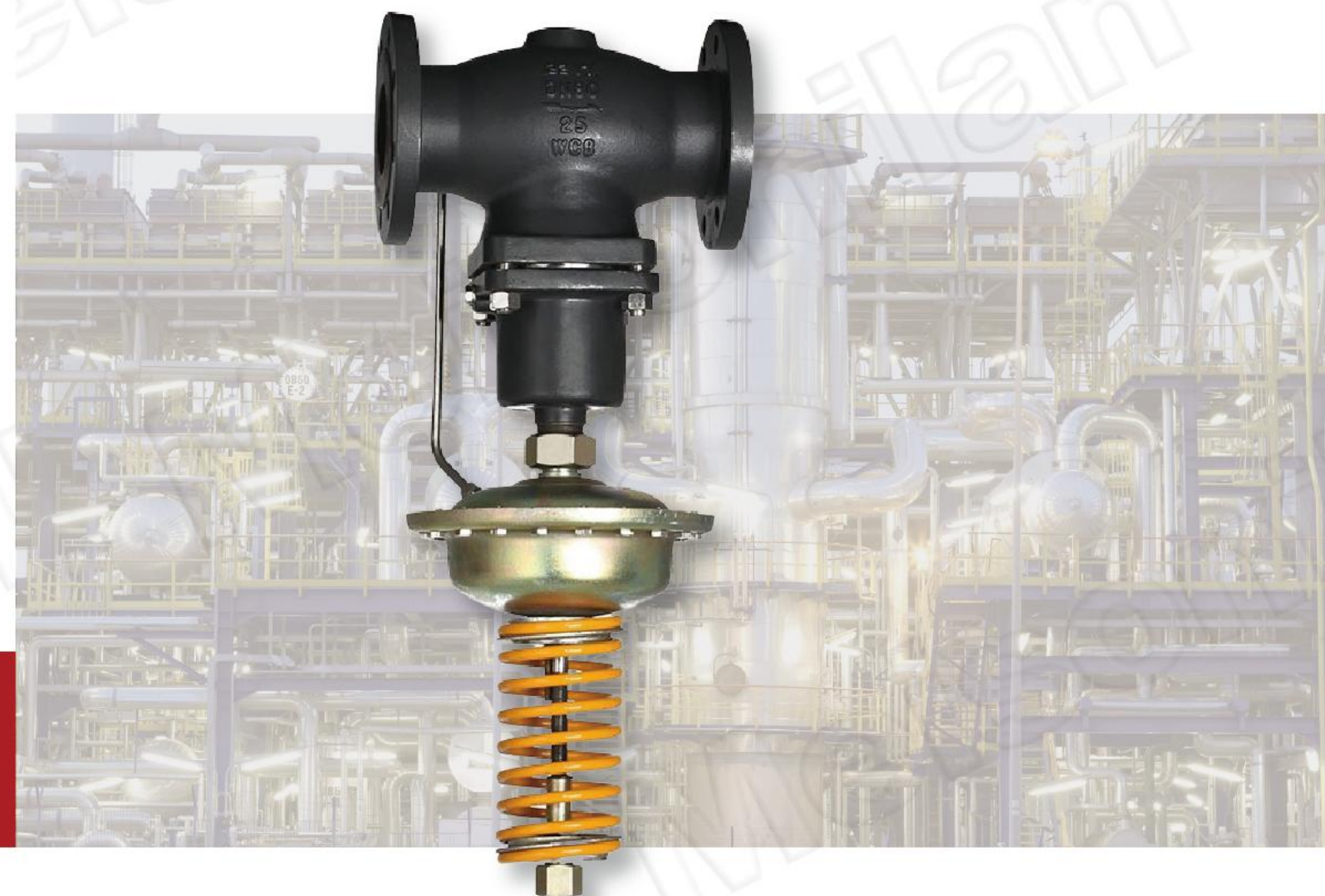
80D02Y、80D02R 自力式（阀前）压力控制阀

Meisonilan®

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CONTROL VALVE

► 80D02Y、80D02R自力式（阀前）压力控制阀

Meisonilan®

Automation Instrument

► 80D02Y、80D02R self-operated (before-valve) pressure control valve



▲ 概述

80D02Y、80D02R 自力式（阀前）压力控制阀,由控制阀门、执行器和一个设定压力的弹簧组成适用于非腐蚀性的液体、气体和蒸汽，在系统管道中的阀前压力控制，当阀前压力升高时，控制阀开启。

产品特点如下：

- 1、具有压力平衡功能，灵敏度高
- 2、低噪音，性能可靠，免于维护
- 3、采用标准模块化设计
- 4、通过组合件，可以进行多项组合控制

▲ Summary

The 80D02Y、80D02Rself-operated (before-valve) pressure control valve is composed of the control valve, actuator and a spring used for pressure setting. It is suitable for controlling before-valve pressure in the pipes of non-corrosive liquids, gases and steams. When the before-valve pressure rises, the control valve is opened.

The main features are as follows:

- 1.It has the pressure balancing function with high sensitivity.
- 2.Low noise, reliable performance, free of maintenance
- 3.The standard modular design is adopted.
- 4.Various combined controls can be carried out through the assemblies.

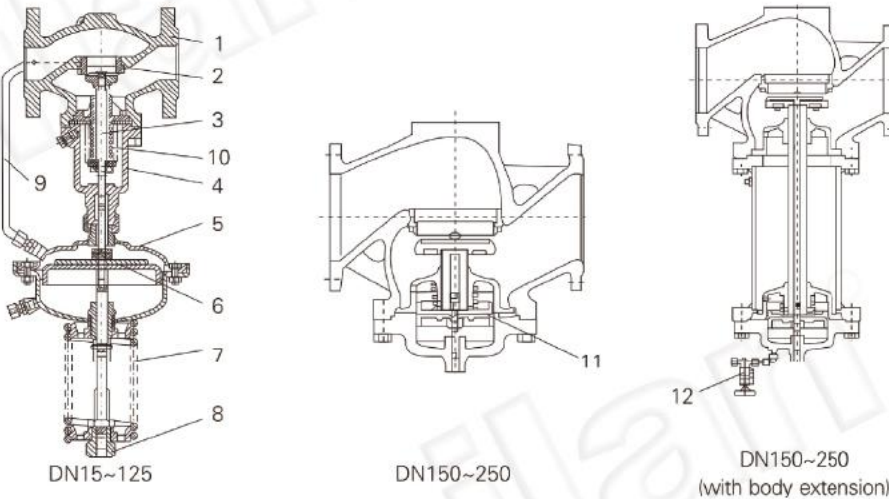
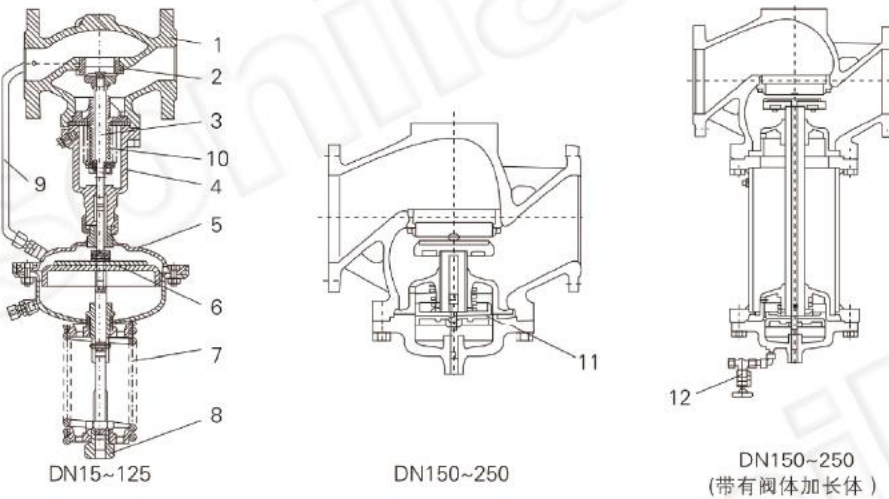


技术参数和性能				
阀体				
公称通径		DN15、20、25、32、40、50、65、80、100、125、200、250mm		
公称压力		PN1.6、4.0MPa		
法兰标准		ANSI、JIS、DIN、GB、JB（特殊可按用户提供）		
阀体材料		铸铁（HT200）、铸钢（ZG230-450）、铸不锈钢（ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti）		
阀芯材料	硬密封	不锈钢（1Cr18ni9Ti、1Cr18Ni12MoTi）		
	软密封	不锈钢镶嵌橡胶圈		
压力平衡		不锈钢波纹管（DN15~125）、平衡膜片（DN150~250）		
执行器				
有效面积(cm ²)	32※	80	250	630
压力设定范围(MPa)	1.0~1.6	0.1~0.5	0.015~0.25	0.005~0.035
	0.3~1.12	0.05~0.25	0.01~0.06	
保证压力阀正常工作的最小压差△P	≥0.05	≥0.04	≥0.01	≥0.005
允许上下膜室之间最大压差(MPa)	2.0	1.25	0.4	0.15
材 料		膜盖：钢板镀锌； 膜片：EPDM或FKM夹纤维		
控制管线、接头		铜管或钢管Φ10X1(mm)； 卡套式接头：R1/4"		
注：※该有效面积所对应的压力设定范围不适用于DN150~250				
性能				
设定值偏差		±8%		
允许泄漏量 (在规定的实验条件下)	硬密封 软密封	4×0.01%阀额定容量		
		DN15~50 10气泡/min	DN65~125 20气泡/min	DN150~250 40气泡/min

Technical parameters and performances						
Body						
DN	DN15、20、25、32、40、50、65、80、100、125、200、250mm					
PN	PN1.6、4.0MPa					
Flange standard	ANSI、JIS、DIN、GB、JB(special standards can be offered according to user requirements)					
Body material	Cast iron (HT200), cast steel (ZG230-450), cast stainless steel (ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti)					
Plug material	Hard seal	Stainless steel (1Cr18Ni9Ti, 1Cr18Ni12Mo2Ti)				
	Soft seal	Stainless steel embedded with rubber ring				
Pressure balancing	Stainless steel bellows (DN15~125), balanced diaphragm (DN150~250)					
Actuator						
Effective area	32 ※	80	250	630		
Pressure setting range	1.0~1.6 0.3~1.1	0.1~0.5 0.05~0.25	0.015~0.12 0.01~0.06	0.005~0.035		
Minimum differential pressure that ensures normal work of the pressure valve	≥0.05	≥0.04	≥0.01	≥0.005		
Allowable maximum differential pressure between the upper and lower diaphragm chambers	2.0	1.25	0.4	0.15		
Material	Diaphragm cover: galvanized steel sheet; diaphragm: EPDM or FKM with fiber					
Control pipeline, connection	Copper pipe or steel pipe Φ10X1(mm); ferrule connection: R1/4"					
Note: ※ The pressure setting range corresponding to the effective area does not apply to valves with DN150~250.						
Performance						
Set value error		± 8%				
Allowable leakage (under stipulated testing conditions)	Hard seal	4x0.01% valve rated capacity				
		DN15~50 10 bubbles/min	DN65~125 20 bubbles/min	DN150~250 40 bubbles/min		
	Soft seal					

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结构简图											
1	阀体	2	阀座	3	阀轴	4	阀盖	5	膜盖	6	膜片
7	弹簧	8	调节螺母	9	导压管	10	波纹管	11	平衡膜片	12	充注阀

Structural figure											
1	Body	2	Seat	3	Valve shaft	4	Bonnet	5	Diaphragm cover	6	Diaphragm
7	Spring	8	Adjusting nut	9	Pressure pipe	10	Bellows	11	Balanced diaphragm	12	Charging valve

允许工作温度		
公称通径	15~125mm	150~250mm
密封型式	硬密封	≤150℃ 冷却罐≤200℃ 冷却罐和加长≤350℃※
	软密封	≤150℃ 冷却罐和加长≤350℃※
		≤150℃

Allowable working temperature		
DN	15~125mm	150~250mm
Seal type	Hard seal	≤150℃ Cooling tank≤200℃ Cooling tank and heat sink≤350℃※
	Soft seal	≤140℃ Cooling tank and extension≤200℃ Cooling tank and extension≤300℃※
		≤150℃

注：※表示该阀允许工作温度，仅当介质为蒸汽式有效，且耐温之至350摄氏度需选用PN40的阀体

Note: ※ It indicates the allowable working temperature is valid only when the medium is steam and the bodywith PN40 shall be adopted when the temperature resistance is 350℃.

额定流量系数、噪音衡量系数、允许压差													
公称通径DN	15	20	25	32	40	50	65	80	100	125	150	200	250
额定流量系数Kvs	4	6.3	8	16	20	32	50	80	125	160	280	320	450
噪音衡量系数 Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
允许压差 (Mpa)	PN16 PN40												

Rated flow coefficient, noise measuring coefficient, allowable differential pressure													
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Rated flow coefficient	4	6.3	8	16	20	32	50	80	125	160	280	320	450
Noise measuring coefficient Z value	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
Allowable differential pressure	PN16 PN40												

工作原理

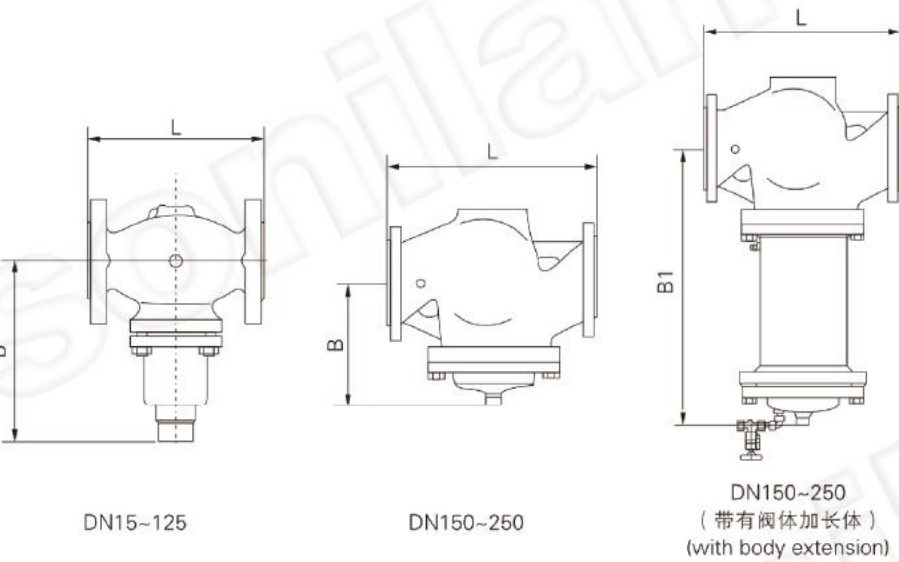
工艺介质的阀前压力P1经过阀芯、阀座的节流后变为阀后压力P2。同时P1通过控制管线输入到执行器的上膜室内作用在顶盘上，产生的作用力于弹簧的反作用力相平衡，决定了阀芯、阀座的相对位置，控制阀前压力。当阀前压力P1增加时，P1作用在顶盘上的作用力也随之增加。此时，顶盘的作用力大于弹簧的反作用力，使阀芯向离开阀座方向移动，直到顶盘的作用力与弹簧反作用力相平衡为止。此时，阀芯与阀座之间的流通面积变大，流阻变小，从而使P1降为设定值。同理，当阀后压力P2降低时，作用方向与上述相反，这就是阀后压力调节时的工作原理。

当需要改变阀后压力P1的设定值，可调整调节螺母。

Working principle

After throttling by the plug and seat, the before-valve pressure P1 of the process medium is changed into the after-valve pressure P2. Through the control pipeline, P1 is input to the upper diaphragm chamber of the actuator and acts on the top disc. The acting force produced balances the reacting force of the spring, determining relative positions of the plug and seat and controlling the before-valve pressure. When the before-valve pressure P1 increases, the acting force of P1 that acts on the top disc will increase accordingly. At the time, the acting force on the top disc is higher than the reacting force of the spring to make the plug move away from the seat, until the acting force on the top disc balances the reacting force of the spring. At the time, the flow area between the plug and seat is increased, the flow resistance becomes lower and P1 is reduced to the set value. Likewise, when the before-valve pressure P1 decreases, the acting direction is reverse to the above. This is the working principle during the control of before-valve pressure. When it is necessary to change the set value of before-valve pressure P1, please adjust the adjusting nut.

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pressure control valve



一、控制阀尺寸及重量 Dimensions and weight of control valve													
DN (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250
L (mm)	130	150	160	180	200	230	290	310	350	400	480	600	730
B (mm)	212	212	238	238	240	240	275	275	380	380	326	354	404
B1(mm)	--	--	--	--	--	--	--	--	--	--	630	855	1205
重量 Weight(Kg)	--	--	--	--	--	--	--	--	--	--	140	210	300

二、执行器尺寸及重量 II. Dimensions and weight of actuator				
有效面积(cm²) Effective area(cm²)	32	80	250	630
R (mm)	172	172	263	380
H (mm)	435	430	470	520
重量 Weight(Kg)	7.5	7.5	13	28

