

Double Block and Bleed Ball Valve AKA Twinvalve

Twinvalve trunnion ball valves are made of two balls and seat combinations in one valve body, also referred as integral Double Block & Bleed ball valve (DBB valves). It has two independent sealing members and two separate actuating mechanisms, which keeps sealing service at the same time, the cavity of valve body has a pressure bleed interface. Twinvalve ball valves offer the most performance for severe isolation services where double block and bleed is required.

They can come with various vent and bleed valve options along with drains, sealant injection where required. Size range 2" -16" (50nb-400nb) Pressure classes

ANSI 150 ANSI 300 ANSI 600 ANSI 900 ANSI 1500 ANSI 2500









O. S. & Y Type Globe Valve

End connections RF flanged RTJ flanged.

Standard Body material is A105 steel. Other materials 304 /316 / SAF / Duplex / Super Duplex / or Titanium.

Seats can be metal and soft seats such as Peek, Devlon and PTFE. Operation can be via wrench, gearbox or actuated.

For sizes below 2" refer DK-Lok Instrumentation section.

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Bleed Valve options



Standard Materials of Construction

Nomin	nal diame	eter (in)	NPS 2~16											
Nomin	nal press	ure (MPa)		Cla	ss150~Class2500									
			Materials											
	No.	Part Name												
-			Carbon Steel		Stainless Steel	1	1							
-	1	Body	ASTM A105	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	2	Spring	17-7PH											
	3	Anti-fire packing	Graphite											
	4	O ring	VITON	VITON	VITON	VITON	VITON							
	5	Seat ring	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	6	Seat			/NYLON/PEEK/PPL									
	7	Ball	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	8	Stud	A193 B7M	A320 B8	A320 B8M	A320 B8	A320 B8M							
	9	Anti-fire gasket	SST+Graphite											
	10	O ring	VITON											
	11	Bonnet	ASTM A105	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	12	Check valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
	13	Sealant injection valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
	14	Anti-static device	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
	15	Stem	ASTM A182 F6a	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	16	Sliding bearing	Metal+PTFE	Metal+PTFE	Metal+PTFE	Metal+PTFE	Metal+PTFE							
	17	Thrust bearing	PTFE											
	18	0 ring	VITON											
	19	0 ring	VITON											
	20	Anti-fire gasket	SST+Graphite											
	21	Seal gland	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
Materials	22	Socket head cap screw	A193 B7M	A320 B8	A320 B8M	A320 B8	A320 B8M							
of	23	Pin	ANSI 1035	ANSI 1035	ANSI 1035	ANSI 1035	ANSI 1035							
parts	24	Packing	Graphite Graphite Graphite Gr											
	25	Packing gland	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WC							
	26	Hexagon bolt	A193 B7M	A320 B8	A320 B8M	A320 B8	A320 B8M							
	27	Stopper	A3 + HZn	A3 + Zn	A3 + HZn	A3 + HZn	A3 • HZn							
-	28	Retainer ring	65Mn	65Mn	65Mn	65Mn	65Mn							
	29	Sealant injection valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
-	30	Air release valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
	31	Check valve	Combined parts	Combined parts	Combined parts	Combined parts								
-							Combined parts							
-	32 33	Sealant injection valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts							
-		Drainage valve	Combined parts	Combined parts	Combined parts	Combined parts	Combined parts Combined parts							
-	34	Drainage valve	Combined parts	Combined parts										
	35	Thrust bearing	MAN AND DEFE		PTFE	March Pres								
-	36	Sliding bearing	Metal+PTFE	Metal + PTFE	Metal+PTFE	Metal+PTFE	Metal+PTFE							
-	37	0 ring	VITON											
	38	Anti-fire gasket			SST+Graphite									
-	39	Lower cover	ASTM A105 • ENP	ASTM A182 304	ASTM A182 316	ASTM A182 304L	ASTM A182 316							
	40	Stud	A193 B7M	A320 B8	A320 B8M	A320 B8	A320 B8M							
_	41	Hexagon nut	A194 2HM	A194-8	A194 -8 M	A194-8	A194-8 M							
	42	Hexagon nut	A194 2HM	A194-8	A194 -8 M	A194-8	A194-8 M							
Applicable		Applicable media	Water, steam, oil, gas liquefied gas, natural gas, etc.	Nitric Acid	Acetic Acid	Strong Oxidizer	Urea							
conditi		Applicable temperature	120°C (P		.ON) 、 ≤250°C (PEE	K)、≤250°C (PPL)								
		anufacturing			PI 608、 API 6D									
		dimensions	ASME B16.10、 API 6D											
	Type of co		Flange	ASME B16.5	5/ASME B16.47	Butt welding	ASME B16.25							
	Proceur	e test		٨	PI 598、 API 6D									

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Dimensions and Weights ANSI Class 150 to ANSI 2500

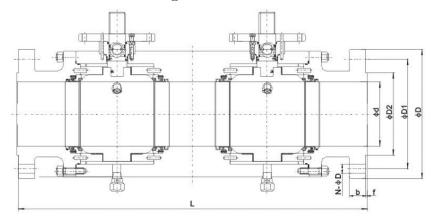
Pressure rating Class	Nominal Diameter		d	Flanged		Butt welding		Raised face flange								Weight
	NPS	DN		L(RF)	L(RTJ)	L(BW)	D	D1	D2	D3	f	b	N-Φd	H		(Kg)
150	2"	50	50	356	369	394	150	120.5	92	-	2	14.5	4-Φ19	93	88	
	3"	80	75	457	470	537	190	152.5	127	-	2	17.5	4-Φ19	118.5	117	\triangle
	4"	100	100	502	514	578	230	190.5	157	-	2	22.5	8-Ф19	143.5	137	\triangle
	6"	150	150	787	799	850	280	241.5	216	-	2	24	8-Ф22	208	178.5	\triangle
	8ª	200	201	902	915	966	345	298.5	270	-	2	27	8-Ф22	248	235	Δ
	10 [#]	250	252	991	1004	1017	405	362	324	-	2	29	12- Φ 25	294	288	\triangle
	12"	300	303	1130	1142	1155	485	432	381	-	2	30.5	12-Ф25	345	330	Δ
	14"	350	334	1245	1258	1321	535	476	413	-	2	33.5	12- Φ 29	377	360	Δ
	16ª	400	385	1372	1385	1448	595	540	470	-	2	35	16-Ф29	418	400	Δ
	2"	50	50	394	410	394	165	127	92	-	2	21	8-Ф19	93	88	Δ
	3"	80	75	495	510	495	210	168.5	127	-	2	27	8-Ф22	118.5	117	
	4"	100	100	568	584	568	255	200	157	-	2	30.5	8-Φ22	143.5	137	\triangle
	6ª	150	150	826	842	826	320	270	216	-	2	35	12-Ф22	208	178.5	\triangle
300	8"	200	201	991	1007	991	380	330	270	-	2	40	12- Φ 25	248	235	\triangle
	10"	250	252	1054	1070	1054	445	387.5	324	-	2	46.5	16-Ф29	294	288	Δ
	12"	300	303	1194	1210	1194	520	451	381	-	2	49.5	16- Φ 32	345	330	Δ
	14ª	350	334	1346	1362	1346	585	514.5	413	-	2	52.5	20-Ф32	377	360	Δ
	16ª	400	385	1473	1489	1473	650	571.5	470	-	2	56	20-Ф35	423	345	\triangle
	2"	50	50	470	473	470	165	127	92	-	7	26	8-Ф19	107	91.5	Δ
	3"	80	75	610	613	610	210	168.5	127	-	7	32	8-Ф22	140	119	
	4"	100	100	762	765	762	275	216	157	-	7	38.5	8-Ф25	164	150	Δ
	6"	150	150	978	981	978	355	292	216	-	7	48	12-Ф29	224	208	\triangle
600	8"	200	201	1143	1147	1143	420	349	270	-	7	56	12-Ф32	272	248	
	10ª	250	252	1372	1376	1372	510	432	324	-	7	64	16- Φ 35	318	303	Δ
	12"	300	303	1448	1451	1448	560	489	381	-	7	67	20-Ф35	355	341	Δ
	14"	350	334	1549	1552	1549	605	527	413	-	7	70	20-Ф39	390	370	Δ
	16"	400	385	1778	1781	1778	685	603	470	-	7	77	20-Ф41	400	415	Δ

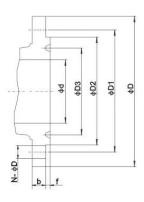
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Dimensions and Weights ANS 900 to ANSI 2500





ressure rating		ninal neter	d Flanged		nged	Butt welding	Raised face flange								H1	Weight
Class	NPS	DN		L(RF)	L(RTJ)	L(BW)	D	D1	D2	D3	f	b	N-Φd			(Kg)
	2"	50	50	610	613	610	215	165	124	95.25	7.92	38.5	8-Φ25	126.5	105	
	3"	80	75	660	663	660	240	190.5	156	123.83	7.92	38.5	8-Φ25	150	130	
	4ª	100	100	826	829	826	290	235	181	149.23	7.92	45	8- Φ 32	172.5	158	
900	6ª	150	150	1054	1057	1054	380	317.5	241	211.12	7.92	56	12- Φ 32	230	210	
	8ª	200	201	1295	1298	1295	470	393.5	308	269.88	7.92	64	12- Φ 39	290	255	
	10 ⁿ	250	252	1473	1476	1473	545	470	362	323.85	7.92	70	16- Φ 39	330	316	
	12"	300	303	1651	1654	1651	610	533.5	419	381	7.92	79.5	20-Ф39	366	351	
	14"	350	322	1880	1889	1880	640	559	467	419.1	11.13	86	20-Ф42	415	376	
	16"	400	373	1930	1940	1930	705	616	524	469.9	11.13	89	20-Ф45	452	421	
	2"	50	50	610	613	610	215	165	124	95.25	7.92	38.5	8- Φ 25	126.5	105	\triangle
	3"	80	75	826	829	826	265	203.2	168	136.53	7.92	48	8- Φ 32	166	149	
	4"	100	100	965	968	965	310	241.3	194	161.93	7.92	54	8-Φ35	219	178	\triangle
	6ª	150	144	1232	1238	1232	395	317.5	248	211.14	9.53	83	12-Ф39	268	234	
1500	8ª	200	192	1448	1457	1448	485	393.7	318	269.88	11.13	92	12- Φ 45	305	270	\triangle
	10"	250	239	1778	1787	1778	585	482.6	371	323.85	11.13	108	12- Φ 51	358	336	\triangle
	12"	300	287	2083	2099	2083	675	571.5	438	381	14.27	124	16-Φ54	414	395	\triangle
	14"	350	315	2286	2305	2286	750	635	489	419.1	15.88	134	16- Φ 60	471	441	
	16 ^ª	400	360	2422	2445	2422	825	704.8	546	469.9	17.48	146.5	16- Φ 67	498	456	
	2ª	50	42	762	765	762	235	171.4	133	101.6	7.92	51	8- Ф 29	149	123	
	3"	80	62	1029	1153	1029	305	228.6	168	127	9.53	67	8- Φ 35	215	171	
2500	4ª	100	87	1143	1562	1143	355	273	203	157.18	11.13	76.5	8-Φ42	245	206	
	6"	150	131	1549	1559	1549	485	368.3	279	228.6	12.7	108	8-Ф54	306	265	
	8ª	200	179	1880	1896	1880	550	438.2	340	279.4	14.27	127	12- Φ 54	361	336	

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