Pressure Seal Valves

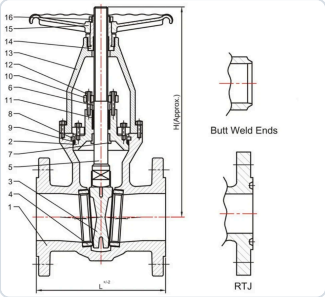
HIGH-PRESSURE STEAM

Pressure seal valves use a bonnet design in which internal line pressure helps to seal the body-to-bonnet joint. As pressure rises, the sealing force increases. This makes the design well suited to high-pressure, high-temperature services such as power plant steam. UTC VALVES manufactures and supplies pressure seal gate, globe and check valves for demanding services.

Pressure seal gate valve



Body material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure rating	Class 900, 1500, 2500
Design standard	API 600 / ASME B16.34
Inspection & testing	API 598 / BS EN 12266-1
End connection	Flanged / butt weld / RTJ
Operation	Handwheel, gear or actuated (pneumatic / electric)
Size range	2" to 12"
Options	Bypass, floor stand, extended stem
Dimensions	Face-to-face ASME B16.10; flanges ASME B16.5; butt-weld ends ASME B16.25



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Parameter	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to face, flanged (L)	900#	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1139
	2500#	451	578	673	794	914	1022	1270	1422
Face to face, BWE (L)	900#	216	305	356	432	508	660	787	914
	1500#	216	305	406	483	559	711	864	991
	2500#	279	368	457	533	610	762	914	1041
Height (H) approx.	900#	480	585	710	758	865	1020	1370	1470
	1500#	500	600	725	800	890	1040	1388	1470
	2500#	560	620	750	850	910	1090	1400	1500
Weight (kg) approx.	900#	75	96	136	225	275	490	825	1150
	1500#	95	125	205	256	330	655	1200	2010
	2500#	110	140	225	295	495	825	1480	2400

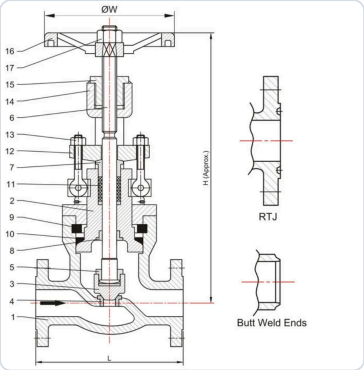
Material list

No.	Part	Material (ASTM specification)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Wedge	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Seat ring	F6a / A105 / LF2 / SS 316 / SS 304
5	Stem	SS 410 / SS 304 / SS 304L / SS 316L
6	Gland	SS 410 / SS 304 / SS 304L / SS 316L
7	Back seat bush	SS 410 / SS 304 / SS 304L / SS 316L
8	Segment rings	Graphite with Inconel Wire Reinforcement
9	Pressure seal gasket	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
10	Gland flange	Die Moulded Grafoil Ring
11	Gland packing	Carbon Steel / Stainless Steel
12	Gland eye bolt & nut	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
13	Yoke	B7 / B7M / B8M / B8 / L7
14	Yoke bush	A439 Gr. D2 / Al Bronze
15	Handwheel	Carbon Steel
16	Handwheel nut	Carbon Steel

Pressure seal globe valve



Body material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure rating	Class 900, 1500, 2500
Design standard	BS 1873 / ASME B16.34
Inspection & testing	API 598 / BS EN 12266-1
End connection	Flanged / butt weld / RTJ
Operation	Handwheel, gear or actuated (pneumatic / electric)
Size range	2" to 12"
Dimensions	Face-to-face ASME B16.10; flanges ASME B16.5; butt-weld ends ASME B16.25



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Parameter	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to face (L), FE & BWE	**900#**	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Height (H) approx.	**900#**	550	675	750	815	1085	1300	1420	1825
	1500#	565	680	800	825	1130	1450	1535	1600
	2500#	575	725	835	875	1200	1510	1720	2100
Weight (kg) approx., FE	**900#**	75	105	135	255	360	620	950	1200
	1500#	80	125	215	300	520	650	1150	2500
	2500#	95	125	210	565	620	1050	1525	3330
Weight (kg) approx., BWE	**900#**	45	48	100	270	270	450	738	1045
	1500#	55	85	160	300	378	635	1180	1850
	2500#	80	120	150	470	470	770	1330	1920

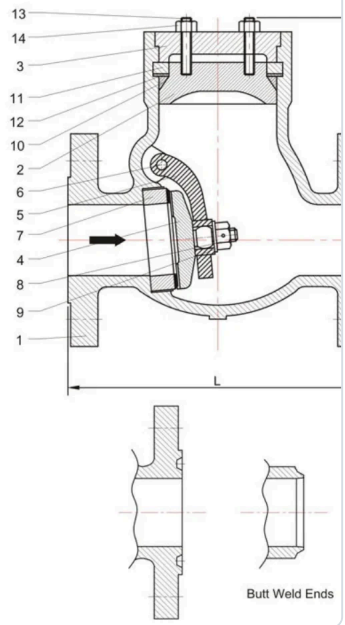
Material list

No.	Part	Material (ASTM specification)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Disc	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Seat ring	F6a / A105 / LF2 / SS 316 / SS 304
5	Disc nut	SS 410 / SS 304 / SS 304L / SS 316L
6	Stem	SS 410 / SS 304 / SS 304L / SS 316L
7	Gland	SS 410 / SS 304 / SS 304L / SS 316L
8	Back seat bush	SS 410 / SS 304 / SS 304L / SS 316L
9	Support ring	SS 410 / SS 304 / SS 304L / SS 316L
10	Pressure seal gasket	Graphite with Inconel Wire Reinforcement
11	Gland packing	Die Moulded Grafoil Ring
12	Gland flange	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
13	Gland eye bolt & nut	Carbon Steel / Stainless Steel
14	Yoke	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
15	Yoke bush	A439 Gr. D2 / Al Bronze
16	Handwheel	Carbon Steel / M. I.
17	Handwheel nut	Carbon Steel

Pressure seal check valve



Body material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure rating	Class 900, 1500, 2500
Design standard	BS 1868 / API 6D
Inspection & testing	API 598 / BS EN 12266-1
End connection	Flanged / butt weld / RTJ
Size range	2" to 12"
Options	Bypass, floor stand; lifting lug for 8 in. and above, support legs for 12 in. and above
Dimensions	Face-to-face ASME B16.10; flanges ASME B16.5; butt-weld ends ASME B16.25



Weights and dimensions are for reference only. Final data is confirmed in the quotation and approved drawings.

Dimensions & technical details (mm)

Parameter	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to face, flanged (L)	**900#**	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Face to face, BWE (L)	**900#**	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Height (H) approx.	**900#**	250	290	335	380	440	510	570	620
	1500#	265	310	345	385	460	515	590	645
	2500#	280	325	370	425	500	525	630	965
Weight (kg) approx.	**900#**	44	75	105	140	230	440	590	870
	1500#	65	80	125	160	300	525	960	1130
	2500#	78	110	205	395	500	900	1302	1950

Material list

No.	Part	Material (ASTM specification)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Cover	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Disc	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
5	Hinge	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
6	Hinge pin	SS 410 / SS 304 / SS 304L / SS 316L
7	Seat ring	F6a / A105 / LF2 / SS 316 / SS 304
8	Disc nut	Carbon Steel / Stainless Steel
9	Washer	Carbon Steel / Stainless Steel
10	Gasket	Spiral Wound SS 316 + Graphoil
11	Back-up ring	WCB / CF8 / CF8M
12	Thrust ring	WCB / CF8 / CF8M
13	Cover stud	B7 / B7M / B8M / B7
14	Cover nut	2H / 8 / 8M / 7

UTC VALVES

Engineered for Flow. Built for Reliability.

Send us your enquiry

Share the valve type, size, pressure class, materials, end connections, quantity and any project specification or drawing. Our team reviews every enquiry and responds with availability and a quotation.

PHONE / WHATSAPP
+91 98207 27281 / +91 90042 40628

EMAIL
info@utcvalves.com / utcvalves@gmail.com

BUSINESS HOURS
10:00 AM – 8:00 PM

WEBSITE
utcvalves.com

REQUEST A QUOTE
utcvalves.com/request-a-quote/

OFFICE
207/B Shabnam Apartment, Old Mumbai Pune Road, Amrut Nagar, Mumbra, Thane, Maharashtra 400612, India

GSTIN
27BCEPK3141H1ZU

IEC
BCEPK3141H