

F40系列 衬四氟球阀 法兰式、全通径

F40 series PTFE lined ball valve flange type, full bore

轶野控制阀门(上海)有限公司
YEAH CONTROL VALVE (SHANGHAI) CO., LTD.

Unit:mm



概述及应用

衬四氟球阀可分为对分二片式和三片式两种结构型式，除具有的流体阻力小，启闭速度快，结构简单外，采用FEP衬里层的球阀，具有极高的化学稳定性，可以适用除“熔融碱金属和元素氟”，以外其它任何强腐蚀性性质。

采用全通径、浮动球结构，阀门可在整个压力范围内进行无泄漏关闭，更便于管路系统的通球扫线和管路维护。

启闭件球与阀杆铸（锻）为一体，杜绝了由于压力变化引起阀杆冲出承压件内的可能性，从根本上保证了工程中的使用安全性。

结构紧凑合理，阀体内腔空间最小，减小了介质滞留，另外，特殊的模压工艺，使密封面致密度良好，加之人字环形PTFE填料组合，使阀门达到零泄漏。

技术参数 Technical Parameters

公称通径 Nominal diameter	DN15~DN200
压力等级 Pressure grade	PN16
工作温度 Operating temperature	-190℃~250℃
连接方式 Connection	法兰 Flange
密封形式 Sealing	PTFE PCTFE FEP PO
主要材质 Main materials	碳钢、不锈钢 Carbon steel, stainless steel

Overview and Application

PTFE lined ball valves can be divided into two-piece and three piece structural types. In addition to having low fluid resistance, fast opening and closing speed, and simple structure, ball valves with FEP lining layer have extremely high chemical stability and can be applied to any strong corrosive properties except for "molten alkali metals and elemental fluorine". Adopting a full bore and floating ball structure, the valve can be closed without leakage throughout the entire pressure range, making it easier for the pipeline system to pass through the ball and maintain the pipeline. The opening and closing ball parts are integrated with the valve stem cast (forged), eliminating the possibility of the valve stem being ejected from the pressure bearing parts due to pressure changes, fundamentally ensuring the safety of use in engineering. The structure is compact and reasonable, with the smallest internal space of the valve body, reducing medium retention. In addition, the special molding process ensures good density of the sealing surface, and the combination of herringbone ring PTFE packing enables the valve to achieve zero leakage.

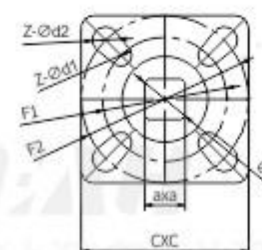
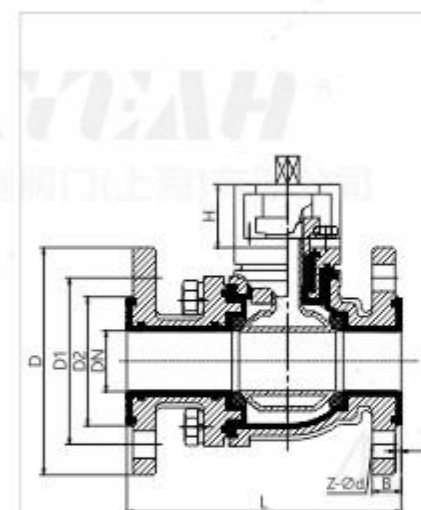
产品认证 Product Certification

TUV IEC61508-SIL3安全
完整性功能认证
TUV ISO15848低泄漏认证
TUV API607防火认证

TUV IEC61508-SIL3 Certification
of safety and integrated functions
TUV ISO15848 Low-leakage
certification
TUV API607 Fireproofing certification



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DN	L	D	D1	D2	f	B	Z-Φd	H	F1	Z-Φd1	F2	Z-Φd2	axa	ΦA	CxC
15	140	95	65	45	3	16	4-14	58	50	4-9	-	-	14	18	50
20	140	105	75	55	3	18	4-14	58	50	4-9	-	-	14	18	50
25	150	115	85	65	3	18	4-14	62	50	4-9	70	4-10	14	18	65
32	165	140	100	75	3	18	4-18	62	50	4-9	70	4-10	14	18	65
40	180	150	110	85	3	18	4-18	63	50	4-9	70	4-10	17	22	70
50	200	165	125	100	3	18	4-18	63	50	4-9	70	4-10	17	22	70
65	220	185	145	120	3	18	8-18	70	102	4-12	125	4-14	17	22	118
80	250	200	160	135	3	20	8-18	76	102	4-12	125	4-14	22	29	118
100	280	220	180	155	3	20	8-18	76	102	4-12	125	4-14	22	29	118
125	320	250	210	185	4	22	8-18	90	125	4-14	140	4-18	36	49	130
150	360	285	240	210	4	22	8-22	90	125	4-14	140	4-18	36	49	130
200	457	340	295	265	4	24	8-22	140	140	4-18	165	4-22	36	49	165

氟塑料衬里性能表 Performance Table of Fluoroplastic Lining

耐化学性能								
	介质	浓度(%)	温度	PTFE	PCTFE	PVDF	FEP	PEA
耐腐蚀性能	硫酸	10~98	常温~100	A	A-B	A-B	A	A
	硝酸	5~98	常温~100	A	A	A	A	A
	盐酸	10~38	常温~100	A	A	A	A	A
	醋酸	10~100	常温~100	A	A-B	A-B	A	A
	铬酸	50~100	常温~70	A	A-B	A-B	A	A
	磷酸	50~85	常温~100	A-B	A	A	A-B	A-B
	三氯甲烷	100	常温	C	D	D	C	C
	硫酸铜	15	常温	A	B	B	A	A
	二乙醚	100	常温	B	C	C	A	B
	醋酸乙醚	100	常温	B	C	C	C	B
	汽油	100	常温	A	A	A	A	A
	过氧化氢	3~30	常温	A	A-B	A-B	A	A
	王水	-	常温	A	A	A	A	A
	硝基苯	100	常温	A	B	B	A	A
	苛性钠	10~50	常温~100	A	A-B	A-B	A	A
	次氯酸钠	-	70	A	A	A	A	A
	氯磺酸	40~99	-10~30	A-B	B	B	A-B	A-B
	发烟硫酸	20	常温	A	B	B	A	A
	丙烯腈	-	常温	B	C	C	B	B
	苯胺	100	常温	B	B	B	B	B
苯	100	常温	B	C	C	C	B	
醋酸丁酯	100	常温	B	C	C	B	B	
四氯化碳	试剂级	常温	B	C	C	B	B	

A,B,C,D 表示耐腐蚀性能，分别为优、良、可、差四个级别。
A, B, C, D represent corrosion resistance performance, which are classified into four levels: excellent, good, acceptable, and poor.