

Fluorine lined control valve (J641FEP/PFA)

**Main parts and materials**

Name/Material	WCB	CF8	CF3	CF8M	CF3M
Body	WCB	CF8	CF3	CF8M	CF3M
Diaphragm	EPDM+FEP/PFA	EPDM+FEP/PFA	EPDM+FEP/PFA	EPDM+FEP/PFA	EPDM+FEP/PFA
Stem	WCB	CF8	CF3	CF8M	CF3M
Lined	FEP / PFA / PO / PTFE				
Seat	PTFE / RPTFE				
Bolt/Nut	B7/2H	B8/8	B8/8	B8M/8M	B8M/8M

Technical Specification

Design&Manufacture Standard	GB/T12235		API 6D
FTF Dimension Standard	HG/T3704, GB/T12221		ASME B16.10
Flange standard	HG/T20592, GB/T9119		ASME B16.5, JIS B2220
Inspection & Test Standard	HG/T13927, JB/T9092		API 598
Normal Diameter	DN15~DN350		1/2"~14"
Normal Pressure	1.0MPa	1.6MPa	150LB
Test pressure	Shell Test	1.5MPa	1.5MPa
	High Pressure Test	1.1MPa	1.1MPa
	Low Pressure Test	0.6MPa	0.6MPa
Temperature Range	FEP:-29℃~120℃, PFA:-29℃~180℃, PTFE:-29℃~150℃		
Applicable Medium	Strong corrosion medium: Hydrochloric acid, Nitric acid, Hydrofluoric acid, Liquid chlorine, Sulfuric acid and Aqua regia etc.		

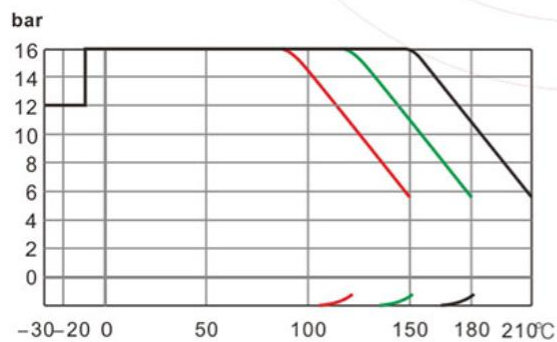
### Technical parameters

Nominal diameter(mm)	20				25	40		50	65	80	100	150		200		
The seat diameter ( mm )	10	12	15	20	25	32	40	50	65	80	100	125	150	200		
Rated flow coefficient ( KV )	A straight line	1.8	2.8	4.4	6.9	11	17.6	27.5	44	69	110	176	275	440	690	
	The percentage of	1.6	2.5	4	6.3	10	16	25	40	63	100	160	250	400	630	
Nominal pressure ( MPa )	0.6、1.0、1.6、2.5 Class150															
Trip ( mm )	16				25				40				50			
Flow characteristics	A straight line、The percentage of															
Medium temperature ( °C )	-20°C-180°C ( According to the liner material and)															
The standard flange	Jb78 GB/T9113 HG20592-97 ANSI B16.5a															

### Performance parameters

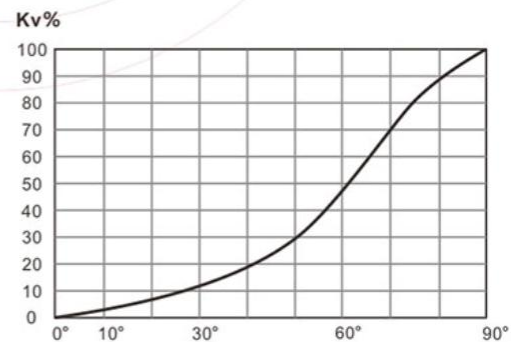
Project	ZH <sub>6</sub> -22	ZH <sub>6</sub> -23	ZH <sub>6</sub> -34	ZH <sub>6</sub> -45
The basic error%	≤ ±5			
Return difference%	≤ 3			
The dead zone%	≤ 5			
Rated flow coefficient error	-2 ≤ ± 10% When Kv ≤ 6.3时 ± 15%			
The amount of leakage	≤ ± 0.01 Rated capacity of valve			

氟材料压力温度曲线  
Pressure-Temperature Curve



真空 Vacuum: 0.1mbar  
备注 Note: — PFA — PTFE — FEP

流量特性图  
Flow Characteristic



阀位角度 Valve Position Angle  
1Cv=1.167Kv



Fluorine single seat pneumatic diaphragm regulating valve

<LKZH<sub>B</sub>F<sub>46-10</sub>>



Fluorine lining pneumatic diaphragm regulating valve film

<LKVT<sub>B</sub>F<sub>46-6</sub>>

**The main connection size**

DN (mm)	PNS (Inch)	L	D	D1	D2	f	b	Z-Φd	H
15	1/2	130	95	65	45	3	15	4-14	400
20	3/4	150	105	75	55	3	17	4-14	450
25	1	160	115	85	65	3	17	4-14	460
32	1-1/4	180	140	100	75	3	19	4-18	500
40	1-1/2	200	150	110	85	3	19	4-18	5290
50	2	230	165	125	100	3	21	4-18	600
65	2-1/2	290	185	145	120	3	21	4-18	625
80	3	310	200	160	135	3	21	8-18	325
100	4	350	220	180	155	3	23	8-18	850
125	5	400	250	210	185	4	24	8-18	950
150	6	480	285	240	210	4	26	8-23	1050
200	8	600	340	295	265	4	26	8/12-23	1200