

PNEUMATIC PISTON CUT-OFF VALVE

气动活塞切断阀

产品概述 Product Overview

本公司生产的系列气动活塞切断阀是属于组合仪表中的执行单元。它接收来自调节仪表的信号，控制工艺管道内流体的切断与接通。该系列阀具有设计新颖，流阻小、额定流量系数大、用压差大、密封性能好等优点。因而本产品广泛应用于石油、化工、冶金、电力、轻纺等工业部门的生产过程自动控制与远程控制系统中。

The series of pneumatic piston cut-off valves produced by the company belong to the execution unit in the combination instrument. The valve receives the signal from the regulating instrument and controls the cut-off and connection of the fluid in the process pipeline. This series of valves have the advantages of novel design, small flow resistance, large rated flow coefficient, large allowable pressure difference, good sealing performance, etc. Therefore, this product is widely used in the automatic control and remote control system of production process of petroleum, chemical industry, metallurgy, electric power, light textile and other industrial sectors.



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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%.
 2. 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.



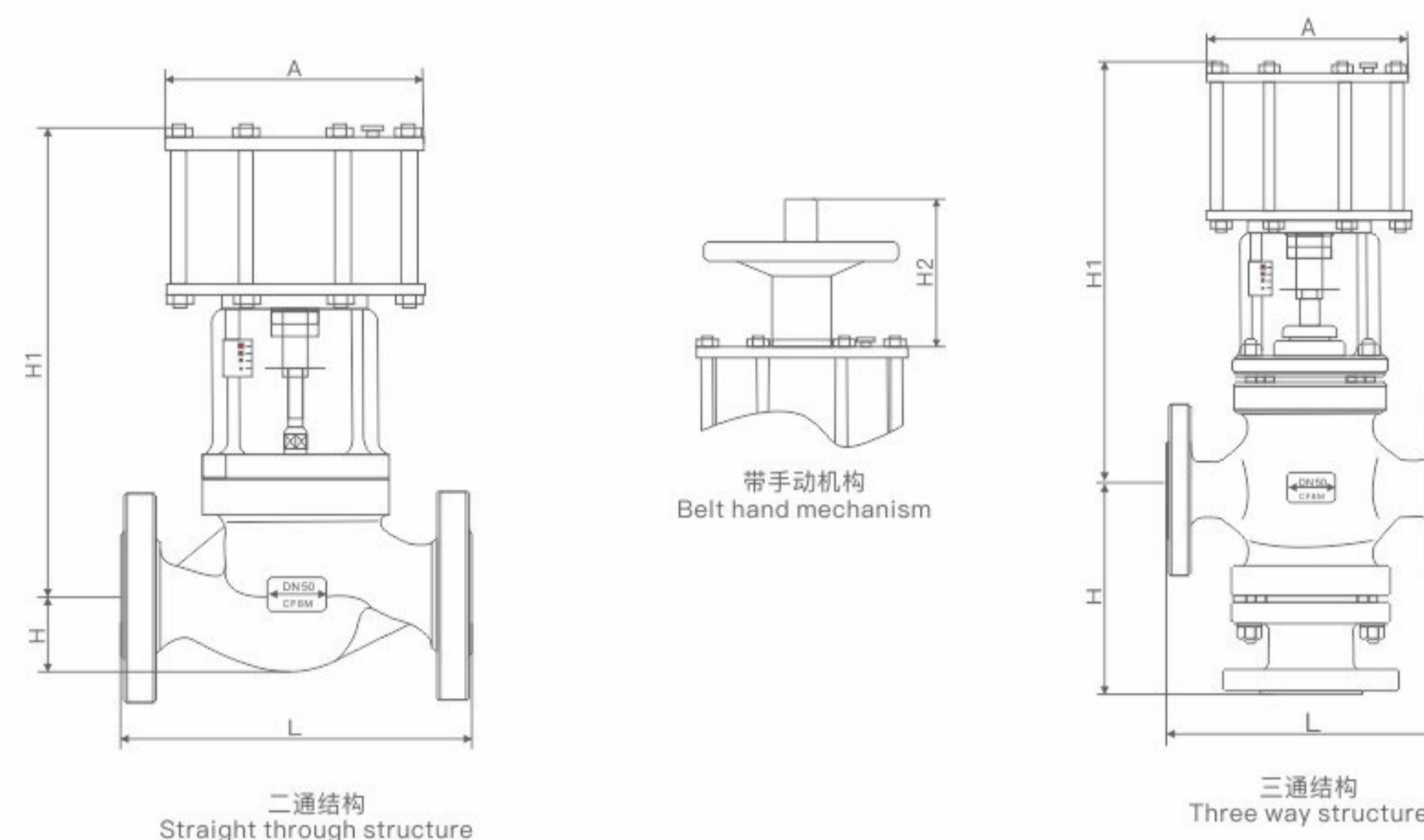
主要零件材料 Part material

阀体 Body	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	ZAlSi12

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.

技术参数 Technical Parameters

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 3	100 4	125 5	150 6	200 8	
公称压力(MPa) Nominal pressure	PN1.6、2.5、4.0、6.4MPa											
额定流量系数Kv Rated flow coefficient	单座 Single seat	7	11	20	30	48	75	120	190	300	480	760
	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
额定行程mm Rated travel	8		12		20		25		40		60	
活塞有效面积cm ² Effective cross-area of piston	150		175		305		700		1245			
允许泄漏量 Allowable leakage	硬密封 Hard seal	一般: 10 ⁻⁴ ×阀额定容量; 严密型: 单座: 1.2X10 ⁻⁷ General: 10 ⁻⁴ × valve rated capacity; seal type: single seat: 1.2X10 ⁻⁷										
	软密封 Soft seal	VI级										
允许压差MPa Allowable pressure differential	≤公称压力 Nominal pressure											
信号压力KPa Signal pressure	0 或 400~600 0 or 400~600											
阀盖形式 Bonnet type	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℃)											
压盖型式 Gland 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											
阀芯形式 Plug form	单座锥式阀芯、套筒双座阀芯、三通结构 Single seat cone valve, sleeve double seat valve core and three-way structure											
流量特性 Flow characteristics	快开特性 Quick opening characteristic											
可配附件 Optional Accessories	手轮机构、限位开关、电磁阀、阀位变送器、气动加速器、保位阀、其它 Hand-wheel mechanism, limit switch, solenoid valve, valve position transmitter, pneumatic accelerator, lock up valve, other											



(单座式、套筒式) 连接尺寸 (Single seater, sleeve type) 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 3	100 4	125 5	150 6	200 8
A	125		160		200		250		320		
L	150		160		180		200		230		290
H	53		58		70		75		83		93
H1	220		220		235		235		240		250
H2	120		120		120		155		155		200

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

公称通径(mm) Nominal diameter (in)	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
A	125		160		200		250		320		
L	150		160		180		200		230		290
H	80		80		80		75		95		105
H1	220		220		235		235		240		250
H2	120		120		120		155		155		200

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, 最新资讯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.