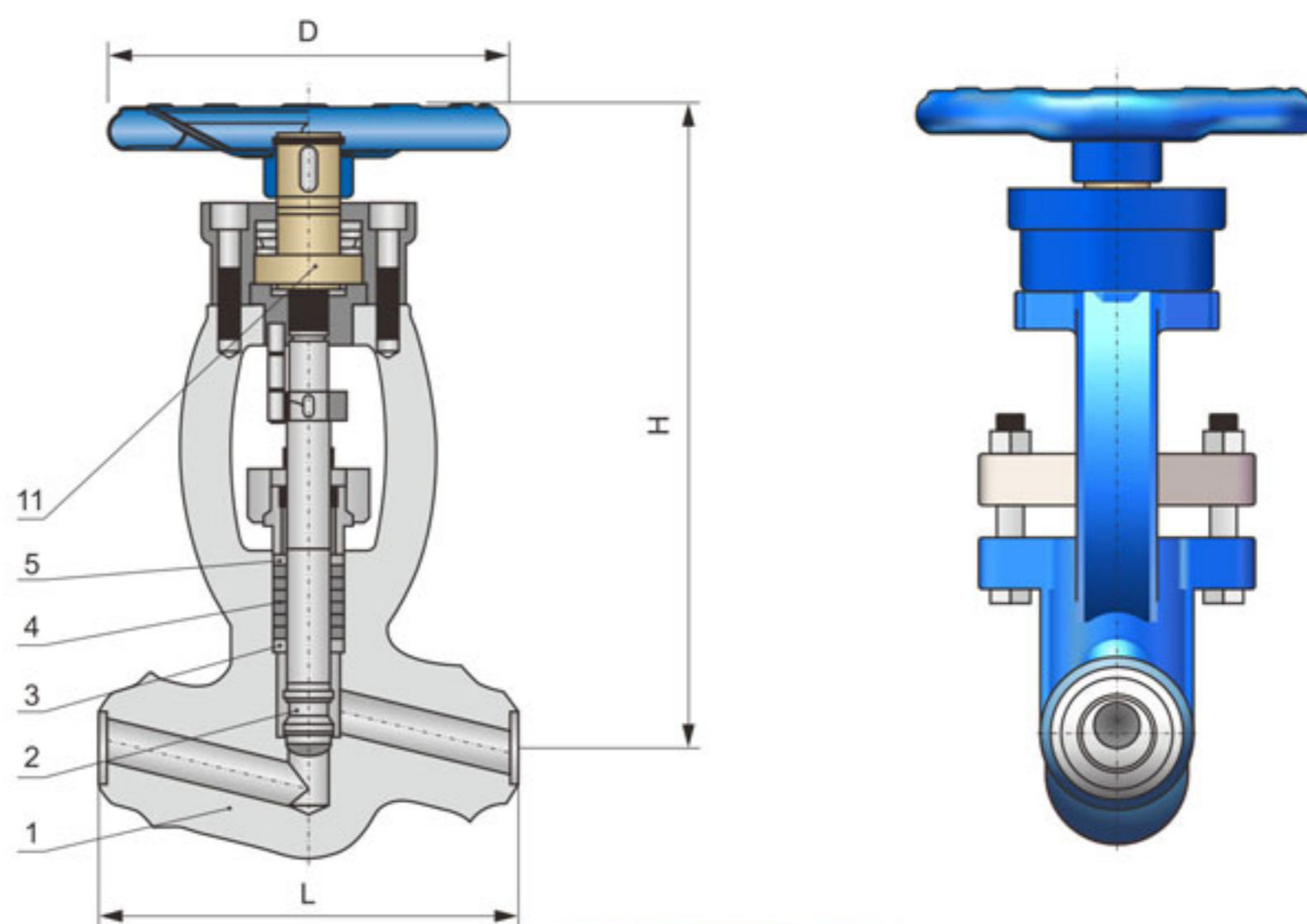


(Ultra-)Supercritical Globe Valve (Manual/Electric) — One-piece Stamp Forging

超(超)临界截止阀(手动/电动) —— 一体模锻，替代进口



结构特点：

1. 阀体与操作器支架为一体式模锻，整体强度高可保证火电超临界、超超临界工况下使用安全。
2. 流道及内腔是在实心锻造阀体上经数控机床精加工而成，整体结构极其坚实，耐受高温高压。
3. 阀杆和阀芯是一体，整体锻造，强度高、刚性好、承载力强。锥头阀芯还具有节流减压功能。
4. 阀杆只作升降运动无转动摩擦，开关扭矩小，且阀芯与阀座的锥形密封面间紧密压合，达到最佳的密封性能，即零泄漏。
5. 密封面堆焊硬质合金Stellite(司太立)后再硬化并研磨，保证长寿命使用。
6. 阀杆外圆精细抛光，与填料摩擦小，加之阀杆螺母上安装有推力滚针轴承，故开关轻便省力。

Structural Characteristics:

1. The valve body and operator frame is one-piece stamping, its high comprehensive strength can ensure the operation safety of thermal power under supercritical or ultra-supercritical work conditions.
2. The passageway and inner chamber is solidly forged and processed by CNC machine tools, the integral structure is very firm and high-temperature and high-pressure resisting.
3. The valve spindle and spool is one piece, integral forged, high strength, high rigidity and good bearing capacity. The cone spool has the function of throttle down and decompression.
4. The valve spindle is only vertically, without rotation, with small switching torque, the cone sealing face between spool and valve seat is tightly compressed to attain its best sealing performance and no leakage.
5. The hardfacing carbide alloy Stellite on the sealing face is grinded after hardening so as to prolong its service life.
6. The external cycle of the spindle is finely polished, only a little friction with packing, furthermore, the thrust needle bearing installed on the spindle nut is convenient for the easy switching.

主要尺寸表 Main Dimensions

Class (PN)	NPS (DN)	主要尺寸 Main Dimensions (mm)			
		L	H	D	行程
CL1500 (PN260)	3/8" (10)	150	260	180	12
	1/2" (15)	150	260	180	12
	3/4" (20)	180	295	180	18
CL2500 (PN420)	1" (25)	180	295	180	18
	1 1/4" (32)	250	380	280	24
CL4500 (PN760)	1 1/2" (40)	250	380	280	24
	2" (50)	300	480	360	30

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注：配用国际著名品牌(SIPOS等)的多回转电动执行器

Note: Multi-rotary electric actuator with international famous brand (Sipos, etc.)



超临界及超超临界参数阀门主要零件材料表

Main Components and Material List of (Ultra-)Supercritical Valves

No.	零件名称 Part name	材料组合 Material Combination		
		≤480°C	≤595°C	≤650°C
1	阀体 Body	F36	F22 Class3	F91 F92
		密封面为硬质合金 Stellite The sealing face is carbide alloy Stellite		
2	阀杆与阀芯 Stem and spool	F6a Class2, F6a Class3, 25Cr2Mo1VA		660, 616HT
		密封面为硬质合金 Stellite The sealing face is carbide alloy Stellite		
3, 5	填料垫 Packing bush	F304, F316, 06Cr19Ni10, 06Cr17Ni12Mo2		
4	填料 Packing	纯石墨 Graphite		
11	阀杆螺母 Stem nut	铝青铜合金, 铝黄铜合金 Aluminum bronze alloy, aluminum brass alloy		

主体材料允许的工作压力(MPa)/温度(°C)对照表

Allowable Operating Pressure of Main Body Materials(MPa)/Temp(°C)

阀体及承压件材料 Materials of valve body and pressure bearing parts	压力 (Class/PN)	工作温度 (°C)													
		-29 ~250	300	350	400	425	450	475	500	538	550	575	600	625	650
F22 Class3	CL1500 (PN260)	25.0	24.9	24.6	24.4	24.4	23.6	21.4	17.8	11.5	9.8	6.6	4.3	2.8	1.7
	CL2500 (PN420)	41.7	41.5	41.0	40.6	40.6	39.3	35.6	29.7	19.2	16.3	10.9	7.1	4.6	2.9
	CL4500 (PN760)	75.0	74.7	73.8	73.1	73.1	70.7	64.1	53.5	34.5	29.3	19.7	12.9	8.3	5.3
F91	CL1500 (PN260)	25.8	25.8	25.7	25.1	24.8	23.5	21.3	17.8	14.5	14.5	14.3	12.2	9.1	6.2
	CL2500 (PN420)	43.0	43.0	42.8	41.8	41.3	39.3	35.6	29.7	24.1	24.1	23.8	20.3	15.2	10.3
	CL4500 (PN760)	77.5	77.5	77.1	75.3	74.4	70.7	64.1	53.5	43.5	43.5	42.8	36.5	27.3	18.6
F92	CL1500 (PN260)	25.8	25.8	25.7	25.1	24.8	23.5	21.3	17.8	14.5	14.5	14.3	13.4	11.4	8.2
	CL2500 (PN420)	43.1	43.1	42.8	41.8	41.3	39.3	35.6	29.7	24.1	24.1	23.8	22.3	19.0	13.8
	CL4500 (PN760)	77.5	77.5	77.1	75.3	74.4	70.7	64.1	53.5	43.5	43.5	42.8	40.2	34.2	24.8

注：F22 Class 3 材料不推荐长时间用于595°C及以上。

Note: F22 Class 3 materials are not suggested to be applied for 595°C or above for a long time.