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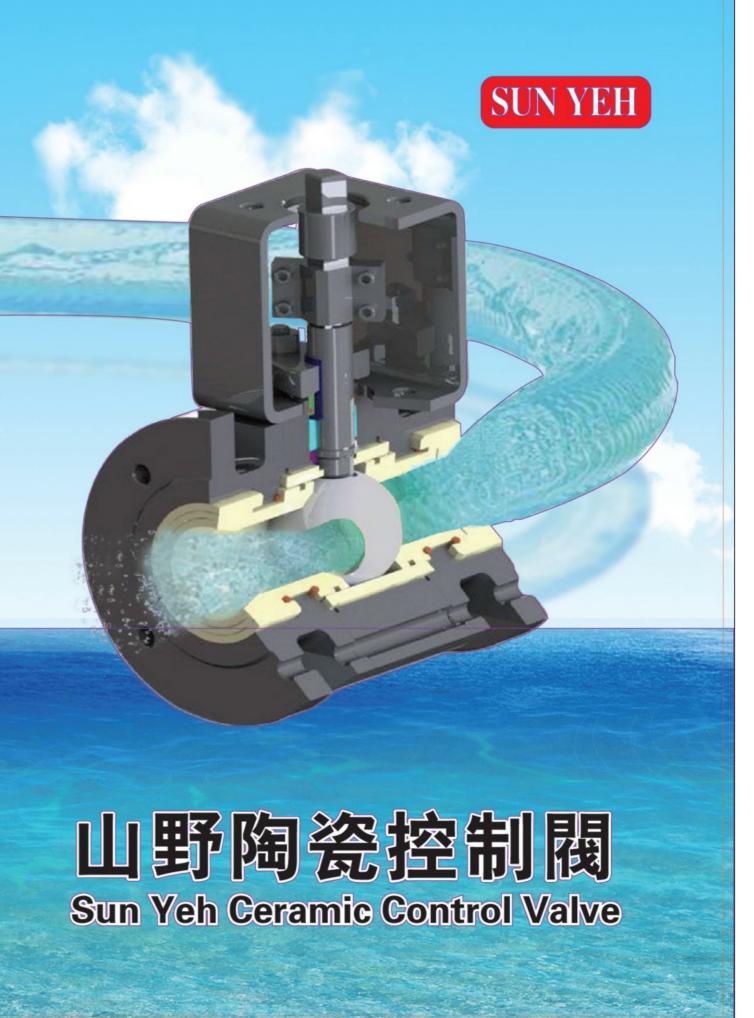
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公司簡介 Company Profile

录 Catalog

臺灣山野企業有限公司(TAI WAN SUN YEH ENTERPRISE CO., LTD),研發、制造、銷售 應用于廣泛領域的各種控制閥,創始團隊在控制閥領域歷經三十多年的實踐,透過CV值實測系 統,軟件輔助,保證每一臺控制閥的精準性能,堅持完美的設計理念,追求永無止盡之質量改 善,有效保障産品的使用安全并達到最佳的使用壽命。

Taiwan Sun Yeh Enterprise Co., Ltd. is a manufacturer, who specializes in producing all kinds of control valves used in a wide range of fields. The founding team of Sun Yeh has experienced more than 30 years of practice, they use CV value measurement system and software assistance to ensure every control valve's perfect performance and operating safety, and finally achieve the best service life of control valves. The pursuit of endless quality improvement is our design concept.

山野高端閥

Sun Yeh High-end Valves

品質有保障 with High Quality

































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900T陶瓷球閥(全襯型浮動球)

900T Ceramic Ball Valve (Full-lined Floating Ball)

900T陶瓷球閥(全襯型浮動球)

900T Ceramic Ball Valve (Full-lined Floating Ball)



產品簡介

Product Profile

(3Y) SUN YEH

山野900T陶瓷控制球閥系列,設計型式為精密陶瓷全內襯球閥,具有切斷/調節等多重功能,可在含有磨料固含量的强腐蝕性介質中起節流調節、切斷控制作用。

Sun Yeh 900T Ceramic Control Ball Valve Series is designed with precision ceramic full lined ball valves. It has multiple functions such as cut-off and adjustment. It can play the role of throttling governing and cut-off control in highly corrosive medium containing abrasive solid content.

產品特色

Product Characteristics

●山野陶瓷控制球閥,採用三段式結構設計,球和座實現自由對中,通过阀门的流体产生的压差将阀球密封在下游阀座上,具有耐磨損、耐腐蚀、耐高溫及防擠碎的性能。

Sun Yeh Ceramic Control Ball Valve adopts three-stage structure design, Free alignment of ball and seat, and the ball is sealed on the downstream seat by the pressure difference generated by the valve fluid, which has the properties of wear resistance, corrosion resistance, high temperature resistance and crushing resistance.

●由於三片式的設計,對稱結構,不但有雙重密封,而且沒有流向限制,當一端閥座磨損後可将閥門直接调轉180度安裝,即使 用另一端的密封,延长使用壽命可提高一倍。

Due to the three-piece design, symmetrical structure, not only has double seals, but also no flow direction restriction. When one end of the valve seat is worn out, the valve can be directly rotated 180 °s to install which means to use the other end of the seal instead, and meanwhile the service life can be doubled.

●執行器連接是通過支架介面,其符合IS05211尺寸標準。

The actuator connection is through the bracket interface, which meets the ISO 5211 size standard.

●山野900T系列陶瓷控制球閥, 浮動球式結構, 對稱式設計, 可確保低扭矩。

Sun Yeh 900T Series Ceramic Control Ball Valves with floating ball structure and symmetrical design ensure low torque.

●鍛鋼金屬保護殼體,可通過環氧樹脂或尼龍塗裝,達到顏色識別和抗腐蝕環境要求。和不銹鋼殼體一樣,允許暴露在極端惡 劣的環境中而不受外部的腐蝕性降解。其牢固地圍繞著陶瓷組件,防止它們受到任何可能的損壞。管道壓力不會轉移到陶瓷而 是被殼體吸收一因為所有的法蘭螺栓直接連接到殼體上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance environment. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

●堅固的陶瓷閱體完全封裝了閥球,當與閥座配在一起時充當壓力容器。此確保了腐蝕性的介質不會接觸任何外部的金屬組 性

Strong ceramic body fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that corrosive media do not touch any external metal components.

●堅固的陶瓷閥球耐腐蝕和磨損,供應O型和各種V開口的球,確保用於快開,直線流量,拋物線性和等百分比調節的應用需求。

Strong ceramic ball is anti-erosion and wear-resistant, and balls with O-shaped and V-shaped openings just meet the application requirements of fast opening, linear flow, parabolic linear and equal percentage adjustment.

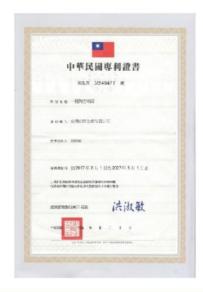
●堅固的陶瓷閥座耐磨損,陶瓷特有的自潤滑性,即有很好的弧面密封,不會被截留物毀損的性能,同時還徹底改變了金屬硬密 封球閥易洩漏,扭距大,密封面不耐腐蝕磨損的缺點。

Strong ceramic seat is wear-resistant and with ceramic-specific good self-lubrication, that is, it has excellent globoidal sealing performance and will not be damaged by intercepted objects and completely without the defects of metal hard sealing ball valve, such as easy leakage, large torsion distance and no anti-erosion and wear-resistant of sealing surface.

- ●陶瓷對陶瓷密封。陶瓷閥球和閥座完美弧面的匹配,達到貼合效果密封,長效確保VI洩漏等級關閉或更好的調節性能。
 Our Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensures VI leak level closure or better regulation performance.
- ●厚實、堅固的陶瓷。一個合理的、高度工程化的控制閥門設計的證明。通過採用堅固、厚壁的陶瓷部件,閥門能夠在持續服務中存活的時間遠遠超過塗層或者襯PTFE、PFA的閥門。

Our ceramics is thick and solid. A reasonable and highly engineered control valve design proves that by using solid, thick-walled ceramic components, the valve can survive in continuous service much longer than that of coated or PTFE-lined or PFA lined valves.





主要技術參數

	補適徑 Body	SiZe	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
尺寸	Dimension	閥長 L=MM	108	117	127	140	165	178	190	203	229	356	394	457	533	610
	量特性 Flow cteristics						Quick-op			诗等百分比 ntage with	h positione	er				
	轉角度 rotation								60~90de	g						
			開闢量拍	空制 On-off		模似	量控制 Mod	ulation	Sol		電子式 Electronic	Туре			b控制 Motor Type	e
動作 Action	正作用 DA			瓦壓増加閥 Air to va		隨輸入	定位器信號: 閩閉。	增加閱開或	Sign		號增加閥閉 se to valv	e shut			C, 24VDC, 1	
	反作用 RA			R壓增加閥 Air to va			pen or shu lectric si		775.6		號增加閥開 se to valv	e open	2204407		AC/3PH	IVNO/ SFR
選購前	及備 Option	定位器、過	濾減壓器		、限位開闢 助操作機構		、鎖止閥、	限位件、手	比例板、	超載保護裝		制、現場操作 3輪及微動!			器、加熱器法	溫控開關
	材質 Body iterial						WC	B, A105, C	F8, CF8M,	CF3M, TA	2, PVC					
	標準 The d of flange						. (BB, HG, DI	N, JIS, A	NSI 及非標	定制					
	度 Operating emp. °C				-1	96°C~+10	0°C; -25°C	~+950°C;	-30°C~+16	0°C; -30°C	~+180°C;	-30°C~+310	'C等			
	壓力 Body atings				PN10~PN16	0; ANS 1150	, ANS1300,	ANS1600, A	NS1900, A	NS11500, A	NS12500等级	,其他公称	压力范围可] 依要求而定		

備注: 山野陶瓷控制球閥除提供標準閥長以外, 還可根據現場需求提供所需長度閥門。



3Y SUN YEH



引进传承台湾先进加工技艺,采用特殊制程,使得陶瓷件之间能紧密配合,达到贴合就密封状,陶瓷自身特有的自润滑性,保证阀门超轻扭矩;阀座设计为双重密封结构,第一道线密封,为刮刀式原理,可将介质物料剪切于管道之中,自清理阀座与球面,保持清洁无存留物;第二道为面贴合密封,阀座设计有自补偿性能,有效确保长效使用寿命。

With Taiwan's advanced processing technology and special production procedure ensures the ceramic objects cooperate with each other closely to achieve a seamless fit, and ceramic's own unique self-lubrication also guarantees ultra-light valve torque. Besides, the design of valve seat is a double sealing structure. The first line seal with scraper-type principle makes the medium material can be cut in the pipe, self-cleaning seat and spherical surface keep our valve clean and no residue; The second seal is a face-to-face seal, and our valve seat is designed with self-compensation performance, which effective enough to ensure long service life of valves.







独到的多重叠加低逸散填料系统,解决驱动阀杆动态、静态下的有效密封,特别是在有毒、有害、挥发性极强的介质使用中,确保更可靠更安全。

The unique multi-overlap and low-evaporation packing system realizes the reliable sealing of driving stem under the dynamic or static state, especially in the use of toxic, harmful and highly volatile medium.

法兰孔设计为攻丝,是防错误安装设计,避免未对孔等边力强行锁紧螺栓,造成不必要的密封面陶瓷损伤。

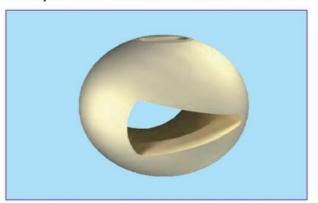
The design of flange hole is tapping which prevents incorrect installation, and avoids unnecessary ceramic damage of sealing surface by forcibly locking bolts without equal edge force to the hole.



现代陶瓷材料所用粉末大多是亚微米级超细粉末,我司采用的是进口纳米级超细粉,保障其纯度和烧结活性。粉末粒径越小,表面积越大,烧结时进行固相扩散物质迁移的界面就越多,即越容易致密化。

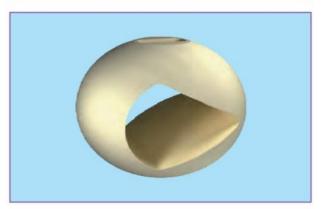
Most of the powders used in modern ceramic materials are submicron ultrafine powders. Our company adopts imported nanometer ultrafine powders to ensure their purity and sintering activity. The smaller the particle size and the larger the surface area of the powder, the more the interface for solid phase diffusion material migration during sintering, that is, the easier to densify.

阀芯形状和特性曲线图 Shape and Characteristic Curve of Valve Core



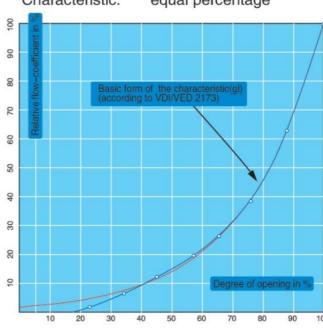
理想的球芯阀控制性能取决于中心壳体的公称直径和球孔的几何形状。圆形和三角V形的孔可以在0和90o之间旋转,所有公称直径的特殊轮廓与调整后Kvs/Cv值是可用的,并定义精准流量的开口截面。

The ideal control performance of the ball-core valve depends on the nominal diameter of the central shell and the geometrical shape of the spherical hole. The circular and triangular V-shaped holes can rotate between 0 and 90°. The special profile of all nominal diameters and the adjusted Kvs/Cv value are available, and the precise flow opening section is defined.



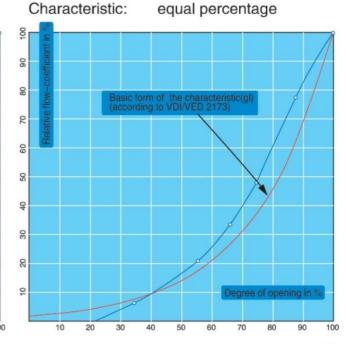
CHARACTERISTICS

Nominal diameter:Dn15-350 · ^{1/2} " -12 " Ball bore: Triangle 三角V形 Characteristic: equal percentage





Nominal diameter:Dn15-350 \cdot " -12 " Ball bore: Round 圆形







Kvs/Cv流量系數表

Kvs/Cv Flow Coefficient Table

910T陶瓷球閥(全襯型固定球) 910T Ceramic Ball Valve(Full-lined Fixed Ball)



				K																/s和cv》 1BT, 9			B90T			
法主 Flan	上尺寸 ge size	球外	球芯	规格s	Spherica	al Co	re Spec	ification	1																	
	ANSI	球孔结构形式	DN	115	DN2	20	DN	25	DNS	32	DN	140	DN	50	DN	165	DN	180	DN	100	DN	125	DN	150	DN	200
DIN	NPS	构形 形	NPS	1/2	NPS	3/4	NP	S1	NPS1	1/4	NPS	11/2	NP	S2	NPS2	/1/2	NP	\$3	NF	\$4	NP	\$5	NF	°S6	NP	S8
			Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv
15	1/2"	三角 Triangle	12.2	14. 2																						$oxed{}$
		圆形 Circular	21.4	25																						$oxed{}$
20	3/4"	三角 Triangle	14.1	16.5	24	28																				_
		圆形 Circular	19.1	22. 3	38. 6	45																				igsqcup
25	1"	三角 Triangle	13.1	15. 3	27.4	32	37. 3	43.5																		$oxed{}$
		圆形 Circular	19.2	22. 4	34. 3	40	45. 9	53. 6																		
32	11/4"	三角 Triangle	11.5	13. 4	27.4	32	42.8	50	81.4	95																
		圆形 Circular	17.3	20. 2	42	49	66. 8	78	123	143																
40	11/2"	三角 Triangle	9.4	11	23. 1	27	36. 5	42.6	66.8	78	89. 1	104														\vdash
		圆形 Circular	15.5	18.1	39.4	46	62. 4	72.8	100	117	127	148														$oxed{}$
50	2"	三角 Triangle	9.4	11	19.7	23	28. 8	33. 6	53.1	62	77. 1	90	135	158												<u> </u>
		圆形 Circular	14. 1	16.5	34. 3	40	54	63	105	123	156	182	274	320												<u> </u>
65	21/2"	三角 Triangle					27. 2	31.7	51.4	60	75.5	88. 1	137	160	202	236										igsqcup
		圆形 Circular					46. 5	54. 3	108	126	169	197	249	290	342	398										$oxed{}$
80	3"	三角 Triangle					26. 4	30.8	45.4	53	64. 5	75.3	140	163	214	250	311	363								<u> </u>
		圆形 Circular					39.8	46. 4	90	105	140	163	246	287	351	410	529	617								$oxed{}$
100	4"	三角 Triangle									61.6	71.9	105	123	148	173	309	360	414	483						
		圆形 Circular									108	125	247	288	385	450	471	550	825	962						
125	5″	三角 Triangle									60	70	99	115	138	160	232	271	523	610	848	990				$oxed{}$
		圆形 Circular									101	118	194	226	285	333	573	668	857	1000	1392	1623				\vdash
150	6"	三角 Triangle													132	154	215	250	297	346	960	1120	1558	1818		<u> </u>
		圆形 Circular													258	301	482	563	778	907	1371	1600	2228	2600		
200	8″	三角 Triangle																	273	319	930	1085		1850		3000
	- 20	圆形 Circular																	529	617	1458	1700	1971	2300	3600	4200
250	10"	三角 Triangle																			523	610	1200	1400	2528	2950
	9	圆形 Circular																			1147	1338	1917	2237	3342	3900
300	12"	三角 Triangle																					960	1120	1585	1850
		圆形 Circular																					1532	1788	3256	3800
350	14"	三角 Triangle																					900	1050	1534	1790
		圆形 Circular																					1380	1610	3170	3700

產品簡介

Product Profile

山野910T陶瓷控制球阀系列,设计型式为精密陶瓷全内衬球阀,具有切断/调节等多重功能,可在含有磨料固含量的强腐蚀性介 质中起节流调节、切断控制作用。

Sun Yeh 910T Ceramic Control Ball Valve Series is designed with precision ceramic full-lined ball valves. It has multiple functions such as cut-off and adjustment. It can play the role of throttling governing and cut-off control in highly corrosive medium containing abrasive solid content.

產品特色

Product Characteristics

●山野陶瓷控制球阀,采用三段式结构,固定球设计,实现较高压差,球始终处于对中轴运动,不受压差变化而产生位移影 响, 具有耐磨损、耐腐蚀、耐高温及防挤碎的性能。

Sun Yeh Ceramic Control Ball Valve adopts three-stage structure and fixed ball design to achieve higher pressure difference. The ball is always in the center axis motion, no displacement because of pressure difference change, and it has the properties of wear resistance, corrosion resistance, high temperature resistance and crushing resistance.

- ●三片式的设计,对称结构,固定流向,阀前式密封,密封自动补偿原理,不受阀座长效使用后磨损而影响调节效果。 With three-piece design, symmetrical structure, fixed flow direction, front seal and automatic compensation principle of seal, Its regulating performance will not affected by wear and tear of valve seat.
- ●最小空腔空间将主体空腔中管道介质的保持力降到最低,从而大幅度减少介质污染问题。

Minimum cavity space reduces the retaining force of pipeline medium in the main cavity to the minimum, thus greatly reducing the problem of medium pollution.

●执行器连接支架采用IS05211标准,使安装快捷简便。

The actuator connection bracket adopts ISO5211 standard, which makes the installation quick and easy.

●山野910T系列陶瓷控制球阀,固定球式结构,阀杆转动时只有旋转扭力,没有管内差压产生球与座挤压磨擦力,实现低扭

Sun Yeh 910T Series Ceramics Control Ball Valves with fixed ball structure, Only rotational torsion occurs when the stem rotates, there is no differential pressure inside the tube to produce ball and seat extrusion friction force, and ultimately achieve

●锻钢金属保护壳体,可通过环氧树脂或尼龙涂装,达到颜色识别和抗腐蚀环境要求。和不锈钢壳体一样,允许暴露在极端恶 劣的环境中而不受外部的腐蚀性降解。其牢固地围绕着陶瓷组件,防止它们受到任何可能的损坏。管道压力不会转移到陶瓷而 是被壳体吸收一因为所有的法兰螺栓直接连接到壳体上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance environment. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

●坚固的陶瓷阀体完全封装了阀球,当与阀座配在一起时充当压力容器。此确保了腐蚀性的介质不会接触任何外部的金属组

Strong ceramic body fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that corrosive media do not touch any external metal components.



●坚固的陶瓷阀球耐腐蚀和磨损,供应O型和各种V开口的球,确保用于快开,直线流量,抛物线性和等百分比调节的应用需

Strong ceramic ball is anti-erosion and wear-resistant, and balls with O-shaped and V-shaped openings just meet the application requirements of fast opening, linear flow, parabolic linear and equal percentage adjustment.

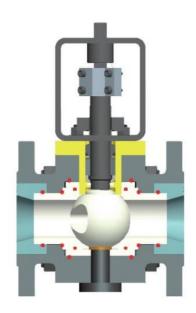
●坚固的陶瓷阀座耐磨损,陶瓷特有的自润滑性,即有很好的弧面密封,不会被截留物毁损的性能,同时还彻底改变了金属硬 密封球阀易泄漏, 扭距大, 密封面不耐腐蚀磨损的缺点。

Strong ceramic seat is wear-resistant and with ceramic-specific good self-lubrication, that is, it has excellent globoidal sealing performance and will not be damaged by intercepted objects and completely without the defects of metal hard sealing ball valve, such as easy leakage, large torsion distance and no anti-erosion and wear-resistant of sealing surface.

- ●陶瓷对陶瓷密封。陶瓷阀球和阀座完美弧面的匹配,达到贴合效果密封,长效确保Ⅵ泄漏等级关闭或更好的调节性能。 Our Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensures VI leak level closure or better regulation performance.
- ●厚实、坚固的陶瓷。一个合理的、高 度工程化的控制阀门设计的证明。通过 采用坚固、厚壁的陶瓷部件, 阀门能够 在持续服务中存活的时间远远超过涂层 或者衬PTFE、PFA的阀门。

3Y SUN YEH

Our ceramics is thick and solid. A reasonable and highly engineered control valve design proves that by using solid, thick-walled ceramic components, the valve can survive in continuous service much longer than that of coated or PTFE-lined or PFA-lined valves.





主要技術參數

	稱通徑 Body		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
尺寸	Dimension	閱長 L=MM	108	117	127	140	165	178	190	203	229	356	394	457	533	610
charac	量特性 Flow cteristics						Quick-op			時等百分比 ntage with	h position	er				
	轉角度 rotation								60~90de	g						
		, l	開闢量哲	割 On-off		模似	量控制 Mod	ulation	Sol		電子式 Electronic	Туре			肋控制 Motor Typ	ė
動作 Action	正作用 DA			〖壓增加閥 Air to va		隨輸入江	E位器信號 関閉。	增加閩開或	Sign		號增加閱閉 se to valv	e shut			C, 24VDC, 1	
	反作用 RA			逐增加限 Air to va			en or shu lectric si	t by air or gnal			號增加閥開 se to valv	e open	220VAG/		AC/3PH, 380 /AC/3PH	VAG/ 3FH,
選購記	及備 Option	定位器、過	濾減壓問		、限位開關 助操作機構		、鎖止閥、	限位件、手	比例板、	超載保護等	装置扭力開展 電位計、2	間、現場操作 3輪及微動				温控開關、
	材質 Body iterial						WC	B, A105, C	F8, CF8M,	CF3M, TA	2, PVC					
	標準 The d of flange							GB, HG, DII	I, JIS, A	NSI 及非標	定制					
	賽 Operating emp. °C				-1	96'C~+100	0°C; -25°C	~+950°C; -	30°C~+16	0°C; -30°C	C~+180°C;	-30°C~+310	'C等			
	壓力 Body atings				PN10~P	N160; ANS I1	150, ANS 130	00, ANS1600,	ANS1900,	ANS11500,	ANS12500等	级,其他公科	非压力范围	可依要求而	定	

Product Profile

產品簡介

山野90BT陶瓷控制球阀系列,设计型式为精密陶瓷半内衬球阀,具有切断/调节等多重功能,可在含有磨料固含量的轻腐蚀性介 质中起节流调节、切断控制作用。

Sun Yeh 90BT Ceramic Control Ball Valve Series is designed with precision ceramic half-lined ball valves. It has multiple functions such as cut-off and adjustment. It can play the role of throttling governing and cut-off control in highly corrosive medium containing abrasive solid content.

產品特色

Product Characteristics

●山野陶瓷控制球閥,采用三段式結構設計,球和座實現自由對中,通过管阀内的流体产生的压差将阀球密封在下游阀座上,具有耐 磨損、耐腐蝕、耐高溫及防擠碎的性能。

Sun Yeh Ceramic Control Ball Valve adopts three-stage structure design, Free alignment of ball and seat, and the ball is sealed on the downstream seat by the pressure difference generated by the valve fluid, which has the properties of wear resistance, corrosion resistance, high temperature resistance and crushing resistance.

●由於三片式的設計,對稱結構,不但有雙重密封,而且沒有流向限制,當一端閥座磨損後可将閥門直接调轉180度安裝,即使用另一 端的密封,延长使用壽命可提高一倍。

Due to the three-piece design, symmetrical structure, not only has double seals, but also no flow direction restriction. When one end of the valve seat is worn out, the valve can be directly rotated 180 °s to install which means to use the other end of the seal instead, and meanwhile the service life can be doubled.

●执行器连接是通过支架界面, 其符合IS05211尺寸标准

The actuator connection is through the bracket interface, which meets the ISO 5211 size standard.

- ●山野90BT系列陶瓷控制球阀,浮动球式结构,对称式设计,可确保低扭矩。
- Sun Yeh 90BT Series Ceramic Control Ball Valves with floating ball structure and symmetrical design ensure low torque.
- ●锻钢金属保护壳体,可通过环氧树脂或尼龙涂装,达到颜色识别和抗腐蚀环境要求。和不锈钢壳体一样,允许暴露在极端恶劣的环 境中而不受外部的腐蚀性降解。其牢固地围绕着陶瓷组件,防止它们受到任何可能的损坏。管道压力不会转移到陶瓷而是被壳体吸收 --因为所有的法兰螺栓直接连接到壳体上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance environment. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

- ●坚固的金属阀体完全封装了阀球,当与阀座配在一起时充当压力容器。此确保了陶瓷阀门的耐受高压力及高压差使用。
- Strong ceramic body fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that our ceramic valves can withstand high pressure and high differential pressure.
- ●坚固的陶瓷阀球耐腐蚀和磨损,供应O型和各种V开口的球,确保用于快开,直线流量,抛物线性和等百分比调节的应用需求。 Strong ceramic ball is anti-erosion and wear-resistant, and balls with O-shaped and V-shaped openings just meet the application requirements of fast opening, linear flow, parabolic linear and equal percentage adjustment.
- ●堅固的陶瓷閥座耐磨損,陶瓷特有的自潤滑性,即有很好的弧面密封,不會被截留物毀損的性能,同時還徹底改變了金屬硬密封球



精細陶瓷新材料應用説明

Application Explanation of New Fine Ceramic Materials



閥易洩漏, 扭距大, 密封面不耐腐蝕磨損的缺點。

Strong ceramic seat is wear-resistant and with ceramic-specific good self-lubrication, that is, it has excellent globoidal sealing performance and will not be damaged by intercepted objects and completely without the defects of metal hard sealing ball valve, such as easy leakage, large torsion distance and no anti-erosion and wear-resistant of sealing surface.

●陶瓷对陶瓷密封。陶瓷阀球和阀座完美弧面的匹配,达到贴合效果密封,长效确保VI泄漏等级关闭或更好的调节性能。

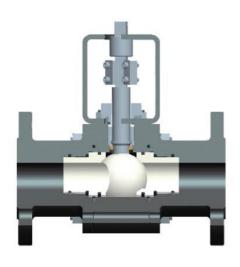
Our Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensures VI leak level closure or better regulation performance.

●厚实、坚固的陶瓷。一个合理的、高度工程化的控制阀门设计的证明。通过采用坚固、厚壁的陶瓷部件,阀门能够在持续服务中存活的时间远远超过硬质合金或者金属硬密封的阀门。

Our ceramics is thick and solid. A reasonable and highly engineered control valve design proves that by using solid, thick-walled ceramic components, the valve can survive in continuous service much longer than that hard-sealed carbide or metal valves

●此款控制阀门,连接尺长及法兰标准可以任意性要求,不受替代原阀型结构长度、法兰标准之影响交期。

The length of connection and flange standard of this control valve can be arbitrarily required, and the delivery date is not affected by the length of the original valve type structure and flange standard.





主要技術參數

公補通径 Body size DN15 DN20 DN25 DN32 DN40 DN50 R寸 Dimension 関長 L=MM 108 117 127 140 165 178 法量特性 Flow Quick-opening. Equipment Characteristics 回轉角度 Angle rotation 開開重控制 On-off 模似量控制 Modulation 原用:無軽増加関門 Direct action: Air to valve shut 反作用 RA Reverse action: Air to valve open or shut by air or electric signal					DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300				
尺寸口	Dimension	閥長 L=MM	108	117	127	140	165	178	190	203	229	356	394	457	533	610
	Flow						Quick-op			時等百分比 ntage with		er .				
									60~90de	eg						
			開闢量技	空制 On-off		模似	量控制 Mod	ulation	Sol		置子式 Electronic	Туре			助控制 Motor Typ	ė
	正作用 DA					1100000	間閉。		Sign		虎增加閥閉 se to valv	e shut			C, 24VDC, 1	
	反作用 RA										虎增加閥開 se to valv	e open	2204807		/AC/3PH	JVAG/ SPII,
選購訪	没備 Option	定位器、過	濾減壓視	間、電磁間、 動	限位開翻 b操作機構		、鎖止閥、	限位件、手	比例板、	超載保護等		引、現場操作 3輪及微動		を板、加熱 が操作機構。		温控開闢、
	材質 Body terial						WC	B, A105, C	F8, CF8M	CF3M, TA	2, PVC					
	標準 The d of flange						(BB, HG, DII	N, JIS, A	NSI 及非標	定制					
	更 Operating emp. °C				-1	96°C~+10	0°C; -25°C	~+950°C;	-30°C~+16	0°C; -30°C	~+180°C;	-30°C~+310	'C等			
	壓力 Body stings				PN10~PI	N160; ANS I	150, ANSI3	00, ANS 1600	, ANS1900	, ANSI1500	, ANS12500	等级,其他	公称压力	5国可依要2	^{挨而定}	

自台湾山野1986年推出以来,精细陶瓷新材料应用于控制阀上,革命性的陶瓷特阀迅速成为解决严柯工况,侵蚀性的工况首选的控制类产品。无论是产品的创新和进步,山野控制阀集团不断倾听客户的需求,努力改进山野特阀优秀产品。

Since Taiwan Sun Yeh company established in 1986, new fine ceramic materials have been applied for control valves, and revolutionary ceramic special valves have rapidly become the preferred control products to solve difficult and corrosive engineering conditions. Regardless of product innovation and progress, Sun Yeh Control Valve Group continuously meets customer's needs and strives to improve the quality of Sun Yeh Special Valve products.

这种前瞻性的思维方式促进了山野目前市场上已拥有12款陶瓷控制阀类,全系列规格制造供应配套广大发展国内外的细分领域市场。

At present, there are 12 types of Sun Yeh ceramic control valves on the market, and the whole series of specifications are manufactured and supplied to support the domestic and foreign market.

为什么选择台湾山野陶瓷控制阀

Why Customers Choose Taiwan Sun Yeh Ceramic Control Valve

由于技术陶瓷先进性能的使用,山野陶瓷控制阀比标准材料的控制阀具有显著的优势。山野陶瓷控制阀采用99.5%、99.9%高纯氧化铝或氧化铝陶瓷制作而成,确保每个控制阀门在各个方面更胜一筹,包括**耐**:

Due to the use of advanced performance of technical ceramics, Sun Yeh Ceramics Control Valve has significant advantages over standard material control valves. Sun Yeh Ceramic Control Valve adopts 99.5 or 99.9 high purity alumina and zirconia ceramics to ensure that each control valve is superior in all aspects, including:

腐蚀: 99.5%氧化铝陶瓷实质上对几乎所有的有机和无机化学品产生惰性。它们不会与过程介质相互作用,也不会对其污染。在大多数酸或碱中,它们的物理和化学性质保持稳定,且多年使用后,只有很少或无腐蚀性降解。

Corrosion resistance: 99.5 alumina ceramics are essentially inert to almost all organic and inorganic chemicals. They do not interact with process media or pollute them. In most acids or bases, their physical and chemical properties remain stable, and over years of continued use only little or no corrosive degradation occurs.

磨损: 99.5%氧化铝陶瓷硬度仅次于金刚石,这是我们控制阀门材料长期耐磨性能的象征。

Wear resistance: The hardness of 99.5 alumina ceramics is second only to that of diamond, which is a symbol of the long-term wear resistance of valve materials.

气蚀: 甚至严重的、持续气蚀不会降解或破坏陶瓷阀门成分。因此,山野陶瓷球阀等可用于空化或高压差的应用领域,对其影响甚微或无不良影响。

Cavitation resistance: Even severe and persistent cavitation will not degrade or destroy our ceramic valve components. Therefore, Sun Yeh Ceramic Ball Valves can be used in cavitation or high pressure difference applications.

阀芯可选范围广:每个阀门尺寸供应四到五个各种不同的控制和圆形通径的阀芯。这确保了高度精确、定向的流量控制及最大程度的减少因阀芯尺寸过大而造成阀座和管道的磨损。

Wide selection of spools: Each valve provides four to five different control and circular diameter spools. It ensures highly accurate, flow controlling directly and minimizes wear and tear of seats and pipes.

球阀的陶瓷材料

Ceramic Materials of Ceramic Ball Valves

为了满足现代工业的需要而规定的严苛要求,山野陶瓷球阀是利用各式各样独具加工特色的陶瓷材料制造而成的。氧化铝陶瓷是目前最常用的陶瓷材料,且市面上存在不同纯度-从76%的多孔耐火材料到99.9%的惰性等级。尽管低纯度的氧化铝是一种相对低成本的选择,但当比较高的氧化铝含量等级与其他陶瓷对比时,其硬度和耐腐蚀性等重要性能则大大降低。氧化锆、碳化硅和氮化硅各自具有各种独特的特性,且都可用于山野的陶瓷球阀。

In order to meet the stringent requirements of modern industry, Sun Yeh Ceramic Ball Valves are made of various ceramic materials with unique processing characteristics. Alumina Ceramics are currently the most commonly used ceramic materials, and there are different purities of them on the market - from 76 porous refractories to 99.9 inert grade. Although low purity alumina is a relatively low-cost choice, its hardness and corrosion resistance are greatly reduced when compared with other ceramics with higher alumina content. Zirconia, silicon carbide and silicon nitride have their own unique characteristics and all can be used in Sun Yeh Ceramic Ball Valves series.

99.5%氧化铝(99.5% Alumina)

99.5%氧化铝是所有山野陶瓷阀门使用的标准陶瓷材料。除了其极强的耐腐蚀性和高硬度的因素之外,氧化铝也不受放射性降解,使它成为各种侵蚀性应用的一种理想材料。它在极高的温度下能保持稳定,甚至有可能用在超过1000F°的地方。

99.5 Alumina is the standard ceramic material for all Sun Yeh Ceramic Valves. In addition to its strong corrosion resistance and high hardness, 99.5 Alumina is not degraded by radioactivity, making it an ideal material for various corrosive applications. It remains stable at extremely high temperatures, and may even be used in places over 1000F degrees.

99.9%氧化铝(99.9% Alumina)

这种优质的氧化铝是现有氧化铝中纯度形式最高的一种。它比99.5%氧化铝的粒径更细,更均匀,拥有更少的粘结材料。因此,其耐腐蚀性和耐磨损性能大幅提升,使得这种陶瓷在最严苛的工况中是一种理想选择。

This high quality Alumina is one of the highest purity forms of Alumina available. It is finer, more uniform and has fewer bonding materials than 99.5 Alumina. Therefore, its corrosion resistance and wear resistance have been greatly improved, making this kind of ceramics an ideal choice in the most harsh working conditions.

氮化硅(Silicon Nitride)

在高温下,氮化硅胜过其他陶瓷,具有显著的高耐热冲击性和高强度性能。起初只是开发用作内燃机、涡轮机和柴油 电热塞的内部组件,而今它也可作为山野阀门的一种可选陶瓷材料。氮化硅在高温下是如此稳定,以至于其可与熔融 全属一起使用

At high temperature, Silicon Nitride is superior to other ceramics, with remarkable heat shock resistance and high strength. Originally, it developed as an internal component for internal combustion engines, turbines and diesel plugs, and now it can be an optional ceramic material for Sun Yeh Valves. Silicon Nitride is so stable at high temperatures that it can be applied with molten metals.

碳化硅(Silicon Carbide)

碳化硅的硬度仅次于金刚石和碳化硼,且比标准的氧化铝还硬95%。在极端温度下,它表现出高导热性、高耐热冲击性及强度耐久性。在所有精细陶瓷材料中,碳化硅的耐腐蚀性最高,也是为数不多的能耐氢氟酸的一种,使得这种材料是陶瓷的终极手段。

The hardness of Silicon Carbide is harder than standard Alumina, and only next to that of Diamond and Boron Carbide. At the conditions of extreme temperatures, it exhibits high thermal conductivity, high heat shock resistance and strength durability. Among all fine ceramics, Silicon Carbide has the highest corrosion resistance and is one of the few hydrofluoric acid-resistant materials, which make it becomes the ultimate material of Sun Yeh Ceramic Valves.

氧化锆(Zirconia)

室温下,在所有的工程陶瓷中,氧化锆具有最高的强度和韧性。然而,氧化锆比较不耐腐蚀,更易受到冲击和摩擦磨损,因此主要用于高扭矩和高冲刷或高压的应用领域。

At room temperature, Zirconia has the highest strength and toughness of all Engineering Ceramics. However, its corrosion resistant is on general level and more susceptible to impact and friction and wear, so it is mainly used in high torque, high erosion and high pressure applications.

用于山野控制阀中材料各自的特性:

Characteristics of materials which used in Sun Yeh Control Valves:

性能特点 Performance characteristics	99.5 氧化铝 (Al ₂ O ₃)	99.9 氧化铝 (Al ₂ O ₃)	碳化硅 (SiC)	氮化硅 (Si3 N4)	氧化锆 (ZrO ₂)
颜色 Colors	白色 White	象牙色 Ivory	黑色 Black	木炭色 Charcoal	乳白色 Milk-white
体积密度 Volume density (g/cc)	3.8	3.97	3.2	3.2	6.0
硬度 Hardness(H R A)≽	87	89	90	90	89
抗弯强度 Bending strength (MPa)≥	380	552	552	906	930
弹性模量 Modulus of elasticity (G Pa)	372	386	400	311	200
刚度/重量 Stiffness/Weight(G Pa/g/CC)	96	97	129	94	35
抗压强度 Compress strength (MPa) ≥	2620	3792			1750
断裂韧性 Fracture toughness(MPam・1/2)	4–5	4– 5	3	6	11
最大使用温度 Max working temperature (℃)	1750	1900	1650	1200	600
耐热冲击性 Heat shock resistance(℃)	50	50	75	200	87
耐酸性 Acid resistance mg/cm2 ≤	0.7	0.7	0.7	0.7	0.7
耐碱性 Alkali resistance mg/cm2 ≤	0.2	0.1	0.1	0.1	0.1
耐磨性 Wear resistance g/cm2 ≤	0.2	0.1	0.1	0.1	0.1

最大瞬时温度冲击 Maximum Instantaneous Temperature Shock

	无保护的	带有热跟踪装置
	Naked	With thermal tracking device
氧化铝A1203	50°C (122° F)	100°C (244° F)
氧化锆Zr02	87°C (188° F)	174°C (376° F)
碳化硅SiC	75°C (167° F)	150°C (334° F)
氮化硅Si3N4	200°C (392° F)	400°C (784° F)

更高的瞬时温差可通过热跟踪装置来进行。关于热跟踪装置及具体细节的正确实施请咨询山野。

Higher instantaneous temperature differences can be achieved by thermal tracking devices. For proper implementation of the thermal tracking device and specific details, please consult Sun Yeh.

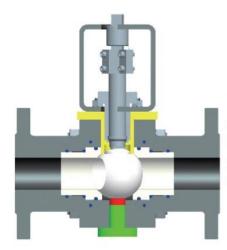
所有的山野陶瓷阀门部件都经过最严格的质量保证程序生产和测试,确保终端用户的每一个产品在其制作工艺中完 美无瑕。

All Sun Yeh Ceramic Valve components are manufactured and tested with the most stringent quality assurance procedures to ensure that every product is perfect in its manufacturing process.





SUN YEH





山野球阀采用固定阀球和旋转阀 研分离方式设计,减轻阀杆旋转阀球 扭矩不承受径向压差扭力,是山野陶 瓷固定球阀独特的亮点之一,确保阀 座受介质长时间冲刷磨损后也不影响 开关及调节效果,延长使用寿命。

Sun Yeh Ball Valve is designed by separating fixed valve ball and rotary valve stem, which can reduce the torque of rotary valve ball without bearing radial differential pressure and torsion. It ensures that after long-time erosion and wear of medium the valve seat still keep its switch and adjustment performances. And that is one of the unique highlights of Sun Yeh Ceramic Fixed Ball Valve.

產品簡介 Product Profile

山野91BT陶瓷控制球閥系列,設計型式為陶瓷半內襯球閥,具有切斷/調節等多重功能,可在含有磨料固含量的轻腐蝕性介質中起節流調節、切斷控制作用。

Sun Yeh 91BT Ceramic Control Ball Valve Series is designed with precision ceramic half-lined ball valves. It has multiple functions such as cut-off and adjustment. It can play the role of throttling governing and cut-off control in highly corrosive medium containing abrasive solid content.

產品特色

Product Characteristics

●山野陶瓷控制球阀,采用三段式结构,固定球设计,实现较高压差,球始终处于对中轴运动,不受压差变化而产生位移影响,具有耐磨损、耐腐蚀、耐高温及防挤碎的性能。

Sun Yeh Ceramic Control Ball Valve adopts three-stage structure and fixed ball design to achieve higher pressure difference. The ball is always in the center axis motion, no displacement because of pressure difference change, and it has the properties of wear resistance, corrosion resistance, high temperature resistance and crushing resistance.

●三片式的设计,对称结构,固定流向,阀前式密封,密封自动补偿原理,不受阀座长效使用后磨损而影响调节效果。

With three-piece design, symmetrical structure, fixed flow direction, front seal and automatic compensation principle of seal, Its regulating performance will not affected by wear and tear of valve seat.

●执行器连接是通过支架界面, 其符合IS05211尺寸标准

The actuator connection is through the bracket interface, which meets the ISO 5211 size standard.

●山野91BT系列陶瓷控制球阀,固定球式结构,阀杆转动时只有旋转扭力,没有管内差压产生球与座挤压磨擦力,实现低扭矩。

Sun Yeh 91BT Series Ceramics Control Ball Valves with fixed ball structure, Only rotational torsion occurs when the stem rotates, there is no differential pressure inside the tube to produce ball and seat extrusion friction force, and ultimately achieve low torque

●锻钢金属保护壳体,可通过环氧树脂或尼龙涂装,达到颜色识别和抗腐蚀环境要求。和不锈钢壳体一样,允许暴露在极端恶劣的环境中而不受外部的腐蚀性降解。其牢固地围绕着陶瓷组件,防止它们受到任何可能的损坏。管道压力不会转移到陶瓷而是被壳体吸收一因为所有的法兰螺栓直接连接到壳体上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance environment. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

- ●坚固的金属阀体完全封装了阀球,当与阀座配在一起时充当压力容器。此确保了陶瓷阀门的耐受高压力及高压差使用。

 Strong ceramic body fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that our ceramic valves can withstand high pressure and high differential pressure.
- ●坚固的陶瓷阀球耐腐蚀和磨损,供应O型和各种V开口的球,确保用于快开,直线流量,抛物线性和等百分比调节的应用需求。 Strong ceramic ball is anti-erosion and wear-resistant, and balls with O-shaped and V-shaped openings just meet the application requirements of fast opening, linear flow, parabolic linear and equal percentage adjustment.
- ●坚固的陶瓷阀座耐磨损,陶瓷特有的自润滑性,即有很好的弧面密封,不会被截留物毁损的性能,同时还彻底改变了金属硬密封球阀 易泄漏,扭距大,密封面不耐腐蚀磨损的缺点。

Strong ceramic seat is wear-resistant and with ceramic-specific good self-lubrication, that is, it has excellent globoidal sealing performance and will not be damaged by intercepted objects and completely without the defects of metal hard sealing ball valve, such as easy leakage, large torsion distance and no anti-erosion and wear-resistant of sealing surface.

●陶瓷对陶瓷密封。陶瓷阀球和阀座完美弧面的匹配,达到贴合效果密封,长效确保VI泄漏等级关闭或更好的调节性能。

Our Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensures VI leak level closure or better regulation performance.

●厚实、坚固的陶瓷。一个合理的、高度工程化的控制阀门设计的证明。通过采用坚固、厚壁的陶瓷部件,阀门能够在持续服务中存活的时间 远远超过硬质合金或者金属硬密封的阀门。

Our ceramics is thick and solid. A reasonable and highly engineered control valve design proves that by using solid, thick-walled ceramic components, the valve can survive in continuous service much longer than that hard-sealed carbide or metal valves.

●此款控制閥門,連接尺長及法蘭標準可以任意性要求,不受替代原閥型結構長度、法蘭標準之影響交期。

The length of connection and flange standard of this control valve can be arbitrarily required, and the delivery date is not affected by the length of the original valve type structure and flange standard.

+	要	技	術	參	數
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公	補通徑 Body		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
尺寸	Dimension	閥長 L=MM	108	117	127	140	165	178	190	203	229	356	394	457	533	610
1000	i量特性 Flow cteristics						Quick-op	快開, ening, Equ		時等百分比 ntage with		er				
	轉角度 rotation								60~90de	g						
			開闊量	空制 On-off		模似	量控制 Mod	ulation	Sol		配子式 Hectronic	Туре			b控制 Motor Typ	e
動作 Action	Action			氣壓增加閥 Air to va		隨輸入ス	を位器信號: 関閉。	增加閱開或	Sign		使增加閥閉 se to valv	e shut			C, 24VDC, 1	
	反作用 RA			氣壓増加閥 Air to va			pen or shut lectric si	t by air or gnal			龙增加閥開 se to valv	e open	220VN0/		AC/3PH	VNG/ SFR,
退購記	及備 Option	定位器、過	濾減壓	間、電磁間、 	限位開關 助操作機構		、鎖止閥、	限位件、手	比例板、	超載保護等		間、現場操作 3輪及微動門			器、加熱器	温控開闢,
	材質 Body sterial						WCI	B, A105, C	F8, CF8M,	CF3M, TA	2, PVC					
	標準 The rd of flange						(B, HG, DII	I, JIS, A	NSI 及非標	定制					
	度 Operating emp. °C				-1	96°C~+10	0°C; -25°C	~+950°C; -	30°C ~+16	0°C; -30°C	~+180°C; -	-30°C~+310	C等			
	壓力 Body atings				PN10~PN16	0;ANS1150	, ANS1300,	ANS1600, AN	S1900, AN	SI1500, AN	812500等级,	其他公称压	力范围可	依要求而定		

備注:山野陶瓷控制球間除提供標準閱長以外,還可根據現場需求提供所需長度閱門。

90CT陶瓷球閥(内襯PFA) 90CT Ceramic Ball Valve (PFA lined)

90CT陶瓷球閥(内襯PFA) 90CT Ceramic Ball Valve (PFA lined)



產品簡介

Product Profile

山野90CT襯裏陶瓷控制閥系列,是在山野全內襯塑膠球閥的基礎上開發而成的,用以解決全襯襯塑膠球閥由于內衬材料原因無法耐高溫和抗介質結晶工況而設計內襯塑膠陶瓷球閥,具有切斷/調節等多重功能,適用於控制強腐蝕化學液體介質中起節流調節控制作用。

Sun Yeh 90CT Lined Ceramic Control Valve series is developed on the basis of Sun Yeh full-lined Plastic Ball Valve to solve the problem that the full-lined Plastic Ball Valve can not withstand high temperature and medium crystallization because of the lining material. It has multiple functions such as cutting and adjusting, and is suitable for strong corrosive chemical liquid medium.

產品特色

Product Characteristics

●山野內襯塑膠陶瓷控制球閥,有內襯F46和PFA兩種材料的陶瓷球芯和陶瓷球座兩種,採用二片式浮動球結構設計,球孔同樣有O孔和各種度數V開口的。

Sun Yeh Plastic-lined Ceramic Control Ball Valve with F46 and PFA two kinds of materials. It adopts two-piece type floating ball structure with O-port and various degrees of V-port.

●PFA襯裏材料,熱學性能類似於PTFE,能耐超低溫及高溫(連續工作溫度最大為260°C);在高溫環境下具有透明度,可加工性強的特點;將其加熱至一般熱固性塑膠相同之溫度下,除了在擠壓模塑法方面得到應用外,還具有可工作性強的特點。

PFA, similar to PTFE in thermal properties, can withstand ultra-low temperature and high temperature (maximum continuous working temperature is 260°C), has the characteristics of transparency and processability under high temperature environment. Heating PFA to the same temperature of general thermosetting plastics, besides being applied in extrusion moulding, it also has great working performance.

●PFA襯裏實現了抗腐蝕性和抗滲入性;外表面可進行電抛光處理,防止夾帶污染物質;PFA與實際承金屬間密合度佳,無間隙。

PFA lined achieves corrosion resistance and penetration resistance; the outer surface can be electropolished to prevent entrainment of pollutants; PFA and metal have good tightness and no gap.

● 襯裹的材料閱體完全封裝了閥球,當與閥座配在一起時充當壓力容器。此確保了腐蝕性的介質不會接觸任何外部的金屬組件。

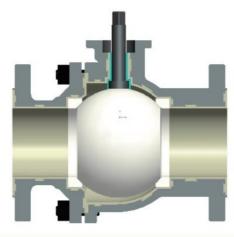
The lining material fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that corrosive medium do not touch any external metal components.

●采用特殊模壓注塑工藝,將襯裏材料襯在閥門殼體內壁,球面與精密陶瓷閥座貼面組合,密封性好,達到了零泄漏。

Adopting special moulding and injection technology, PFA is lined on the inner wall of valve shell, and spherical surface is combined with precise ceramic seat veneer, which has good sealing performance and realizes zero leakage.

●閥體内嵌T型槽,内襯材料與殼體緊密結合爲一體,不會有脱離、變形、异位等瑕疵問題産生;良好的耐化學藥性,樹脂極爲穩定,有良好的耐熱性,不含有害的添加劑及顏料,不會發生有機物及金屬離子溶出的情形,高温下具有伸展性、彈性,具備良好的機械性能。

T-groove is embedded in the valve, the lining material is integrated with the shell closely, and there will be no defects such as separation, deformation and ectopic etc; resin is extremely stable; having good chemical resistance and good heat-resistant, does not contain harmful additives and pigments, and the dissolution of organic substance and metal ions situation will not occur; under the condition of high temperature, it also has stretchability, elasticity and good mechanical properties.







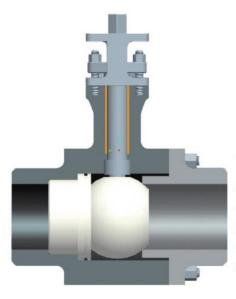
主要技術參數

公積	通徑Body si		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
		閥長L=MM	130	130	140	165	165	203	222	241	305	356	394	457	533	610
DIN-	DIN-PN16 只寸Dimension R寸Dimension R寸Dimension 展于150LB和JIS-10K 尺寸Dimension 流量特性 w characteristics 回轉角度 Angle rotation		130	150	160	180	200	230	290	310	350	400	480	550	650	750
ASME-150L	B和JIS-10K	閥長L=MM	127	127	127	140	165	178	190	203	229	245	267	457	533	610
液量特性 快開,帶定位器時等百分比 Flow characteristics Quick-opening, Equal percentage with positioner																
									60~900	eg						
		開日	胡量控制	∥0n-of	F	模似量	控制Mod	ulation	Solid	全電 State E	子式 lectroni	с Туре	Е	電車 lectric	b控制 Motor T	ype
ASME-150LB和 尺寸Dimer 流量特 Flow charact 回轉角 Angle rot 動作 Action	正作用DA	正作》 Direct a	用:氣息 ction: shu		閉 valve	隨輸入	定位器作用或關係	號增加	Signal	輸入信號 increas	増加閥隊 e to val	ve shut	1101	AC/1PH.	24VAC. 220VAC.	1PH.
	反作用RA	反作》 Reverse	ope		valve	by air	open o r or el signal	ectric	Signal	increas	増加閥間 e to val	ve open	2201	/AC/3PH, 440V	AC/3PH	/ЗРН,
選購設	備 Option	定位器、	過濾減	整閥 (章	磁閥、	限位開度操作機材	引、調速 青。	器、類	比例板、	超載保	護裝置扭關、電位	力開闢、計、凸輪	現場操	作器、調開、手	速板、加動操作機	熟器、加 構。
體材質Boo	dy material						WCB,	A105, C	F8, CF8M	, CF3M,	TA2, PV	C				
法蘭標準Ti	ne standard lange						GB,	HG, DI	N, JIS,	ANSI及非	標定制					
使用温度	Operating p. °C				拼	作温度	最高可至	150°C/	200°C; }	操作温度	最低可至	-30°C/-	60°C			
	ody ratings				PN10	PN40;	ANS 150	等級,3	00等級,	其他公和	壓力範圍	劉可依要	求而定			

備注: 山野陶瓷控制球閥除提供標準閥長以外,還可根據現場需求提供所需長度閥門。







產品簡介 **Product Profile**

山野920T高压硬密封陶瓷焊接球阀系列,设计型式为焊接式硬密封球阀,广泛应用于 电厂除灰、锅炉给水、蒸汽主管道疏水、黑水、灰水、煤浆、渣水、催化、裂化、加 氢、聚乙烯、煤粉、硅粉等系统上应用。

Sun Yeh 920T High-pressure Hard-sealed Ceramic Welding Ball Valve series, designed as welded hard-sealed ball valve, is widely used in power plant ash removal, boiler feed water, steam main channel hydrophobic, black water, ash water, coal slurry, slag water, catalysis, cracking, hydrogenation, polyethylene, coal powder, silicon powder and other systems.



產品特色

Product Characteristics

●山野920T焊接高压硬密封控制球阀,采用两段式结构设计,所有零部件全部采用锻件制,具有耐磨损、耐腐蚀、耐高温的特

It adopts two-stage structure design, all parts are made of forgings, which has the characteristics of wear resistance, corrosion resistance and high-temperature resistance.

●球体和阀座, 自由对装, 吻合度达100%, 密封可靠。

Ball and Seat are docked freely, its coincidence degree is so high that the sealing is reliable.

●阀座采用波型弹簧加载结构, 既保证密封性能又消除了温度变化带来的变形影响。

Seat adopts wave spring loading structure, which not only guarantees well sealing performance but also eliminates the deformation caused by temperature change.

●阀杆采取增强型防飞出结构,加大阀杆直径使阀杆具有更高的强度,保证阀杆能够长期可靠的工作。

Strengthened anti-fly-out structure is adopted in the valve stem to increase its diameter so that the stem has higher strength and ensures its long-term service life.

●独有的阀座密封面两侧刮刀结构设计, 具有启闭过程自清洁功能。

In the valve seat, there are scrapers on both sides of the sealing surface, which has self-cleaning function during the opening and closing process.

●执行器连接是通过支架接口, 其符合IS05211尺寸标准

Actuator connection is through bracket interface, which conforms to ISO 5211 dimension standard.

●进口端阀座为活动带补偿,而出口阀座则在阀本体直接加工硬化喷涂而成,不会产生位移变形造成的密封失效。

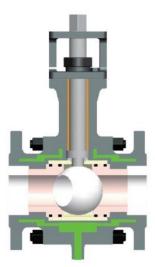
The inlet valve seat is compensated by movable belt, while the outlet valve seat is made by direct hardening and spraying of the valve body, which will not result in sealing failure caused by displacement deformation.

主要技術參數

公利	k通径 Body si	ze	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300		
尺寸Di	imension	阀长 L=MM	130	140	150	165	180	200	220	250	305	381	457	521	559	635		
	操特性 acteristics						Quick-op			时等百分比 ntage wit	h position	er						
	有度 rotation							60~90deg										
			开关量技	空制 On-off		模似	量控制 Mod	ulation	Sol		电子式 Electronic	Туре			助控制 Motor Typ	е		
动作 Action	正作用 DA			に増加阀 Air to va		随输入2	定位器信号 阀闭。	增加阀开或	Sign		号增加阀闭 se to valv	e shut			C, 24VDC, 11 C/3PH, 380			
	反作用 RA			气压增加阀 Air to va			pen or shu lectric si	t by air or gnal			号增加阀开 se to valv	e open	220VAG/		AC/3PH	VAC/ SPII,		
选购设行	备 Option	定位器、过	滤减压		、限位开乡 动操作机构		8、锁止阀	、限位件、	比例板、	过载保护等	表置扭力开充 电位计、2	失、现场操 3轮及微动			器、加热器。	温控开关。		
阀体材质 Bo	体材质 Body material							A105, 3	104, 316,	316L, TA	2							
	e standard of ange						(GB, HG, DII	, JIS, A	NSI 及非标	定制							
	Operating np.°C				-19	96°C~+10	0°C; -25°C	~+950°C; -	30°C~+16	0°C; -30°C	C~+180°C;	-30°C~+31	0°C等					
公称压力 B	ody ratings	PN	110~PN	160; ANS I	150, AN	\$1300, 4	NS1600,	ANS1900	. ANSI1	500. AN	S12500等	级,其他	公称压	力范围可	依要求而	定		

備注: 山野陶瓷控制球關除提供標準閥長以外, 還可根據現場需求提供所需長度閥門。





產品簡介

Product Profile

山野B90T央套保温型陶瓷球阀系列,是在全村型和半村型陶瓷球阀基础,根据客户应用现场工艺需 求而进一步开出设计而成的, B90T夹套保温型陶瓷球阀集阀门保温和球阀功能为一体, 保温原理是 阀门的外层,有保温媒体进和出的接口,导热油或蒸汽顺着进入预留好的腔室流动,媒介预热的温 度透过金属传导保温,有效解决由于阀门散热导致球腔内介质降温而造成结晶的困绕,内部结构有 浮动球和固定球式两种选择配合,設計型式為夹套保温型精密陶瓷全內襯球閥,具有切斷/調節等 多重功能,可在含有低温散热后易结晶的磨料固含量的腐蝕性介質中起節流調節、切斷控制作用。

Sun Yeh B90T Jacket Thermal Insulation Ceramic Ball Valve series is designed on the basis of full-lined and semi-lined ceramic ball valves. It integrates the functions of valve thermal insulation and ball valve, caters to the technology needs of customers' application on-site. The principle of heat preservation is that the outer layer of the valve has an interface between the inlet and outlet of the heat preservation media, and the heat conducting oil or steam flows along the reserved chamber. The temperature of the medium preheating is insulated through metal conduction, which solves the crystallization problem effectively. Its internal structure has two kinds of choices, floating ball or fixed ball, which both have cutting off and adjusting functions. It can play the role of throttling adjustment and cutting off control in corrosive medium containing abrasive solid content which is easy to crystallize after low temperature heat dissipation.



產品特色

Product Characteristics

●山野B90T夹套保温型陶瓷球阀,采用三段式组合保温腔连通的結構設計,外部有媒介的进口、出口、排污 口: 阀芯球和座實現自由對中, 通过阀门的流体产生的压差将阀球密封在下游阀座上, 具有耐磨損、耐腐蝕、 耐高溫及防擠碎的性能。

Sun Yeh B90T Jacket Thermal Insulation Ceramic Ball Valve is three-stage type combined with insulating chamber, there are import, export and sewage outlet for medium on the external surface; the core ball and seat are free to center, and the ball is sealed on the downstream seat through pressure difference generated by the fluid, which has the properties of wear resistance, corrosion resistance, high temperature resistance and anti-crushing.

●由於三片式组合的設計,對稱結構,不但有良好的保温效果,阀芯具有雙重密封,而且沒有流向限制,當一 端閥座磨損後可将閥門直接调轉180度安裝,即使用另一端的密封,延长使用壽命可提高一倍。

Due to the design of three-stage combination and symmetrical structure, the valve has good insulation performance. Valve core is double seals, and there is no flow restriction, when one end of the seat is worn out, the other can be directly rotated 180 °s to install, which means the valve's service life can be more longer.

●山野B90T夹套保温型陶瓷球阀,采用三段式组合保温腔连通的結構設計,便于阀门维修时分解拆装,有效提

The structure of three-stage type combined with insulating chamber is convenient for dismounting during valve maintenance.

●鍛鋼金屬保護殼體,可通過環氧樹脂或尼龍塗裝,達到顏色識別和抗腐蝕環境要求。和不銹鋼殼體一樣,允許暴露在極端惡劣的環境中而不受 外部的腐蝕性降解。其牢固地圍繞著陶瓷組件,防止它們受到任何可能的損壞。管道壓力不會轉移到陶瓷而是被殼體吸收--因為所有的法蘭螺栓 直接連接到殼體上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

- ●堅固的陶瓷閥體完全封裝了閥球,當與閥座配在一起時充當壓力容器。此確保了腐蝕性的介質不會接觸任何外部的金屬組件。 Strong ceramic body fully encapsulates the ball and acts as a pressure vessel when fitted with the seat. It ensures that corrosive media do not touch any external metal components.
- ●堅固的陶瓷閥球耐腐蝕和磨損,供應O型和各種V開口的球,確保用於快開,直線流量,拋物線性和等百分比調節的應用需求。 Strong ceramic ball is anti-erosion and wear-resistant, and balls with O-shaped and V-shaped openings just meet the application requirements of fast opening, linear flow, parabolic linear and equal percentage adjustment.
- ●堅固的陶瓷閥座耐磨損,陶瓷特有的自潤滑性,即有很好的弧面密封,不會被截留物毀損的性能,同時還徹底改變了金屬硬密封球閥易洩漏, 扭距大,密封面不耐腐蝕磨損的缺點。

Strong ceramic seat is wear-resistant and with ceramic-specific good self-lubrication, that is, it has excellent globoidal sealing performance and will not be damaged by intercepted objects and completely without the defects of metal hard sealing ball valve, such as easy leakage, large torsion distance and no anti-erosion and wear-resistant of sealing surface.

- ●陶瓷對陶瓷密封。陶瓷閥球和閥座完美弧面的匹配,違到貼合效果密封,長效確保VI洩漏等級關閉或更好的調節性能。 Our Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensures VI leak level closure or better regulation performance.
- ●厚實、堅固的陶瓷。一個合理的、高度工程化的保温型控制閥門設計的證明。通過採用堅固、厚壁的陶瓷部件,独特的组合式整体,能夠在持 續服務中存活的時間遠遠超传统的焊接夹套的软密封座的保温阀。

Our ceramics is thick and solid. A reasonable, highly engineered and thermal insulation control valve design proves that by using solid, thick-walled ceramic components and unique combination, the valve can survive in continuous service much longer than that of traditional welding jacket of the soft seals of the insulation valve.

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	預道# Bees										9W188					
		閱長L=MM	127	140	165	178	190	203	229	356	394	457	533	610	686	762
尺寸四	Dimension	接口法兰	25	32	40	50	65	80	100	125	150	200	250	300	350	400
		媒介管口	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT3/4	NPT 1"	NPT 1"	NPT 1"
777	量特性 Flow cteristics					Quic	k-openi	快開, ng, Equ	帶定位器 ial perc	時等百分 entage w	比 ith pos	itioner				
	轉角度 rotation								60~900	ieg						
		1,00000		IJ0n−off			控制Mod		Solid	全電 State E	子式 lectroni	с Туре	E	電] lectric	助控制 Motor T	ype
動作 Action	正作用DA	正作 Direct a	用:氣星 iction: shu	B增加閥 Air to t	閉 valve	隨輸入閥	定位 器信 明或問 open	號 増 加	Signal	輸入信號 increase	増加閥閉 to val	ve shut	12VAC,	12VDC,	24VAC, 220VAC, 380VAC	24VDC,
	反作用RA	反作	用: 氣星	B增加閱 Air to	開	ASIAG	r or el	rsnut		輸入信號 increase	増加関開 to val	ve open	2200	/AC/3PH, 440\	AC/3PH	/3PH,
選購前	分備 Option	定位器、	過濾減!	堅 閥 位 件	磁閱、手動	限位開展	別、調速 備。	器、鎖	比例板、	超載保	蹇裝置扭 國、電位	力開關、計、凸輪	現場操作及微動	作器、調明 器、	速板、加速板操作机	、加熱器、加作機構。
	材質Body terial						WCB	, A105,	CF8, C	F8M, CF3	M, TA2					
法闡	標準The ndard of						GB,	HG, DI	N, JIS,	ANSI及非	標定制					
のperati	肿機瘦 ing Temp.℃ 壓力Body			-19	96°C ~+1	00°C; -	25°C ~+9	50°C;	30°C ~+1	60°C; -3	0°C ~+18	0°C; -30	°C ~+310	°C等		
公禰	聖力 Body atings	PN	0~PN16	0; ANS 11	50, ANS	S1300, AI	NS1600,	ANS190	O, ANSI1	500, ANS	\$12500等	级,其他	公称压	力范围可	依要求而	定

化学稳定性对比图表 (单位: 失重; mg/cm²/天)

Contrast Chart of Chemical Stability

Contrast Cha	11 01 011	cimoar	Otability								
MEDIA	TEMP	99. 5% Al ₂ O ₃	99. 5% Al ₂ O ₃	zro ₂	sic	si3, N4	SS304	SS316	HC ²	STELL ITE ² #6	STELL ITE ² #6
20% HCI	60°C	Α	Α	Α	Α	В	С	С	В	C	С
20% HCI	95°C	Α	Α	Α	Α	С	-	=	С	С	С
90% H ₂ SO ₄	60°C	Α	Α	Α	Α	Α	С	С	В	В	С
90% H ₂ SO ₄	95°C	Α	Α	Α	Α	В	С	С	С	-	-
60% H ₃ PO ₄	60°C	Α	Α	Α	Α	С	С	С	Α	В	Α
60% H ₃ PO ₄	95°C	Α	Α	Α	Α	С	С	С	Α	С	С
10% HF	60°C	В	В	С	Α	Α	С	С	В	С	С
46% H	95°C	С	С	С	Α	С	_	-	С	-	-
60% HNO ₃	60°C	Α	Α	Α	Α	С	Α	Α	С	Α	Α
60% HNO ₃	95°C	В	Α	Α	Α	С	В	В	С	В	С
30% NaOH	60°C	В	Α	Α	Α	В	Α	Α	Α	С	Α
30% NaOH	95°C	В	Α	В	Α	С	Α	В	Α		В

以上图表中的数据是在可控的试验条件下获得的,依据 $A = \langle 0.1 \text{ mmg/cm}^2/\mathcal{F}$ 忽略不计或无腐蚀,安全选用 实际的安装条件, 阀门的实际特性和性能可能提升或者

The data in the chart above are obtained under controlled test conditions. According to the actual installation conditions, the actual characteristics and performance of the valve may be improved or decreased.

 $B = 0.1 = 0.3 \text{ mmg/cm}^2/$ 天 很少或轻微的腐蚀; 年检使用 $C = 0.3 \text{ mmg/cm}^2/天$ 显著腐蚀, 不推荐用于阀门使用

一 = 由于剧烈腐蚀测试尚未完成



适用于山野陶瓷阀门的应用领域

下面列出一小部分山野陶瓷控阀在这些应用领域与行业已经证明了其优异的性能,及在恶劣 环境中的使用寿命长。山野阀门承受腐蚀性和磨损性最强的应用, 远比软阀座、金属阀座、 稀有合金、橡胶衬里、甚至是比普通的陶瓷阀门更可靠。考虑到普通陶瓷阀门在严苛工况下 需要频繁的维护和更换费用, 山野陶瓷特阀明显提高整体使用寿命, 准确度和调节线性, 及 同样具有良好的经济意义。

Sun Yeh Ceramic Valves are Applicable to These Fields

Below is a small application list of Sun Yeh Ceramic Valves which has proved their excellent performance and long service life under difficult conditions. Sun Yeh valves can be applied in the most corrosive and abrasive fields, far more reliable than soft seats, metal seats, rare alloys, rubber linings, or even common ceramic valves. Besides, while common ceramic valves need frequent maintenance fee and replacement costs under harsh working conditions, and Sun Yeh Ceramic Special Valves improve the overall service life significantly which has good economic benefits.

醋酸acetic acid	氯化铜Copper chloride	石灰乳Lime milk	氟化钠sodium fluoride
氧化铝水合物aluminahydrate	氰化铜Copper cyanide	糖蜜molasses	氢氧化钠sodium hydroxide
氧化铝粉alumina powder	硫酸铜Copper sulphate	母液mother liquor	次氯酸钠sodium hypochlorite
氯化铝Aluminium chloride	玉米糖浆corn syrup	萘naphthalene	硝酸钠Sodium nitrate
氨ammonia	棉籽油Cottonseed oil	天然气Natural gas	硫酸钠Sodium sulphate
碳酸铵Ammonium carbonate	氯化亚铜Cuprous chloride	硝酸nitric acid	煤灰浆Coal ash slurry
氯化铵ammonium chloride	硅藻土diatomite	发烟硫酸Fuming sulfuric acid	蒸汽steam
氟化铵Ammonium fluoride	乙醇ethanol	草酸oxalate	二氧化硫sulfur dioxide
硅酸铵Ammonium silicate	乙胺Ethylamine	Paperad浆液Paperad slurry	硫酸sulphuric acid
锐钛浆Anatase paste	乙醚Ethyl ether	对硝基苯酚P-nitrophenol	滑石水Talc water
苯胺aniline	三氯化铁Ferric trichloride	珍珠岩perlite	Tarnic 酸Tarnic acid
Ansex	硫酸亚铁ferrous sulfate	石油petroleum	酒石酸tartaric acid
Anbch	粘土填料Clay filler	苯酚phenol	二氧化钛Titania
王水Aqua regia	烟气smoke	磷酸phosphoric acid	四氯化钛Titanium tetrachloride
抗和酸(维生素C)	粉款(湿的和干的)	钾肥料浆	烟草浆Tobacco pulp
Ascorbic acid (vitamin C)	Fly ash (wet and dry)	Potassium Fertilizer Pulp	
灰浆Mortar	蚁酸Formic acid	溴酸钾potassium bromate	甲苯toluene
铝土矿浆Bauxite pulp	绿液Green liquor	碳酸钾potassium carbonate	三氯乙烷Trichloroethane
膨润土浆Bentonite/pulp	石膏Gypsum	氯酸钾Potassium chlorate	松节油turpentine
氯化苄Benzyl chloride	盐酸hydrochloric acid	氯化钾potassium chloride	白液White liquid
黑液black liquor	氢氟酸hydrofluoric acid	重铬酸钾	羊毛细粉Fine wool powder
		potassium dichromate	
硼酸boric acid	过氧化氢	高氯酸钾	二甲苯xylene
	hydrogen peroxide	Potassium perchlorate	







卤水brine	羟基乙酸Glycolic acid	高锰酸钾	硫酸锌zinc sulfate
		potassium permanganate	
煅烧粘土Calcined clay	乙酸异丙酯	硫酸钾Potassium sulphate	
- 100 April (100 April	Isopropyl acetate	\$500 miles	
碳酸钙Calcium carbonate	高岭土浆Kaolin pulp	沉淀碳酸钙Precipitated	主要服务的行业
		calcium carbonate	Major service industries
氯酸钙Calcium chlorate	煤油kerosene	纸浆paper stock	化学Chemistry
氯化钙calcium chloride	石灰石灰石浆液	放射性泥浆Radioactive slurry	金属和采矿Metals and mining
	Lime/Limestone Slurry		
次氯酸钙	液体磨砂Liquid grinding	再生纸Recycled paper	石油化工
Calcium hypochlorite			petrochemical industry
硫酸钙calcium sulfate	溴化锂lithium bromide	废品浆Waste pulp	电力和热电联产
			Electricity and cogeneration
碳浆Carbon paste	氢氧化镁	金红石浆液Rutile slurry	纸浆和造纸
	magnesium hydroxide		Pulp and papermaking
腐蚀剂腐蚀性料浆	氧化镁浆液	芒硝浆Mirabilite pulp	精炼Refine
Corrosive/corrosive slurry	Magnesium oxide slurry		
陶瓷和水的混合物	硫酸镁	砂尾矿浆Sand/tailings slurry	水和废水
Mixture of Ceramics and	Magnesium sulphate		Water and wastewater
Water			
氯(湿的)Chlorine (wet)	锰浆矿石	污水sewage	染料生产Dyestuff production
	Manganese Slurry/Ore		
氯硅烷蒸气	氯化汞Mercury chloride	污泥浆Sludge slurry	硅silicon
Chlorosilane vapor	_		
铬酸Chromic acid	甲醇methanol	苯甲酸钠Sodium benzoate	气力输送Pneumatic conveying
柠檬酸citric acid	甲基丙酮Methyl acetone	碳酸钠sodium carbonate	烟气脱硫flue gas desulfurization
澄清超滤排污和接收	氯甲烷Chloromethane	氯化钠sodium chloride	化肥chemical fertilizer
Clarifying Ultrafiltration			
Discharge and Receiving			
泵垃圾的澄清	甲基乙基酮	氰化钠Sodium cyanide	纯碱Soda ash
Clarification of Pump Waste	Methyl ethyl ketone		
粘土浆Clay slurry	二氯甲烷dichloromethane		



產品簡介

Product Profile

930T山野C型陶瓷球閥系列,設計型式為雙偏芯設計,扭矩密封。利用雙偏芯產生凸輪楔緊效應,實現扭矩密封,關閉時C球相對閥座漸入運動,越關越緊,硬密封洩漏等級達到VI,是典型的球面面密封;具有切斷/調節等多重功能,可在含有磨料固含量和含纖維質流體,且粘度高、易結垢的料漿類的介質中起節流調節控制作用。

930T Sun Yeh C-type Ceramic Ball Valve Series with double eccentric design, torque sealing. Using double eccentric to produce cam wedge tightening effect to realize torque sealing. When closing, the C-type ball moves gradually relative to the seat, the tighter the clearance is, and the leakage grade of hard seal reaches VI. It is a typical spherical seal. And, it has functions of cut-off and adjusting; It can regulate and control throttling in slurry medium with abrasive solid content, fibrous fluid, high viscosity and scale-prone slurry.

產品特色

Product Characteristics

●山野C型陶瓷球閥,閥體有一體式或兩段式結構,單閥座,無閥腔設計,具有耐磨損、耐沖刷、耐高溫及防擠碎的功能。

Sun Yeh C-type Ceramic Ball Valve with one or two-stage structure, single seat and no valve chamber. It has the properties of wear resistance, erosion resistance, high temperature resistance and crushing resistance.

●由於直通式的設計,閥門開啟時,閥腔內無阻流元件,C球內流道面無筋設計,不會出現 「成选達銀団定内件、図此领容易更換 卡、堵現象。閥門關閉時,閥腔內無物料滯留區,避免物料結晶,無法打開現象。

Due to the straight-through design, when the valve is opened, there is no blocking element in valve chamber. And the surface of flow passage in C-ball has no rib, so there will be no sticking or blocking. When the valve closed, there is no material detention zone in valve chamber, which avoid material crystallization turning on unable to open.

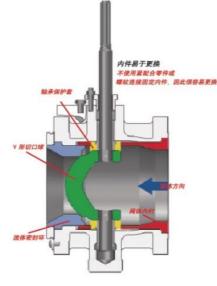
●自清潔功能,閥門開啟時,C球傾離閥座,流體沿密封面360度將一些物料及雜物沖洗乾淨,閥門關閉時,C球相對閥座漸入運動,可實現對密封副上粘附物料及雜物的剪切,保證密封副的清潔,堅固的C型陶瓷閥座耐磨損,不會被截留物毀損。

It has self-cleaning function. When the valve is opening, C-ball is tilted away from valve seat, and the fluid flushes sundries along the sealing surface totally. When the valve is closing, C-ball moves gradually relative to the valve seat, which can realize the shearing of the adhering sundries on the sealing pair to ensure the cleaning of the sealing pair, and the wear resistance of the solid C-type ceramic valve seat will not be damaged by intercepted objects.

●執行器連接是通過支架介面,其符合ISO5211尺寸標準,也可根據客户需求定制。 Its actuator connection is through the bracket interface, which meets the ISO 5211 size

standard, and can also be customized according to customers' requirements.

●930T陶瓷控制偏芯旋轉閥,開關輕便,磨擦力低,啟閉時球面與密封座脫離,無任何接觸,扭力小,轉動靈活。









930T Ceramic Control Partial Core Rotary Valve has the advantages of light switch, low friction, no contact between spherical surface and sealing seat when opening and closing, small torsion and flexible rotation.

930T陶瓷球閥 (山野C型) 930T Ceramic Ball Valve(C-type)

●密封副開啟關閉時有剪切作用,陶瓷的自潔性及自潤性,能切去密封面上的結垢及粘連物,能保持長久嚴密性。

When the sealing pair is opening and closing, there is shearing performance. Ceramics have self-cleaning and self-wetting properties which help to clean scales and adhesives on the sealing surface and maintain long-term tightness.

●由於偏芯產生的楔緊效應, C球與閥座越關越緊, 密封副對磨接觸, 能自行補償。

According to the wedge effect which created by eccentric core, the tighter the closure of C-ball and valve seat, the contact between seal pairs can be compensated by themselves.

●陶瓷密封副采用特殊的加工工藝,其密封形式爲球面密封,以確保以確保VI等級關閉或更好的調節性能。

Ceramic seal pairs adopt special processing technology with spherical seal to ensure VI closure level and better regulation performance.







主要技術參數

	稱通徑 Body siz	ze	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600		
	額定 CV 值 Rated Cv		90	160	250	360	610	1120	1850	2950	3700	6300	10000	12600	15800	19000		
尺寸D	imension	阅長L=MM	178	190	203	229	245	267	292	330	356	381	406	580	600	680		
	量特性 aracteristics						Quick-	快開,有 opening, Eq	定位器時報 ual percen		ositioner							
	專角度 rotation								60~90deg									
			開闢量控	制 On-off		模似	量控制 Mod	lulation	Sc		子式 lectronic Ty	/ре			加控制 Motor Type			
動作 Action	正作用 DA	A 正作用: 氣壓增加開閉 随輸入定位器信號增加開開或開 即。	輸入信號增加開閉 Signal increase to valve shut				12VAC, 12VDC, 24VAC, 24VDC,											
	反作用 RA			(壓增加關) Air to valv			pen or shu electric sign		Sig	輸入信號增加閱開 Signal increase to valve open				-110VAC/1PH, 220VAC/1PH, 220VAC/3PH, 380VAC/3PH, 440VAC/3PH				
選購設備 Op	tion	定位器、過滤	a 減壓閥.	、電磁間、	限位開關、 作機構。	調速器、鎖	止閥、限位	件、手動操	比例板、近	載保護裝置			器、調速板 間、手動操		加熱器温拉	空開闢、電信		
間體材質 Boo	ly material	WCB, A105, CF8, CF8M, CF3M, TA2等																
法蘭標準 The	standard of flange						GE	B, HG, DIN	I, JIS, AN	NSI 及非標	定制							
使用温度 Ope	erating Temp.°C				-19	6℃~+100℃	C; -25℃~	+950°C; -3	0°C~+160°	C; −30°C-	-+180°C; -	30℃~+31	0°C等					
公稱壓力 Boo	ly ratings	PN1	0~PN16	0; ANS 1	50, ANS	1300, ANS	1600, A	NS1900,	ANS1150	O, ANSI	2500等翁	及,其他	公称压力	范围可	依要求而	定		



中華民國專利證書

84889 62017年11月11日至2027年8月10日上

洪淑敏

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* # # A CHINCSTON

產品簡介 **Product Profile**

山野940T陶瓷偏芯旋轉球閥系列,設計型式為雙偏芯設計,扭矩密封。利用雙偏芯產生凸 輪楔緊效應,實現扭矩密封,關閉時凸輪球相對閥座漸入運動,越關越緊,硬密封洩漏等 級達到 VI, 是典型的球面与线密封; 具有切斷/調節等多重功能, 可在含有磨料固含量和 含纖維質流體、料漿類的介質中起節流調節控制作用。

940T Ceramic Eccentric Rotary Valve Series with double eccentric design, torque sealing. Using double eccentric to produce cam wedge tightening effect to realize torque sealing. When closing, the C-type ball moves gradually relative to the seat, the tighter the clearance is, and the leakage grade of hard seal reaches VI. It is a typical spherical seal. And, it has functions of cut-off and adjusting; It can regulate and control throttling in slurry medium with abrasive solid content, fibrous fluid, high viscosity and scale-prone slurry.

產品特色

Product Characteristics

●山野陶瓷偏芯旋轉閥,由於其閥芯的旋轉軌跡呈凸輪曲線狀,故又稱凸輪撓曲閥;閥體採用 一體式結構設計,單閥座,通軸設計,具有耐磨損、耐沖刷、耐高溫及防擠碎的功能。

Sun Yeh Ceramic Eccentric Rotary Valve is also known as Cam Flexible Valve because of its cam-shaped rotation track. The valve body is integrated structure, single seat and through-shaft design, which has the advantages of wear resistance, erosion resistance, high temperature resistance and anti-crushing.

●由於流線型閥腔的設計,閥門開啟時,閥腔開擴,凸輪球脫離閥座,不會出現卡、堵現象。 閥門關閉時, 閥腔內無物料滯留區, 避免物料結晶, 無法打開現象。

Due to the streamlined valve chamber design, when the valve opens, chamber opens and expands, cam ball is detached from valve seat, and there will be no sticking or blocking; when the valve closes, there is no material detention zone in the valve chamber, which avoid material crystallization turning on unable to open.

●閥座特有的自清潔功能,閥門開啟時、凸輪球面傾離閥座、流體沿密封面360度將一些物料 及雜物沖洗乾淨,閥門關閉時,凸輪球面相對閥座漸入運動,可實現對密封副上粘附物料及雜 物的剪切, 保證密封副的清潔, 堅固的凸輪陶瓷閥座耐磨損, 不會被截留物毀損。

It has self-cleaning function. When the valve is opening, cam spherical is tilted away from valve seat, and the fluid flushes sundries along the sealing surface totally. When the valve is closing, C-ball moves gradually relative to the valve seat, which can realize the shearing of the adhering sundries on the sealing pair to ensure the cleaning of the sealing pair, and the wear resistance of the solid C-type ceramic valve seat will not be damaged by intercepted objects.



●執行器連接是通過支架介面,其符合IS05211尺寸標準

Its actuator connection is through the bracket interface, which meets the ISO 5211 size standard.

- ●940T陶瓷控制偏芯旋轉閥,開關輕便,磨擦力低,啟閉時球面與密封座脫離,無任何接觸,扭力小,轉動靈活。 940T Ceramic Control Partial Core Rotary Valve has the advantages of light switch, low friction, no contact between spherical surface and sealing seat when opening and closing, small torsion and flexible rotation.
- ●密封副開啟關閉時有剪切作用,陶瓷的自潔性及自潤性,能切去密封面上的結垢及粘連物,能保持長久嚴密性。 When the sealing pair is opening and closing, there is shearing performance. Ceramics have self-cleaning and self-wetting

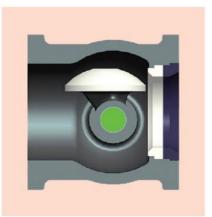
properties which help to clean scales and adhesives on the sealing surface and maintain long-term tightness.

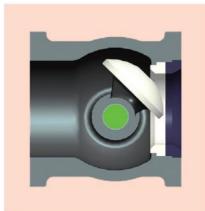
●由於偏芯產生的楔緊效應,凸輪球與閥座越關越緊,密封副對磨接觸,能自行補償。

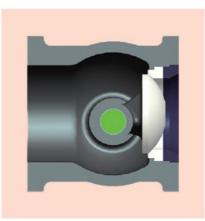
According to the wedge effect which created by eccentric core, the tighter the closure of C-ball and valve seat, the contact between seal pairs can be compensated by themselves.

●陶瓷對陶瓷密封。陶瓷半球和閥座完美弧面的匹配,以確保V級及以上等級關閉或更好的調節性能。

Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensure V or above shutdown level and better regulation performance.







主要技術參數

	稱通徑 Body si	ze				DN65						DN250	DN30E		
	額定 CV 值 Rated Cv		14	30	58	100	135	230	320	500	850	1300	1750		
尺寸D	imension	閱長L=MM	102	114	124	143	165	194	213	229	243	297	338		
	■特性 aracteristics					Quick-op		定位器時等百分b all percentage wi							
	等角度 rotation						(60~90deg							
		pt	開量控制 O	n-off	模似	基控制 Modul	ation		全電子式 te Electronic T	ype	Ele	電動控制 ctric Motor Ty	ре		
動作 Action	正作用 DA		作用: 氣壓增 action: Air to		随輸入定	E位器信號增加 閉。	閥開或閥		信號增加閱閉 rease to valve			VDC, 24VAC			
	反作用 RA		反作用: 氣壓增加閱開 Valve open or shut by air or electric signal			信號增加閱閱 ease to valve	open	-110VAC/1PH, 220VAC/1PH, 220VAC/3PH, 380VAC/3PH, 440VAC/3PH							
選購設備 Op	tion	定位器、過濾	减壓間、電磁	推閱、限位開展 作機相		真止閥、限位作	丰、手動操	比例板、過載保護		田力開闢、現場操作器、網速板、加熱器、加熱器温控開闢、電位 計、凸輪及微動開闢、手動操作機構。					
開體材質 Boo	ly material					WCB,	A105, CF8	, CF8M, CF3M	I, TA2等						
法蘭標準 The	standard of flange	GB, HG, DIN, JIS, ANSI 及非標定制													
使用温度 Ope	erating Temp.°C				-196℃~+100	°C; -25°C~+9	950°C; −30	°C~+160°C; -30	°C~+180°C;	-30°C~+310	°C等				
公稱壓力 Boo	dy ratings	PN10~	PN160: AN	S1150, AN	S1300, ANS	1600, ANS	1900, A	NS11500, AN	\$12500等级	, 其他公	称压力范围	可依要求	而定		

產品簡介

Product Profile

山野950T陶瓷控制蝶閥系列,外觀設計既符合美學思想觀念,且同時具備工業實用性。結構型式爲全内襯陶瓷結構,直管式流道,流阻小無死區,近似等百分比調節綫性,可經受强腐蝕性漿液及氧化鋁治煉等磨擦損耗極大的工礦。

Sun Yeh 950T Ceramic Butterfly Control Valve Series, its appearance design not only conforms to the aesthetic concept, but also conforms to industrial practicability. Full-lined ceramic structure; straight pipe runner; small flow resistance; approximately equal percentage adjustment linearity; can withstand strong corrosive slurry and alumina smelting and other abrasive industry.

產品特色 (专利号: 201820909864.9)

Product Characteristics (Patent No. 201820909864.9)

●山野全内襯蝶閥,采用對夾式結構設計,具有耐衝刷、耐腐蝕、耐高温及防擠碎的性能。内襯套管材料可以是精密陶瓷,也可以是稀有金屬,還可以非金屬材料。

Sun Yeh Full-lined Butterfly Valve is designed with a pair of clamps, which have the properties of erosion resistance, corrosion resistance, high temperature resistance and crushing resistance. The liner bushing material can be precise ceramics, rare metals or non-metallic materials.

●由于對夾式的設計,閥門能够在現有的管道連接件360°角度任意安裝。也可提供法蘭連接。

The valve can be installed at 360° of the existing pipe connector due to the design of the clamp type. Flange connections are also available.

●此款蝶閥,設計爲固定流向,閥板設計在閥體的三分之一處,進口端短而出口端長,出口端流道長約爲進口端的兩倍,充分利用流體力學原理,有效保護閥門在過小流量調節時高流速介質對于閥後管道的衝刷。

It is fixed flow direction, valve plate is designed at one third of the valve body, and outlet end runner length is about twice as long as the inlet end. By fully utilizing the principle of hydrodynamics protect the back pipe from the erosion of the high velocity medium.

●執行器連接是通過支架界面,平臺尺寸其符合ISO5211國際標準要求。

Its actuator connection is through the support interface, and the platform size meets the requirements of ISO5211 international standard.

●山野全陶瓷内襯蝶閥,閥板與閥杆爲一體型連接,閥板上、下部與襯套之間各有一個圓型陶瓷襯套,保護閥杆不受介質衝刷與腐蝕,閥杆旋轉動時,祇産生閥板運動部件與砂漿直接接觸和閥杆填料預緊時産生的摩擦力矩,可確保低扭矩執行器驅動使用。

Disc and stem are integrative, and there are round ceramic bushings on and below the disc to protect the stem from erosion and corrosion by medium. When stem rotates, Only the friction of the moving parts of disc in direct contact with the mortar and the friction of the pre-tightening of stem packing can be generated, which can ensure low torque.

●鍛鋼金屬保護殼體,可通過環氧樹脂或尼龍塗裝,達到顏色識別和抗腐蝕環境要求。和不銹鋼殼體一樣,允許暴露在極端 惡劣的環境中而不受外部的腐蝕性降解。其牢固地圍繞着陶瓷組件,防止它們受到任何可能的損壞。管道壓力不會轉移到陶 瓷而是被殼體吸收——因爲所有的法蘭螺栓直接連接到殼體上。

Forged steel metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance environment. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

●堅固的陶瓷内觀完全封裝閥板。此確保含有磨料固含量的腐蝕性介質不會接觸任何外部的金屬組件。

Strong ceramic liner fully encapsulated disc, it ensures that corrosive medium containing abrasive solids do not touch any external metal components.

950T陶瓷蝶阀 (全衬型) 950T Ceramic Butterfly Valve(Full-lined)

●閥板:閥板設計中綫結構,設計允許最大流量通過和最小磨損發生。

Valve disc with centre line design to make sure maximum flow through and minimum wear.

●回旋閥板:由于950T型,陶瓷控制蝶閥系列是專做調節控制用,閥板和閥座襯套不接觸,實際上閥板可以回旋360度,適用于漿料 等介質工况, 在允許 Ⅲ級及以下泄漏量場合使用。

950T Ceramic Butterfly Control Valve Series is specially designed for regulating and controlling. Its disc and seat bushing are not contacted, and the disc can rotate 360° totally. It is suitable for slurry medium working condition and allowed to be used in leakage situations of grade III.

●厚實、堅固的陶瓷。一個合理的、高度工程化的控制閥門設計的證明。通過采用堅固、厚壁的陶瓷部件,閥門能够在持續服務中 存活的時間遠遠超過硬化處理和噴塗鎳基碳化鎢及堆焊材料。

Our ceramics is thick and solid. A reasonable, highly engineered and thermal insulation control valve design proves that by using solid, thick-walled ceramic components and unique combination, the valve can survive in continuous service much longer than that of hardening and spraying nickel-based tungsten carbide and surfacing materials.







主要技術參數

公司	所通信 Body s		DN25	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500				
88	定 CV Rated	Cv	29	60	84	180	196	355	700	1280	2555	4120	6500	7800	10350	12190	15470				
尺寸口	Dimension	阀长 L=MM	70	80	80	100	120	150	200	230	305	380	455	475	500	550	600				
	量特性 Flow steristics						Qu	C20 (II)	央開,帶定信 g. Equal p		百分比 ge with posit	ioner									
(2. S)	轉角度 rotation								60"	90deg				△ ₩2.4							
						以量控制 dulation						s	⊈ olid State	電子式 Electroni	о Туре						
重力作 Action	正作用 DA			RM 4	输入定位器	信號增加開	開或開閉。					Si	輸入信 gnal incre	號增加閥間 ase to val							
	反作用 RA			Valve ope	en or shut	by air or	electric	signal				Si	輸入信 gnal incre	號增加閥開 ase to val	7						
選用的	2備 Option	定位器	1、過濾減8	eno. Walle	間、限位開	研、 抑密器	、鍋止間、	限位件、手	東 か操作機構	比例	列板、超載保証		明開、現場! 凸輪及微!				黑拉門部				
MO	體材質 Body	material	6						WCB, A1	05, OF8,	, OF8M, OF3M	TA2									
内村	mar Miller Linin	ng mater	ial						精密陶瓷,	entit. Si	果材,销材,银	lkt. PVC									
法関標	摔 The stand	ard of f	lange						GB, HG,	DIN, JI	S, ANSI 及非	原定制									
使用	温度 Operati	ing Temp.	. 'C				-196°C	'+100'C; -2	25°C~+950°C	-30°C	~+160°C; -30	'C~+180'C;	-30°C~+31	0°C等							
4	以稱壓力 Body	ratings				P	N10~PN63; A	NSI150 等彩	及, 300等級	600 等新	级. 900等级.	其他公稱	8力範圍可4	表要求而定							

自潤式軸承

Self-lubricating Valve Shaft

閥軸與閥體間安裝了德國製RTFE+SS 316L材質軸承. 具備 優良的耐溫耐磨耗及低摩擦係數,有效降低操作扭力,確保 閥門於高次數的開關後仍能維持優良的密封性能。

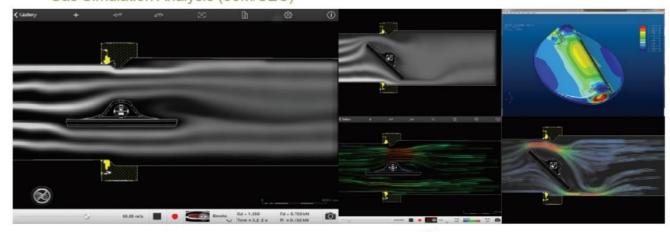
German RTFE + SS 316L material, with excellent temperature resistance, wear resistance and low friction coefficient, effectively reduce the operating torque. It ensures that the valve can maintain good sealing performance after a high number of switching.

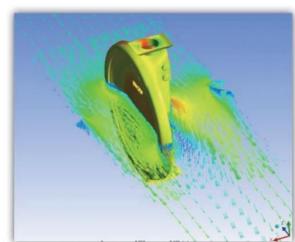


閥瓣材質標準採用精密陶瓷,並依據API598要求承壓能力運用PTC Creo Parametric輔助分析陶瓷材料受壓後之應變及承壓能力,利 用這些先進的3D CAD工具的模擬輔助設計, 平滑式的外型, 經過軟體計算, 相比一般傳統設計, 可有效的降低噪音及擾流狀況。再利 用風洞測試軟體進行驗證,優化閥門的流通能力。表面抛光是我們標準的程序,它可大幅提升閥瓣磨耗的性能及抗流體與雜質的衝 擊,增加了產品實際之使用壽命。

The valve disc is made from standard precision ceramic, and according to the pressure-bearing capacity required by API598, PTC Creo Parametric is used to assist in analyzing the strain and pressure-bearing capacity of the ceramic material after compression; the smooth shape is designed by using the simulation aid of advanced 3D and CAD tools; the noise can be effectively reduced by software calculation compared with the general design; then use wind tunnel testing software to verify, optimize the flow capacity of the valve; surface polishing is an indispensable procedure, which can greatly improve the wear performance of the valve disc and resist the impact of fluid and impurities.

▲ 氣體模擬分析 (50 M/SEC) Gas Simulation Analysis (50M/SEC)









实用新型专利证书



Product Profile

山野95MT陶瓷控制蝶閥系列,閥座和閥芯為精密陶瓷,雙偏芯設計,扭矩密封,具有 開關/調節等多重功能,可在轻腐蝕性含有固料介質的工礦上廣泛使用。

Sun Yeh 95MT Ceramic Butterfly Control Valve Series, its seat and spool are precision ceramics, double eccentric, sealed torque, and has functions of switching and regulating. It can be widely used in light corrosive condition containing solid medium industries.

產品特色

Product Characteristics

- ●山野陶瓷密封蝶閥,採用雙偏芯結構,偏置軸和偏芯蝶板設計,由於偏芯產生的楔緊效應,越關越緊,密封副對磨接觸,能自行補償。具有耐沖刷、耐腐蝕、耐高溫及防擠碎的性能。
- Double eccentric structure with eccentric shaft and eccentric butterfly disc design. Because of the wedge effect produced by eccentric core, the more closed, the tighter. And the contact between sealing rings can be compensated by themselves. It has the properties of erosion resistance, corrosion resistance, high temperature resistance and crushing resistance.
- ●由於對夾式的設計,重量輕,安裝方便,執行器連接是通過支架介面,其符合IS05211 尺寸標準。
- The installation is convenient because of the design of clamp type and light weight. And its actuator connection is through the bracket interface, which meets the ISO 5211 size standard.
- ●山野陶瓷密封蝶閥,所有規格的閥杆均為高強度、一體式閥杆,材質標配為17-4PH不銹鋼,可根据特殊工况另外选材。
- •All specifications of the stems are integral, high strength, 17-4PH stainless steel material, and the material could be changed according to different working conditions.
- ●閥座維修保養方便, 只要取下嵌件既可更換及維修密封副, 不必拆卸蝶閥和軸。
- Maintenance of valve seat is convenient, as long as the insert is removed, the sealing pair can be replaced and maintained, there is no need to disassemble the whole valve.
- ●閥板: 閥板的設計結構雙偏芯,允許最大流量通過和最小磨損發生。密封副開啟關閉時 有剪切作用,陶瓷的自潔性及自潤性,能切去密封面上的結垢及粘連物,能保持長久嚴密 性。

- Double eccentric structure, allowing maximum flow through and minimum wear. When the sealing pair is opening and closing, there is shearing performance. Ceramics have self-cleaning and self-wetting properties which help to clean scales and adhesives on the sealing surface and maintain long-term tightness.
- ●陶瓷對陶瓷密封。陶瓷閥板和閥座完美弧面的匹配,以確保Ⅵ等級關閉或更好的調節性能。
- Ceramic Ball and Ceramic Seal match perfectly and the best sealing effect is realized. It ensure V or above shutdown level and better regulation performance.
- ●厚實、堅固的陶瓷。一個合理的、高度工程化的控制閥門設計的證明。通過採用堅固、厚壁的陶瓷部件,閥門能夠在持續服務中存活的時間遠遠超過硬化處理和噴塗鎳基碳化鎢及堆焊材料。
- Our ceramics is thick and solid. A reasonable, highly engineered and thermal insulation control valve design proves that by using solid, thick-walled ceramic components and unique combination, the valve can survive in continuous service much longer than that of hardening and spraying nickel-based tungsten carbide and surfacing materials.



主要技術參數

												MARKET						
8)	真定 CV Rate	d Cv	50	70	150	185	330	530	910	1690	2700	3750	5360	7000	8800	11500		
尺寸口	Dimension	阀长 L=MM	43	43	49	64	64	70	76	89	114	114	127	140	152	152		
	量特性 Flow steristics						Quick-o	快閒。 pening, Equ	帝定位器時 alpercent		positioner							
	特角度 rotation								60~90deg									
			阿爾曼拉	割 On-off			模似量控制 Modulatio		Sol		子式 lectronic	Туре		電數 Electric	控制 Motor Type			
動作 Action	正作用 DA			原歴増加開 Air to val		随輸入	定位器信號 或關閉。	3億加限的例	Sign		建加丽阿 e to valve	shut		VDC, 24VAC				
	反作用 RA			「壓増加間! Air to va			en or shut	by air or gnal	Sign		地加照開 e to valve	open	220VAC/1PH, 220VAC/3PH, 380VAC/3 440VAC/3PH					
道環設	簡 Option	類 操作機構。 新た 凸線及機型	載保護裝置					加熱器温控	用間、電									
	材質 Body terial																	
	標準 The d of flange																	
	E Operating					-196°C~+10	00°C1 -25°0	C~+950°C;	30°C~+160°	C1 -30,C_	+180°C; -3	0°C~+310°C	:#F					
	壓力 Body				PN1	PN63;ANSI	150等级,	300 等級, 60	90 等級, 90	0 等級, 其	他公稱壓力	範围可依要	求而定					







陶瓷角行程 控制阀 Ceramic Angle Travel Control Valve

陶瓷直行程 控制阀 Ceramic Direct Travel Control Valve

33

陶瓷管道件

截止阀、闸阀、旋塞阀

止回阀、疏水阀 Globe Valve Gate Valve Plug Valve Check Valve Drain Valve

05

稀有金属锆

镍、钛等特阀

Rare metal valves

such as zirconium,

nickel and titanium

Y型角座阀

Ceramic Pipe Fittings Y-port Angle Seat Valve

山野控制阀,拥台湾技术,做世界品牌!

Sun Yeh control valves, with technical support, be a global brand!

產品簡介

Product Profile

山野970T全襯型精密陶瓷角閥系列,設計型式為陶瓷內襯柱塞閥,具有調節線性好、壽命長、耐沖刷、耐腐蝕、耐高溫、 克服介質導動衝擊等多重功能,可在嚴苛腐蝕工況含固的腐蝕性介質中起節流調節控制作用。

Sun Yeh 970T Full-lined Precise Ceramic Angle Valve series, ceramic-lined plunger valve, has multiple functions such as good regulation linearity, long service life, erosion resistance, corrosion resistance, high temperature resistance, and overcoming medium-driven impact. It can play a throttling control role in corrosive medium with solid under severe corrosion conditions.

產品特色 (专利号: 201821048781.1)

Product Features (Patent No. 201821048781.1)

●主外觀設計理念以流體力學角度配合美觀而設計角式閥主體外觀。①

The main appearance design concept is from the perspective of fluid mechanics and aesthetics.

●進出口採用喇叭口設計得到流量調節減少出口的沖刷,符合流體力學介質慣性流向原理,因而使介質流向通順減少干涉,達到 減少沖刷損耗的目的。②

The inlet and outlet are designed with trumpet mouthpiece to adjust the flow rate to reduce the erosion for outlet, which accords with the principle of inertial flow direction of fluid mechanics medium, so that the flow of medium is smooth and achieves the purpose of reducing erosion loss.

●閥密封底座設計: 閥座採用倒斗笠理念設計當物料流入, 閥芯上下機動調整高度, 取得良好的流量調節作用, 另在切斷使用工 況時具備減壓的作用,因而有效降低和減輕介質回流所產生的水捶重力撞擊的損害,使閥門在使用時功能更穩定,因而使角形閥 具備調節功能與切斷功能的完美性③。

Sealing Seat: Valve seat is designed with inverted bucket hat, when fluid enters, valve spool can up and down flexible, so as to have good flow regulation; And the valve seat can release the pressure when valve is cutting off, thus effectively reduce the damage caused by water hammer gravity impact of fluid reflux.

●閥芯設計: 閥芯采重力理論(類似雨傘在下雨時雨珠自然流向原理設計閥芯),同時得到閥芯與閥座有了相同的錐度緊密配 合,提高了調閥密封性能,洩漏等級達到 VI級。④

Spool: Designed by gravity theory (similar to the principle of natural flow of raindrops on umbrella); spool and seat have the same taper, which improves the sealing performance and leak-proof grade reaches class-VI.

●閥杆設計: 閥杆採用機械活塞沉頭式設計原理。⑤

Stem: It adopts the principle of mechanical plunger sunk-typed to design.

●閥門零配件為機械精加工產品,所有產品實現零部件組裝成成品閥門,而且能滿足備品備件的更換,大大改善傳統一閥一配件

All the valve components are mechanical finishing products with spare parts of adequate, it greatly improves the traditional concept of one valve with one spare part.

●該產品填補國內、外角式閥市場,是一種新型的全陶瓷內襯的角式調節閥,属**全球首創**產品。

It is a new type of angle valve that ceramic full-lined, it is the initiate product on the world, and can fill the angle valve market of domestic and foreign.

●產品主要外觀顏色以綠色環保為主色,其符合產品本身即有的節能環保理念。

It appearance color is environmental green, which conforms to the energy-saving and environmental protection concept of the product itself.





●金屬保護殼體,可通過環氧樹脂或尼龍塗裝,達到顏色識別和抗腐蝕環境要求。和不銹鋼殼體一樣,允許暴露在極端惡劣的環 境中而不受外部的腐蝕性降解。其牢固地圍繞著陶瓷組件,防止它們受到任何可能的損壞。管道壓力不會轉移到陶瓷而是被殼體 吸收了一因為所有的法蘭螺栓直接連接到殼體上。

970T陶瓷角閥(全襯型)

970T Ceramic Angle Valve(Full-lined)

Metal protective shell can be coated with epoxy resin or nylon to meet the requirements of color recognition and corrosion resistance. Like stainless steel shells, it is allowed to be exposed to extremely harsh environments without external corrosive degradation. It firmly surrounds ceramic components to prevent them from any possible damage. Pipeline pressure is absorbed by the shell instead of being transferred to the ceramic because all flange bolts are connected directly to the shell.

山野針對目前國內, 嚴苛腐蝕工況使用之控制閥(如煤炭化工、石油化工,造紙 行業, 多晶砂, 有機砂, 各類化工, 化肥行業, 金屬冶煉, 等等行業) 由其是工 藝角式調節閥應用市場調查評估,存在角式閥不耐用使用,壽命短、不耐沖刷、 不耐腐蝕等因素,因此公司決定以本身擁有的專業技術能力,致力 於改善角式閥 目前存在的問題! 用於提升角形閥在, 耐酸城, 耐腐蝕, 耐沖刷, 耐高溫等工況 下使用性能的改善, 以服務廣大的消費市場。

Sun Yeh aims at the control valves used under severe corrosion conditions (such as coal chemical industry, petrochemical industry, paper industry, polycrystalline silicon, organosilicon, various chemical industry, fertilizer industry, metal smelting, etc.) especially the application market investigation and evaluation of process angular control valves, which are not durable and have short service life. Our company decided to improve the existing problems of angle valves with its own professional and technical capabilities. It is used to improve the performance of angle valves under conditions of acid and alkali, corrosion, erosion and high temperature.



主	要排	支徘	多	數

进口法的	性公稱通復 Bod	ly size	DN25	DN32	DN40	DNSO	DN65	DN80	DN100	DN125	DN150	DN200		
額定	CV 值 Rated	Cv	10	16	25	40	63	100	160	250	400	630		
行程	mm Stroke	mm		6	3	25		40			60			
尺寸D	imension	RÐ L=MM	70	76	82	102	108	121	146	178	203	248		
详见PS	28页图示	(ВД) H=MM	100	105	115	125	145	155	175	200	225	275		
	#特性 acteristics				等百分日	比、线性、开关	Equal perce	entage, Line	ar, On-off.					
		p	明酬量 控制 Or	-off		以量控制 dulation	Soli	全電子 d State Elec		E	電動控制 lectric Motor	Туре		
順力作 Action	正作用 DA					輸入信號增 I increase t	加阿門 o valve shut		DC,24VAC,24VE					
	反作用 RA	-	及作用,氣壓增加限問 Reverse action: Air to valve open 定位發、過濾減壓閥、電磁閥、限位開關、調速發、鎖止閥、限位件、于 動操作機構。 Walve open or shut by air or electric signal Signal increase to valve open 定位發、過濾減壓閥、電磁閥、限位開關、調速發、鎖止閥、限位件、于 此例板、超數保護裝置扭力開關、現域				Anna Alba mer-mer	The Tim at Action in the Control of						
遊開設	備 Option	定位器、過						操作器、調達板、加熱器、加熱器温控閉網、 协問網、手動操作機構。						
開體材質 Bo	ody material	GB, HG, DIN, JIS, ANSI 及非標定制												
And 100	e standard of ange													
	Operating p. 'C		標	集型 Standard		▶230°C; 散热片型 加长型 Long-E 先 t				者超过 230°C的	均场会 :			
公稱壓力 B	ody ratings	PN1	0~PN160;A	ISI150, ANS	1300, ANS 1	500, ANS1900,	ANSI150	0, ANS1250	00等级,其他	公称压力剂	包围可依要求	(而 定		







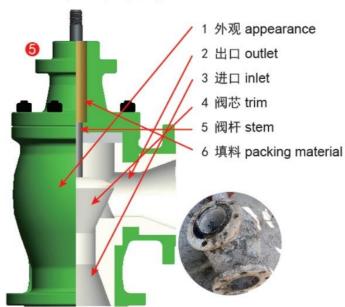
在煤化工、石化、碱业等行业中,很多生产工艺阶段介质腐蚀性严重、冲刷厉害 等(如煤化工:在煤气化工段中,黑水介质含有杂质、温度高、腐蚀性强、调节 压差大等特点;在催化剂制备装置中,浆料、灰水等介质固含量高达50%,腐蚀性 强、冲刷厉害。碱业: 在重碱生产中, 重碱石灰乳介质, 含有颗粒、石块、石灰 乳,腐蚀性强、粘稠易卡塞、磨损严重。),普通阀门在很短的时间内就会因为 冲蚀严重、泄露量大、调节性能差而失效, 阀门一旦发生泄漏和频繁维修, 将会 对环境、经济带来很大的影响。

In the coal chemical industry, petrochemical industry and alkali industry, the medium in production stages is corrosive and erosive seriously. For example, coal chemical industry: In the coal gasification section, black water medium is high-temperature, high-corrosive and has large pressure difference; in the catalyst preparation device, solid content of slurry, ash water and other medium as high as 50%, no less to say high-corrosive and strong-erosive. Alkali Industry: In the production of heavy alkali, the medium of heavy alkali lime emulsion contains granules, stones and lime milk, which is highly corrosive, viscous and easy to plug and wear seriously. Common valves will fail in a very short time because of serious erosion, large leakage and poor regulation performance. Once the valve repairs too frequently and even leaks, it will have a great impact on environment and production.

山野陶瓷角阀与流体接触的部分全部采用内衬结构陶瓷, 充分利用陶瓷耐腐蚀、 耐冲刷、耐磨损等的固有特性,增强阀门产品性能,延长阀门使用寿命。

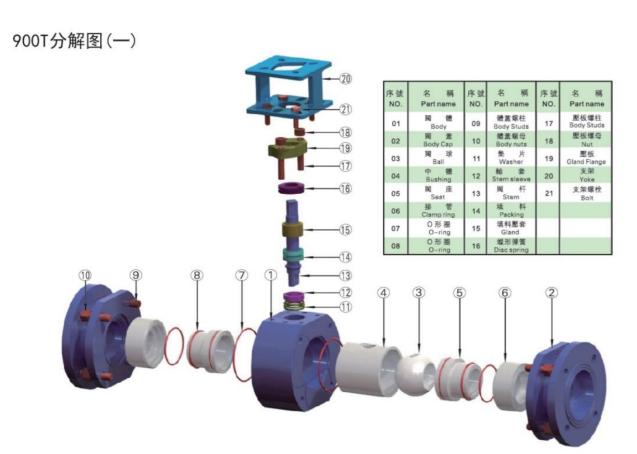
Sun Yeh Ceramic Angle Valve, which the parts of contacting with fluid are all lined with special ceramic, making full use of the inherent characteristics of ceramics such as corrosion resistance, erosion resistance, wear resistance, etc., to enhance the performance of valve products, and prolong their service life.

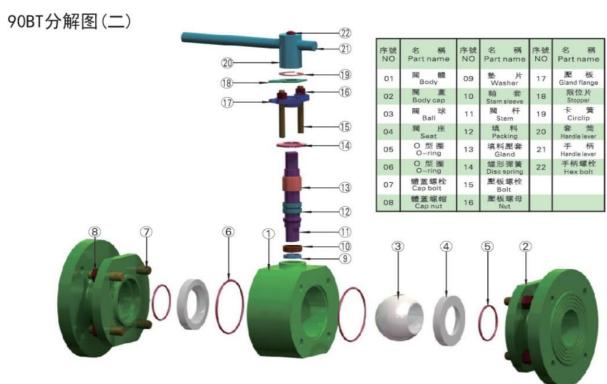


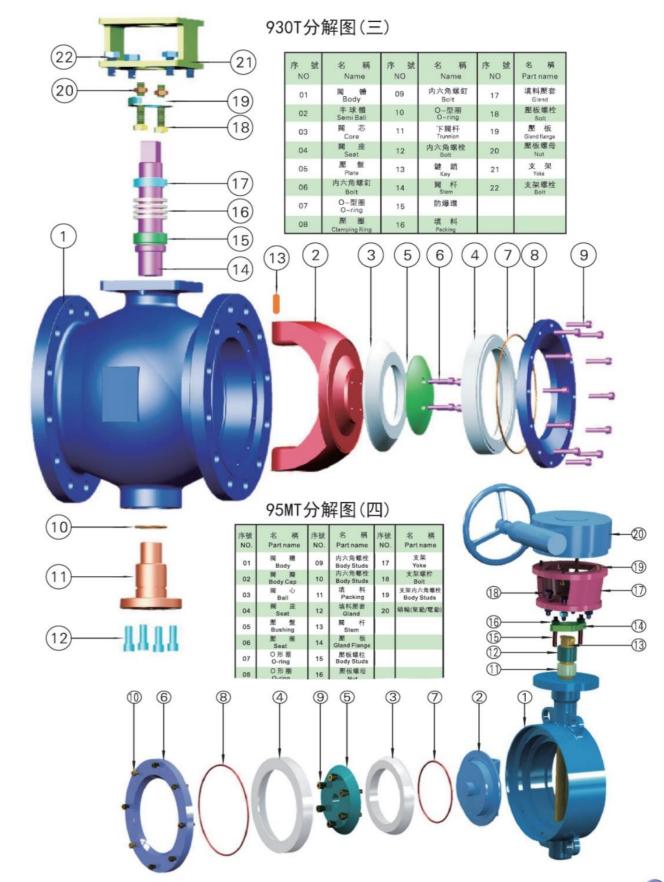














操作扭力表 Operating Torsion Table

操作扭力表 (Operating Torsion Table): N. m

名称 Name			硬 Hard-se	硬密封陶瓷球阀类 Hard-sealed Ceramic Ball Valves	类 Ball Valves				陶瓷螺 Ceramic But	陶瓷蝶阀类 Ceramic Butterfly Valves		偏数数 Eccentric R	偏芯旋转阀 Eccentric Rotary Valves
规格 Specifications		适用于 Applicable to 900T, 910T, 920T, 90BT, 90CT, 91BT	le to 900T, 9°	10T, 920T, 90	BT, 90CT, 91	BT , 925T, B90T	B90T	适用于Applic	适用于Applicable to 950T 适用于Applicable to 95MT	适用于Applic	able to 95MT	适用于Applicable to 930T,	to 930T, 940T
差压 Pressue Difference	6Bar	10Bar	16Bar	25Bar	40Bar	64Bar	100Bar	6Bar	16Bar	10Bar	16Bar	10Bar	16Bar
DNIS	15	17	19	83	88	88	06						
DNEO	83	83	98	40	45	72	115						
DNP5	30	30	90	45	H	115	180	9	8			40	09
DNB2	40	45	99	09	22	115	185						
DIMIO	99	89	8	88	06	145	220	25	27	20	09	80	100
DNEO	22	08	98	88	100	150	245	25	27	20	09	06	100
DNGS	110	110	110	130	150	200	400	30	33	09	80	110	130
DNB0	140	170	200	200	200	300	009	33	36	80	100	145	160
DNIOO	140	190	240	300	350	009	006	46	52	100	150	180	240
DNI25	240	300	360	480	009	1000	1500	75	06	150	200	270	320
DNI50	240	345	450	009	006	1500	2000	100	125	200	450	360	720
DNBOO	320	480	009	006	1500	2000	3200	187	220	450	009	720	960
DNESO	1000	1000	1300	1600	2500	4000	2000	315	360	009	006	960	1440
DIABOO	2000	2000	2000	2500	4000	0009	10000	460	920	006	1200	1450	1920
DNB50	2500	2500	2500	4000	2000	8000	13000	029	800	1200	2000	1690	2600
DNIO								960	1180	2000	2500	2600	3250
DNISO								1380	1680	2500	3000	3250	3900
DIA500								1750	2100	3000	2000	3900	0059
DIABO0										2000	0099	0099	8450

- 备注: ①在此表的扭矩值,考虑管路介质为常温的水(除6Bar的用压缩空气测试外),以及表列压差的情况下做测量;
 - ②山野的扭矩来自于阀轴及阀座摩擦力+流体压差+(如有)一次偏芯及二次偏芯力臂的总和而来的;
 - ③安装时依据阀门箭头流向安装可得轻低的阀门扭矩以及较高的使用寿命;
 - ④介质在高、低温时扭力也会加大; 料浆类在选型时请考滤粘稠度。

Remarks:

- (1) Torque value in this table is measured by taking into account water at room temperature (except for 6 Bar test with compressed air) and pressure difference in the table.
- (2) Torque comes from the sum of frictional force of the valve shaft and seat + fluid pressure difference + (if any) primary and secondary partial core arm;
- (3) Low valve torque and high service life can be obtained by installing the valve according to the arrow direction.
- (4)When the temperature of medium rises or decreases, the torque will increase slightly, when choose the type of valve for slurry medium, please check the filter consistency.





1. 測試: Sun Yeh Valve所出廠之所有閥門皆 依據API 598或在設計承壓範圍內;客戶所 訂定之要求100%試壓檢驗完成後才出廠。

2. 扭矩: 所有閥門扭矩於出廠前皆被驗證過。

3. 材料鑑定:铸件采用超声波测厚仪进行100%检测,确保铸件的合格性;对原材料硬度进行验证,确保符合使用要求;用万能试验机对陶瓷材料件及金属材料进行拉伸、沟口试验,确保抗压及抗拉的强度达到使用要求。

中国商品社府關係在自己

A CONTRACTOR TO CONTRACTOR OF THE CONTRACTOR OF

SOMPLE CONTROL VALVE CROSP CO, UTD.

质量管理体系认证证[5

4. 采用三维立体坐标测量仪对陶瓷阀球、阀座圆和直径,阀体轴孔中心配合陶瓷球沟口的同轴度进行测量,确保球面的密封性能,达零泄漏。

- Testing: Valves manufactured by Sun Yeh are all in accordance with API 598 standard or within the design pressure range; Customer customized products are 100% completed by pressure test before leaving the factory.
- 2. Torque: All valve torques have been verified before they leave the factory.
- 3. Material identification: Castings are inspected by ultrasonic thickness gauge to ensure the qualifications of castings; raw material hardness is verified to ensure that it meets the requirements of applying; ceramic and metal materials are tested by universal testing machine for tensile and trench tests to ensure that the compressive and tensile strength meets the requirements of usage.
- 4. The coaxiality of ceramic valve ball, seat circle and diameter, the center of valve shaft hole and ceramic ball groove is measured by three-dimensional coordinate measuring instrument to ensure the high sealing performance of the ball surface and achieve zero leakage.















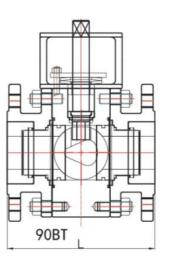


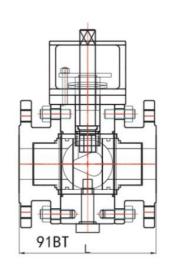
山野特閥產品型號識別編制說明 Programming Explanation for the Types of Sun Yeh Special Valves

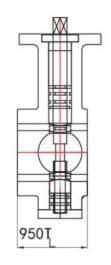
3Y	900T	Α	D	C1	F	K	D	Α	G	d	G	T	С	W		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
山野 廠牌 Brand	閥門 種類 Body Type	公稱 壓力 Nominal Pressure	驱動 方式 Actuator	公稱 通徑 Body Size	連接 形式 Connection Form	專用 功能 Special Function	特殊 結构 Special Structure	閥體 材料 Body Material	閥芯 材料 Trim Material	閥芯 形式 Trim Form	閥座 材料 Seat Material	閥軸 材料 Shaft Material	填料 要求 Packing Request	特殊 要求 Specific Request		
1	山野廠牌 Brand	3Y														
2	閥門種類 Body Type	型),91 950T-陶瓷 900T Cer Ceramic E 925T Cav Ceramic	BT-陶瓷玩 瓷蝶閥(全 amic Ball Ball Valve (ity-free Cel	機(固定: 機型),9 Valve(full-lir full-lined fix ramic Ball V /alve(half-lir	球半襯型) 5MT-陶瓷鹎 ned floating ed ball), 91 alve 930T	,920T-烘 業閥(半村 ball),90B BT Cerami	早接硬密封型), 970 BT Ceramic ic Ball Valve	高壓球閥, 「一陶瓷角閥 :Ball Valve :(half-lined	925T无腔 (全裸型), e(half-lined l fixed ball),	球閥(內 型陶瓷球術 B90T夹套 floating), 9 , 920T Weld e Valve, 950 cket Them	関,930T-0 保温型陶瓷 0CT Ceran ding Hard-s	型球閥,9 免球阀,D9 nic Ball Val ealed High	940T-凸輪 OT低温球的 Ive(PFA line -pressure B	撓曲閥, ed), 910T all Valve,		
3	公稱壓力 Nominal Pressure		-PN16, B-PN25, C-PN40, D-PN63, E-PN100, F-PN160, G-PN250, H-ANSI150#, J-ANSI300#, -ANSI600#, L-ANSI900#, M-ANSI1500#, N-ANSI2500#, P-JIS10K, Q-JIS20K, R-JIS30K, S-JIS40K													
4	驅動方式 Actuator	Q-氣動帶 G-Pole PI A-Pneum	手操 atform,Har atic Film Ty	ndle Drive, V vpe, Y-Hydra	Vheel Drive	, Electric S Inism, Pneu	witch, Elect imatic Drive	ric Adjustm Manual O	ent, Pneum peration	用,R-氣動 natic Dual A	ction, Pneu	matic Singl	e Action,			
5	公稱通徑 Body Size	10-DN250 A1-In.1/2	, 12-DN30 B1-In.3/4 0	0, 14-DN3	50, 16-DN n.11/4 D1-l	400, 18-DI n.11/2 02-Ir	N450, 20-1	ON500, 24-	-DN600, XX	0,04-DN1 (-特殊規格 n.506-In.6						
6	連接形式 Connection Form			ー牙口, H- -threaded, H												
7	専用功能 Special Function			型, D-低温 d, D-low ter				heat prese	rvation							
8	特殊結构 Special Structure			根據現場原 ned by cons				cording to t	he requiren	nent of work	king condition	on.				
9	閱體材料 Body Material			, P-CF8, 7-LCB, 8-	-	L-CF3M,	P-F304,	1-F304L	, 2-F316	, 3-F316	L, T-TA2	2, H-HC,	S-PVC,	4-WCC,		
10	閥芯材料 Trim Material			七鋯陶瓷, ;, G-Zirconia		X-Special N	Material									
11	閥芯形式 Trim Form	口,q-特 a-O port b	殊定制,toall, b-C po	-T形三通知 ort ball, c-V	k, L-L形三 port ball, d	E通球,x-	X形四通球。 pall, e-V30	°port ball, f	-V 45° port	0°形球,h ball, g-V 60 all, x-X por	0°port ball,	h-V 90°por				
12	閥座材料 Seat Material			七鋯陶瓷, 3-zirconia c						材 cial material	s					
13	閥軸材料 Shaft Material	Z-鋯合金	P-304, R-316, L-316L, T-17-4PH, C-HC啥氏合金C, B-HB哈氏合金B, T-TC4鈦合金, M-蒙及爾合金, C-精密陶瓷, S雙相不銹鋼, Z-鋯合金, S-PVC P-304, R-316, L-316L, T-17-4PH, C-HC alloy C, B-HB alloy B, T-TC4 titanium alloy, M-Monger alloy, C-precise ceramic, S duplex stainless steel, Z-zirconium alloy, S-PVC													
14	填料要求 Packing Request			用,G-高溫 C-Normal				, W-Oil Pro	hibition, X-	Special Spe	ecification					
15	特殊要求 Specific Request			貨時與生產 sign, confirm			cturer wher	n ordering								

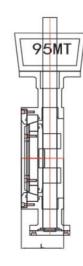
编制方法(Organization Method): 1+2+3+4+5+6+7+8+9+10+11+12+13+14+15

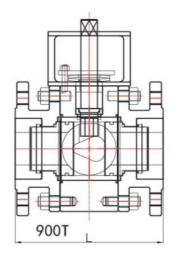
各参数代码组合=理想的控制阀选型

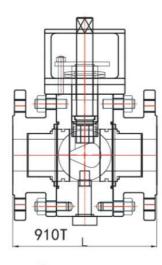


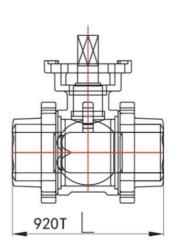


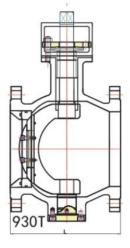


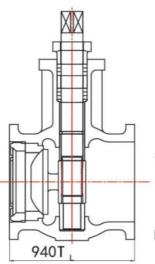


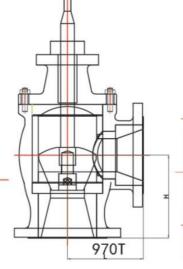


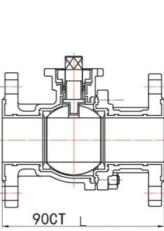


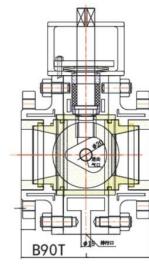


















耐磨陶瓷管性能及用途

Properties and Application of Wear-resistant Ceramic Pipe

耐磨陶瓷管道是由氧化鋁陶瓷(或氧化鋯)和無縫鋼管組成,采用特制的粘合劑將特種剛玉質陶瓷與無縫鋼管無間隙相結合,經24小時固化後形成牢固防磨層。獨特的結構設計,每片陶瓷都經過磨加工成適合的角度,使每一圈瓷塊之間形成360°的機械自鎖力,確保陶瓷與陶瓷、陶瓷與鋼管結合緊密。該粘合劑對鋼和陶瓷都具有優良的粘結性;具有相當高的强度和韌性;具有較高的耐熱性和耐老化性,可長期在一50℃至500℃下運行。該管具有耐磨、耐蝕、耐熱性能,是輸送砂、石、煤粉、灰渣、鋁液等高磨削、高腐蝕介質物料的理想産品。耐磨陶瓷管抗磨損能力高,抗流體衝刷能力强。在實踐中,耐磨陶瓷管使用一年後打開觀察并測量,均無明顯的磨損或脱落。

Wear-resistant ceramic pipeline is composed of alumina ceramics (or zirconia) and seamless steel pipe. Special corundum ceramics are combined with seamless steel pipe by special adhesive. After 24 hours curing, a solid anti-wear layer is formed. Unique structural design, each piece of ceramics is grinded to a suitable angle, so that each circle of ceramics blocks form a 360°mechanical self-locking force, to ensure that ceramics and ceramics, ceramics and steel pipe bonding closely. The adhesives have excellent bonding properties to steel and ceramics, high strength and toughness, high heat resistance and aging resistance, and can be operated for a long time at 50 °C to 500 °C. The pipe has the properties of abrasion resistance, corrosion resistance and heat resistance. It is an ideal product for conveying materials with high grinding and corrosion medium such as sand, stone, coal powder, ash and liquid aluminium. Wear-resistant ceramic tubes have high wear resistance and fluid erosion resistance. In practice, wear-resistant ceramic tubes were opened for observation and measurement after one year of usage, and there were no obvious wear or shedding.

在腐蝕或高温場所耐磨陶瓷内襯鋼管適用于:燃煤電廠除灰、排渣、送粉、回粉系統;鋼鐵廠的煉鐵的高爐噴煤、輸渣等管道、煉鋼的輸送鐵合金、爐外精煉等優選的管道;水泥廠:旋窑濕法生產綫的生料漿輸送、煤粉輸送、提升機的下料、混凝土輸送管道。

Wear-resistant ceramic lined steel pipes in corrosive or high temperature places are suitable for: ash removal, slag discharge, powder feeding and powder returning systems in coal-fired power plants; pipes for blast furnace coal injection and slag conveying in steelworks; pipes for iron alloy conveying and refining outside the furnace; raw slurry conveying, pulverized coal conveying, discharging of hoists, and concrete conveying pipeline in cement plants.

行业应用产品

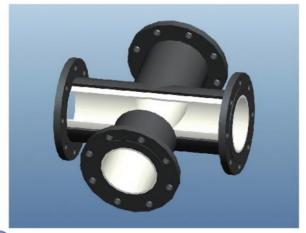
Industry Application

氧化鋁廠:

Alumina Industry:

原磨(球磨機、棒磨機進料管、礦石輸送管件)、溶出(下料鬥)、沉降、分解(沉砂嘴、下錐體)、蒸發、焙燒(輸送耐磨溜槽及管件)等 易磨捐過流件。

Abrasion-prone flowing parts such as original grinding (ball mill, rod mill feed pipe, ore conveying pipe fittings), dissolution (hopper), settlement, decomposition (sinking nozzle, lower cone), evaporation, roasting (conveying wear-resistant chute and pipe fittings) etc.





火電行業:

Thermal power industry:

原煤料倉、皮帶機料門、門機圓弧板及受卸板、落煤管、磨煤機動環風葉、筒體和分離錐、磨煤機多出口短節、折向門、一次二次 風管、循環流化床鍋爐燃燒室、煤粉輸送管道(煤粉補償器、煤粉混合器等)、粗細粉旋風分離器殼體、煤渣、煤灰輸送管道、鍋爐 煤烟管道、除塵器管道和彎頭、排粉機機殼和風管、高温風機機殼及風葉、燒煤器中心管彎頭等。

Raw coal bunker, belt conveyor hopper, bucket arc plate and unloading plate, drop coal pipe, coal mill circulating air blade, cylinder body and separation cone, multi-outlet short section of coal mill, folding door, primary secondary air pipe, circulating fluidized bed boiler combustion chamber, pulverized coal conveying pipe (pulverized coal compensator, pulverized coal mixer, etc.), coarse and fine powder rotation Air separation; shell, cinder, ash conveying pipeline, boiler soot pipeline, dust collector pipeline and elbow, pulverized coal discharger casing and air duct, high temperature fan casing and blade, coal burner central pipe elbow, etc.

鋼鐵行業:

Steel Industry:

一、焦化系統: 1、焦炭轉運溜槽2、焦炭接受漏門及耐磨抗衝擊板3、煤轉運溜槽4、皮帶運輸機裙板5、箅子篩條。

Coking system: 1、 coke transfer chute 2、 coke acceptance funnel and wear-resistant impact plate 3、 coal transfer chute 4、 belt conveyor skirt plate 5、 grate sieve

二、原料運輸: 1、煤粉溜槽2、焦炭漏門3、稱量漏門4、轉運溜槽5、礦石倉6、焦炭倉7、燒結礦倉8、耐磨板9、皮帶運輸機裙板 10、棒條篩11、分料閥12、布料小車內襯。

Material transportation: 1、 pulverized coal chute 2、 coke funnel 3、 weighing funnel 4、 transfer chute 5、 ore bin 6、 coke bin 7、 sinter bin 8、 wear-resistant plate 9、 skirt plate 10 of belt conveyor、 bar sieve 11、 distributor valve 12、 lining of distributor trolley

三、燒結系統: 1、原料運輸溜槽2、乏氣風機室及葉片3、旋風除塵器4、除塵管道5、下降管道和彎頭6、圓盤給料器襯板7、皮帶運輸機裙板8、破碎機算板9、抗衝擊塊10、燒結機滑道。

Sintering system: 1. Raw material transportation chute 2, exhaust fan chamber and blade 3, cyclone dust collector 4, dust collector 5, descending pipe and elbow 6, disc feeder liner 7, belt conveyor skirt 8, crusher grate 9, impact resistance block 10, sintering machine slideway

四、球團系統: 1、圓盤給料器襯板2、皮帶運輸機裙板3、造球盤刮刀4、除塵風管5、成品溜槽。

Pellet System: 1. Lining plate of disc feeder 2、 skirt plate of belt conveyor 3、 ball-making disc scraper 4、 dust removal duct 5、 finished product chute

五、高爐系統: 1、料倉2、爐頂無料鐘布料系統3、煤粉嘖吹管路4、煤粉處理旋風除塵器5、文氏洗滌塔。

Blast Furnace System: 1. Storehouse 2. bell-less top charging system 3. pulverized coal injection pipeline 4. pulverized coal treatment cyclone dust collector 5. Venturi scrubbing tower

冶金、化工、煤炭行業: U型溜槽

Metallurgical, Chemical and Coal Industry: U-shaped chute

洗煤、選煤物料輸送系統:介質輸送管路、洗選設備給料管路、排料管路、無壓自流管路、水煤漿、洗煤泥、沉砂箱、直管、彎管、三通、四通、料漿控制閥、旋流器和其它异形復合過流管件。

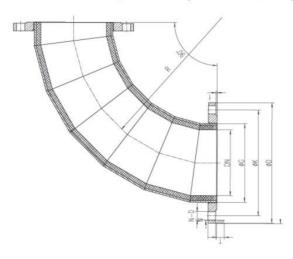
Coal washing and coal preparation material conveying system: medium conveying pipeline, feed pipeline of washing equipment, discharge pipeline, pressure-free self-flow pipeline, coal water slurry, coal washing slurry, caisson, straight pipe, elbow, three-way, four-way, slurry control valve, cyclone and other abnormal compound flow passage pipe fittings.

化學、醫藥、純水行業

Chemical, Pharmaceutical and Pure Water Industry

DN	R	钢管规格 steel pipe size	陶瓷规格 ceramic size	ØD	øк	ØG	N-D	Т	f
15	1.5D/2D/2.5D	Ø32×3	Ø25×5	95	65	45	4-Ø14	14	2
20	1.5D/2D/2.5D	Ø38×4	Ø30×5	105	75	55	4-Ø14	16	2
25	1.5D/2D/2.5D	Ø45×5	Ø35×5	115	85	65	4-Ø14	16	2
32	1.5D/2D/2.5D/3D	Ø50×4	Ø42×5	140	100	76	4-Ø18	18	2
40	1.5D/2D/2.5D/3D	Ø60×5	Ø50×5	150	110	84	4-Ø18	18	3
50	1.5D/2D/2.5D/3D	Ø73×6	Ø61×6	165	125	99	4-Ø18	20	3
65	1.5D/2D/2.5D/3D	Ø89×5	Ø79×7	185	145	118	4-Ø18	20	3
80	1.5D/2D/2.5D/3D/3.5D	Ø108×5	Ø98×9	200	160	132	8-Ø18	20	3
100	1.5D/2D/2.5D/3D/3.5D	Ø133×6	Ø121×10	220	180	156	8-Ø18	22	3
125	1.5D/2D/2.5D/3D/3.5D/4D	Ø159×7	Ø145×10	250	210	184	8-Ø18	22	3
150	1.5D/2D/2.5D/3D/3.5D/4D	Ø180×5	Ø170×10	285	240	211	8-Ø23	24	3
200	1.5D/2D/2.5D/3D/3.5D/4D-10D	Ø245×8	Ø229×13	340	295	266	12-Ø23	24	3
250	1.5D/2D/2.5D/3D/3.5D/4D-10D	Ø299×10	Ø279×13	405	355	319	12-Ø26	30	3
300	1.5D/2D/2.5D/3D/3.5D/4D-10D	Ø340×8	Ø324×13	460	410	370	12-Ø26	30	3

说明:管道通径小于DN 300,内部陶瓷采用整体陶瓷管工艺装配,通径大于DN 300,采用瓷片砌筑工艺装配。 Notes: Pipeline diameter is less than 12 inches, internal ceramics are assembled by integral ceramic pipe technology; diameter is more than 12 inches, assembled by ceramic tile masonry technology.



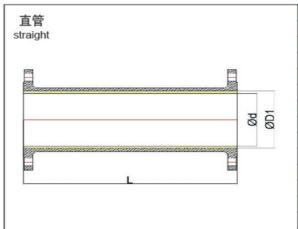




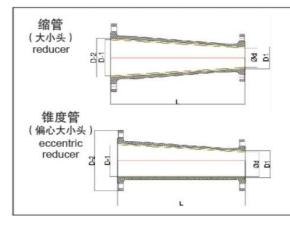




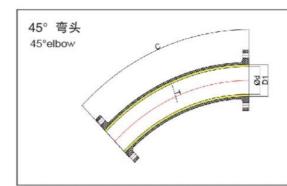




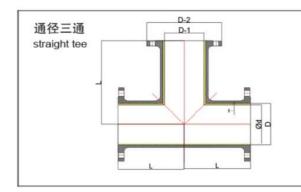
公稱	尺寸			Class15	0(PN20)		
DN	NPS	Φd	Φ D1	D-1	D-2	Т	L
DN15	0.5"	11	21	2	2	5	6000
DN20	0.75"	16	26	-		5	6000
DN25	1"	22	32			5	6000
DN32	1. 25"	28	38	_		5	6000
DN40	1.5"	36	46			5	6000
DN50	2"	47	59	(i)		6	6000
DN65	2. 5"	60	72			6	6000
DN80	3"	73	89	ļ.—.	ş——ş	8	6000
DN100	4"	94	110		7.——	8	3000
DN125	5"	118	138	—	_	10	3000
DN150	6"	143	163	- I	·	10	3000
DN200	8"	345	369			12	3000
DN300	10"	405	429	<u></u>		12	3000



公稱戶	7 寸			Class15	0(PN20)		
DN	NPS	Φd	D1	D-1	D-2	Т	L
DN25*15	1"	22	32	11	21	5	80
DN32*20	1. 25"	28	38	16	26	5	80
DN40*25	1.5"	36	46	22	32	5	80
DN50*32	2"	47	59	28	38	6	120
DN65*40	2. 5"	60	72	36	46	6	120
DN80*50	3"	73	89	47	59	8	120
DN100*65	4"	94	110	60	72	8	200
DN125*80	5"	118	138	73	89	10	200
DN150*100	6"	143	163	94	110	10	300
DN200*125	8"	345	369	118	138	12	300
DN300*150	10"	405	429	143	163	12	300

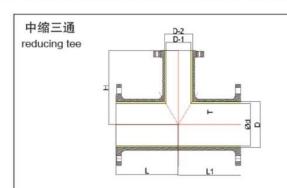


公稱	尺寸			Class150	(PN20)	
DN	NPS	Φd	D1	С	Т	
DN15	0.5"	11	21	45	5	
DN20	0.75"	16	26	45	5	
DN25	1"	22	32	60	5	
DN32	1. 25"	28	38	60	5	
DN40	1.5"	36	46	64	5	
DN50	2"	47	59	76	6	
DN65	2. 5*	60	72	76	6	
DN80	3"	73	89	102	8	
DN100	4"	94	110	102	8	



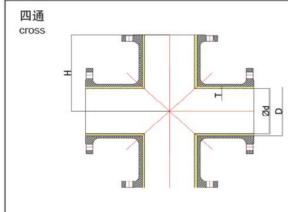
	公稱	尺寸			Class15	0(PN20)		
	DN	NPS	Φd	D	D-1	D-2	Т	L
	DN15	0.5"	11	21	11	11	5	70
	DN20	0.75*	16	26	16	16	5	80
	DN25	1"	22	32	22	22	5	89
ĺ	DN32	1. 25"	28	38	28	28	5	102
	DN40	1.5"	36	46	36	36	5	114
	DN50	2"	47	59	47	47	6	130
	DN65	2. 5"	60	72	60	60	6	140
	DN80	3"	73	89	73	73	8	165
	DN100	4"	94	110	94	94	8	180



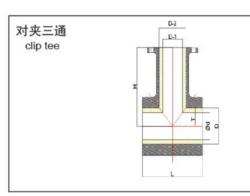


公稱戶	र र			CI	ass150(PN	20)		
DN	NPS	Φd	D	D-1	D-2	Т	L	Н
DN25*15	1"	22	32	11	21	5	80	70
DN32*20	1. 25"	28	38	16	26	5	80	70
DN40*25	1. 5"	36	46	22	32	5	80	80
DN50*32	2"	47	59	28	38	6	120	80
DN65*40	2. 5"	60	72	36	46	6	120	89
DN80*50	3"	73	89	47	59	8	120	89
DN100*65	4"	94	110	60	72	8	200	102

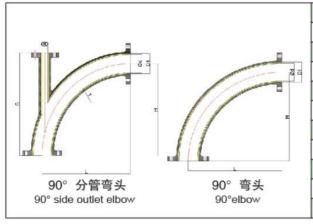
陶瓷管道件 Ceramic Fittings



	公稱	尺寸			Class15	0(PN20)		-2
	DN	NPS	Φd	D	D-1	D-2	Т	Н
	DN15	0.5"	11	21	11	11	5	70
	DN20	0.75"	16	26	16	16	5	80
	DN25	1"	22	32	22	22	5	89
	DN32	1. 25"	28	38	28	28	5	102
	DN40	1.5"	36	46	36	36	5	114
	DN50	2"	47	59	47	47	6	130
	DN65	2.5"	60	72	60	60	6	140
ĺ	DN80	3"	73	89	73	73	8	165
1	DN100	4"	94	110	94	94	8	180



公稱戶	रेर्न			CI	ass150(PN	20)		
DN	NPS	Φd	D	D-1	D-2	Т	L	Н
DN25*15	1"	22	32	11	21	5	80	70
DN32*20	1. 25"	28	38	16	26	5	80	70
DN40*25	1. 5"	36	46	22	32	5	80	80
DN50*32	2"	47	59	28	38	6	120	80
DN65*40	2. 5"	60	72	36	46	6	120	89
DN80*50	3"	73	89	47	59	8	120	89
DN100*65	4"	94	110	60	72	8	200	102



公稱	尺寸			CI	ass150(PN	N20)		
DN	NPS	Φd	ΦD	DI	G	Н	L	Т
DN15	0. 5"	11	_	21	45	70	70	5
DN20	0. 75"	16	_	26	56	80	80	5
DN25	1"	22	_	32	62	89	89	5
DN32	1. 25"	28	11	38	78	102	102	5
DN40	1.5"	36	16	46	96	114	114	5
DN50	2"	47	22	59	102	130	130	6
DN65	2. 5"	60	28	72	122	140	140	6
DN80	3"	73	36	89	130	165	165	8
DN100	4°	94	47	110	142	185	185	8

高压氮气High-pressure Nitrogen



碳化塔Carbonization Tower







纯碱厂Soda Factory

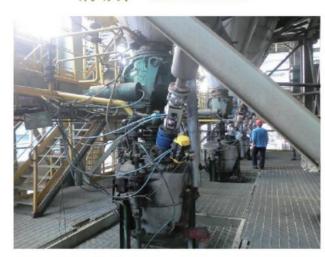


钢铁厂Steelworks



钛白粉厂Titanium Dioxide Plant

煤化工Coal Chemical Plant

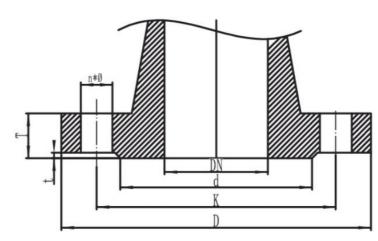


精细化工厂Fine Chemical Plant



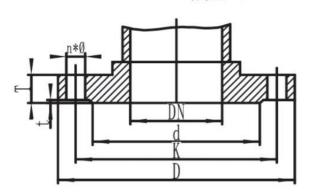
硅业Silicon Industry

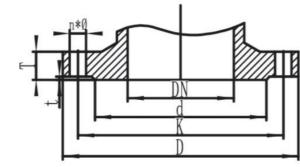




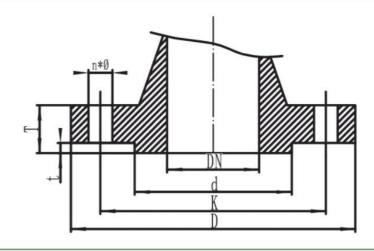
										G	B										
公称				1. 6MPa							2. 5MPa							4. OMPa			
通径 Nominal Size	D	T	t	d	K	n*Ø	螺栓 尺寸 Bolt Size	D	Т	t	d	K	n*Ø	螺栓 尺寸 Bolt Size	D	T	t	d	К	n*Ø	螺栓 尺寸 Bolt Size
DN15	95	14	2	45	65	4*Ø14	M12	95	16	2	45	65	4*Ø14	M12	95	16	2	45	65	4*Ø14	M12
DN20	105	16	2	58	75	4*Ø14	M12	105	18	2	58	75	4*Ø14	M12	105	18	2	58	75	4*Ø14	M12
DN25	115	16	2	68	85	4*Ø14	M12	115	18	2	68	85	4*Ø14	M12	115	18	2	68	85	4*Ø14	M12
DN32	140	16	2	78	100	4*Ø18	M16	140	18	2	78	100	4*Ø18	M16	140	18	2	78	100	4*Ø18	M16
DN40	150	16	3	88	110	4*Ø18	M16	150	18	3	88	110	4*Ø18	M16	150	18	3	88	110	4*Ø18	M16
DN50	165	18	3	102	125	4*Ø18	M16	165	20	3	102	125	4*Ø18	M16	165	20	3	102	125	4*Ø18	M16
DN65	185	18	3	122	145	8*Ø18	M16	185	22	3	122	145	8*Ø18	M16	185	22	3	122	145	8*Ø18	M16
DN80	200	20	3	138	160	8*Ø18	M16	200	24	3	138	160	8*Ø18	M16	200	24	3	138	160	8*Ø18	M16
DN100	220	20	3	158	180	8*Ø18	M16	235	24	3	162	190	8*Ø22	M20	235	24	3	162	190	8*Ø22	M20
DN125	250	22	3	188	210	8*Ø18	M16	270	26	3	188	220	8*Ø26	M24	270	26	3	188	220	8*Ø26	M24
DN150	285	22	3	212	240	8*Ø22	M20	300	28	3	218	250	8*Ø26	M24	300	28	3	218	250	8*Ø26	M24
DN200	340	24	3	268	295	12*Ø22	M20	360	30	3	278	310	12*Ø26	M24	375	34	3	285	320	12*Ø30	M27
DN250	405	26	3	320	355	12*Ø26	M24	425	32	3	335	370	12*Ø30	M27	450	38	3	345	385	12*Ø33	M30
DN300	460	28	4	378	410	12*Ø26	M24	485	34	4	395	430	16*Ø30	M27	515	42	4	410	450	16*Ø33	M30
DN350	520	30	4	438	470	16*Ø26	M24	555	38	4	450	490	16*Ø33	M30	580	46	4	465	510	16*Ø36	M33
DN400	580	32	4	490	525	16*Ø30	M27	620	40	4	505	550	16*Ø36	M33	660	50	4	535	585	16*Ø39	M36
DN450	640	40	4	550	585	20*Ø30	M27	670	46	4	555	600	20*Ø36	M33	685	57	4	560	610	20*Ø39	M36
DN500	715	44	4	610	650	20*Ø33	M30	730	48	4	615	660	20*Ø36	M33	755	57	4	615	670	20*Ø42	M39
DN600	840	44	5	725	770	20*Ø36	M33	845	58	5	720	770	20*Ø39	M36	890	72	5	735	795	20*Ø48	M45

JIS法兰 (JIS B 2238、JIS B 2239)

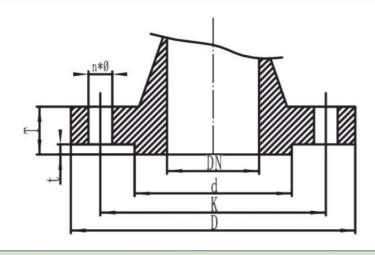




							JIS							
				10K							20K			
公称通径 Nominal Size	D	Т	t	d	к	n*Ø	螺栓 尺寸 Bolt Size	D	Т	t	d	К	n*Ø	螺栓 尺寸 Bolt Size
DN15	95	12/16	1	51	70	4*Ø15	M12	95	14/16	1	51	70	4*Ø15	M12
DN20	100	14/18	1	56	75	4*Ø15	M12	100	16/18	1	56	75	4*Ø15	M12
DN25	125	14/18	1	67	90	4*Ø19	M16	125	16/20	1	67	90	4*Ø19	M16
DN32	135	16/20	2	76	100	4*Ø19	M16	135	16/20	2	76	100	4*Ø19	M16
DN40	140	16/20	2	81	105	4*Ø19	M16	140	18/22	2	81	105	4*Ø19	M16
DN50	155	16/20	2	96	120	4*Ø19	M16	155	18/22	2	96	120	8*Ø19	M16
DN65	175	18/22	2	116	140	4*Ø19	M16	175	20/24	2	116	140	8*Ø19	M16
DN80	185	18/22	2	126	150	8*Ø19	M16	200	22/26	2	132	160	8*Ø23	M20
DN100	210	18/24	2	151	175	8*Ø19	M16	225	24/28	2	160	185	8*Ø23	M20
DN125	250	20/24	2	182	210	8*Ø23	M20	270	26/30	2	195	225	8*Ø25	M22
DN150	280	22/26	2	212	240	8*Ø23	M20	305	28/32	2	230	260	12*Ø25	M22
DN200	330	22/26	2	262	290	12 * Ø23	M20	350	30/34	2	275	305	12*Ø25	M22
DN250	400	24/30	2	324	355	12*Ø25	M22	430	34/38	2	345	380	12*Ø27	M24
DN300	445	24/32	3	368	400	16*Ø25	M22	480	36/40	3	395	430	16*Ø27	M24
DN350	490	26/34	3	413	445	16*Ø25	M22	540	40/44	3	440	480	16*Ø33	M30
DN400	560	28/36	3	475	510	16 * Ø27	M24	605	46/50	3	495	540	16*Ø33	M30
DN450	620	30/38	3	530	656	20*Ø27	M24	675	48/54	3	560	605	20*Ø33	M30
DN500	675	30/40	3	585	620	20 * Ø27	M24	730	50/58	3	615	660	20 * Ø33	M30
DN600	795	32/44	3	690	730	24*Ø33	M30	845	54/66	3	720	770	24*Ø39	M36



ANSI														
公称通径 Nominal Size	150LB RF							300LB RF						
	D	Т	t	d	К	n*Ø	螺栓 尺寸 Bolt Size	D	Т	t	d	К	n*Ø	螺栓 尺寸 Bolt Size
DN15	89	12	1.6	35	60.5	4*Ø15	M12	95	15	1. 6	35	66. 7	4*Ø19	M16
DN20	98	13	1.6	43	70	4*Ø15	M12	117	16	1.6	43	82. 5	4*Ø19	M16
DN25	108	15	1.6	51	79.5	4*Ø15	M12	124	17	1.6	51	89	4*Ø19	M16
DN32	118	16	1.6	63. 5	89	4*Ø15	M12	133	19	1.6	64	98. 4	4*Ø19	M16
DN40	127	18	1.6	73	98. 5	4*Ø15	M12	156	21	1.6	73	114. 5	4*Ø23	M20
DN50	152	20	1.6	92	120. 5	4*Ø19	M16	165	22	1.6	92	127	8*Ø19	M16
DN65	178	23	1.6	105	139. 5	4*Ø19	M16	191	25	1.6	105	149	8*Ø23	M20
DN80	190	24	1.6	127	152. 5	4*Ø19	M16	210	29	1.6	127	168	8*Ø23	M20
DN100	229	24	1.6	157	190. 5	8*Ø19	M16	254	32	1.6	157	200	8*Ø23	M20
DN125	254	24	1.6	196	216	8*Ø23	M20	279	35	1.6	186	235	8*Ø23	M20
DN150	279	26	1.6	216	241.5	8*Ø23	M20	318	37	1.6	216	270	12*Ø23	M20
DN200	343	29	1.6	270	298. 5	8*Ø23	M20	381	41	1.6	270	330	12*Ø25	M22
DN250	406	31	1.6	324	362	12*Ø25	M22	445	48	1.6	324	387. 5	16*Ø30	M27
DN300	483	32	1.6	381	432	12*Ø25	M22	521	51	1.6	381	451	16*Ø33	M30
DN350	533	35	1.6	413	476	12*Ø29	M27	584	54	2	413	514. 5	20*Ø33	M30
DN400	579	37	1.6	470	540	16*Ø29	M27	648	58	2	470	571. 5	20*Ø35	M33
DN450	635	40	1.6	533	578	16*Ø32	M30	711	61	2	533	628. 5	24 *Ø 35	M33
DN500	699	43	1.6	584	635	20 *Ø 32	M30	775	64	2	584	686	24 *Ø 35	M33
DN600	813	48	1.6	692	749.5	20 *Ø 35	M33	914	70	2	692	813	24*Ø41	M39



ANSI 续															
公称通径	600LB RF								900LB RF						
Nominal Size	D	Т	t	d	К	n*Ø	螺栓 尺寸 Bolt Size	D	Т	t	d	К	n*Ø	螺栓 尺寸 Bolt Size	
DN15	95	21	6. 4	35	66. 5	4*Ø19	M16	120. 6	29	6. 4	35	82. 5	4*Ø23	M20	
DN20	117	22	6. 4	43	82. 5	4*Ø19	M16	130	33	6. 4	43	89	4*Ø23	M20	
DN25	124	24	6. 4	51	89	4*Ø19	M16	149. 3	35	6. 4	51	102	4*Ø25	M22	
DN32	133	27	6. 4	64	98	4*Ø19	M16	158. 7	35	6. 4	64	111.2	4*Ø25	M22	
DN40	156	29	6. 4	73	114. 5	4*Ø23	M20	177. 8	38	6. 4	73	124	4*Ø28	M24	
DN50	165	32	6. 4	92	127	8*Ø19	M16	216	45	6. 4	92	165	8*Ø25	M22	
DN65	191	35	6. 4	105	149	8*Ø23	M20	244. 3	48	6. 4	105	190.5	8*Ø28	M24	
DN80	210	38	6. 4	127	168	8*Ø23	M20	241.3	45	6. 4	127	190.5	8*Ø25	M22	
DN100	273	45	6. 4	157	216	8*Ø25	M22	292	51	6. 4	157	235	8*Ø32	M30	
DN125	330	51	6. 4	186	266. 5	8*Ø30	M27	349	59	6. 4	186	279.4	8*Ø35	M33	
DN150	356	54	6. 4	216	292	12*Ø33	M30	381	63	6. 4	216	317.5	12*Ø32	M30	
DN200	419	62	6. 4	270	349	12*Ø36	M33	469.9	71	6. 4	270	393. 7	12*Ø38	M36	
DN250	508	70	6. 4	324	432	16*Ø36	M33	546. 1	77	6. 4	324	470	16*Ø38	M36	
DN300	559	73	6. 4	381	489	20*Ø36	M33	609.6	86	6. 4	381	533. 4	20*Ø38	M36	
DN350	603	77	6. 4	413	527	20*Ø38	M36	641.3	94	6. 4	413	559	20*Ø41	M39	
DN400	686	83	6. 4	470	603	20*Ø41	M39	704. 8	96	6. 4	470	616	20*Ø44	M42	
DN450	743	89	6. 4	533	654	20*Ø44	M42	787. 4	108	6. 4	533	686	20*Ø51	M48	
DN500	813	96	6. 4	584	724	24*Ø44	M42	857. 2	114	6. 4	584	749.3	20*Ø54	M52	
DN600	940	108	6. 4	692	838	24*Ø52	M48	1041.4	147	6.4	692	902	20*Ø67	M64	

终端用户信息 User's mes	ssage									
代表机构 Agency:		联系方式 Contact:								
终端用户 User:		联系方式 Contact:								
交期要求 Delivery Requests:		数 量 Quantity:								
规格型号 Specification:		位 号 # Tag No.:								
进程信息 Process message										
介质 Fluid 【二气体 gas 【二 液体 lic	quid □ 固体 solid	固含量 solid content% p H								
比重 Proportion: S	Gmin	S G nor								
操作温度 Oper.T 🔲 ° F 🔲 ° C T	min	T nor			T max					
最大可能的温差 Max.Diff.T	在 at		分钟 minu	ıte [小时 hour					
上游压力 Inlet P. (P1) psi k	g/cm ²		P1 min	P1 r	nor	P1 max				
下游压力 Outlet P. (P2) psi k	g/cm ²		P2 min	P2 1	nor	P2 max				
压差 Diff. P. (△P) □ psi □ k	g/cm ²		△Pmin	\triangle F	Pnor \triangle Pmax					
最大关闭压力Max. Shut-off P.(Pmax	x)		粘度 Viscosity (
流量 Flow rate (Q) GPM I m	³ /h		Q min	Q no	or	Q max				
预 计 周 期 每 小 时 次 数 Estimated cycles of per hour:										
目前使用的阀门品牌 Valve Brand Currently in Use: 平均使用寿命 Average Service Life:										
阀门自动化 Valve Automation										
□ 开 –关操作 On-Off Operation □ 节流操作 Throttle Operation □ 手动操作 Manual C										
■ 故障关 Fail Closed	□ 故障开 Fail Open □ 双作用 Dual Action									
可供空气 Air Supply (psi)	4-20mA 控制信	言号 4-20m	A Control Signal	3-1	15psi 控制信号	3-15 p si Control Signal				
管道及安装 Pipeline and Instal	lation									
管线尺寸 (英寸): Size (inch)	连接方式: Conn.	Conn.								
法兰等级和密封面: Flange Grade&Seal	阀门安装方式: Installation Form									
管线是否定期清洗? Is the pipeline cleaned regularly?	冲洗介质 Flushing Medium:			介质 erature	的温度					
定期维修关闭的频率: Frequency of Regular Maintenance Shutdown	n:									
列出您所需要的阀门品牌和型号规格及 最高及性能最好的产品。	及其他相关的信息,這	对我们在:	为您推荐和选型的	寸非常	重要,以便给	念选择性价比				
Please fill in those tables, so that we can	select the products v	vith the hig	hest price ratio ar	nd the	best performa	nce for you.				
致山野用户 To users										
建议阀门尺寸Body size:	Cv nor Cv min									
陶瓷材料 Ceramic material:	阀杆材质 Stem material:									
执行器 Actuator:	定位器 Positioner:									
质保期 Guaranteeing:	交货期 Delivery date:									
批准人 Approver:	批准日期 Delivery date:									

1.決定閥門安裝使用壽命長短很關鍵的一點是閥門安裝。安裝不當使閥性能降低的可能性很大,如在安裝過程中適當的加以注意便會提高閥門運行的可靠性;

安裝維護使用説明

- 1. The key point of valve service life is valve installation. Improper installation may reduce valve performance. If proper attention is paid during installation, the reliability of valve operation will be improved.
- 2.在閥門安裝之前確認閥門是否處於良好的工作狀態是非常重要的,下列常用的幾點要求對避免閥門後續發生問題是有幫助的:
- 2. It is very important to confirm whether the valve is in good working condition before the valve is installed. The following common requirements are helpful to avoid subsequent problems of the valve:
- a.小心拆卸閥門防護物品,對照材料標籤及標牌;
- a. Remove valve protective articles carefully and check the objects and labels.
- b.必須注意附在閥門上或隨同一起的專用警示標籤或標牌,並採取適當的措施;
- b. Attention must be paid to the special warning labels attached to or along with the valves and appropriate measures must be taken
- c.檢查閥門流向標誌,如標出流動方向,則應按照流向安裝閥門;
- c. Check the flow direction sign of the valve. If the flow direction is indicated, the valve should be installed according to the flow direction.
- d.安装时应清洁内腔和密封面,检查填料是否压紧,连接螺栓是否均匀拧紧;
- d. Installation should clean the inner cavity and sealing surface, check whether the packing is tightened and whether the connecting bolts are tightened evenly.
- e.阀门应按照允许的工作位置安装,但须注意检修和操作的方便;
- e. Valves should be installed in accordance with the allowable working position, and attention should be paid to the convenience of maintenance and operation;
- f.在开启或关闭时旋转手轮,不宜借助其它辅助杠杆;
- f. Rotating the handwheel when opening or closing, it is not advisable to use other auxiliary levers.
- q.若可行透過閥門操作器進行全開-全關-全開循環操作檢查閥門性能是否正常。注意運行中要避免閥門損傷;
- g. If it is feasible to conduct open-close-open cycle operation through the valve operator to check whether the valve performance is normal, but avoid valve damage in operation;
- h.在即將安裝閥門前,檢查與閥相連接管道是否定位正確,是否清潔且管路無異物;
- h. Before installing the valve, check whether the pipeline connected with the valve is positioned correctly, whether it is clean.
- i.安装后应定时检修,清楚内腔的污垢,检查密封面,阀杆螺母磨损情况。
- i. After installation, regular inspection should be carried out to remove the dirt in the inner chamber, check the sealing surface and check the wear and tear of the stem nut.

注意事項 Notes

- 1. 除非需要檢查和安裝閥門, 建議不要拆卸閥門保護端蓋;
- 1. Unless valves need to be inspected and installed, it is recommended not to remove the valve cover.
- 2. 如果閥門必須放在室外, 則應將閥門支撐起來不與地面或路面接觸, 並使用防水罩加以防護;
- If the valve must be placed outdoors, it should be supported without contact with the ground or road surface and protected by a waterproof cover.
- 55

- 3. 阀门一般应在管路安装之前定位。配管要自然,位置不对不能硬扳,以免留下预应力;
- 3. Valves should generally be positioned before pipeline installation. Piping should be natural, not hard pulled in the wrong position, so as not to leave the prestressing force.
- 4. 在拧紧压紧螺钉时, 阀门应处于微开状态, 以免压坏阀顶密封面;
- 4. When tightening the pressure screw, the valve should be in a slightly open state to avoid damaging the sealing surface of the valve top.
- 5. 所有阀门就位后,应再作一次启闭,灵活无卡住现象为合格;
- 5. After all valves are in place, they should be opened and closed again. Flexibility without stuck is qualified.
- 6. 严禁在安装时把阀杆当脚手架攀登;
- 6. It is strictly forbidden to climb the valve stem as scaffolding during installation.
- 7. 200°C以上的高温阀门,由于安装时处于常温,而正常使用后,温度升高,螺栓受热膨胀,间隙加大,所以必须再次拧紧,叫做"热紧",操作人员要注意这一工作,否则容易发生泄露;
- 7.High temperature valves above 200 °C must be tightened again because they are installed at normal temperature, and after normal use, the temperature rises, the bolt expands and the clearance increases, so they are called "hot tightening". Operators should pay attention to this work, otherwise they are easy to leak.
- 8. 天气寒冷时,水阀长期闭停,应将阀后积水排除。汽阀停汽后,也要排除凝结水。阀底有如丝堵,可将它打开排水;
- 8. When the weather is cold, the water valve closes for a long time, and the backwater behind the valve should be removed. Condensate water should also be excluded after the steam valve stops. If there is plug at the bottom of the valve, it can be opened to drain off.
- 9. 陶瓷阀门操作时,开闭力不能太大,尤其不能使猛劲。还要注意辟免陶瓷端面磕碰;
- 9. When the ceramic valve is operated, the opening and closing force should not be too large. Attention should also be paid to avoiding the bumping of ceramic ends.
- 10. 新阀门使用时,填料不要压得太紧,以不漏为度,以免阀杆受压太大,加快磨损,而又启闭费劲;
- 10. When the new valve is applying, the packing should not be pressed too tightly to avoid leakage, so as to avoid too much pressure on the valve stem, accelerate wear and tear, and make it difficult to open and close.
- 11. 閥門長期保持在某個位置不動的閥門, 其操作性在某種程度上可能會下降, 這是由於閥軸失去有效潤滑、填料老化、運行部位腐蝕或有害物堆積而造成。若有此種使用場合最好制定這類閥門週期性的部分或全部循環操作計畫。
- 11. Valves that remain in a fixed position for a long time may decrease their operability to a certain extent due to loss of effective lubrication of the valve shaft, ageing of fillers, corrosion of the operating parts or accumulation of harmful substances. It is advisable to make periodic partial or full cycle operation plans for such valves

