



DC2442

一体式多喷嘴调节阀

Integrated multi nozzle control valve

专业提供过程控制阀门解决方案
Professionally provide process control valve solutions

Rev.2020



浙江东辰阀门科技有限公司

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企业简介

Company profile

浙江东辰阀门科技有限公司（原杭州东辰热力辅机有限公司）成立于2006年，专业设计、制造特种阀门，各种高中压调节阀、减温减压装置、汽机旁路阀、锅炉给水调节阀、最小流量阀、闸阀、球阀、蝶阀、截止阀、止回阀、排污阀等阀门及相关的汽轮机辅机、锅炉辅机。产品广泛应用于各种参数的燃煤火电机组，燃机热电联产项目以及炼油、化工、冶金、集中供热等领域。

公司拥有一批专业从事阀门设计和开发的技术人员，掌握着国内外领先的阀门专业技术，有着丰富的设计、制造和现场调试经验。产品最高压力等级为PN76MPa，最高温度620℃，应用于最大单机容量为1030MW超超临界机组。

公司目前有40多项发明专利和实用新型专利，经过多年发展建立了一套完整的符合《特种设备生产和充装单位许可规则》的压力管道元件制造管理体系，并取得国家市场监管总局颁发的TS特种设备制造许可A1级证书，许可项目为电动调节阀、气动调节阀、闸阀、截止阀、止回阀、球阀、蝶阀、减温减压装置。取得中国质量认证中心CQC颁发的ISO9001质量管理体系认证，ISO14001&45001环境与职业健康安全体系认证。

公司被评为国家高新技术企业，浙江省科技型企业，浙江省守合同重信用AAA单位，浙江省阀门研发中心，浙江省信用管理示范单位，安全生产标准化单位，同时也是中国阀门协会会员单位，中国石油化工热工协会理事单位；现已成为中石油、中石化、中海油、中国神华、中核集团、华能、华电、国电、大唐、中电投、浙能集团等合格供应商。

结合市场特点，公司在技术创新、产品选型、投标、合同签订、产品设计、工艺制造、检验试验，供货安装、运行调试、售后服务、以及用户回访等各个环节，都严格遵循质量管理体系程序。

Zhejiang Dongchen Valve Technology Co., Ltd. (formerly Hangzhou Dongchen Heating Auxiliary Machinery Co., Ltd.) was established in 2006. It specializes in designing and manufacturing special valves, various high and medium pressure regulating valves, temperature reducing and reducing devices, steam turbine bypass valves, and boiler feed water. Regulating valve, minimum flow valve, gate valve, ball valve, butterfly valve, globe valve, check valve, blowdown valve and other valves and related steam turbine auxiliary equipment, boiler auxiliary equipment. The products are widely used in various parameters of coal-fired thermal power units, gas-fired combined heat and power projects, as well as in the fields of oil refining, chemical industry, metallurgy, and central heating.

The company has a group of technical personnel who are specialized in valve design and development, mastering the leading valve technology at home and abroad, and has rich experience in design, manufacturing and field commissioning. The highest pressure level of the product is PN76MPa, the highest temperature is 620 ° C, and it is used in ultra-supercritical units with a maximum single-unit capacity of 1030MW.

The company currently has more than 40 invention patents and utility model patents. After many years of development, it has established a complete set of pressure pipeline component manufacturing management system that complies with the "Special Equipment Production and Filling Unit Licensing Rules" and has been issued by the State Administration of Market Supervision. TS special equipment manufacturing license A1 certificate, the approved items are electric regulating valve, pneumatic regulating valve, gate valve, globe valve, check valve, ball valve, butterfly valve, temperature reducing and reducing device. Obtained ISO9001 quality management system certification, ISO14001 & 45001 environmental and occupational health and safety system certification issued by China Quality Certification Center CQC.

The company has been rated as a national high-tech enterprise, a science and technology enterprise in Zhejiang Province, an AAA unit in Zhejiang Province that abides by its contract, and is a AAA unit in Zhejiang Province. Member of China Petrochemical Thermal Engineering Association; has now become a qualified supplier of PetroChina, Sinopec, CNOOC, China Shenhua, China Nuclear Group, Huaneng, Huadian, Guodian, Datang, China Power Investment Corporation, Zhejiang Energy Group.

Combining market characteristics, the company strictly follows the quality management system in all aspects of technological innovation, product selection, bidding, contract signing, product design, process manufacturing, inspection and testing, supply and installation, commissioning, after-sales service, and customer return visits. program.

DC2442系列一体式多喷嘴调节阀

Integrated multi nozzle control valve



◆主要特点 Main features

阀体部分 Body part

尺寸: 减温水侧: 3/4" 至3" (DN20~80)
蒸汽管道: 3", 4" 或6", (DN80~DN150)
取决于选择流量系数CV

连接方式: ANSI、GB/T12224法兰
ANSI B16.25、GB/T12224对焊
*按客户要求

压力等级: 减温水: ANSI 150至2500 (PN16~420)
蒸汽: ANSI 150至2500 (PN16~420)
*如需更高压力等级可特殊设计

材料: 锻制碳钢/CrMo合金钢

Size: Desuperheating water side: 3/4" to 3" (dn20~80)
Steam pipe: 3", 4" or 6", (DN80 ~ DN150)
Depends on the selected flow coefficient Cv

Connection mode: ANSI, GB/T12224 flange
ANSI B16.25, GB/T12224 butt welding
*According to customer requirements

Pressure rating: Desuperheating water: ANSI 150 to 2500 (PN16 to 420)
Steam: ANSI 150 to 2500 (PN16 to 420)
*Special design for higher pressure rating

Material Science: Forged carbon steel / CrMo alloy steel

阀芯部分 Valve element part

由活塞（11）在喷嘴座中滑动进行流量控制，由阀芯（5）和阀座（6）提供密封
The flow control is performed by the piston (11) sliding in the nozzle seat, and the sealing is provided by the valve core (5) and the valve seat (6)

尺寸: 根据蒸汽连接法兰尺寸及喷嘴布置决定（尺寸范围见CV表）

可调范围: 取决于最大选取CV，任何喷嘴可调比都不低于30:1

导向: 活塞由喷嘴座提供导向

阀座: 夹于上下阀体之间，便于拆装

泄漏等级: 优于V IEC 60534-4或GB/T4213

Size: According to the size of steam connection flange and nozzle layout (ruler See CV table for inch range)

Adjustable range: Any nozzle can be adjusted depending on the maximum selected CV No less than 30:1

Guide: The piston is guided by the nozzle seat

Valve seat: Clamped between the upper and lower valve bodies, convenient for disassembly and assembly

Leakage level: Better than V IEC 60534-4 or GB/T4213

东辰阀门DC2442系列一体式多喷嘴调节阀具有最佳的雾化性能和最大范围工况的使用范围。由活塞滑动控制的喷嘴在最小流量条件下也能提供良好的喷水雾化效果。同时为了对蒸汽温度进行精确控制以及极端工况的正常使用(例如: 蒸汽流速或水蒸汽压差很低时), DC2442系列可以提供多种不同尺寸的喷嘴以供使用。

减温水调节阀和喷嘴一体式的设计使整体尺寸减小, 而且操作可靠便捷。上下阀体分离设计可以使减温水和喷雾的方向不同随意调整, 而且便于阀座的更换。

Dongchen valve dc2442 series integrated multi nozzle control valve has the best atomization performance and the largest range of operating conditions. The nozzle controlled by piston sliding can also provide good spray atomization effect under the condition of minimum flow. At the same time, in order to accurately control the steam temperature and normal use of extreme conditions (for example, when the steam flow rate or water steam pressure difference is very low), dc2442 series can provide a variety of nozzles with different sizes for use.

The integral design of desuperheating water regulating valve and nozzle reduces the overall size, and the operation is reliable and convenient. The separation design of the upper and lower valves can make the direction of the temperature reducing water and spray different and adjust at will, and is convenient for the replacement of the valve seat.

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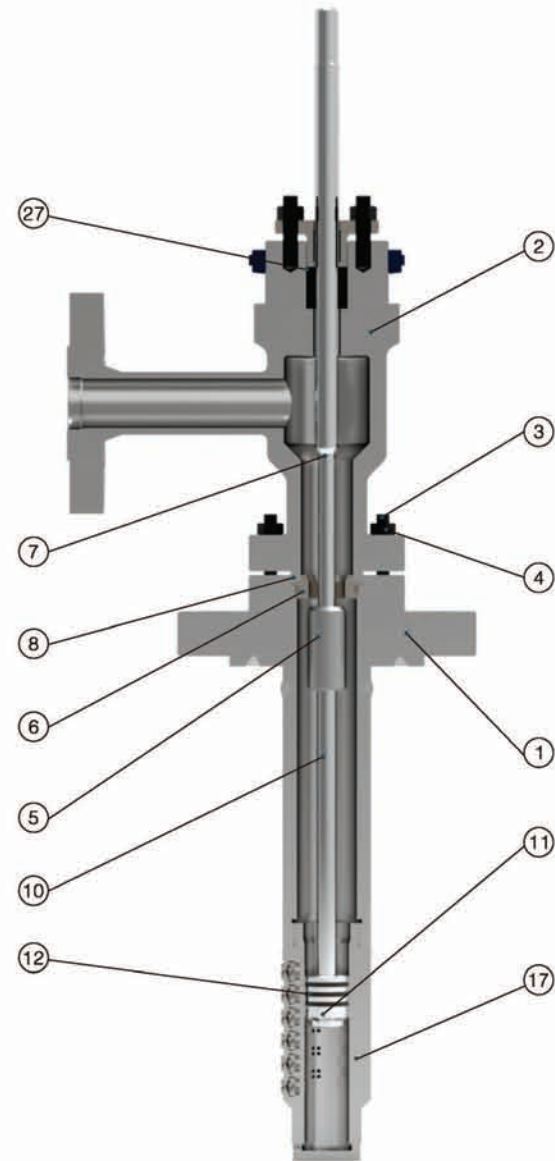
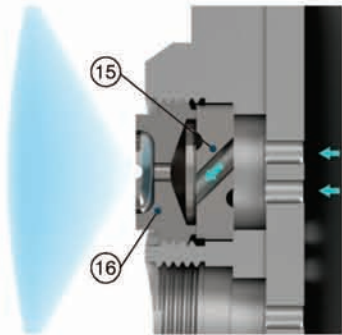


图1 本体部结构图
 Fig. 1 Structure of main body

◆表1 Table1

序号 No.	零件名称 Part Name
1	下阀体 Upper valve body
2	上阀体 Lower valve body
3	双头螺柱 Stud
4	螺母 Nut
5	阀芯 Plug
6	阀座 Seat
7	上阀杆 Upper Stem
8	金属缠绕垫 Spiral Gasket
10	下阀杆 Lower Stem
11	活塞 Piston
12	密封环 Seal ring
15	喷嘴孔板 Nozzle orifice plate
16	喷嘴 Nozzle
17	喷嘴座 Nozzle holder



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◆表2 一体式多喷嘴调节阀标准材质组合

Table2 Standard material combination of integrated multi nozzle regulating valve

		A	D	V	G
温度范围 Temperature range		-29 / +427 ℃	-29 / +566 ℃	-29 / +566℃	-29 / +343℃
序号 No.	部件名称 Part name	ASME – ASTM			
1	下阀体 Lower valve body	20 / A105	15CrMo/12Cr1MoV /A182 F11/F22	A182 F91	A182 F316 / SA 479 316
2	上阀体 Upper valve body	20 / A105	15CrMo/12Cr1MoV /A182 F11/F22	A182 F91	A182 F316 / SA 479 316
3	双头螺柱 Stud	35	35CrMo/25Cr2Mo1V	GH4145	A 193 B8M Cl.1
4	螺母 Nut	25	30CrMo/35CrMo	25Cr2Mo1V	A194 Gr.8
5	阀芯 Spool	17-4PH	A479 XM-19		A 479 316 + 渗氮 Nitriding
6	阀座 Valve seat	A 479 F6NM + STL6			A 479 F6NM + STL6
7	上阀杆 Upper stem	17-4PH	A 479 XM-19		
8	垫圈 Washer	柔性石墨+S30408 Flexible graphite + s30408			
9	销 Pin	A 479 316L			
10	下阀杆 Lower stem	17-4PH	A 479 XM-19		
11	活塞 Piston	17-4PH	A 479 XM-19		
12	密封环 Sealing ring	A182 F6NM			
17	喷嘴座 Nozzle seat	A182 F6NM+渗氮Nitriding			
27	填料 Filler	柔性石墨 Flexible graphite			

◆表3 喷嘴组件 Table3 Nozzle as

		A	D	V	G
序号 No.	部件名称 Part name				
17	喷嘴座 Nozzle seat	A182 F6NM+渗氮Nitriding			A 479 316+渗氮Nitriding
15	喷嘴孔板 Nozzle orifice	A182 F6NM			
16	喷头 Nozzle	A182 F6NM+渗氮Nitriding			A 479 316+渗氮Nitriding



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◆表4 一体式多喷嘴调节阀CV-行程对照表
Table4 CV stroke comparison table of integrated multi nozzle control valve

水进口 Water inlet DN	蒸汽出口 Steam outlet DN	执行机构 类型 Actuator type	行程 Trip mm	喷嘴 数量 Injector number	行程% Trip%	
					5	100
					5	100
1"-1 1/2"	3"	1-X280 D39 1-X280 D46	45	7	0.01	0.07
					0.01	0.11
					0.01	0.16
					0.01	0.24
					0.01	0.35
					0.01	0.60
					0.01	0.80
					0.01	1.0
					0.14	1.8
					0.01	0.10
					0.01	0.16
					0.01	0.22
					0.01	0.34
					0.01	0.50
					0.01	0.77
					0.01	1.1
					0.01	1.7
					0.14	2.6
		1-X280 D46 1-X250 D46	60	10	0.01	0.16
					0.01	0.24
					0.01	0.36
					0.01	0.54
					0.01	0.81
					0.01	1.2
					0.01	1.8
					0.01	2.7
					0.14	4.2
					0.01	0.16
					0.01	0.24
					0.01	0.36
					0.01	0.54
					0.01	0.80
					0.01	1.2
					0.01	1.8
					0.01	2.7
					0.14	4.2
1 1/2"-2"	4"	1-X280 D46 1-X280 D63	76	16	0.01	0.16
					0.01	0.24
					0.01	0.36
					0.01	0.54
					0.01	0.80
					0.01	1.2
					0.01	1.8
					0.01	2.7
					0.14	4.2
					0.08	2.0
					0.08	2.4
					0.08	2.7
					0.08	3.1
					0.08	3.6
					0.08	3.9
					0.08	4.2
					0.14	4.7
					0.14	5.2
					0.32	5.9
		1-X280 D46 1-X280 D63 1-X250 D46 1-X250 D63	100	21	0.01	0.22
					0.01	0.33
					0.01	0.49
					0.01	0.74
					0.01	1.1
					0.01	1.7
					0.01	2.5
					0.01	3.7
					0.01	5.6
					0.14	8.4
					0.14	7.7
					0.14	8.9
					0.14	10.2
					0.22	11.7
					0.44	13.6
					0.01	0.41
					0.01	0.61
					0.01	0.92
					0.01	1.4
					0.01	2.1
					0.01	3.1
					0.01	4.7
					0.01	7.0
					0.14	10.4
					0.14	9.4
					0.14	10.3
					0.14	11.5
					0.14	12.6
					0.14	13.8
					0.22	15.2
					0.44	16.8
					0.01	0.55
					0.01	0.82
					0.01	1.2
					0.01	1.9
					0.01	2.8
					0.01	4.2
					0.01	6.3
					0.01	9.4
					0.14	14.1
					0.14	13.3
					0.14	15.3
					0.22	17.5
					0.22	20.3
					0.44	23.2
1 1/2"-2"	6"	1-X280 D63 1-X250 D63	120	32	0.01	0.33
					0.01	0.49
					0.01	0.74
					0.01	1.1
					0.01	1.7
					0.01	2.5
					0.01	3.7
					0.01	5.6
					0.14	8.4
					0.14	7.7
					0.14	8.9
					0.14	10.2
		1-X280 D46 1-X280 D63 1-X250 D63	150	40	0.22	11.7
					0.44	13.6
					0.01	0.41
					0.01	0.61
					0.01	0.92
					0.01	1.4
					0.01	2.1
					0.01	3.1
					0.01	4.7
					0.01	7.0
					0.14	10.4
					0.14	9.4
					0.14	10.3
					0.14	11.5
					0.14	12.6
					0.14	13.8
					0.22	15.2
					0.44	16.8
2"-3"	6"	1-X250 D63	200	54	0.01	0.55
					0.01	0.82
					0.01	1.2
					0.01	1.9
					0.01	2.8
					0.01	4.2
					0.01	6.3
					0.01	9.4
					0.14	14.1
					0.14	13.3
					0.14	15.3
					0.22	17.5
					0.22	20.3
					0.44	23.2
		1-X280 D46 1-X280 D63 1-X250 D63	200	29	0.01	0.55
					0.01	0.82
					0.01	1.2
					0.01	1.9
					0.01	2.8
					0.01	4.2
					0.01	6.3
					0.01	9.4
					0.14	14.1
					0.14	13.3
					0.14	15.3
					0.22	17.5
					0.22	20.3
					0.44	23.2

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◆表5 最大压差[bar] Table5 Maximum differential pressure [bar]

水进口 Water inlet DN	蒸汽出口 Steam outlet DN	执行机构 类型 Actuator type	行程 Trip mm	关闭压差 Δp max Closing differential pressure Δ P max										工作压力差 Δ p (1) min -max	
				正作用执行器(流开) Positive acting actuator (flow open)					反作用执行机构(流关) Reaction actuator (flow gate)						
				弹簧范围[psi] Spring range [psi]		气源压力[psi] Supply pressure [psi]	Δ pmax [bar]	弹簧范围[psi] Spring range [psi]		气源压力[psi] Supply pressure [psi]	Δ pmax [bar]				
1"-1 1/2"	3"	1-X280 D39	45	19	-	47	60	106	7	-	28	60	189	2 - 60	
				13	-	31	40	65	5	-	19	40	115		
		1-X280 D46	45	24	-	44	60	217	12	-	28	60	250		
				16	-	30	40	137	8	-	19	40	181		
		1-X280 D46	60	19	-	48	60	167	7	-	28	60	250	2 - 60	
				13	-	32	40	106	5	-	19	40	179		
		1-X280 D46	100	19	-	40	60	164	6	-	30	60	250	3 - 60	
				13	-	27	40	104	4	-	20	40	169		
		1-X250 D46	100	18	-	42	50	154	6	-	30	60	156		
		1 1/2"-2"	4"	1-X280 D46	76	19	-	40	60	123	6	-	30		60
13	-					27	40	77	4	-	20	40	125		
1-X280 D63	76			15	-	42	60	215	-	-	-	-	-		
				10	-	28	40	136	4	-	17	40	250		
1-X280 D46	100			19	-	47	60	123	6	-	30	60	198	3 - 60	
				13	-	27	40	77	4	-	20	40	125		
1-X280 D63	100			19	-	40	60	250	-	-	-	-	-		
				13	-	27	40	184	4	-	20	40	250		
1-X250 D46	100			18	-	42	50	154	6	-	30	50	108	3 - 60	
1-X250 D63				15	-	34	50	238	6	-	30	50	250		
1-X280 D63	120			19	-	40	60	250	-	-	-	-	-		
				13	-	27	40	184	4	-	20	40	250		
1-X250 D63				15	-	38	50	238	5	-	34	50	206		
2"-3"	6"			1-X280 D46	100	19	-	40	60	75	6	-	30	60	121
		13	-			27	40	47	4	-	20	40	76		
		1-X280 D63	100	19	-	40	60	197	6	-	30	60	250		
				13	-	27	40	128	4	-	20	40	195		
		1-X250 D63	100	15	-	34	50	167	6	-	30	50	185	3 - 60	
		1-X280 D63	120	19	-	40	60	197	6	-	30	60	250		
				13	-	27	40	128	4	-	20	40	195		
		1-X250 D63	120	15	-	38	50	167	5	-	34	50	144		
		1-X250 D63	150	14	-	28	50	155	6	-	30	50	185	3 - 60	
		1-X250 D63	200	10	-	29	50	104	6	-	30	50	185		

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◆表6 整体尺寸(mm)与质量(kg) Table6 Overall dimension (mm) and mass (kg)

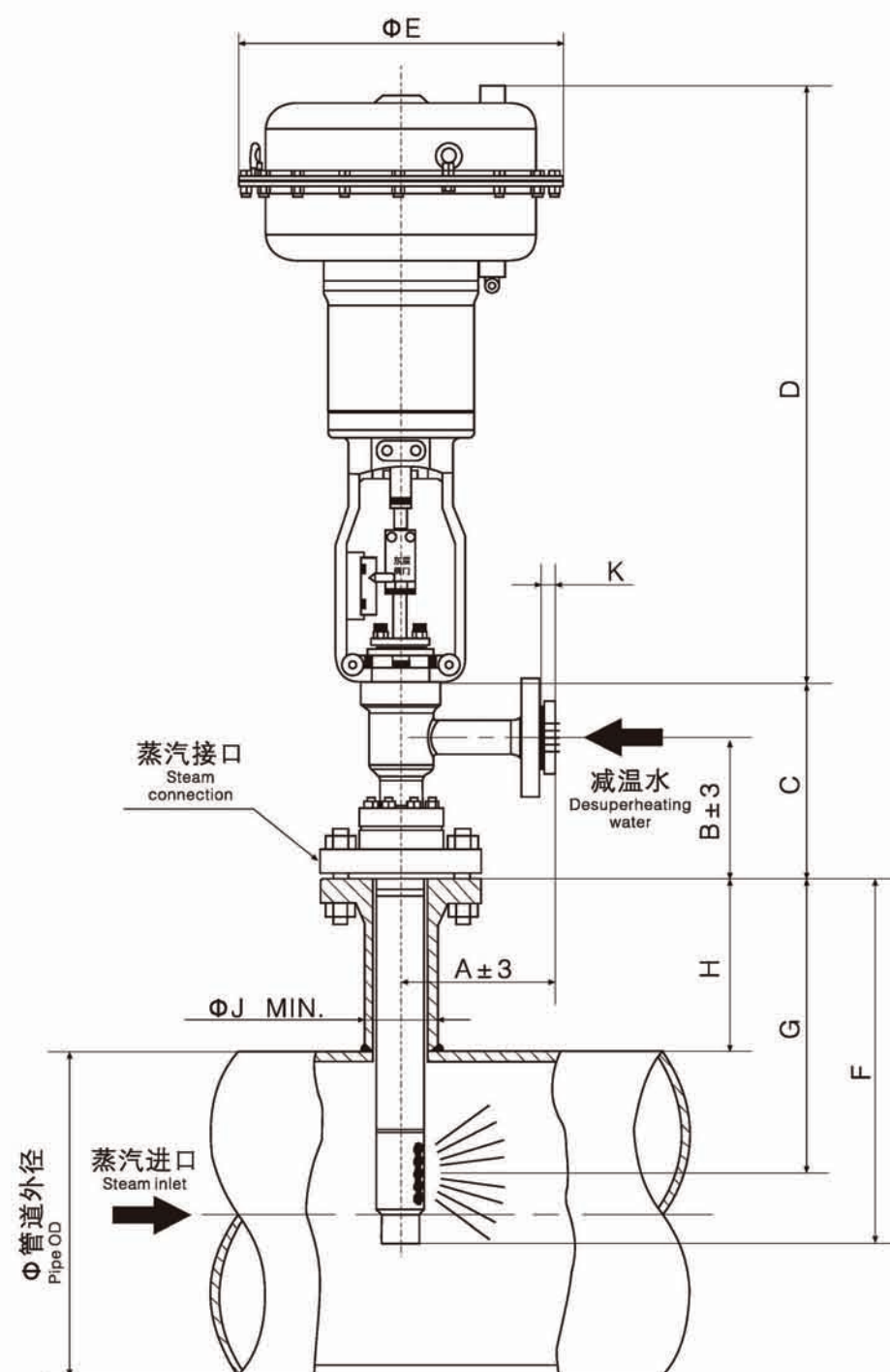
水进口 Water inlet DN	蒸汽 出口 Steam outlet DN	减温水进口 压力等级 ⁽¹⁾ Desuperheating water inletPressure rating ⁽¹⁾	执行机构 类型 Actuator type	行程 Trip mm	最小蒸汽 管道尺寸 Minimum steam pipe size	A		B	C	D(3)	E	F	G	J	K		L(5) inches										
						RF	RJ								RF	RJ											
1"– 1 1/2"	3"	ANSI 150–1500 UNI/DIN PN 10–250	1–X280 D39	45	6" ⁽⁴⁾	215	222	200	290	574	395	378	315	70	15	22	14"										
			1–X280 D46		60					8"	282							787 767	465	436	318	335					
				100																			10"	290	827 1020	436	335
				ANSI 2500 UNI/DIN PN 320–400					1–X280 D39			45	6" ⁽⁴⁾										250	350	574	395	378
			1–X280 D46		60				8"	342	787 767																
		100						10"				350	827 1020														
																	1–X250 D46										

水进口 Water inlet DN	蒸汽出口 Steam outlet DN	减温水进口 压力等级 ⁽¹⁾ Desuperheating water inletPressure rating ⁽¹⁾	执行机构 类型 Actuator type	行程 Trip mm	最小蒸汽 管道尺寸 Minimum steam pipe size	A				B	C	D ⁽³⁾	E	F	G	J	K				L ⁽⁵⁾ inches						
						1 1/2"		2"									1 1/2"		2"								
						RF	RJ	RF	RJ								RF	RJ	RF	RJ							
1 1/2" -2"	4"	ANSI 150-1500 UNI/DIN PN 10-250	1-X280 D46	76	12"	265	272	270	277	250	360	735	465	548	447	95	15	22	20	27	24"						
			1-X280 D63									796	640									572	459				
			1-X280 D46	100	12"							787	465														
			1-X280 D63									920	640														
			1-X250 D46	120	14"							827 1020	465														
			1-X280 D63									970	592	470													
		ANSI 900-1500 UNI/DIN PN 160-250	1-X250 D63	100	12"						373	992 1218	640	572	459												
			1-X280 D63									970															
			ANSI 2500 UNI/DIN 320-400	1-X280 D46	76						12"										290	735	465	548	447		
				1-X280 D63																		796	640				
				1-X280 D46	100						12"											787	465				
				1-X280 D63																		920	640			572	459
		1-X250 D46		120	14"						827 1020	465															
		1-X250 D63									992 1218	592	470														
		1-X280 D63		100	12"						410			970	640												
		1-X280 D63									920			640													
		1-X250 D46		120	14"						827 1020			465													
		1-X250 D63									992 1218																

DC2442系列一体式多喷嘴调节阀
Integrated multi nozzle control valve

水进口 Water inlet DN	蒸汽出口 Steam outlet DN	减温水进口 压力等级 ⁽¹⁾ Desuperheating water inletPressure rating ⁽¹⁾	执行机构 类型 Actuator type	行程 Trip mm	最小蒸汽 管道尺寸 Minimum steam pipe size	A				B	C	D ⁽³⁾	E	F	G	J	K				L ⁽⁵⁾ inches														
						1 1/2"		2"									1 1/2"		2"																
						RF	RJ	RF	RJ								RF	RJ	RF	RJ															
2"-3"	6"	ANSI 150-1500 UNI/DIN PN 10-250	1-X280 D46	100	14"	320	327	325	329	300	430	787	465	640	686	556	140	20	27	25	29	30"													
			1-X280 D63								920	706	570																						
			1-X250 D63																				992 1218												
			1-X280 D63	120	16"						470	970	706										570												
			1-X250 D63								992 1218	736												583											
			1377 1693								786														610										
			200	18"	390							580	970										640	706		570	736	583	786	610	32"				
			150	16"							1377 1693														786							610	32"		
			1-X280 D46	100																														14"	540
		1-X280 D63	920							706				570	32"																				
		1-X250 D63									992 1218					736									583							32"			
		1-X280 D63	120	16"						540	787			465	686																		556	32"	
		1-X250 D63			992 1218					736	583	32"																							
		1377 1693			786								610	32"																					
		200	18"	1377 1693						786	610	32"																							
150	16"	1377 1693	786		610	32"																													
1-X280 D46	100						14"	540	787				465	686	556	32"																			
1-X280 D63				920				706	570	32"																									
1-X250 D63		992 1218	736		583	32"																													
1-X280 D63	120	16"		540			787	465	686	556	32"																								
1-X250 D63			992 1218	736	583	32"																													
1377 1693			786				610	32"																											
200	18"	1377 1693		786	610	32"																													

(1)蒸汽连接等级见相关表格
(2)标准执行机构为正作用流开;若需使用反作用流关执行机构,请联系东辰公司技术部
(3)尺寸2指带手轮执行器尺寸
(4)适用最大壁厚SCH120 (14.2mm)
(5)所述尺寸均参考ANSI 150, 对于更高压力等级需进行计算
(1) See relevant table for steam connection grade
(2) The standard actuator is a positive action flow switch. If you need to use the reverse action flow switch actuator, please contact the Technology Department of Dongchen company
(3) Dimension 2 refers to the size of actuator with handwheel
(4) Applicable maximum wall thickness sch120 (14.2mm)
(5) All dimensions are in accordance with ANSI 150, higher pressure rating to be calculated



The figure displays four outboard motors, labeled A, B, C, and D, arranged in two rows. The top row shows side views of the motors, and the bottom row shows rear views. Motor A (top left) has a side-mounted control handle. Motor B (top second from left) has a top-mounted control handle. Motor C (top third from left) has a side-mounted control handle. Motor D (top right) has a top-mounted control handle and the word 'DOON' is visible on its upper shaft. All motors have a lower unit with a propeller. The bottom row shows the rear of each motor, highlighting the mounting bracket and the propeller area. The labels A, B, C, and D are positioned below their respective rear views.

Φ 管道直径 ≤ L:
H=G-Φ 管道直径/2

Φ 管道直径 > L: (5)
H MIN. = 120 [蒸汽接口 3" (DN80)]
130 [蒸汽接口 4" (DN100)]
170 [蒸汽接口 6" (DN150)]

Φ pipe diameter ≤ L:
H = g - Φ pipe diameter / 2

Φ pipe diameter > L: (5)
H MIN. = 120 [steam interface 3" (DN80)]
130 [steam interface 4" (DN100)]
170 [steam interface 6" (DN150)]

- 电动或液动执行机构
- 特殊材质
- 专业工具
- Electric or hydraulic actuator
- Special material
- Professional tools

		减温水接口压力等级 Desuperheating water interface pressure class		
		ANSI 150-600 PN 16-100	ANSI 900-1500 PN 160-250	ANSI 2500 PN 320-420
蒸汽接口 压力等级 Steam interface pressure class	3*	ANSI 150-600 PN 16-100	ANSI 150-1500 PN 16-250	ANSI 1500-2500 PN 250-420
	4*	ANSI 150-600 PN 16-100	ANSI 600-1500 PN 250	ANSI 2500 PN 320-420
	6*	ANSI 150-600 PN 16-100	ANSI 300-1500 PN 25-250	ANSI 600-2500 PN 100-420

推荐性安装及试运行用备品备件	Recommended spare parts for installation and commissioning
- 阀体垫片	- Body gasket
- 阀杆填料	- Stem packing
- 密封环(A182 F6NM)	- Seal ring (A182 F6NM)