



TIANJIN FREYA AUTOMATION TECHNOLOGY CO., LTD.

Tell: 022-27901003

Mail: tjfreya@tj-bnd.com

Web: www.tj-bnd.com

Add: Industrial Park, Zhongbei Town, Xiqing District, Tianjin

FRY·弗瑞亚
Electric Actuator

Plunger Valve
Plug Valve

Product Catalog



TIANJIN FREYA AUTOMATION TECHNOLOGY CO., LTD.

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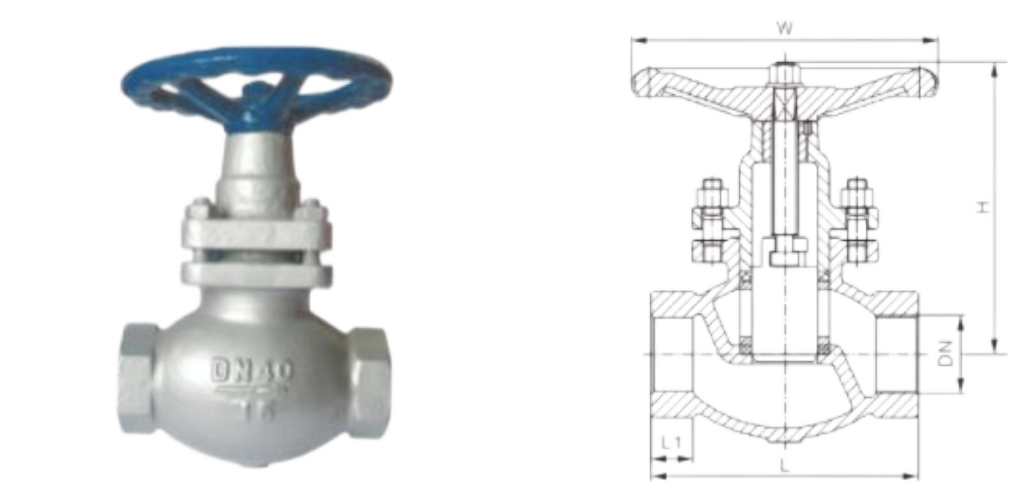
COMPANY PROFILE

Founded in 2014, Freya specializes in fluid control products and services such as valves, actuators, electric valve actuators, and electric valves. It focuses on the process industry and has long been committed to providing services to process industries such as power, steel, building materials, and water treatment to provide professional fluid control solutions. Based on the actual working conditions, through necessary on-site surveying and technical explanations, we provide customers with safe, economical and environmentally friendly selection and design, supply in strict accordance with contract requirements and guide installation and debugging, and hand over for use if standards are met. Thanks to the trust of the vast number of users, through long-term and large-scale on-site services, and the effective accumulation of technical experience, the company has an accurate understanding of the real needs and pain points of users and the market, as well as expectations for equipment manufacturers.

The company based on its own patent R & D and production of intelligent electric actuators, reliable, durable, easy to use, cost-effective and guaranteed service. Being close to users, providing full-process services, cover-all services, repair and maintenance value-added services, and escorting users' production are our differentiating advantages. Freya intelligent electric actuator and electric valve actuator provide a two-year warranty and lifetime free after-sales service after installation and commissioning. Technical quality and commercial credit are the two foundations on which the company relies to survive and drive the development of the company. Users feel reassured, worry-free and happy, which are the only criteria to evaluate the effectiveness of our work and demonstrate the value of our existence.



FEMALE THREADED PLUNGER VALVE



Performance specifications

Valve body	Suitable temp.	Suitable media	Pressure range
Cast steel	≤250℃	Water, steam, oil	1.6-6.4MPa
Cast iron	≤180℃	Water, steam, oil	1.6MPa
Stainless steel	≤200℃	Nitric acid, acetic acid	DN
Molybdenum-containing stainless steel	≤200℃	Nitrogen, hydrogen, urea, etc.	DN15-300

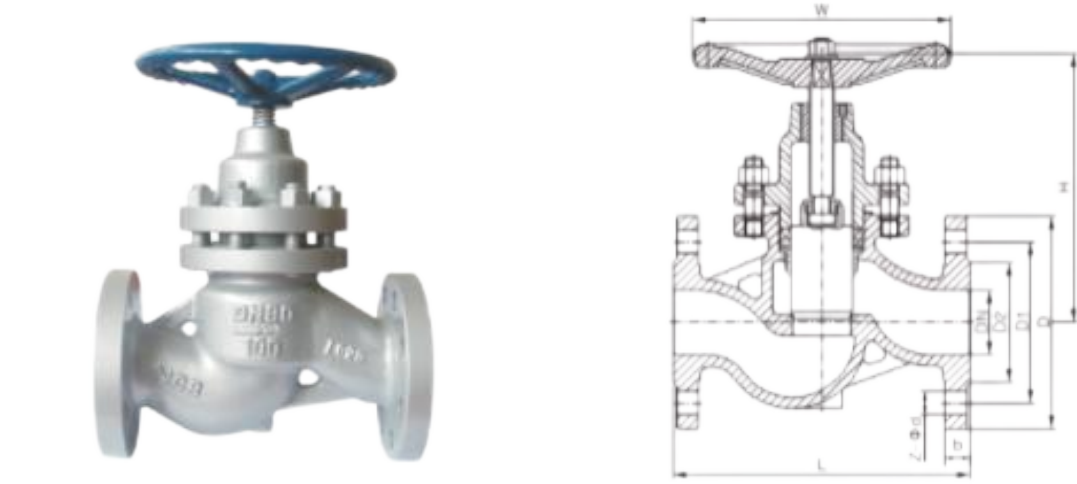
Test pressure

Items	Test media	Test pressure
Pressure test	Water	1.5MPa
High pressure sealing test	Water	1.1MPa
Low pressure air sealing test	Air	0.5-0.7MPa

Main dimensions

DN	L	L1	W	Pipe thread inch	H	H1	Weight Kg
15	90	14	80	15	1/2"	133	2.1
20	100	16	100	20	3/4"	141	2.8
25	120	18	120	Stem	1"	165	3.8
32	140	20	140	Gasket	1-1/4"	179	5.8
40	170	22	160	Bolt	1-1/2"	198	8.3
50	200	24	200	Temperature	2"	226	13.2

PLUNGER VALVE



Product specification

Product specifications	Design	Face to Face	Flange Ends	Butt Welding End	Test & Check
	GB/T 12224 GB/T 12235	GB/T 12221	GB/T 9113 JB/T 79 HG/T20592	GB/T 12224	GB/T 26480 GB/T 13927 JB/T9092

1.6MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
UJ41H-16C UJ41W-16C UJ41W-16P UJ41W-16R	15	130	95	65	45	14	4-14	133	3.6
	20	150	105	75	55	14	4-14	170	4.5
	25	160	115	85	65	14	4-14	178	6
	32	180	135	100	78	16	4-18	195	8
	40	200	145	110	85	16	4-18	230	11
	50	230	160	125	100	16	4-18	250	15
	65	290	180	145	120	18	4-18	272	21
	80	310	195	160	135	20	8-18	300	32
	100	350	215	180	155	20	8-18	312	44
	125	400	245	210	185	22	8-18	365	62
	150	480	280	240	210	24	8-23	400	85
	200	600	335	295	265	26	12-23	460	148
	250	650	405	355	320	30	12-25	940	260
	300	698	460	410	375	30	12-25	985	340
	350	787	520	470	435	34	16-25	1100	552
	400	914	580	525	485	36	16-30	1395	752
	450	978	640	585	545	40	20-34	1480	1200
	500	978	705	650	608	44	20-34	1600	1400

2.5MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	Weight Kg
UJ41H-25C UJ41W-25C UJ41W-25P UJ41W-25R	15	130	95	65	45	14	4-14	133	3.6
	20	150	105	75	55	14	4-14	170	4.5
	25	160	115	85	65	14	4-14	178	6
	32	180	135	100	78	18	4-18	195	8
	40	200	145	110	85	18	4-18	230	11
	50	230	160	125	100	20	4-18	250	16
	65	290	180	145	120	22	8-18	272	22
	80	310	195	160	135	22	8-18	300	32
	100	350	230	190	160	24	8-18	312	48
	125	400	270	220	188	24	8-18	365	65
	150	480	300	250	218	30	8-23	410	90
	200	600	360	310	278	34	8-25	470	165
	250	650	425	370	332	36	12-30	940	280
	300	698	485	430	390	40	16-30	1000	360
	350	787	550	490	448	44	16-34	1140	580
	400	914	610	550	405	48	16-34	1400	800
	450	978	660	600	555	50	20-34	1500	1280
	500	978	730	600	610	52	20-41	1620	1450



Performance specifications

Model	PN(MPa)	Shell pressure	Sealing pressure	Suitable meida	Working temp.
X43W-1.0T	1.0	1.5	1.1	Water, steam, oil	≤100℃
X43T-1.0	1.0	1.5	1.1	Water, steam, oil	≤100℃
X43W-1.0	1.0	1.5	1.1	Gas, oil	≤100℃
X43W-1.0C	1.0	1.5	1.1	Gas, oil	≤100℃
X43T-1.0P	1.0	1.5	1.1	Nitric Acid	≤100℃
X43W-1.0R	1.0	1.5	1.1	Acetic acid	-20-150℃

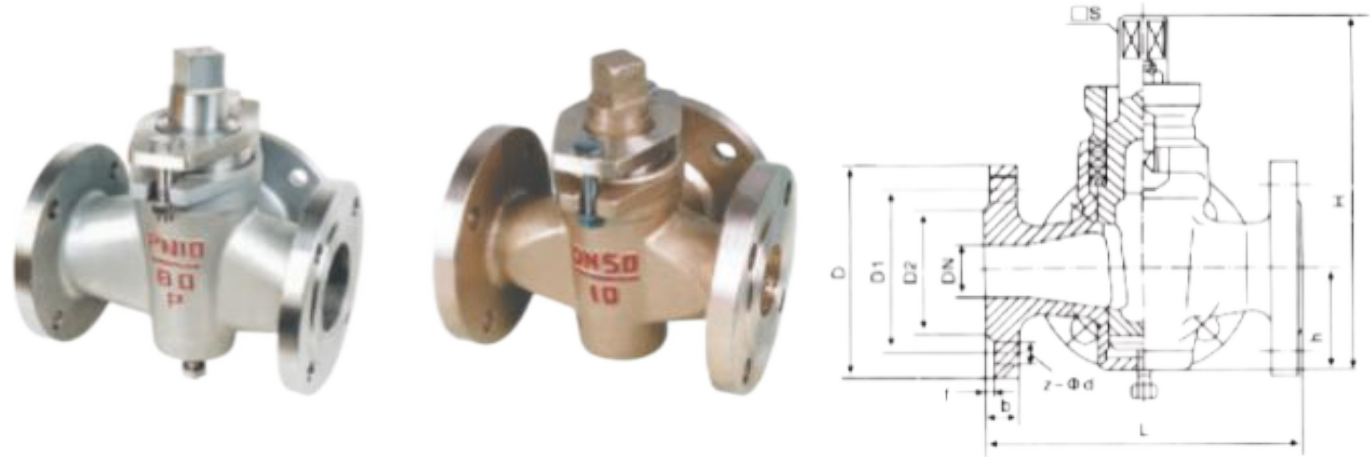
Main parts material

Model	Valve body	Plug	Packing gland	Packing
X43W-1.0T	Cast copper	Cast copper	Cast copper	Flexible graphite Oil-impregnated asbestos packing
X43T-1.0	Cast iron	Cast iron	Cast iron	
X43W-1.0	Cast iron	Cast iron	Cast iron	
X43W-1.0C	Cast steel	Cast steel	Malleable cast iron	
X43T-1.0P	Chromium-nickel-titanium stainless steel	Chromium-nickel-titanium stainless steel	Chromium-nickel-titanium stainless steel	
X43W-1.0R	Chromium-nickel-molybdenum-titanium stainless steel	Chromium-nickel-molybdenum-titanium stainless steel	Chromium-nickel-molybdenum-titanium stainless steel	

TWO WAY FALNGE PLUG VALVE

Model	DN mm	L	D	D1	D2	f	b	Z-φd	h	H
X43W-1.0T X43T-1.0 X43W-1.0 X43W-1.0C X43T-1.0P X43W-1.0R	15	80	95	65	45	2	14	4-14	26	99
	20	90	105	75	55	2	16	4-14	34	124
	25	110	115	85	65	2	16	4-14	38	133
	32	115	135	100	78	2	18	4-18	45	152
	40	150	145	110	85	3	18	4-18	55	212
	50	170	160	125	100	3	20	4-18	74	260
	65	220	180	145	120	3	20	4-18	82	295
	80	250	195	160	135	3	22	4-18	95	327
	100	300	215	180	155	3	24	8-18	135	425
	125	350	245	210	185	3	24	8-18	154	482
	150	400	280	240	210	3	24	8-23	172	512
	200	480	335	295	265	3	24	8-23	195	605
	250	530	390	355	320	3	28	12-23	230	660
	300	610	440	410	368	3	30	12-23	263	760

THREE WAY FLANGE PLUG VALVE



Performance specifications

Model	PN(MPa)	Shell pressure	Sealing pressure	Suitable meida	Working temp.
X44W-1.0T	1.0	1.5	1.1	Water, steam, oil	≤100℃
X44T-1.0	1.0	1.5	1.1	Water, steam, oil	≤100℃
X44W-1.0	1.0	1.5	1.1	Gas, oil	≤100℃
X44W-1.0C	1.0	1.5	1.1	Gas, oil	≤200℃
X44T-1.0P	1.0	1.5	1.1	Nitric Acid	≤250℃
X44W-1.0R	1.0	1.5	1.1	Acetic acid	-20-150℃

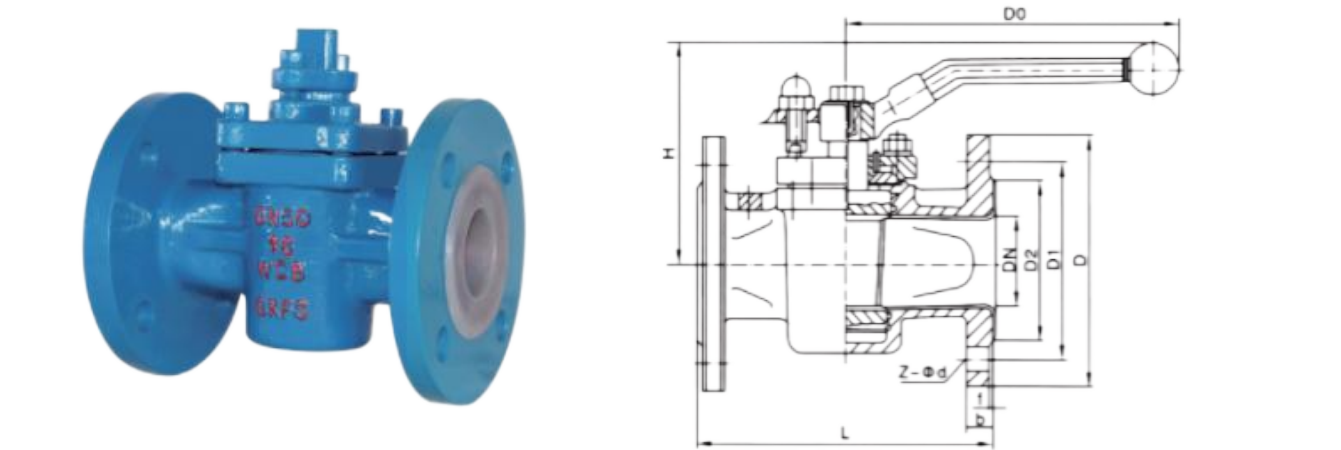
Main parts material

Model	Valve body	Plug	Packing gland	Packing
X44W-1.0T	Cast copper	Cast copper	Cast copper	Flexible graphite Oil-impregnated asbestos packing
X44T-1.0	Cast iron	Cast copper	Cast iron	
X44W-1.0	Cast iron	Cast iron	Cast iron	
X44W-1.0C	Cast steel	Cast steel	Malleable cast iron	
X44T-1.0P	Chromium-nickel-titanium stainless steel	Chromium-nickel-titanium stainless steel	Chromium-nickel-titanium stainless steel	
X44W-1.0R	Chromium-nickel-molybdenum-titanium stainless steel	Chromium-nickel-molybdenum-titanium stainless steel	Chromium-nickel-molybdenum-titanium stainless steel	

THREE WAY FLANGE PLUG VALVE

Model	DN mm	L	D	D1	D2	Z-φd	h	H
X44W-1.0T X44T-1.0 X44W-1.0 X44W-1.0C X44T-1.0P X44W-1.0R	15	145	95	65	45	4-14	26	99
	20	145	105	75	55	4-14	34	124
	25	145	115	85	56	4-14	38	133
	32	165	135	100	78	4-18	45	152
	40	190	145	110	85	4-18	55	212
	50	200	160	125	100	4-18	74	260
	65	230	180	145	120	4-18	82	295
	80	260	195	160	135	4-18	95	327
	100	300	215	180	155	8-23	135	425
	125	350	245	210	185	8-23	154	482
	150	400	280	240	210	8-23	172	512
	200	480	335	295	265	8-23	195	605
	250	530	390	350	320	8-23	230	660
	300	610	440	400	368	8-23	263	760

FLUORINE LINED PLUG VALVE



Product specification

Product specification	Design	Face to Face	Flange Ends	Pressure test	Drive method
	GB/T 12240	GB/T 12221	JB/T 79-78 GB/T 9113.1-26	GB/T 13927	Manual, electric, pneumatic

Main parts material

Name	Material
Valve body	Gray cast iron, cast steel, stainless steel, lined with F46, F3
Plug	Gray cast iron, cast steel, stainless steel, lined with F46, F3
Valve bonnet	Gray cast iron, cast steel, stainless steel
Packing gland	F4

DN mm	L	D	D1	D2	f	b	Z-φd	D0	H
20	150	105	75	50	3	14	4-14	160	95
25	160	115	85	65	3	14	4-14	160	98
32	170	135	100	70	3	16	4-18	220	113
40	180	145	110	80	3	18	4-18	250	135
50	210	160	125	100	3	20	4-18	250	140
65	220	180	145	120	3.5	20	4-18	300	145
80	250	195	160	135	3.5	22	4-18	330	205
100	275	215	180	155	4	24	8-18	350	240
125	310	245	210	185	4	26	8-18	400	260
150	350	280	240	210	4	28	8-23	600	290
200	457	335	295	265	4.5	30	8-23	800	330
250	533	390	350	320	4.5	32	12-23	900	380