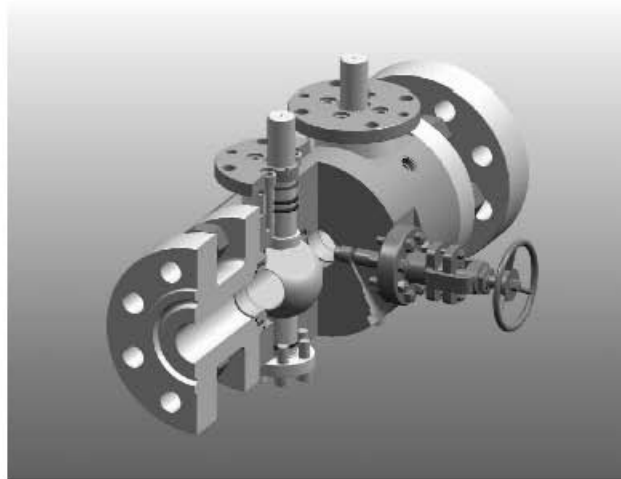


VATAC SERIES DOUBLE BLOCK AND BLEED BALL VALVE

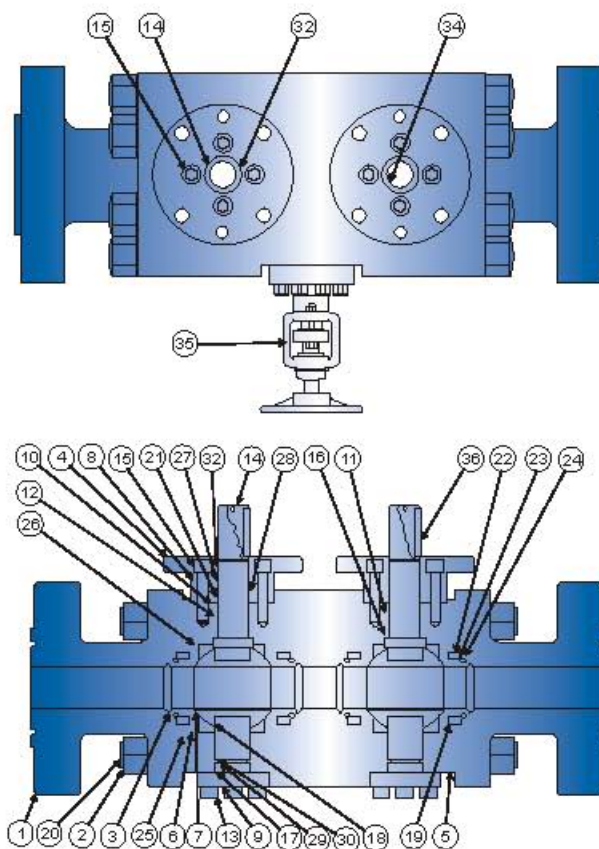
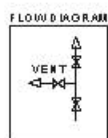
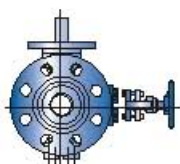
CHARACTERISTICS

- Double Block and Bleed Valves with double fixed ball shingled on supports, and floating metal or soft seats.
- Central Needle Vent Valve.
- Pressure Range: from ASME Class 150 to ASME Class 2500.
- Temperature range: from -46°C to 450°C.
- Side Entry Forged Steel Valves.
- On request, Top-Entry design.
- Low pressure loss through the valve.
- Low actuation torque.
- "CE" marking in compliance with PED Directive 97/23/EC.
- Full bore or Reduced bore.
- Different kinds of end connections (RF/RTJ Flanges, Butt Weld, Clamp Connection, Socket Welding).
- Wide availability of materials depending on the specifications (carbon steel, stainless steel or Duplex steel for service in corrosive environments, Chrome-Molybdenum alloy steel for high temperature service, etc.).
- Materials with anti-corrosion properties according to NACE MR 0175.
- On request, seat pocket area overlay, seal area overlay, or completed cladding on wetted surface (welded overlays in Inconel 625, Stainless Steel 316, etc., or Electroless Nickel Plating).
- Suitable for manual (wrench or gear) or motorized actuation (hydraulic, pneumatic, gas-over-oil or electric actuator).

COMBINED BALL VALVES
SIDE ENTRY AND TOP ENTRY BOLTED BONNET

MAIN PARTS

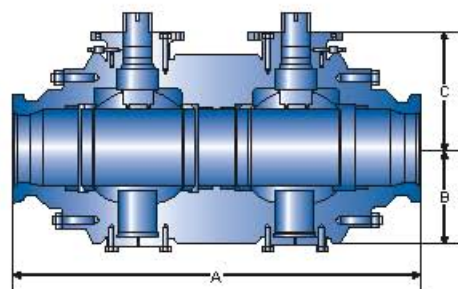
- | | |
|-------------------------------|----------------------------|
| 1. Closure | 19. Seat Spring |
| 2. Body Stud-Nut | 20. Body Stud |
| 3. Seat Ring | 21. Stem O-Ring |
| 4. Adapter Flange | 22. Seat Gasket |
| 5. Body | 23. Seat Back-Up Ring |
| 6. Closure Back-Up Ring | 24. Seat O-Ring |
| 7. Ball | 25. Body Gasket |
| 8. Gland Flange | 26. Closure O-Ring |
| 9. Trunnion | 27. Stem Gasket |
| 10. Gland Flange Gasket | 28. Stem Back-Up Ring |
| 11. Gland Flange Back-Up Ring | 29. Trunnion Back-Up Ring |
| 12. Gland Flange O-Ring | 30. Trunnion O-Ring |
| 13. Trunnion Cap Screw | 31. Gland Flange Cap Screw |
| 14. Stem | 32. Adapter Flange Bushing |
| 15. Gland Flange Cap Screw | 33. Washer |
| 16. Stem Thrust Washer | 34. Cap Screw |
| 17. Trunnion Gasket | 35. Vent Needle Valve |
| 18. Ball Bushing | 36. Stem Key |



DOUBLE BLOCK & BLEED BALL VALVE

- Double Block and Bleed, Double Ball
- Full or Reduced Port, Fire Safe, Blow-out Proof Stem
- Anti-static Device, Cavity Relieving Seats
- NACE MR-01-75, Optional Locking Device
- Designed to ASME B16.34, API 6D

Face to Face	API 6D
End Flange	ASME B16.5
Butt Weld	ASME B16.25
Class	ASME CL150~900



ASME 150

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	312	378	334	98	105	81
3"	355	495	378	127	130	165
4"	401	534	422	165	130	330
6"	690	800	711	235	288	455
8"	800	912	823	239	288	660
10"	933	978	956	277	326	1056
12"	1068	1111	1089	316	364	1518
14"	1201	1334	1223	341	395	2031
16"	1334	1467	1356	383	437	2886
18"	1512	1600	1533	417	471	3480
20"	1600	1734	1622	454	508	4473
24"	1867	2000	1890	529	590	6961

ASME 300

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	378	378	406	102	120	92
3"	495	495	522	148	164	176
4"	534	534	562	165	130	374
6"	705	800	733	206	237	583
8"	879	912	907	239	288	770
10"	994	978	1022	277	326	1166
12"	1134	1111	1162	316	364	1681
14"	1334	1334	1362	341	395	2321
16"	1467	1467	1495	383	437	3247
18"	1600	1600	1628	432	486	4490
20"	1734	1734	1768	478	532	5925
24"	2000	2000	2039	578	640	6961

ASME 600

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	511	511	516	105	129	99
3"	623	623	628	147	164	176
4"	756	756	761	165	184	462
6"	978	978	984	212	237	693
8"	1155	1155	1162	254	304	1100
10"	1377	1377	1384	303	359	1980
12"	1467	1467	1472	330	378	2347
14"	1556	1556	1561	360	414	2974
16"	1734	1734	1740	401	455	4385
18"	1911	1911	1916	449	503	5775
20"	2090	2090	2100	485	543	7445
24"	2445	2445	2462	584	646	12269

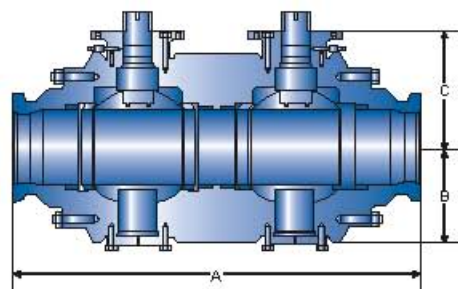
ASME 900

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	644	644	649	108	129	128
3"	667	667	672	147	164	187
4"	800	800	805	165	184	568
6"	1068	1068	1073	212	237	792
8"	1290	1290	1295	254	304	1276
10"	1467	1467	1472	303	359	2178
12"	1689	1689	1694	345	398	2963
14"	1801	1801	1817	358	410	3263
16"	1878	1878	1995	407	458	4556
18"	2133	2133	2156	452	502	6259
20"	2312	2312	2335	498	553	8182
24"	2711	2711	2744	597	664	14236

DOUBLE BLOCK & BLEED BALL VALVE

- Double Block and Bleed, Double Ball
- Full or Reduced Port, Fire Safe, Blow-out Proof Stem
- Anti-static Device, Cavity Relieving Seats
- NACE MR-01-75, Optional Locking Device
- Designed to ASME B16.34, API 6D

Face to Face	API 6D
End Flange	ASME B16.5
Butt Weld	ASME B16.25
Class	ASME CL1500/2500



ASME 1500

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	644	644	649	105	129	128
3"	823	823	828	147	164	264
4"	956	956	961	165	184	440
6"	1234	1234	1244	260	280	1089
8"	1456	1456	1472	283	332	1738
10"	1734	1734	1750	349	399	2970
12"	1978	1978	2006	387	431	4310
14"	2200	2200	2233	421	482	5760
16"	2422	2422	2462	474	540	7995
18"	2690	2690	2728	570	628	12602
20"	2912	2912	2951	690	725	18885
24"	3400	3400	3451	733	780	30006

ASME 2500

SIZE RF (in.)	A	BW	RTJ	B	C	W.T (lbs)
2"	789	789	795	144	177	363
3"	1012	1012	1022	187	203	616
4"	1178	1178	1195	250	271	783
6"	1600	1600	1622	280	300	1760
8"	1789	1789	1817	475	485	6754
10"	2223	2223	2261	502	505	7885
12"	2489	2489	2529	514	547	9900



RAL COLOR CARD

ral 1000	ral 1001	ral 1002	ral 1003	ral 1004	ral 1005	ral 1006	ral 1007
ral 1011	ral 1012	ral 1013	ral 1014	ral 1015	ral 1016	ral 1017	ral 1018
ral 1019	ral 1020	ral 1021	ral 1023	ral 1024	ral 1027	ral 1028	ral 1032
ral 1033	ral 1034	ral 2000	ral 2001	ral 2002	ral 2003	ral 2004	ral 2008
ral 2009	ral 2010	ral 2011	ral 2012	ral 3000	ral 3001	ral 3002	ral 3003
ral 3004	ral 3005	ral 3007	ral 3009	ral 3011	ral 3012	ral 3013	ral 3014
ral 3015	ral 3016	ral 3017	ral 3018	ral 3020	ral 3022	ral 3027	ral 3031
ral 4001	ral 4002	ral 4003	ral 4004	ral 4005	ral 4006	ral 4007	ral 4008
ral 4009	ral 5000	ral 5001	ral 5002	ral 5003	ral 5004	ral 5005	ral 5007
ral 5008	ral 5009	ral 5010	ral 5011	ral 5012	ral 5013	ral 5014	ral 5015
ral 5017	ral 5018	ral 5019	ral 5020	ral 5021	ral 5022	ral 5023	ral 5024
ral 6000	ral 6001	ral 6002	ral 6003	ral 6004	ral 6005	ral 6006	ral 6007
ral 6008	ral 6009	ral 6010	ral 6011	ral 6012	ral 6013	ral 6014	ral 6015
ral 6016	ral 6017	ral 6018	ral 6019	ral 6020	ral 6021	ral 6022	ral 6024
ral 6025	ral 6026	ral 6027	ral 6028	ral 6029	ral 6032	ral 6033	ral 6034
ral 7000	ral 7001	ral 7001	ral 7002	ral 7003	ral 7004	ral 7005	ral 7006
ral 7008	ral 7009	ral 7010	ral 7011	ral 7012	ral 7013	ral 7015	ral 7016
ral 7021	ral 7022	ral 7023	ral 7024	ral 7026	ral 7030	ral 7031	ral 7032
ral 7033	ral 7034	ral 7035	ral 7036	ral 7037	ral 7038	ral 7039	ral 7040
ral 7042	ral 7043	ral 7044	ral 8000	ral 8001	ral 8002	ral 8003	ral 8004
ral 8007	ral 8008	ral 8011	ral 8012	ral 8014	ral 8015	ral 8016	ral 8017
ral 8019	ral 8022	ral 8023	ral 8024	ral 8025	ral 8028	ral 9001	ral 9002
ral 9003	ral 9004	ral 9005	ral 9010	ral 9011	ral 9016	ral 9017	ral 9018

Note: For an exact reproduction of the colors it is advisable to refer an original RAL card.