

API Plug Valve & APIY Strainer Series







Product structural features

Inverted pressure balance bricated plug valve acc. to ANSI is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical frertilizer, electric power industry etc under nominal pressure of CLASS150–1500LBS and working temperature of -29~180°C.

Main structural features.

- 1, It has logical structure, reliable seal, excellent performance and nice design.
- 2. It has the structure of flip-chip balanceable pressure and light on/off operation.
- 3. An oil groove is set between valve body and seal surface, which may infuse the seal grease to increase the seal capability.
- 4、 The part material and flange dimension may be selected according to current operating condition and users requirement, so that meet the Requirements of various engineering.

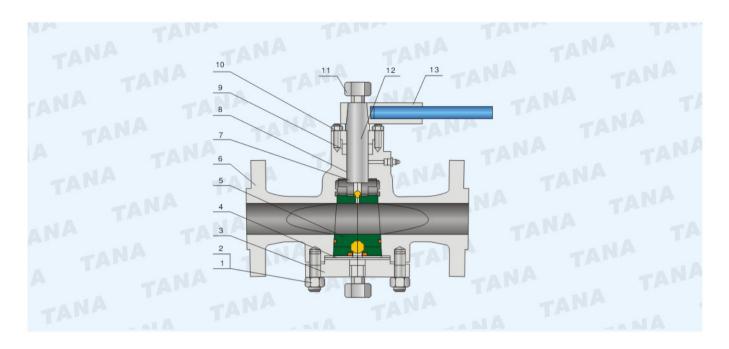
Technical specificastion.

Structural formation	BC
Driving maner	Hand-operated
	Electric-actuated
Design standard	API 599.API 6D
Face to face	ASME B 16.10
Flange ends	ASME B 16.5
Test & inspection	API 598.API 6D

Products performance specification

Nominal pressure (LB)	Shell test(MPa)	Sealing test(NP)	Suitable temp.(°C)	Suitable medium(°C)
150	3.0	2.2		
300	7.5	5.5		Water oil 9 coo
600	15.0	11.0	≤180°C	Water oil & gas
900	22.5	16.5		

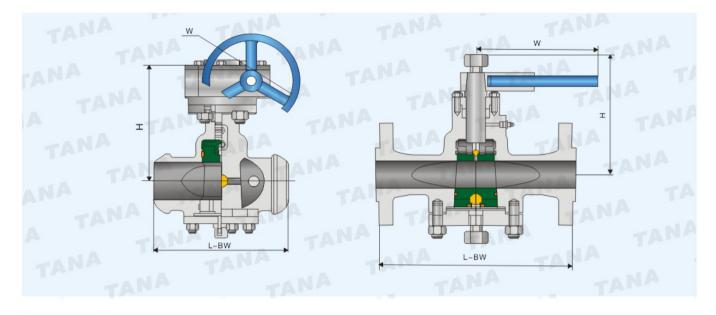




Main parts materials

NO	Partname	Material
1	Bolt	ASTMA193-B7、A19BB、AI93-BBM
2	Nut	ASTMA194-2H、A194-8、A194-8M
3	Cover	ASTM A216–WCB ASTM A351–CF8、CF8M、CF3、CF3M
4	Gasket	Flexble graph ite+stainless steel、PTFE
5	Plug	ASTM AI 82–Gr. F6a ASTM A1 82–F22 ASTM A351–CF8 Cr5M CF3 CF3M
6	Body	ASTM A216–WCB ASTM A351–CF8、CF8M、CF3、CF3M
7	Stem	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304、F316、F312、F304L、F316L
8	O-ring	NBR
9	Packing	Flexible graphite、PTFE
10	Gland	ASTM A216–WCB ASTM A351–CF8、CFB8M、CF3、CF3M
11	Oilnozzle	B62
12	Check valve	F6a、F304、F304L,F316、F316L
13	Wrench	ASTM A47-32510、A216 WCB





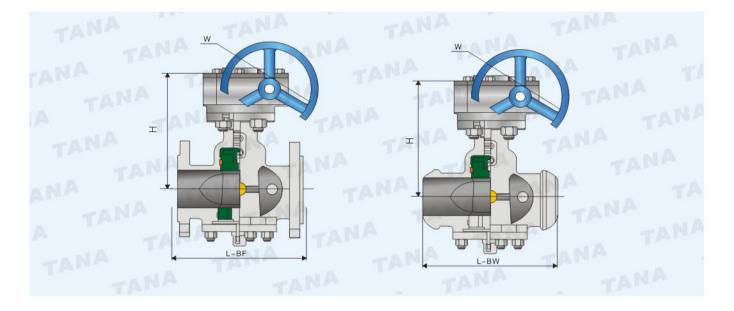
Mo	del		X47F–150Lb													
Pres	sure		150Lb													
0.	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-	RF	108	117	127	140	165	178	190	203	229	245	267	292	330	356	686
L-	BW	152	178	203	216	229	267	305	330	356	381	457	521	559	635	686
ł	н	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	500	600	600	820	820	300	300	320	320	350	380	380
Weight(Kg)		10	12	14	17	19	21	29	33	48	75	98	125	171	230	370

4" or above with worm gear

Mo	del		X47F–300Lb													
Pres	sure		300Lb													
c:	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-	RF	140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
L-	BW	152	178	203	216	229	267	305	330	356	381	457	521	559	635	762
ŀ	4	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380
Weight(Kg)		12	14	16	19	21	24	31	36	61	86	130	190	255	380	560

4" or above with worm gear





Mo	del	X47F-600Lb														
Pres	ssure	600Lb														
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF	·BW	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
	н	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
,	W	400	400	500	500	600	820	1000	1000	300	300	320	320	350	380	380
Weig	Weight(Kg)		16	18	20	24	29	35	47	91	129	210	320	660	920	1250

4" or above with worm gear

Мо	del	X47F–900Lb															
Pres	ssure		900Lb														
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	
L-RF	۰BW	229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029	
I	н	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590	
١	W	400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380	
Weig	Weight(Kg)		29	21	24	30	37	44	65	110	160	255	380	810	1050	1460	

4" or above with worm gear



Product structural features.

Sleeve type soft sealing plug valve acc.to ANSL is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, power industry etc under nominal pressure of CLASS 150–900Lbs, and working temperature of –29~180°C.

Main structural features

1、The product has reasonable structure, reliable sealing, excellent performance and beautiful appearance.

 $2\$ Lts sealing is realized by the sealing face around the sleeve. It has unique 360 degree metal edge for protection and fixing of the sleeve.

3. There is no cavity in the valve for accumulation of medium.

4. Metal edge provides the function of self-cleaning when the plug is rotated, applicable

to the operation condition that is glutinous and apt to smudge.

 $\mathbf{5}$, Lts characteristic double-direction flow makes installation and use more convenient.

6. The materials of the parts and sizes of flanges can be reasonably confgured according the actual operation condition of the requirements of the Customers, so as to

meet hte various needs of engineering.

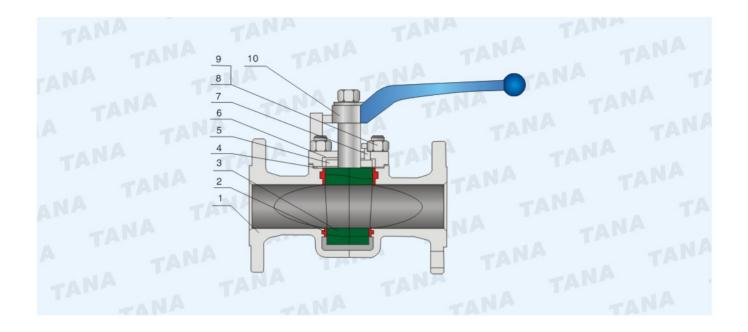
Technical specificastion

Structural formation	BC
Driving maner	Wrench wheel, worm & worm gear, pneumatic, electric-actuated
Desgn standard	API 599, API 6D
Face to face	ASME B16.10
Flange ends	ASME B16.5
Test & inspection	API 598, API 6D

Products performance specification

Nominal pressure	Shell test(MPa)	Sealing test(NPa)	Suitable temp.	Suitable medium
150	3.0	2.2		
300	7.5	5.5	~100%	Water oil & gas
600	15.0	11.0	≤180°C	water on a gas
900	22.5	16.5		

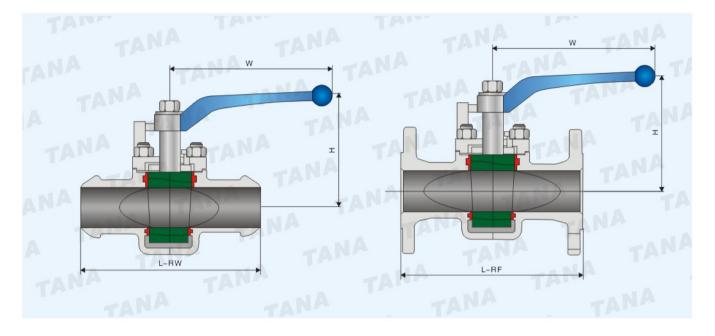




Main parts materials

NO.	Partname	Material
1	Body	ASTM A216 WCB ASTM A351-CF8, CF8M, CF3M
2	Sleeve	PTEF
3	Plug	ASTM A217-WC1, WC6, WC9, C5 ASTM A351-CF8, CF8M, CF3, CF3M
4	Gasket	Flexible graphite+Stainless steel、PTFE
5	Adjusting gasket	ASTM A182–Gr.F6a ASTM A182–F22 ASTM A182–F304, F316, F321, F304L, F316
6	Cover	ASTM A216-WCB ASTM A351-CF8, CF8M, CF3,CF3M
7	Adjusting bolt	ASTM A193–B7, A193–B8, A193–B8M
8	Nut	ASTM A194–2H, A194–8, A194–8M
9	Bolt	ASTM A193–B7, A193–B8, A193–B8M
10	Wrench	ASTM A216-WCB





Мо	odel		X43F-150Lb													
Pres	ssure								150Lb							
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	1 1/2	3	4	5	6	8	10	12	14
L-	-RF	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
L-	-BW	152	178	203	216	229	267	305	330	356	381	394	457	559	635	686
31	н	110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
	W 17		175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weig	iht(Kg)	8.5	8.5 9.5 10.5 12 14 18 22				22	26	40	60	70	130	219	381	570	

4" or above with worm gear

Мо	del		X43F–300Lb														
Pres	sure		300Lb														
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	
Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	
L-	RF	140	152	165	178	190	216	241	282	305	381	403	419	457	502	762	
L-	BW	152	178	203	216	229	267	305	330	356	381	457	521	559	635	762	
1	н	110	115	115	135	140	150	165	180	380	460	520	580	620	680	760	
W		175	175	175	220	280	305	350	405	300	300	320	320	350	380	450	
Weight(Kg)		9.5	10.5	12	14	16	20	24	29	53	75	85	185	230	390	550	

4" or above with worm gear



Product structural features

3-way, 4-way plug valve is applicable to change the media flowing direction or to distribute the media, that are used in various industries such as petroleum chemical industry, pharmacy, chemical fertilizer, power in dustry etc under nominal pressure class 150-900LBS, PN1.6~16MPa, working temperature of -29~550°C.

Main structural features

1. The product has reasonable structure, reliable sealing, excellent performance and beautiful appearance.

- According to different conditions, the 3-way, 4-way plug valve can be designed into diverseful media flowing forms(eg."L"type or"T"type) or all kinds of meterials (eg.lron, cast steel, stainless steel) or unlike sealing froms (eg.Metal to metal, sleeve Type. lubricated. ect)
 The materials of the parts and sizes of flanges can be reasonably configured according the actual operation condition of the requirements of the customers, so
- as to meet the varionus needs of engineering.

Technical specificastion

Structural formation	BB-BC
Driving manner	Wrench wheel, worm & worm gear, pneumatic, electric-actuated
Design standard	API 599, API 6D
Face to face	ASME B16.10、GB12221、DIN3202
Flange ends	ASME B16.5、JB79、GB9113、DIN2543-2545
Test & inspection	API 598、API 6D、GB13927、DIN3230

Products performance specification

Nominal pressure	Shell test	Sealingl test
150	3.0	2.2
300	7.5	5.5
600	15.0	11.0
	26.022	
900	22.5	16.5





