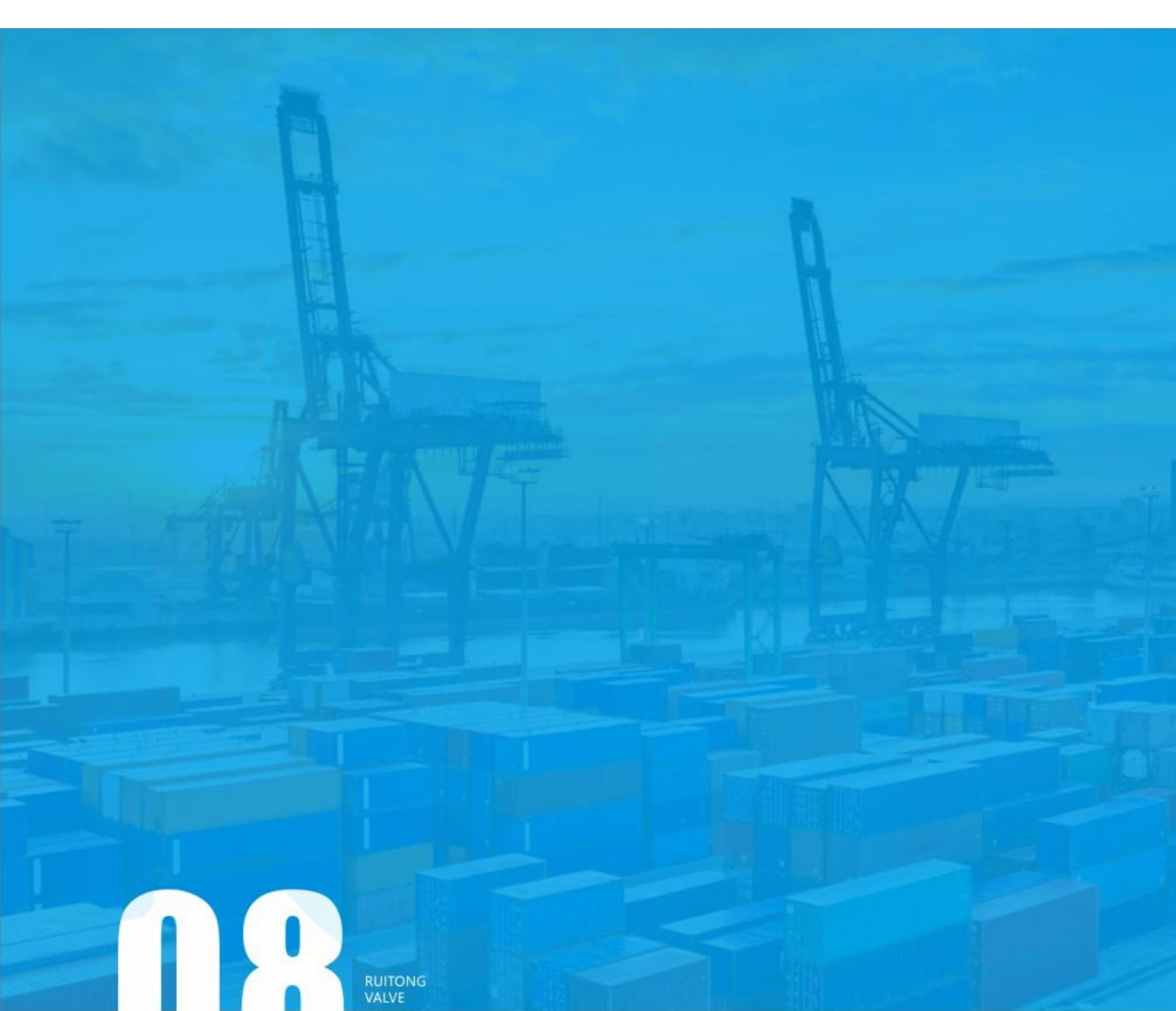




08

RUITONG
VALVE

PLUG VALVE SERIES

RTV

API CARD SLEEVE SOFT SEAL PLUG VALVE

Structural characteristics

The American standard card sleeve soft seal plug valve is suitable for cutting off or connecting pipeline media in various working conditions such as petroleum, chemical, pharmaceutical, fertilizer, and power industries with nominal pressure of CLASS150-900LBS and working temperature of -29 °C~180 °C.

Main structural features

1. The product has a reasonable structure, reliable sealing, excellent performance, and beautiful appearance.
2. Its sealing is achieved through the sealing surfaces around the card sleeve. The unique 360 ° metal lip ensures a fixed card sleeve.
3. The valve does not have a cavity for the medium to accumulate.
4. The metal lip provides self-cleaning function during rotation, suitable for viscous and scaling prone working conditions.
5. Bi directional flow makes installation and use more convenient.
6. The material and flange size of the parts can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

Technical specifications

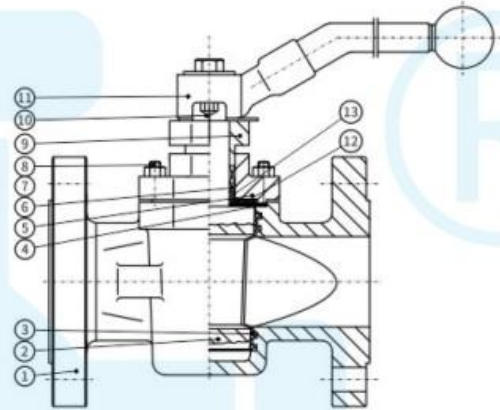
Structural style	BC
Drive mode	Handle, worm gear transmission, pneumatic, electric
Design standards	API599、API6D
Structural length	EN 558 F1/F2/F5
Connecting flange	EN 1092
Testing and Inspection	DIN 3230

Note: The size of the valve connection flange can be designed and manufactured according to user requirements.

Performance specifications

Nominal pressure(LB)	Shell Test (Mpa)	Sealing test (Mpa)	Temperature (°C)	Applicable Medium
150	3.0	2.2	≤120°C/200°C	Water, steam, natural gas, oil products, etc
300	7.7	5.62		
600	15.4	11.23		
900	23.0	16.85		
1500	38.5	28.10		

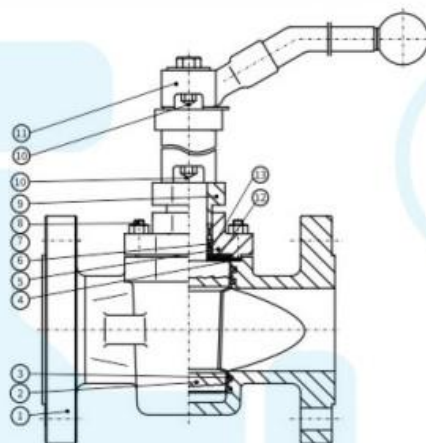
API CARD SLEEVE SOFT SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Body	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
2	Plug	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
3	Sleeve(Seat)	PTFE, RPTFE, PPL, PEEK, Nylon
4	Gasket	Flexible graphite+stainless steel, PTFE
5	Bonnet	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
6	Packing	PTFE
7	Bolt	ASTM A193-B7,A320-B8,A193-B8M
8	Nut	ASTM A194-2H,A194 8,A194-8M
9	Gland	ASME A216-WCB ASME A217-WC1 WC6 WC9,C5 ASME A351 CF8,CF8M,CF3,CF3M
10	Adjusting gasket	ASTM A193-B7,A320-B8,A193-B8M
11	Wrench	ASTM A216 WCB
12	Adjusting pad	SS304,SS316
13	Packing pad	SS304,SS316

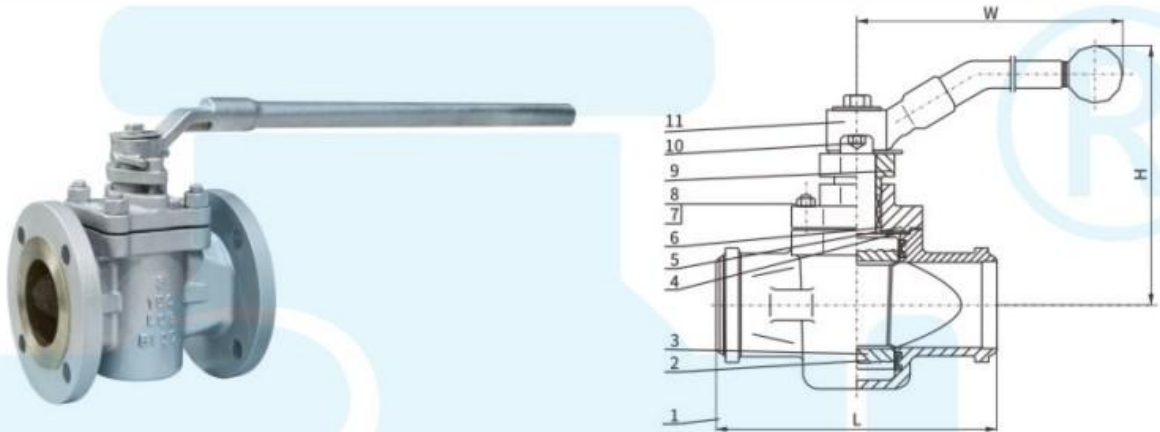
API CARD SLEEVE SOFT SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Body	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
2	Plug	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
3	Sleeve(Seat)	PTFE, RPTFE, PPL, PEEK, Nylon
4	Gasket	Flexible graphite+stainless steel, PTFE
5	Bonnet	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
6	Packing	PTFE
7	Bolt	ASTM A193-B7,A320-B8,A193-B8M
8	Nut	ASTM A194-2H,A194 8,A194-8M
9	Gland	ASME A216-WCB ASME A217-WC1 WC6 WC9,C5 ASME A351 CF8,CF8M,CF3,CF3M
10	Adjusting gasket	ASTM A193-B7,A320-B8,A193-B8M
11	Wrench	ASTM A216 WCB
12	Adjusting pad	SS304,SS316
13	Packing pad	SS304,SS316

API CARD SLEEVE SOFT SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Body	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
2	Plug	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
3	Sleeve(Seat)	PTFE, RPTFE, PPL, PEEK, Nylon
4	Gasket	Flexible graphite+stainless steel, PTFE
5	Bonnet	ASTM A216-WCB,ASTM A217-WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
6	Packing	PTFE
7	Bolt	ASTM A193-B7,A320-B8,A193-B8M
8	Nut	ASTM A194-2H,A194 8,A194-8M
9	Gland	ASME A216-WCB ASME A217-WC1 WC6 WC9,C5 ASME A351 CF8,CF8M,CF3,CF3M
10	Adjusting gasket	ASTM A193-B7,A320-B8,A193-B8M
11	Wrench	ASTM A216 WCB

DIN CARD SLEEVE SOFT SEAL PLUG VALVE

Structural characteristics

The German standard card sleeve soft seal plug valve is suitable for cutting off or connecting pipeline media in various working conditions such as petroleum, pharmaceutical, fertilizer, and power industries with nominal pressure PN1.6~16MPa and working temperature -29~180 ° C.

Main structural features

1. The product has a reasonable structure, reliable sealing, excellent performance, and beautiful appearance.
2. Its sealing is achieved through the sealing surfaces around the card sleeve. The unique 360 ° metal lip ensures a fixed card sleeve.
3. The valve does not have a cavity for the medium to accumulate.
4. The metal lip provides self-cleaning function during rotation, suitable for viscous and scaling prone working conditions.
5. Bi directional flow makes installation and use more convenient.
6. The material and flange size of the parts can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

Technical specifications

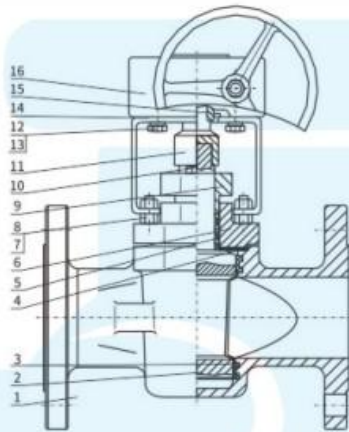
Structural style	BC
Drive mode	Handle, worm gear transmission, pneumatic, electric
Design standards	API599, API6D
Structural length	ASME B16.10
Connecting flange	ASME B16.5
Testing and Inspection	API598,API6D

Note: The size of the valve connection flange can be designed and manufactured according to user requirements.

性能规范 Performance specifications

Nominal pressure(LB)	Shell Test (Mpa)	Sealing test (Mpa)	Temperature (°C)	Applicable Medium
1.6	2.4	1.76	≤120°C/200°C	Water, steam, etc
2.5	3.75	2.75		
4.0	6.0	4.4		
6.4	9.6	7.04		
10.0	15.0	11.0		
16.0	24.0	17.6		

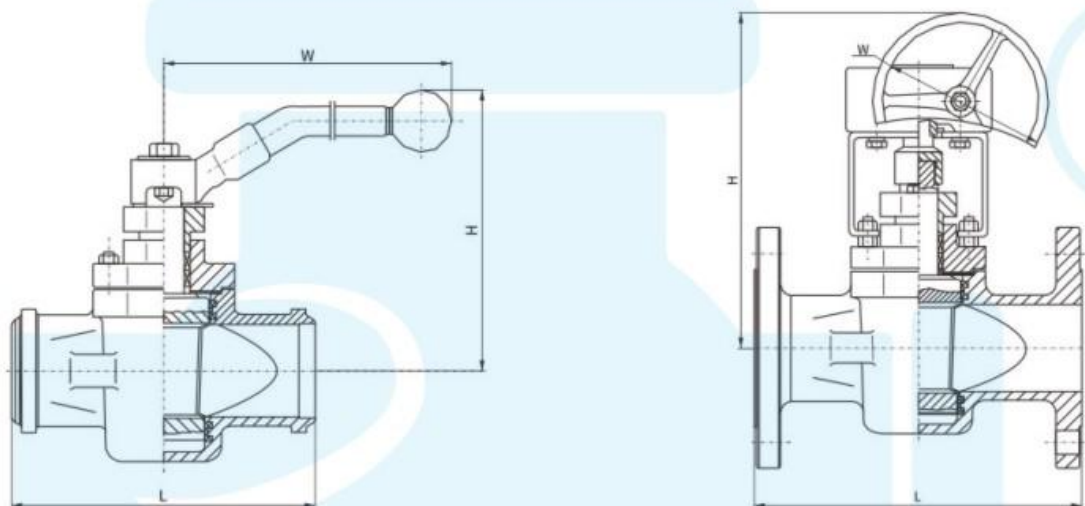
DIN CARD SLEEVE SOFT SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Body	GS-C25 1.7363 , 1.4308, 1.4408, 1.4306, 1.4301
2	Plug	GS-C25 1.7363 , 1.4308, 1.4408, 1.4306, 1.4301
3	Sleeve(Seat)	PTFE,PRTFE,PPL,PEEK,Nylon
4	Gasket	Flexible graphite+stainless steel, PTFE
5	Packing	PTFE
6	Bonnet	GS-C25 1.7363, 1.4308, 1.4408, 1.4305, 1.4301
7	Bolt	ASTM A193-B7, A320-B8, A193-B8M
8	Nut	ASTM A194-2H, A194-8, A194-8M
9	Gland	GS-C25 1.7363, 1.4308, 1.4408, 1.4306, 1.4301
10	Bolt	ASTM A193-B7, A320-B8, A193-B8M
11	Connect jacket	AISI 1045
12	Bolt	ASTM A193-B7, A320-B8, A193-B8M
13	Gasket	AISI 1066
14	Yoke	Q235, WCB
15	Key	AISI 1045
16	Worm	ASTM A536 60-40-18+other

DIN CARD SLEEVE SOFT SEAL PLUG VALVE



Main dimensions

X343F/X43F-16

Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	150	155	160	180	190	200	220	230	380	460	520	580	620	680	740
W	195	205	205	315	315	330	440	590	690	300	320	320	350	380	380
weight (kg)	9	10	11	13	14	19	23	27	43	62	75	155	222	390	580

X343F/X43F-25

Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	150	155	160	180	190	200	220	230	380	460	520	580	620	680	740
W	195	205	205	315	315	330	440	590	690	300	320	320	350	380	380
weight (kg)	9	11	13	15	17	22	31	55	77	88	190	190	235	399	680

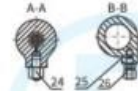
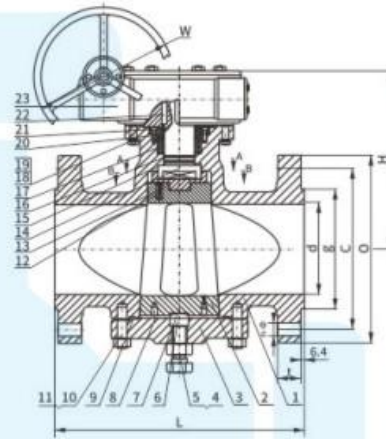
X343F/X43F-40

Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	150	155	160	180	190	200	220	230	380	460	520	580	620	680	740
W	195	205	205	315	315	330	440	590	690	300	320	320	350	380	380
weight (kg)	12	14	18	21	24	29	33	39	75	103	146	251	337	521	720

X343F/X43F-40

Size	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	150	155	160	180	190	200	220	230	380	460	520	580	620	680	740
W	195	205	205	315	315	330	440	590	690	300	320	320	350	380	380
weight (kg)	14	17	22	25	29	22	43	50	94	123	170	291	430	625	675

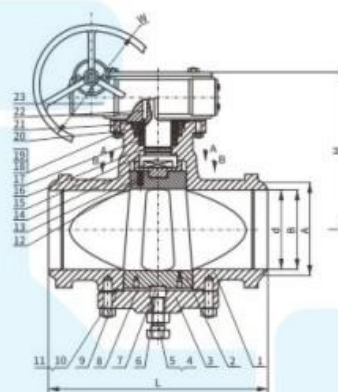
API PRESSURE BALANCED INVERTED OIL SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Body	A352 LCC
2	Cock	A352 LCC
3	Cover	A352 LCC
4	Nut	A194-4
5	Bolt	A320-L7
6	Adjustment block	A276-410
7	Adjustment block	A276-410
8	Metal diaphragm	SS304
9	Spiral wound gasket	SS304+Graphite
10	Nut	A194-4
11	Bott	A320-L7
12	Check valve	UCA
13	Connector	A276-410
14	Stem	A322 4140+ENP、A322 4140+ENF
15	Gasket	PTFE
16	O-ring	Viton
17	Packing	Graphite
18	Bott	AISI 1035
19	Elastic gasket	AISI 1066
20	Gland	A352 LCC
21	Bolt	A320-L7
22	Key	AISI 1045
23	Turbine drive	UCA
24	Emergency sealing device	UCA
25	Check valve	UCA
26	Grease valve	UCA

API PRESSURE BALANCED INVERTED OIL SEAL PLUG VALVE

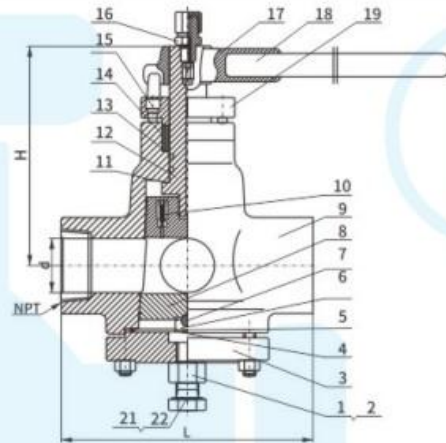


Main component materials

NO.	Part name	Material
1	Body	A216-WCB
2	Cock	A216-WCB
3	Cover	A216-WCB
4	Nut	A194-2H
5	Bolt	A193-B7
6	Adjustment block	A276-410
7	Adjustment block	A276-410
8	Metal diaphragm	SS304
9	Spiral wound gasket	SS304+Graphite
10	Nut	A194-2H
11	Bolt	A193-B7
12	Check valve	UCA
13	Connector	A276-410
14	Stem	A182-F6a
15	Gasket	PTFE
16	O-ring	Viton
17	Packing	Graphite
18	Bolt	AISI 1035
19	Elastic gasket	AISI 1066
20	Gland	A216-WCB
21	Bolt	A193-B7
22	Key	AISI 1045
23	Turbine drive	UCA
24	Emergency sealing device	UCA
25	Check valve	UCA
26	Grease valve	UCA



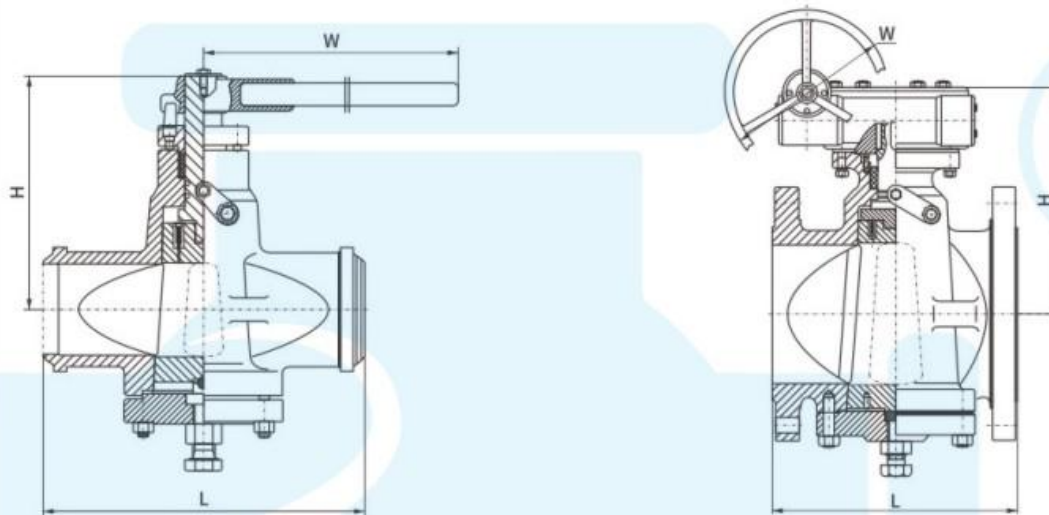
API PRESSURE BALANCED INVERTED OIL SEAL PLUG VALVE



Main component materials

NO.	Part name	Material
1	Bolt	A193-B7
2	Nut	A194-2H
3	Cover	A105
4	Metal diaphragm	SS304
5	Winding gasket	SS304+Graphite
6	Adjustment block	A276-410
7	Ball	SS304
8	Cock	A105
9	Body	A105
10	check valve	UCA
11	Gasket	PTFE
12	Stem	A182-F6a
13	O-ring	Viton
14	Packing	Graphite
15	Bolt	A193-B7
16	Grease valve	UCA
17	Pipe	A570
18	Handle	A216-WCB
19	Gland	A215-WCB
20	Bolt	A193-B7
21	Nut	A194-2H

API PRESSURE BALANCED INVERTED OIL SEAL PLUG VALVE



X47W/X347W-150LB

口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
H		180	180	185	200	214	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
重量(kg) weight		10	12	14	17	19	21	29	33	48	75	98	125	171	230	370

X47W/X347W-300LB

口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
H		180	180	185	200	214	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
重量(kg) weight		12	14	16	19	21	24	31	36	61	86	130	190	255	380	560

X47W/X347W-600LB

口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
H		180	180	185	200	214	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
重量(kg) weight		14	16	18	20	24	29	35	47	91	129	210	320	660	920	1250

X47W/X347W-900LB

口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		216	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H		180	180	185	200	214	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
重量(kg) weight		17	29	21	24	30	37	44	65	110	160	255	380	810	1050	1460



FLANGE CONNECTION API LIFTING HARD SEAL PLUG VALVE

Structural characteristics

The flange connected American standard lifting hard seal plug valve is suitable for cutting off or connecting pipeline media in various working conditions such as petroleum, chemical, pharmaceutical, fertilizer, and power industries with nominal pressure of CLASS150~1500LBS and working temperature of -29~550 °C.



Main structural features

1. The product has a reasonable structure, reliable sealing, excellent performance, and beautiful appearance. The opening and closing process of the valve is carried out in a state where the sealing surface is detached, which will not cause wear on the sealing surface.
3. Bi directional flow makes installation and use more convenient.
4. The material and flange size of the parts can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

Technical specifications

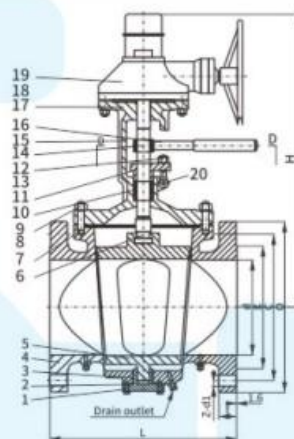
Structural style	BC
Drive mode	BB-BG-QS & Y
	Handle, worm gear transmission, pneumatic, electric
Design standards	API599、API6D
Structural length	ASME B16.10
Connecting flange	ASME B16.5
Testing and Inspection	API598.API6D

Note: The size of the valve connection flange can be designed and manufactured according to user requirements.

Performance specifications

Nominal pressure(LB)	Shell Test(Mpa)	Sealing test (Mpa)	Temperature (°C)	Applicable Medium
150	3.0	2.2	-29°C-500°C	Water, steam, etc
300	7.7	5.62		
600	15.4	11.23		
900	23.0	16.85		
1500	38.3	28.10		
2500	63.80	46.80		

FLANGE CONNECTION API LIFTING HARD SEAL PLUG VALVE

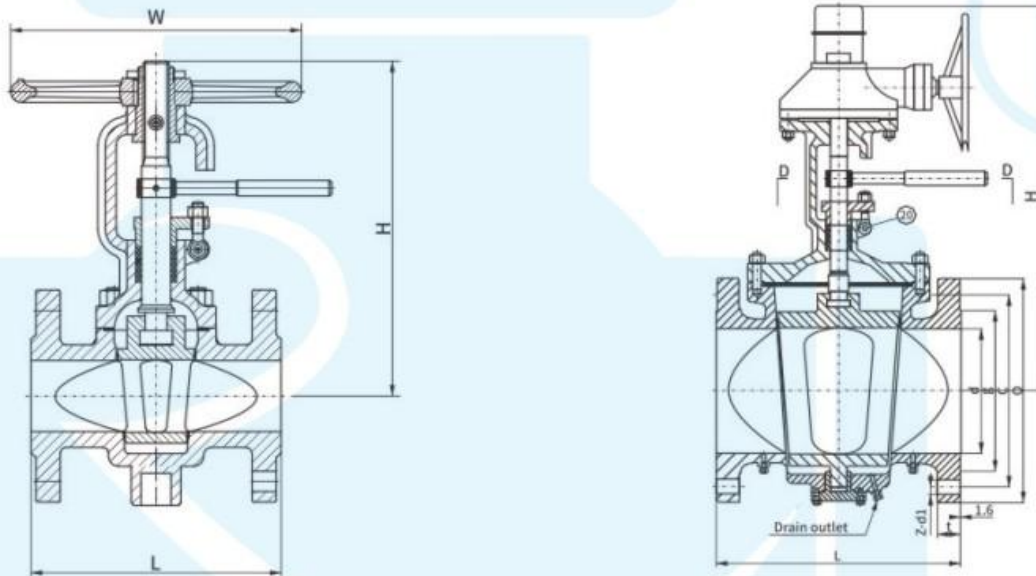


Main component materials

NO.	Part name	Material
1	Bolt	A193 B16
2	Gasket	SS304+Graphite
3	Bottom cover	A217 C5
4	Body	ASTM A216-WCB,ASTM A217-WC1,WC6, WC9, C5 ASTM A351-CF8,CF8M,CF3,CF3M
5	Cock	ASTM A215-WCB,ASTM A217-WC1,WC6, WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
6	Stem	A276 410
7	Gasket	Flexible graphite+stainless steel, PTFE
8	Bolt	ASTM A193-B7,A320-B8,A193-B8M
9	Nut	ASTM A194-2H,A194-8,A194-8M
10	Packing	Flexible graphite, PTFE
11	Gland	ASTM A216 WCB,ASTM A217 WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M,CF3,CF3M
12	Bolt	ASTM A193-B7,A320-B8,A193-B8M
13	Nut	ASTM A194-2H,A194-8,A194-8M
14	Pin	SS304
15	Valve cover	ASTM A215 WCB,ASTM A217 WC1,WC6,WC9,C5 ASTM A351-CF8,CF8M CF3.CF3M
16	Handle	ASTM A216-WCB ASTM A351-CF8.CF8M,CF3.CF3M
17	Bolt	ASTM A193-B7,A320-B8,A193-B8M
18	Nut	ASTM A194-2H,A194-8,A194-8M
19	Gear	UCA
20	Pin	SS304



FLANGE CONNECTION API LIFTING HARD SEAL PLUG VALVE



Main dimensions

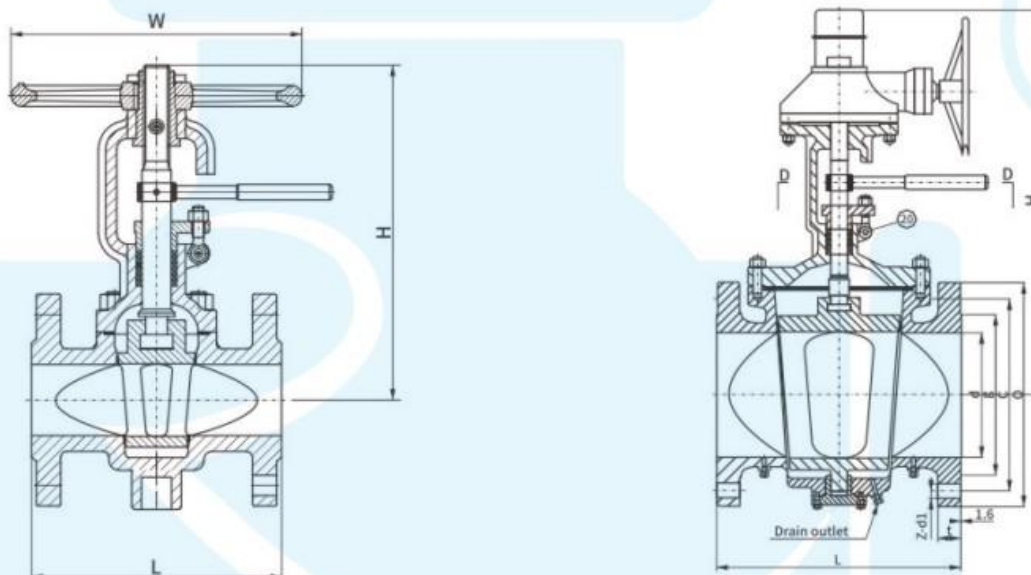
TSX543W/TSX43W-150LB

Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
H		190	195	225	260	280	310	250	395	300	470	535	590	630	680	720
W		180	180	180	220	220	220	820	250	300	350	350	400	500	500	600
weight (kg)		9	10	11	17	19	23	29	32	48	82	98	130	178	250	380

TSX543W/TSX43W-300LB

Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
H		190	195	225	260	280	310	340	395	435	470	535	590	630	680	720
W		180	180	180	220	220	220	250	250	300	350	350	400	500	500	600
weight (kg)		10	12	14	19	21	28	34	39	75	95	135	200	255	415	650

FLANGE CONNECTION API LIFTING HARD SEAL PLUG VALVE



TSX543W/TSX43W-600LB

Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
H		190	195	225	260	280	310	340	395	435	470	535	590	630	680	720
W		180	180	180	220	220	220	250	250	300	350	350	400	500	500	600
weight (kg)		13	14	19	23	25	32	40	55	105	139	300	440	730	1150	1570

TSX543W/TSX43W-900LB

Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	2	6	8	10	12	14
L		216	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H		190	195	225	260	280	310	340	395	435	470	535	590	630	680	720
W		180	180	180	220	220	220	250	250	300	350	350	400	500	500	600
weight (kg)		16	17	26	30	33	39	50	70	137	181	397	590	860	1470	1880