



# SELF-ACTUATED CONTROL VALVE SERIES

自力式调节阀系列



# SELF-ACTUATED CONTROL VALVE SERIES 自力式调节阀系列



### 产品特点 Products Features

计算与选型简单; 维护简单且方便;

设计紧凑合理,使用寿命长;

阀体通径从 DN15~300 (1/2"~12");

压力等级从 PN1.0~16.0MPa (ANSI 150~900LB);

可供选择类型范围广泛。

Simple calculation and selection;

Maintenance is simple and converuent;

Reasonably compact design, long life;

Valve diameter from DN15 to 300 (1/2" to 12");

Pressure rating from PN1.0 to 16.0MPa (ANSI 150 to 900LB);

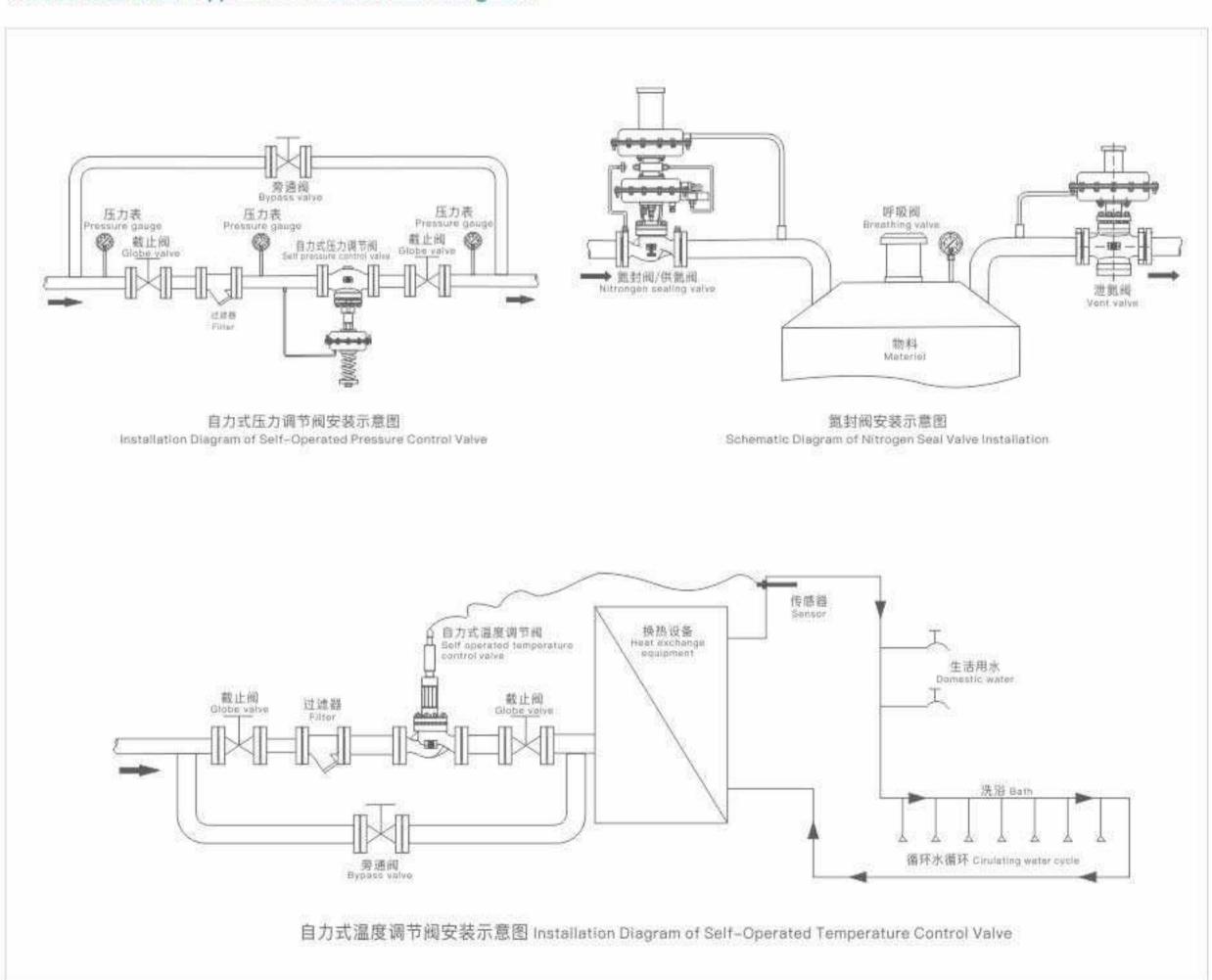
Choose from a wide variety range.

## 应用范围 Applied Range

石油天然气、环保水处理、生物制药、化工、电力、食品、造纸、冶金、采矿、船舶及一般工业系统。

Petroleum and natural gas, environmental protection water treatment, bio pharmaceutical, chemical, electric power, food, paper, metallurgy, mining, shipping and general industrial systems.

## 典型安装示意图 Typical Installation Diagram





## SELF-ACTUATED PRESSURE CONTROL VALVE

自力式压力调节阀



# SELF-ACTUATED PRESSURE CONTROL VALVE 自力式压力调节阀



## 产品特点 Products Features

- 1、无需外加能源,节约了能源。
- 2、压力分段范围细且互相交叉,调节精度高。
- 3、压力设定值在运行期间可连续设定。
- 4、对阀后压力调节、阀前压力与阀后压力之比可为10:1~10:8。
- 5、橡胶膜片式检测,执行机构检测精度高、动作灵敏。
- 6、采用压力平衡机构,使调节阀反应灵敏、控制精确。
- Needing little external energy and saving energy.
- 2. Pressure subsection ranges are small and crossing over one another, contributing to high regulation precision.
- 3. Pressure set value can be successively set during operation process.
- 4. As to adjustment of pressure after valve match, proportion of upstream pressure and downstream pressure can be 10:1~10:8.
- 5. In terms of rubber diaphragm type detection, actuator can conduct detection of high precision and agile action.
- 6. Adoption of pressure balance mechanism makes action of this control valve sensitive and its control accurate.

## 技术参数 Technical Parameters

阀体形式 Body form	直通式铸造阀体 Straight-through cast body
阀芯形式 Plug type	非平衡式单座阀芯 Non-balanced single seat plug
公称通径 Nominal diameter	DN15~300mm NPS 1/2"~12"
公称压力 Nominal pressure	PN1.6~4.0MPa; CLASS 150~1500LB
适用温度 Applicable temperature	-20~+350℃
连接形式 Type of connection	法兰式 Flange
法兰距 Flange distance	符合IEC 60534 Meet IEC 60534
泄漏等级 Leakage level	按ASME B16.104规定 As per ASME B16.104
设定值偏差 Set value deviation	±8%
执行器 Actuator	气动执行器(薄膜式、活塞式)Pneumatic actuator (film type, piston type)

## SELF-ACTUATED PRESSURE CONTROL VALVE 自力式压力调节阀



## SELF-ACTUATED PRESSURE CONTROL VALVE 自力式压力调节阀



## 结构与材料 Structure and Materials

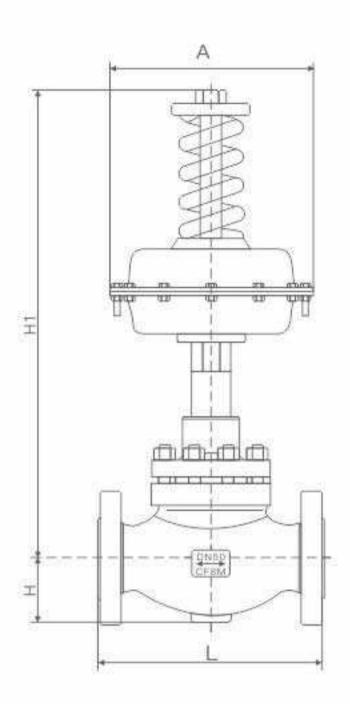
公称通径 NPS	No. of the last of	15 1/2	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80 3	100 4	125 5	150 6	200 8	250 10
额定流量 Flow coeff		7	11	20	30	48	75	120	190	300	480	760	1100	1750
额定行程 Rated trav		1	3	3	10	14	4	20	25	4	0	50	60	70
公称压力 Pressure								1.6 、4.0	)					
压力调节剂 Pressure ra			15 ~ 50, 40 ~ 80, 60 ~ 100, 80 ~ 140, 120 ~ 180, 160 ~ 220, 200 ~ 260, 240 ~ 300, 280 ~ 350, 330 ~ 400, 380 ~ 450, 430 ~ 500, 480 ~ 560, 540 ~ 6									~ 620、		
固有流 Flow chara			快开 Quick open											
调节精 Adjustment	27.2 () 2.3 ()							±5						
使用温 Use temp								≤350						
硬密封 允许泄漏量 Hard seal			Si		: ≤10°x at:≤10°Ra								н)	
Allowable leakage	软密封 Soft seal	0.	15	0	.30	0.45	0.60	0.90	1.70	4	.0	6.75	11.10	16.0

## 主要零件材料 Part material

阀体 Body	ZG230~450, ZG1Cr18Ni9Ti, ZGCr18Ni12Mo2Ti	
阀芯 Plug	1Cr18Ni9Ti, Cr18Ni12Mo2Ti	
阀座 Seat	1Cr18Ni9Ti,Cr18Ni12Mo2Ti	
阀杆 Stem	1Cr18Ni9Ti. Cr18Ni12Mo2Ti	
执行器材质 Actuator material	A3,1Cr18Ni9Ti	
填料Packing	聚四氟乙烯、柔性石墨 PTFE,Flexible graphite	
膜片 Diaphragm	丁腈橡胶、耐油橡胶、氟橡胶 Nitrile rubber, oil resistant rubber, fluorine rubber	

注:常规材质为碳钢和不锈钢两种,可根据用户现场条件订制特殊材质控制阀产品。 The conventional material is carbon steel and stainless steel, and the special material regulating valve products can be customized according to the user's work conditions.





## 主要外形连接尺寸 Main External Connection Dimensions

公称通径DN(mm) NPS(in)	15 1/2	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100	125 5	150 6	200 8	250 10
	185	200	205	222	254	276	298	352	410	451	600	670	735
Н	52.5	57.5	67.5	72.5	80	90	97.5	107	122	140	167	225	230
H1	615	645	650	710	730	745	760	800	890	960	1050	1	À

注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。

2、由于产品的技术创新与改进,尺寸可能会有所变化、最新资料请联系本公司技术部。

Note: 1. The dimensions in the table are standard data without accessories. The dimensions of accessories are calculated according to the actual configuration. 2. Due to the technical innovation and improvement of the product, the size may change. Please contact the technical department of the Company for the latest information.



## SELF-OPERATED MICRO PRE-SSURE CONTROL VALVE

自力式微压调节阀



## SELF-OPERATED MICRO PRE-SSURE CONTROL VALVE 自力式微压调节阀



## 产品特点 Products Features

该系列自力式微压调节阀,采用平衡单座阀,在运行中可任意对设定值进行调整等特点。因而适用于各种工业炉燃烧系统,控制两种燃料气体混合比流量或用于氢冷发电机组密封油系统中、石油制品或油库贮罐保护气体与热处理保护气体的微压自动调节等场合,还可用于各种工业气体的减压、稳压或泄压的自动控制。

Owing to its adoption of balanced single seated valve and random adjustment of set value in service, this serial self-operated micro pressure control valve is applicable to combustion systems of various industrial furnaces, control of mixed specific discharges of two kinds of fuel gas, sealed oil system for hydrogen-cooled generator set, petroleum products, and micro pressure automatic regulation of protective gas and heat treating protective gas in oil storage tanks. In addition, it is suitable for automatic control of pressure reducing, stabilization and relief of all industrial gases.

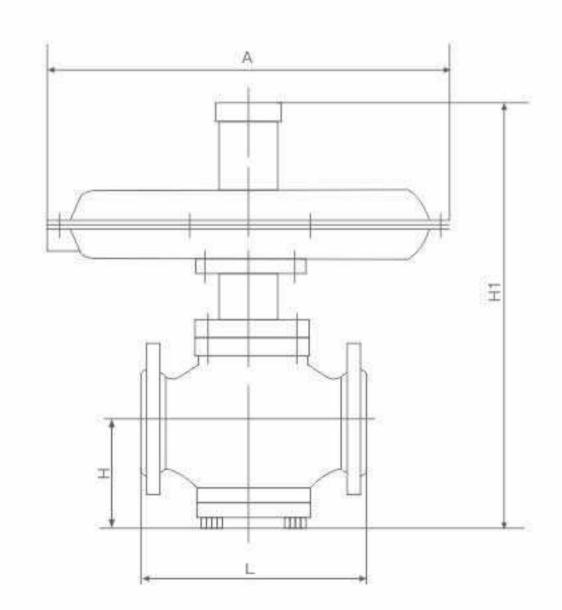
## 技术参数 Technical Parameters

公称通径DN NPS(in		15 1/2	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80 3	100 4	125 5	150 6				
额定流量系 Flow coeffici		7	11	20	30	48	75	120	190	300	480	760				
允许压差	PN16				1	.6		,		1	.5	1.2				
Ug-Us (MPa)	PN40				2	.0					.0	1.4				
阀盖形式 Bonnet fo	320					标准题	진 Standar	d type								
压盖型式 Glar	nd type		螺栓压紧式 Boit pressing type													
密封填料 Sealing pac		聚四氟乙烯、柔性石墨 PTFE, Flexible graphite														
压力范围 Pressure rang			0.5~6 5~10 9~15 12~19 18~25 22~30 28~35 32~40 38~50 48~60 58~72 70~100													
最小压差 Minimum Pre difference	essure					≥	•0.01(MP	а)								
工作温度 Working temp							≤80°C									
适合介质 Suitable me				气	体、蒸汽、	低粘度液体	本 Gas, St	eam, Low v	iscosity lic	quid						
阀芯形式 Plu	g form			单座、套筒型阀芯 The single seater, sleeve type valve												
流量特性 Flow charace	TH 1960					直线	性 Straigh	nt line								









## 主要性能参数 Main Performance Parameters

调节精度Cor	itrol accuracy						≤10%					
允许泄漏量 Allowable leakage	硬密封 Hard seal				4x0.0	01%阀额定	E容量 Rate	ed valve ca	apacity			
	软密封 Soft seal						DN (mm	)				
		20	25	32	40	50	65	80	100	125	150	200
		0.	15	0	.3	0.45	0.6	0.9	1.7	4	.0	6.75

## 主要外形连接尺寸 Main External Connection Dimensions

公称通径DN(mm) NPS(in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100
L	150	160	180	200	230	290	310	350
Н	52.5	57.5	75	75	85.5	92.5	100	110
Н1	323	350	370	370	370	397	397	400
А	308	394	308	394	308	394	394	394
导压管接口螺纹 Interface thread				M16	×1.5			
重量G (Kg)	12	18	25	32	45	58	68	76

- 注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。
  - 2、由于产品的技术创新与改进,尺寸可能会有所变化,最新资料请联系本公司技术部。

Note: 1. The dimensions in the table are standard data without accessories. The dimensions of accessories are calculated according to the actual configuration. 2. Due to the technical innovation and improvement of the product, the size may change. Please contact the technical department of the Company for the latest information.

## SELF-OPERATED NITROGEN SEAL CONTROL VALVE

自力式氮封调节阀

## 产品概述 Product Overview

本公司生产的系列自力式氮封调节阀主要由控制阀门、执行器、指挥器、压力弹簧等部件组成。主要用于保持容器顶部保护气体(一般为氮气)的压力恒定,以避免容器内物料与空气直接接触,防止物料挥发、被氧化、以及容器的安全。适用于各类大型储罐的气封保护系统。

Serial self-operated nitrogen seal regulating valve of the company is mainly composed of several parts including actuated valve, actuator, director and pressure spring. It is utilized to maintain constant pressure of protective gas (generally nitrogen) on the top of containers for avoiding direct contacts of containers and materials, preventing materials from volatilizing and being oxidized and ensuring containers safeties. It applies to air seal protection systems of all kinds of large-scaled storage tank.



-071- www.bcstgroup.com info@bcstgroup.com -072-

# SELF-OPERATED NITROGEN SEAL CONTROL VALVE 自力式氮封调节阀



### 产品特点 Products Features

储罐内压力升高至设定压力时,快速泄放阀迅速开启,将罐内多余压力泄放。微压调节阀在储罐内压力降低时,开启阀门,向罐内充注氮气。因微压调节阀必须使用在压力为0.1MPa压力以下,现场压力较高,必须安装V230Y型压力调节阀将压力调节阀将压力降低至0.1MPa以下才可使用。公称压力0.1MPa,压力可按分段设定,从0.5KPa至66 KPa以下,介质温度≤80℃。

When pressure in a storage tank increases to setting pressure, quick relief valve should be unlocked instantly to release excess pressure in this tank. Valve of micro pressure regulating valve requires to be opened to fill the tank with nitrogen if pressure decay occurs in it. On the condition that micro pressure regulating valve must be used below 0.1MPa while the field pressure is relatively high, it can't be used until pressure is reduced below 0.1MPa by installed V230Y pressure regulating valve. The nominal pressure is 0.1MPa, and the pressure can be set in sections, from 0.5kPa to below 66kPa, and the medium temperature is ≤80°C.

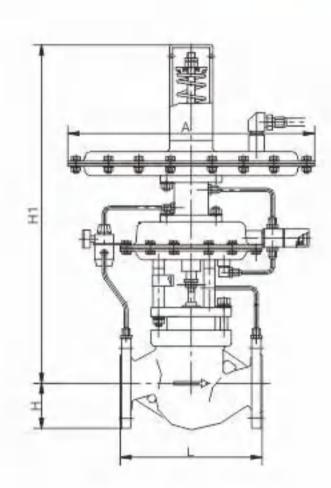
#### 技术参数 Technical Parameters

公称通径DN(mm) NPS(in)		20 3/4		25 1		0 1/2	50		3	100		50 6
阀座直径(mm) Valve seat diameter	6	15	20	25	32	40	50	65	80	100	125	150
额定流量系数Kv Rated flow coefficient	3.2	5	8	10	20	32	50	80	100	160	250	400
压力调节范围 Pressure regulating range	0.4 ~ (	0.5 5~1	0 9~14	13 ~ 19	18 ~ 24	22 ~ 28	27 ~ 33	36 ~ 44	42 ~ 51	49 ~ 58	56 ~ 66(	KPa)
公称压力PN Nominal pressure						1.0, 1	.6 MPa					
介质温度 Applicable temperature						-30~	150℃					
流量特性 Flow characteristics					Quicl		开型 characte	eristic				
调节精度 Adjustment precision						€.	5%					
允许压降(MPa) Allowable pressure drop		1	.6		1	.6	1.1	0	.6		0.4	
薄膜有效面积(cm²) Effective area of film		2	00			280				400		
泄漏等级 Leakage level		А	SME B16	.104 V (\$	吹密封 So	ft seal)	, ASME E	316.104  \	/(硬密封	d Hard se	al)	
阀体形式 Type of body					直通铸	造阀 Stra	ight casti	ng valve				
阀芯形式 Plug form		IJ	而 导向平	· 衡内件、	先导式组	吉构 Top (	guide bala	ance inner	r part, Pil	ot structu	ire	
连接方式 Connection mode						法兰式 FI	lange typ	9				

# SELF-OPERATED NITROGEN SEAL CONTROL VALVE 自力式氮封调节阀







#### 主要外形连接尺寸 Main External Connection Dimensions

公称通径DN(mm) NPS(in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 1-1/2	80	100	125 5	150
L	150	160	180	200	230	290	310	350	400	480
Н	52.5	57.5	75	75	85.5	92.5	100	110	142.5	158
H1	330	330	350	350	360	430	440	450	520	650
A				31	0				40	00

注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。

2、由于产品的技术创新与改进,尺寸可能会有所变化,最新资料请联系本公司技术部。

Note: 1. The dimensions in the table are standard data without accessories. The dimensions of accessories are calculated according to the actual configuration. 2. Due to the technical innovation and improvement of the product, the size may change. Please contact the technical department of the Company for the latest information.

### 设计特色 Design Features

- 1、无需外加能源,能在无电、无气的场合工作,既方便又节约能源,降低成本。
- 2、氮封装置供氮,泄氮压力设定方便,可在连续生产的条件下进行。
- 3、压力检测膜片有效面积大,设定弹簧刚度小、动作灵敏、装置工作平衡。
- 4、采用无填料设计, 阀杆所受磨擦力小、反应迅速、控制精度高。
- 5、供氮装置采用指挥器操作,减压比可达100:1,减压效果好、控制精度高。
- 6、为确保储罐的安全,需在罐顶设置呼吸阀。
- 7、呼吸阀可起安全作用,避免了常规氮封装置中启闭频繁易损坏的缺陷。
- It can be operated on sites lacking of electricity and gas without any external energy, which is very convenient and conducive to energy saving and cost reduction.
- Utilization of nitrogen seal device to provide nitrogen makes pressure setting for releasing nitrogen convenient easy and it able to be conducted during successive production.
- 3. Pressure detection diaphragm has large active area with setting spring of low stiffness, agile action and balanced device operation.
- 4. Valve rod bears low frictional force, and embraces quick action and high control accuracy because non-padding design is adopted.
- As nitrogen supply device uses directing device to operate, pressure reducing ratio can reach 100:1. In addition, perfect pressure reducing effect and high control precision are also achieved.
- 6. To ensure safety of a storage tank, breather valve needs to be installed on the top of this tank.
- 7. Breather valve can exert safety function, stopping conventional nitrogen seal device from being brittle in the course of frequent start and stop.

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## SELF-OPERATED ELECTRONIC CONTROL TEMPERATURE CONTROL VALVE

## 自力式电控温度调节阀



## SELF-OPERATED ELECTRONIC CONTROL TEMPERATURE CONTROL VALVE

## 自力式电控温度调节阀



### 产品特点 Products Features

- 1、使用现场只须具有单相交流电源AC220V和温度传感器(温包)即可自成温控系统。
- 2、执行器内具有高度集成化的FDY-258T型温控模块,将温控仪和执行器合二为一,实现机电一体化,使温控系统简化。
- 3、控制精度高,响应速度快,性能稳定可靠,工作寿命长。
- 4、适应范围广,可在很宽温度范围内进行温度控制。
- 5、结构紧凑,安装调试、使用简便。
- Temperature control system can be automatically formed as long as using single phase alternating current power supply AC220V and temperature sensor on the site.
- 2. FDY-258T temperature control module of high integration in actuator succeeds in uniting temperature controller and actuator as one, realizing electromechanical integration and simplifying temperature control system.
- 3. It has the features of high control accuracy, rapid response speed, stable and reliable property, and long working life.
- 4. Possessed of broad subject range, it has the ability to conduct temperature control in extremely wide temperature range.
- 5. It is characterized by compact structure, easy installation and debugging, and simple usage.

### 技术参数 Technical Parameters

阀体形式 Body form	直通式铸造阀体 Straight-through cast body
阀芯形式 Plug form	非平衡式单座阀芯 Non-balanced single seat spool
公称通径 Nominal diameter	DN20~200mm NPS 3/4"~8"
公称压力 Nominal pressure	PN1.6~4.0MPa; CLASS 150~300LB
适用温度 Applicable temperature	-20~+425℃
连接形式 Connection form	法兰式 Flange
法兰距 Flange distance	符合IEC 60534 Meet IEC 60534
泄漏等级 Leakage level	按ASME B16.104规定 As per ASME B16.104
设定值偏差 Set value deviation	±5%
执行器 Actuator	温控型电动执行器 Temperature-controlled electric actuator

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# SELF-OPERATED ELECTRONIC CONTROL TEMPERATURE CONTROL VALVE 自力式电控温度调节阀

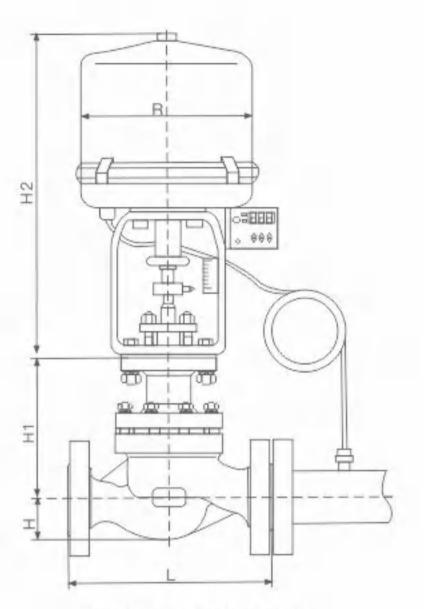


## 技术参数 Technical Parameters

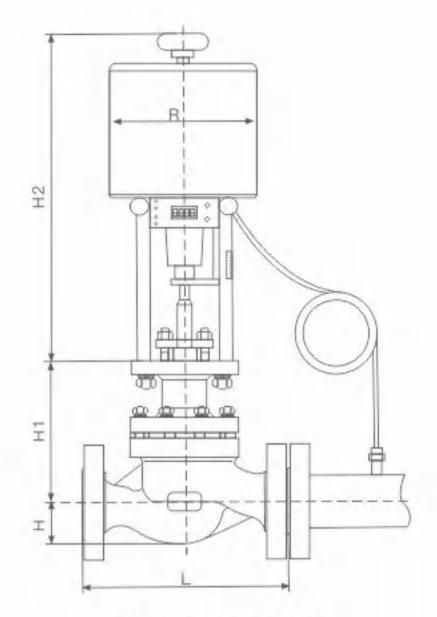
公称通径 NPS		20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100	125 5	150 6	200			
流通能力 Cirulation		7	10	16	25	40	63	100	160	250	400	630			
额定行和 Rated			6	8	10		14	2	20	30 30					
阀盖升 Bonnet				Stanc			230℃、高沪 C, hìgh temp			+425℃					
压盖 Gland						Bol	螺栓压紧式 t pressing								
密封 Sealing p	71.75	V ty	V型聚四氟乙烯填料、含浸聚四氟乙烯石棉填料、石棉纺织填料、石墨填料 V type PTFE packing, PTFE impregnated asbestos packing, asbestos textile packing, graphite pack												
阀芯升 Plug f			单座、套筒式阀芯 The single seater, sleeve type valve												
流量物 Flow chara	7.7		直线性 Straight line												
调节精度 Adjustment							±1~±5								
使用1 Using m							、水、油、 m, water, o								
允许泄漏量	硬密封 Hard seal						) X阀额定容 ated capacit								
Allowable leakage	软密封 Soft seal						"0"								
温包、毛线 Temperatur capillary	e package					Н6:	2、1Cr18N	li9Ti							
毛细管 Capillary							、5米、 ,5 meters,								
温度控制 Temperatur rang	e control	0 ~ 250℃													
设定值( Set value							±2℃								

# SELF-OPERATED ELECTRONIC CONTROL TEMPERATURE CONTROL VALVE 自力式电控温度调节阀





配3810系列温控执行器 With 3810 series of temperature control actuator



配GSW系列温控执行器 With GSW series of temperature control actuator

## 主要外形连接尺寸 Main External Connection Dimensions

	称通经(mm) Size (in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100	125 5	150 6	200 8
	PN16/25	181	184	200	222	254	276	298	352	410	451	600
L	PN40	194	197	200	235	267	292	317	368	425	473	610
	PN64	206	200	210	251	286	311	337	394	440	508	650
	PN16/25	52.5	57.5	75	75	85.5	92.5	100	110	142.5	158	170
Н	PN40	52.5	57.5	75	75	82.5	92.5	100	117.5	150	167.5	187.5
	PN64	65	40	85	85	90	102.5	107.5	125	172.5	195	207.5
	H1	132	132	158	170	179	214	221	234	270	294	331
110	3810L	373	373	495	495	495	700	700	700	725	725	725
H2	PSL	465	465	465	465	465	560	560	560	560	560	788
	3810L	225	225	225	225	225	257	257	257	310	310	310
D	PSL	177	177	177	177	177	182	182	182	182	182	218

注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。

2、由于产品的技术创新与改进,尺寸可能会有所变化,最新资料请联系本公司技术部。

Note: 1. The dimensions in the table are standard data without accessories. The dimensions of accessories are calculated according to the actual configuration. 2. Due to the technical innovation and improvement of the product, the size may change. Please contact the technical department of the Company for the latest information.



## PNEUMATIC DIAPHRAGM CUT-OFF VALVE

气动薄膜切断阀



## PNEUMATIC DIAPHRAGM CUT-OFF VALVE 气动薄膜切断阀



### 产品特点 Products Features

- 1、整体高度可减小约30%, 重量可减轻约30%。
- 2、阀体按流体力学原理设计成等截面低流阻流道,额定流量系统数增大30%。
- 3、密封形式为软、硬密封2种,采用聚四氟乙烯或对位聚苯密封,硬密封堆焊硬质合金,密封性能好。
- 4、平衡型阀内件,提高了切断阀的许用压差。
- 1. The overall height of the valve can be reduced by about 30%; and the weight can be reduced by about 30%.
- The valve body is designed as a low flow resistance passage with constant cross section according to the fluid mechanics principle; and its rated flow coefficient increases by 30%.
- 3. There are soft and hard two kinds of sealing forms. PTFE or PPPs are used for soft sealing. Hard sealing is overlaid with hard alloy. The sealing performance is better.
- 4. Balanced valve trim improves the allowable pressure difference of cut-off valve.

## 主要零件材料 Part material

阀体 Body	ZG230~450、ZG1Cr18Ni9Ti、ZGCr18Ni12Mo2Ti
阀芯 Plug	1Cr18Ni9Ti、Cr18Ni12Mo2Ti
阀座 Seat	1Cr18Ni9Ti、Cr18Ni12Mo2Ti
阀杆 Stem	1Cr18Ni9Ti, Cr18Ni12Mo2Ti
执行器材质 Actuator material	A3、1Cr18Ni9Ti
填料 Filler	聚四氟乙烯、柔性石墨 PTFE, Flexible graphite
膜片 Diaphragm	丁腈橡胶、耐油橡胶、氟橡胶 Nitrile rubber, oil resistant rubber, fluorine rubber

#### 注: 常规材质为碳钢和不锈钢两种, 可根据用户现场条件订制特殊材质控制阀产品。

The conventional material is carbon steel and stainless steel, and the special material regulating valve products can be customized according to the user's work conditions.

## PNEUMATIC DIAPHRAGM CUT-OFF VALVE 气动薄膜切断阀

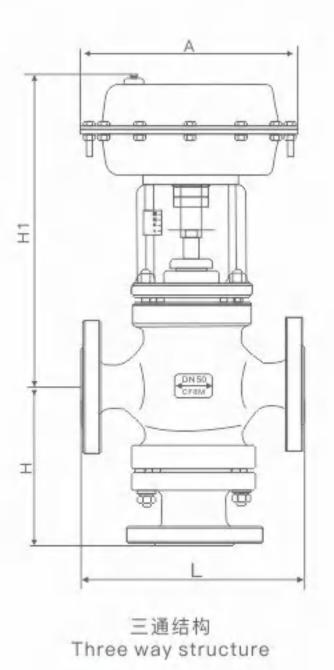


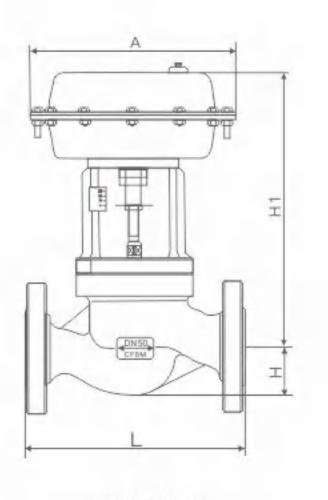
## 技术参数 Technical Parameters

公称通径 NPS		20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100	125 5	150 6	200 8		
公称压力 Nominal p		PN1.6、2.5、4.0、6.4MPa												
<b>你应汝</b> 周	单座 Single seat	7	11 20 30 48 75 120					190	300	480	760			
额定流量 系数Kv ated flow oefficient	套筒 Sleeve	8	11	20	30	48	75	120	190	300	480	760		
	三通 Tee	8	12	17	29	43	70	110	165	275	440	690		
额定行 Rated t	77 -000 / 1	8			8 12		2	0	25	4	0	60		
活塞有效面积cm² Effective piston area		100			20	00		400			00	1000		
允许 泄露量	硬密封 Hard seal		一般:10 <sup>-4</sup> ×阀额定容量:严密型:单座:1.2X10 <sup>-7</sup> General: 10 <sup>-4</sup> × valve rated capacity; seal type: single seat: 1.2X10 <sup>-7</sup>											
llowable leakage	软密封 Soft seal	VI级												
允许压差 MPa Allowable lifferential pressure	正作用 Positive effect	5.09	2.91	1.85	2.18	1.33	1.52	0.99	0.62	0.60	0.69	0.39		
	反作用 Counter action	6.4	3.88	2.47	2.91	1.77	2.03	1.32	0.83	0.80	0.92	0.52		
信号压 Signal p							或 400~60 0 or 400~60							
阀盖; Valve co		标准型(-17~+250℃)、高温型(+250~ +450℃)、低温型(-40~-196℃)、波纹管密封型(-40~+350℃) The standard type (-17~+250℃), high temperature (+250~+450℃) and low temperature (-40~-196℃), bellows seal type (-40~+350℃)												
压盖: Gland			螺栓压紧式 Bolt pressing type											
密封填料 Sealing packing			V型聚四氟乙烯填料、含浸聚四氟乙烯填料、石棉编织填料、柔性石墨 V type PTFE packing, impregnated PTFE packing, asbestos braided packing, flexible graphite											
阀芯 Plug t	232.71.4						单座锥式阀加 ngle seat va							
流量 <sup>4</sup> low chara	特性					Quick or	快开特性 pening chara	acteristic						

## PNEUMATIC DIAPHRAGM CUT-OFF VALVE 气动薄膜切断阀

## BCST<sup>®</sup> 杰创集团





二通式结构 Straight through structure

## (单座式、套筒式) 连接尺寸 (Single seater, sleeve type) connection dimensions

	径DN(mm) PS(in)	20 3/4	25	32 1-1/4	40 1-1/2	50 2	65 2-1/2	3	100	125 5	150 6	200
А		196		232		308			39	498		
L		150	160	180	200	230	290	310	350	400	480	600
Н	PN16	53	58	70	75	83	93	100	110	125	143	170
H1		340	345	370	380	390	475	490	500	765	825	927

## (三通式) 连接尺寸 (Three way structure) connecting dimensions

	通径(mm) diameter (in)	20 3/4	25	32 1-1/4	40 1-1/2	50	65 2-1/2	3	100	125 5	150	200
А			196		23	2		308		39	94	498
L		150	160	180	200	230	290	310	350	400	480	600
Н	PN16	132	132	135	140	150	160	160	170	325	450	495
H1		340	345	370	380	390	475	490	500	765	825	927

注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。

2、由于产品的技术创新与改进,尺寸可能会有所变化,最新资料请联系本公司技术部。

Note: 1. The dimensions in the table are standard data without accessories. The dimensions of accessories are calculated according to the actual configuration. 2. Due to the technical innovation and improvement of the product, the size may change. Please contact the technical department of the Company for the latest information.



## PNEUMATIC PISTON CUT-OFF VALVE

气动活塞切断阀



## PNEUMATIC PISTON CUT-OFF VALVE 气动活塞切断阀



### 产品特点 Products Features

- 1、整体高度可减小约30%, 重量可减轻约30%。
- 2、阀体按流体力学原理设计成等截面低流阻流道,额定流量系统数增大30%。
- 3、密封形式为软、硬密封2种,采用聚四氟乙烯或对位聚苯密封,硬密封堆焊 硬质合金,密封性能好。
- 4、平衡型阀内件,提高了切断阀的许用压差。
- The overall height of the valve can be reduced by about 30%; and the weight can be reduced by about 30%.
- The valve body is designed as a low flow resistance passage with constant cross section according to the fluid mechanics principle; and its rated flow coefficient increases by 30%.
- There are soft and hard two kinds of sealing forms. PTFE or PPPs are used for soft sealing. Hard sealing is overlaid with hard alloy. The sealing performance is better.
- 4. Balanced valve trim improves the allowable pressure difference of cut-off valve.



## 主要零件材料 Part material

阀体 Body	HT200, QT450, WCB, 304, 316, 316L
阀芯 Plug	304、316、316L
阀座 Seat	304、316、316L
阀杆 Stem	304、316、316L
执行器材质 Actuator material	ZG230-450 (WCB)
填 料 Packing	聚四氟乙烯、柔性石墨 PTFE、Flexible graphite
活塞 Piston	ZAISi12

注: 常规材质为碳钢和不锈钢两种, 可根据用户现场条件订制特殊材质控制阀产品。

The conventional material is carbon steel and stainless steel, and the special material regulating valve products can be customized according to the user's work conditions.

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## PNEUMATIC PISTON CUT-OFF VALVE 气动活塞切断阀

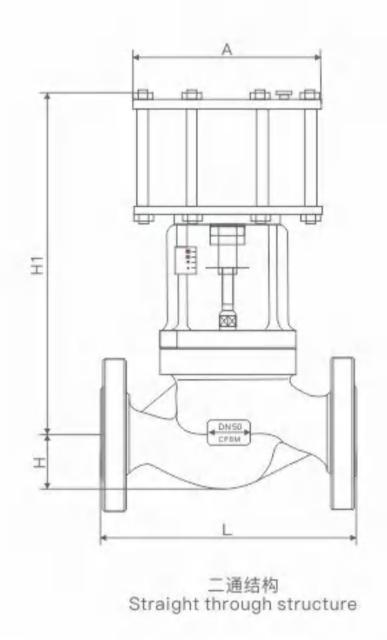


## 技术参数 Technical Parameters

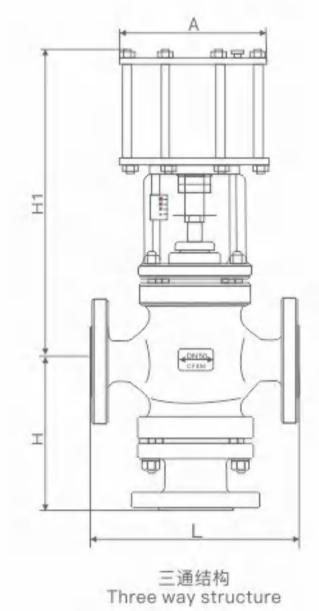
	EDN(mm) S(in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50	65 2-1/2	80 3	100	125 5	150 6	200			
	力(MPa) pressure					PN1.6、	2.5、4.0、	6.4MPa							
	单座 Single seat	7	11	20	30	48	75	120	190	300	480	760			
额定流量系 数Kv Rated flow coefficient	套筒 Sleeve	8	11	20	30	48	75	120	190	300	480	760			
	三通 Tee	8	12	17	29	43	70	110	165	275	440	690			
额定行 Rated	程mm travel	8		12		20		25	40		60				
活塞有效面积cm²			150		17	75		305		700		1245			
硬密封 允许泄漏量 Hard seal			一般: 10 <sup>-4</sup> ×阀额定容量: 严密型: 单座: 1.2X10 <sup>-7</sup> General: 10 <sup>-4</sup> × valve rated capacity; seal type: single seat: 1.2X10 <sup>-7</sup>												
leakage	软密封 Soft seal		VI级												
Allowable	差MPa pressure ential					≤公称压	力 Nominal	pressure							
	力KPa pressure	0 或 400~600 0 or 400~600													
	形式 et type	标准型	标准型(-17~+250℃)、高温型(+250~+450℃)、低温型(-40~-196℃)、波纹管密封型(-40 +350℃) Standard type (-17~+250℃), High temperature type (+250~+450℃) Low temperature type (-40~-196℃), Bellows seal type (-40~+350℃)												
	型式 d type	螺栓压紧式 Bolt compression type													
密封填料 Sealing packing		\	V型聚四氟乙烯填料、含浸聚四氟乙烯填料、石棉编织填料、柔性石墨 V-type PTFE packing, impregnated PTFE packing, asbestos braided packing, flexible graphite												
	形式 form		Si	ngle seat c			套筒双座i uble seat va			way struct	ture				
	特性 acteristics					Quick or	快开特性 pening chara	acteristic							
	附件 ccessories	Hand-	-wheel me			, solenoi	、阀位传送器 d valve, valv c up valve, o	e positio			atic accel	erator,			

## PNEUMATIC PISTON CUT-OFF VALVE 气动活塞切断阀









(单座式、套筒式) 连接尺寸 (Single seater, sleeve type) connection dimensions

	径DN(mm) PS(in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50	65 2-1/2	80	100	125 5	150 6	200
	А		125		16	80		200		2	50	320
L.		150	160	180	200	230	290	310	350	400	480	600
Н	DNIAC	53	58	70	75	83	93	100	110	125	143	170
H1	PN16	220	220	235	235	240	250	260	265	350	400	500
H2		120	120	120	155	155	200	200	200	230	230	230

## (三通式) 连接尺寸 (Three way structure) connecting dimensions

	径(mm) iameter (in)	20 3/4	25 1	32 1-1/4	40 1-1/2	50 2	65 2-1/2	80	100	125 5	150 6	200 8
А		125		16	160		200			250		
L		150	160	180	200	230	290	310	350	400	480	600
Н	DNIC	80	80	80	75	95	105	105	105	150	195	250
H1	PN16	220	220	235	235	240	250	260	265	350	400	500
H2		120	120	120	155	155	200	200	200	230	230	230

注: 1、表中尺寸为不带附件标准数据,附件尺寸根据实际配置计算。

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