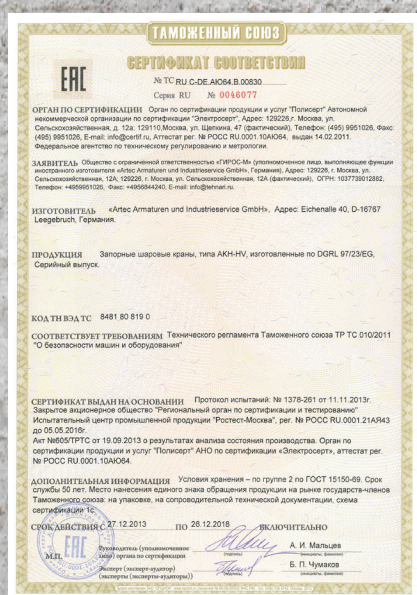
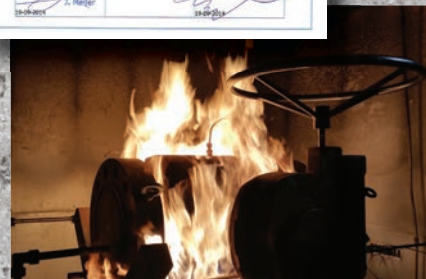


Product Portfolio



Industrial Control and Shut-Off Technology
Made in Germany 

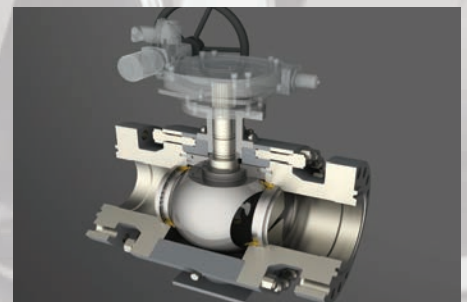
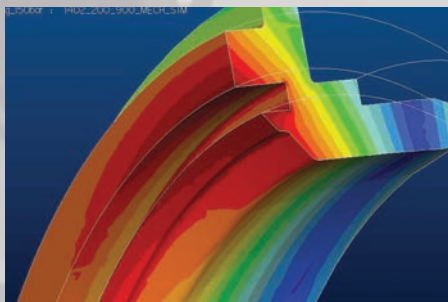
Certificates & Licences



Company Profil

In line with the slogan “Passion for High-Pressure” the artec AIS has established itself over the past 2 decades by producing severe service isolation and control valves for the most extreme applications in industry such as:

- oil & gas
- power generation
- mining
- chemical & petrochemical



With our two production sites in Germany, an additional Service Center in Hungary and our numerous international sales partners, we are always close at hand to support your needs.

Moreover, we are part of the technology division of the holding company ARAN GmbH, headquartered in Bad Schwartau, Germany, in which we benefit from an excellent network within the holding. Our high quality control and shut-off products, as well as our technical know-how, provide

the perfect solution for your industrial applications. Therefore we are equipped with the following certifications and licences:

- API 6D
- GOST R
- ISO 9001
- SCC**
- PED 97/23/EC

Shut-Off Ball Valve

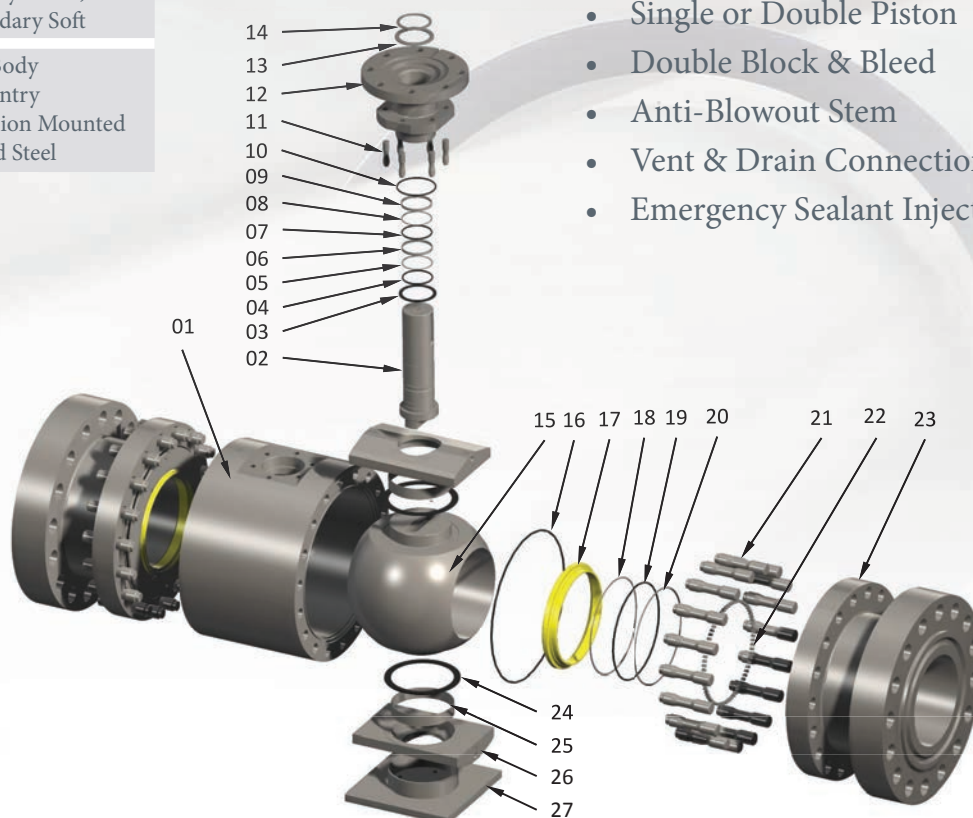
>SOBV-SSA<

Characteristics

Size	NPS 1" – 24" DN 25 – 600
Class	ANSI 600 – 2500 PN 100 – 420
Sealing System	- Metal to Metal - Primary Metal; Secondary Soft
Design	- Split Body - Side Entry - Trunnion Mounted - Forged Steel

Features

- Fire Safe Test acc. to API 607 & ISO 10497
- Anti-Static Design
- Single or Double Piston
- Double Block & Bleed
- Anti-Blowout Stem
- Vent & Drain Connection
- Emergency Sealant Injection

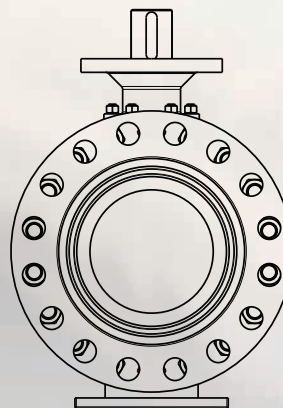
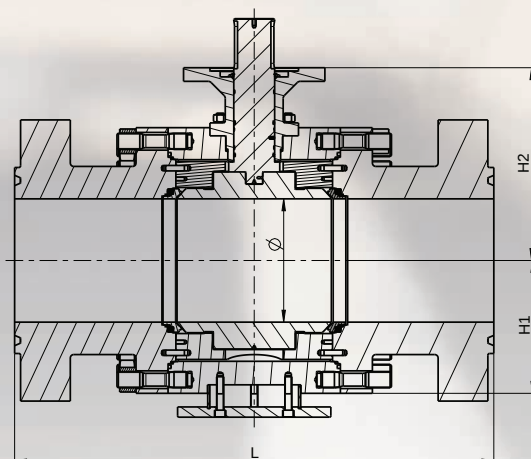


Pos.	Components	Standard Materials	
		EN	API 6D
1	Body	1.0566 / TSTE355	ASTM A350 F2
2	Stem	1.4021 / X20Cr13	ASTM A276-420
3	Stem Thrust Bearing	PTFE/Carbon	PTFE/Carbon
4	O-Ring	FPM/FKM	FPM/FKM
5	Back-up Ring	PTFE	PTFE
6	Stem Guide Ring	PTFE	PTFE
7	O-Ring	FPM/FKM	FPM/FKM
8	Back-up Ring	PTFE	PTFE
9	Stem Guide Ring	PTFE	PTFE
10	O-Ring	FPM/FKM	FPM/FKM
11	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
12	Stem Support	1.0566 / TSTE355	ASTM A350 F2
13	Washer	1.4571 / X6CrNiMo-Ti17-12-2	ASTM A479-316
14	Snap Ring	1.0601 / C60	ASTM A 576-1060

Pos.	Components	Standard Materials	
		EN	API 6D
15	Ball	1.4006 / X12Cr13	ASTM A182-F6a
16	O-Ring	FPM/FKM	FPM/FKM
17	Seat Ring	1.4006 / X12Cr13	ASTM A182-F6a
18	Back-up Ring	PTFE	PTFE
19	O-Ring	FPM/FKM	FPM/FKM
20	Back-up Ring	PTFE	PTFE
21	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
22	Spring	1.4310 / X12CrNi17-7	ASTM A313-301
23	Body Flange	1.0566 / TSTE355	ASTM A350 F2
24	Trunnion Thrust Ring	PTFE/Carbon	PTFE/Carbon
25	Trunnion Bushing	Steel+PTFE	Steel+PTFE
26	Trunnion Plate	1.0547 / S355JOH	ASTM A572-50
27	Support Plate	1.0553 / S355JO	ASTM A572-50

Shut-Off Ball Valve

>SOBV-SSA<



RF = Raised Face
RTJ = Ring Type Joint
BW = Butt Weld
FTF = Face-To-Face

Dimensions in mm

ANSI	Size		Length				Height		approx. Weight (kg)		
			ANSI B16.5			DIN EN 558					
	NPS	DN	L RF	L RTJ	L BW	L FTF	H1	H2	G RTJ, RF	G BW	G FTF
Class 600	1"	25	216	216	216	230	58	68	14	11	15
	2"	50	292	295	292	300	176	93	44	36	45
	3"	80	356	359	356	380	223	120	100	85	105
	4"	100	432	435	432	430	224	129	132	116	130
	6"	150	559	562	559	550	251	175	315	251	312
	8"	200	660	664	660	650	319	213	450	366	445
	10"	250	787	791	787	775	390	260	775	650	775
	12"	300	838	841	838	900	481	302	1.100	915	1.125
	16"	400	991	994	991	1.150	560	370	1.915	1.635	2.005
	20"	500	1.194	1.200	1.194	1.400	640	458	3.315	2.800	3.430
	24"	600	1.397	1.407	1.397	1.600	888	525	5.100	4.400	5.250
Class 900	1"	25	216	216	216	230	58	68	14	11	15
	2"	50	368	372	368	300	176	93	64	42	45
	3"	80	381	384	381	380	223	120	120	100	125
	4"	100	457	460	457	430	224	129	152	136	150
	6"	150	610	613	610	550	251	175	380	350	375
	8"	200	737	740	737	650	329	220	577	451	554
	10"	250	838	841	838	775	420	260	930	910	920
	12"	300	965	968	965	900	481	302	1.290	1.010	1.255
	16"	400	1.130	1.140	1.130	1.150	560	370	2.180	1.800	2.188
	20"	500	1.321	1.334	1.321	1.400	640	458	3.850	3.180	3.890
	24"	600	1.549	1.568	1.549	1.600	888	525	5.550	5.400	5.500
Class 1500	1"	25	254	257	254	260	58	68	18	12	19
	2"	50	368	372	368	350	176	93	64	42	63
	3"	80	470	473	470	450	277	130	162	125	160
	4"	100	546	549	546	520	292	145	219	164	216
	6"	150	705	711	705	700	320	210	420	400	410
	8"	200	832	841	832	800	364	233	760	580	748
	10"	250	991	1.000	991	900	452	275	1.255	935	1.210
	12"	300	1.130	1.146	1.130	1.050	481	314	1.845	1.280	1.770
	16"	400	1.384	1.407	1.384	*	566	390	3.350	2.380	*
	20"	500	1.664	1.686	1.664	*	659	483	5.700	4.650	*
	24"	600	1.943	1.972	1.943	*	980	750	6.800	5.900	*
Class 2500	2"	50	451	454	451	*	176	93	77	44	*
	3"	80	578	584	578	*	287	140	228	160	*
	10"	250	1.270	1.292	1.270	*	510	390	1.500	1.350	*
	16"	400	1.714	1.737	1.714	*	620	450	4.200	3.700	*
	20"	500	1.999	2.022	1.999	*	710	640	6.400	5.100	*

* Total length is not standardised according to API. Length upon arrangement!

Shut-Off Ball Valve

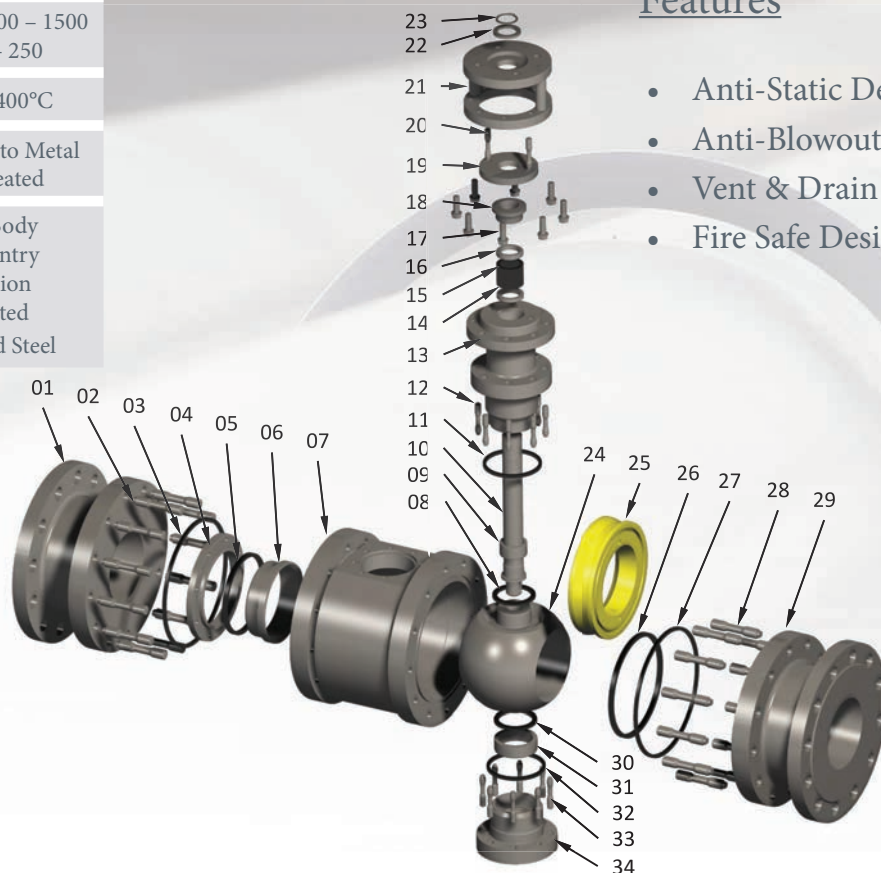
>SBV-NA<

Characteristics

Size	NPS 1" – 10" DN 25 – 250
Class	ANSI 400 – 1500 PN 64 – 250
Temperature	up to +400°C
Sealing System	- Metal to Metal - Soft Seated
Design	- Split Body - Side Entry - Trunnion Mounted - Forged Steel

Features

- Anti-Static Design
- Anti-Blowout Stem
- Vent & Drain Connection
- Fire Safe Design

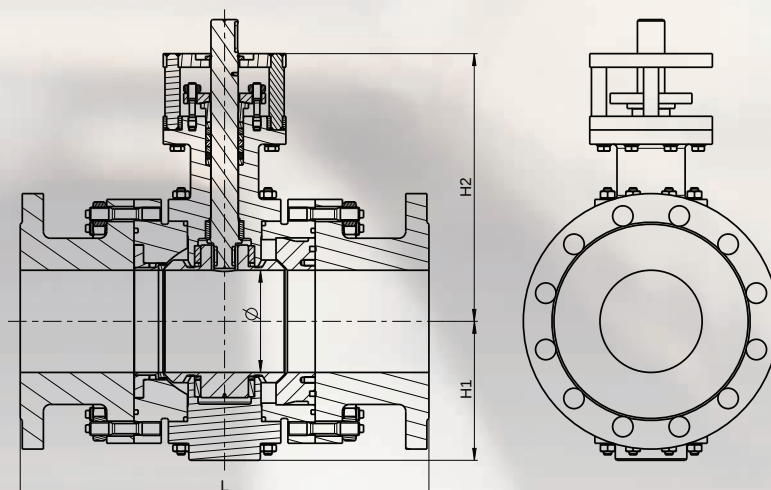


Pos.	Components	Standard Materials	
		EN	API 6D
1	Body Flange	1.0460 / P250GH	ASTM A105
2	Stud Bolt	1.7709 / 21Cr-MoV5-7	ASTM A193-B7
3	Seal	Graphite	Graphite
4	Thrust Piece	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
5	Seal	Graphite	Graphite
6	Seat Ring, c/w Coal Insert	1.4122 / X39Cr-Mo17-1	ASTM A276-420
7	Body	1.0460 / P250GH	ASTM A105
8	Stem Bearing	Graphite	Graphite
9	Stem Bearing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
10	Stem	1.4122 / X39Cr-Mo17-1	ASTM A276-420
11	Thrust Piece	Graphite	Graphite
12	Stud Bolt	1.7709 / 21 Cr-MoV 5 7	ASTM A193-B7
13	Stem Support	1.0460 / P250GH	ASTM A105
14	Washer	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
15	Seal	Graphite	Graphite
16	Washer	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
17	Screw	Carbon Steel 8.8	ASTM 325

Pos.	Components	Standard Materials	
		EN	API 6D
18	Thrust Piece	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
19	Gland Packing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
20	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
21	Mounting Bracket	1.0460 / P250GH	ASTM A350-LF2
22	Seal	Graphite	Graphite
23	Snap Ring	1.0601 / C60	ASTM A 576-1060
24	Ball	1.4122 / X39Cr-Mo17-1	ASTM A276-420
25	Control Disk Adapter	1.4122 / X39Cr-Mo17-1	ASTM A276-420
26	Seal	Graphite	Graphite
27	Seal	Graphite	Graphite
28	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
29	Body Flange	1.0460 / P250GH	ASTM A105
30	Trunnion Thrust Bearing	Graphite	Graphite
31	Trunnion Bushing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
32	Trunnion Seal	Graphite	Graphite
33	Trunnion Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
34	Trunnion Flange	1.0460 / P250GH	ASTM A105

Shut-Off Ball Valve

>SBV-NA<



RF = Raised Face
 RTJ = Ring Type Joint
 BW = Butt Weld
 FTF = Face-To-Face

Dimensions in mm

			Length								
ANSI	Size		ANSI B16.5			DIN EN 558	Height		approx. Weight (kg)		
	NPS	DN	L RF	L RTJ	L BW	L FTF	H1	H2	G RTJ, RF	G BW	G FTF
Class 400	1"	25	*	*	*	230	218	65	*	*	22
	2"	50	*	*	*	300	216	65	*	*	28
	3"	80	*	*	*	380	302	123	*	*	61
	4"	100	406	410	406	430	320	160	88	70	98
	6"	150	495	498	495	550	393	204	252	202	276
	8"	200	597	600	597	650	393	204	290	232	310
	10"	250	673	676	673	775	654	333	1.088	930	1.140

Class 600 - 1500 available upon request!

* Total length is not standardised according to API. Length upon arrangement!

Control Ball Valve

>CBV-SSA<

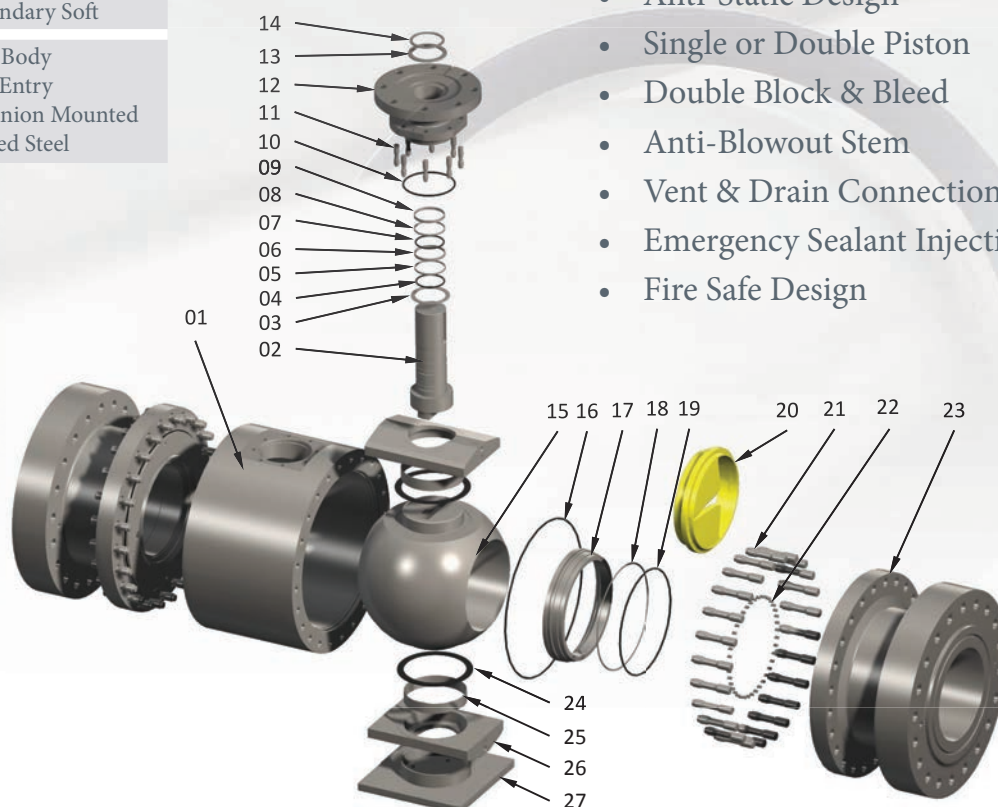


Characteristics

Size	NPS 1" – 24" DN 25 – 600
Class	ANSI 600 – 2500 PN 100 – 420
Sealing System	- Metal to Metal - Primary Metal; Secondary Soft
Design	- Split Body - Side Entry - Trunnion Mounted - Forged Steel

Features

- Customized Control Disc
- Multi-Pressure Reduction Design
- Anti-Static Design
- Single or Double Piston
- Double Block & Bleed
- Anti-Blowout Stem
- Vent & Drain Connection
- Emergency Sealant Injection
- Fire Safe Design

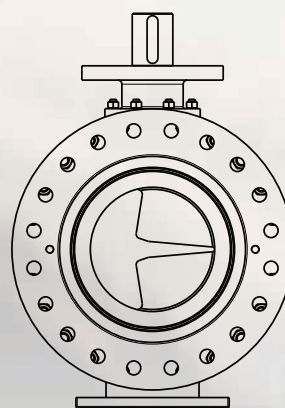
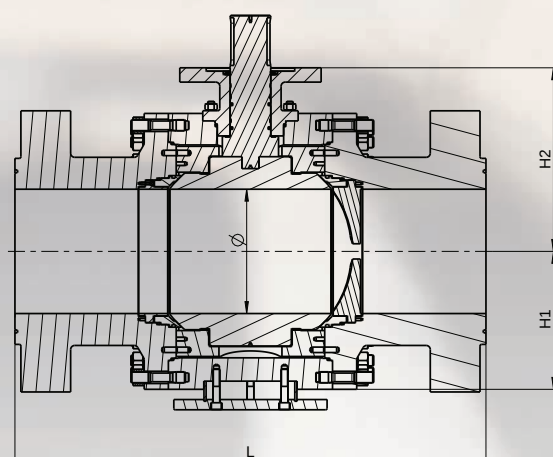


Pos.	Components	Standard Materials	
		EN	API 6D
1	Body	1.0566 / TSTE355	ASTM A350 F2
2	Stem	1.4021 / X20Cr13	ASTM A276-420
3	Stem Thrust Bearing	PTFE/Carbon	PTFE/Carbon
4	O-Ring	FPM/FKM	FPM/FKM
5	Back-up Ring	PTFE	PTFE
6	Stem Guide Ring	PTFE	PTFE
7	O-Ring	FPM/FKM	FPM/FKM
8	Back-up Ring	PTFE	PTFE
9	Stem Guide Ring	PTFE	PTFE
10	O-Ring	FPM/FKM	FPM/FKM
11	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
12	Stem Support	1.0566 / TSTE355	ASTM A350 F2
13	Washer	1.4571 / X6CrNiMo-Ti17-12-2	ASTM A479-316
14	Snap Ring	1.0601 / C60	ASTM A 576-1060

Pos.	Components	Standard Materials	
		EN	API 6D
15	Ball	1.4006 / X12Cr13	ASTM A182-F6a
16	O-Ring	FPM/FKM	FPM/FKM
17	Seat Ring	1.4006 / X12Cr13	ASTM A182-F6a
18	Back-up Ring	PTFE	PTFE
19	O-Ring	FPM/FKM	FPM/FKM
20	Control Disc	1.4122 / EK 3235	ASTM A276-420
21	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
22	Spring	1.4310 / X12CrNi17-7	ASTM A313-301
23	Body Flange	1.0566 / TSTE355	ASTM A350 F2
24	Trunnion Thrust Ring	PTFE/Carbon	PTFE/Carbon
25	Trunnion Bushing	Steel+PTFE	Steel+PTFE
26	Trunnion Plate	1.0547 / S355JOH	ASTM A572-50
27	Support Plate	1.0553 / S355JO	ASTM A572-50

Control Ball Valve

>CBV-SSA<



RF = Raised Face
RTJ = Ring Type Joint
BW = Butt Weld
FTF = Face-To-Face

Dimensions in mm

					Length								
ANSI	Size		Cv max. GPM		ANSI B16.5			DIN EN 558	Height		approx. Weight (kg)		
	NPS	DN	equal %	linear	L RF	L RTJ	L BW	L FTF	H1	H2	G RTJ, RF	G BW	G FTF
Class 600	1"	25	23	27	216	216	216	230	144,5	58	18	15	19
	2"	50	94	105	292	295	292	300	125,5	91,5	49	41	50
	3"	80	270	281	356	359	356	380	206	130	106	91	111
	4"	100	421	437	432	435	432	430	210,5	217,5	138	122	136
	6"	150	858	945	559	562	559	550	262	204	323	259	320
	8"	200	1544	1680	660	664	660	650	357	290	460	376	455
	10"	250	2418	2590	787	791	787	775	449	332	788	663	788
	12"	300	3315	3869	838	841	838	900	516	399	1.117	932	1.142
	16"	400	5678	6458	991	994	991	1150	524	390	1.943	1.663	2.033
	20"	500	9809	10920	1194	1200	1194	1400	705	532	3.362	2.847	3.477
	24"	600	12979	14134	1397	1407	1397	1600	778	643,5	5.179	4.479	5.329
Class 900	1"	25	23	27	216	216	216	230	57,5	67,5	18	15	19
	2"	50	94	105	368	372	368	300	175,5	92,5	69	47	50
	3"	80	270	281	381	384	381	380	222,5	120	126	106	131
	4"	100	421	437	457	460	457	430	224	129	158	142	156
	6"	150	858	945	610	613	610	550	251	175	388	358	383
	8"	200	1544	1680	737	740	737	650	329	220	587	461	564
	10"	250	2418	2590	838	841	838	775	420	260	943	923	933
	12"	300	3315	3869	965	968	965	900	481	302	1.307	1.027	1.272
	16"	400	5678	6458	1130	1140	1130	1150	560	370	2.208	1.828	2.216
	20"	500	9809	10920	1321	1334	1321	1400	639,5	457,5	3.897	3.227	3.937
	24"	600	12979	14134	1549	1568	1549	1600	888	525	5.629	5.479	5.579
Class 1500	1"	25	23	27	254	257	254	260	144,5	58	22	16	23
	2"	50	94	105	368	372	368	350	220,5	150,5	69	47	68
	3"	80	270	281	470	473	470	450	246,5	170,5	168	131	166
	4"	100	421	437	546	549	546	520	305	222	225	170	222
	6"	150	858	945	705	711	705	700	460	363	428	408	418
	8"	200	1544	1680	832	841	832	800	494,5	359,5	770	590	758
	10"	250	2418	2590	991	1000	991	900	567,5	426,5	1.268	948	1.223
	12"	300	3315	3869	1130	1146	1130	1050	527	325	1.862	1.297	1.787
	16"	400	5678	6458	1384	1407	1384	*	647	445	3.378	2.408	*
	20"	500	9809	10920	1664	1686	1664	*	824	567,5	5.747	4.697	*
	24"	600	12979	14134	1943	1972	1943	*	891	650	6.879	5.979	*
Class 2500	2"	50	94	105	451	454	451	*	175,5	92,5	77	44	*
	3"	80	270	281	578	584	578	*	287	140	228	160	*
	10"	250	2418	2590	1270	1292	1270	*	510	390	1500	1350	*
	16"	400	5678	6458	1714	1737	1714	*	620	450	4200	3700	*
	20"	500	9810	10920	1999	2022	1999	*	710	640	6400	5100	*

* Total length is not standardised according to API. Length upon arrangement!

Control Ball Valve

>CBV-NA<

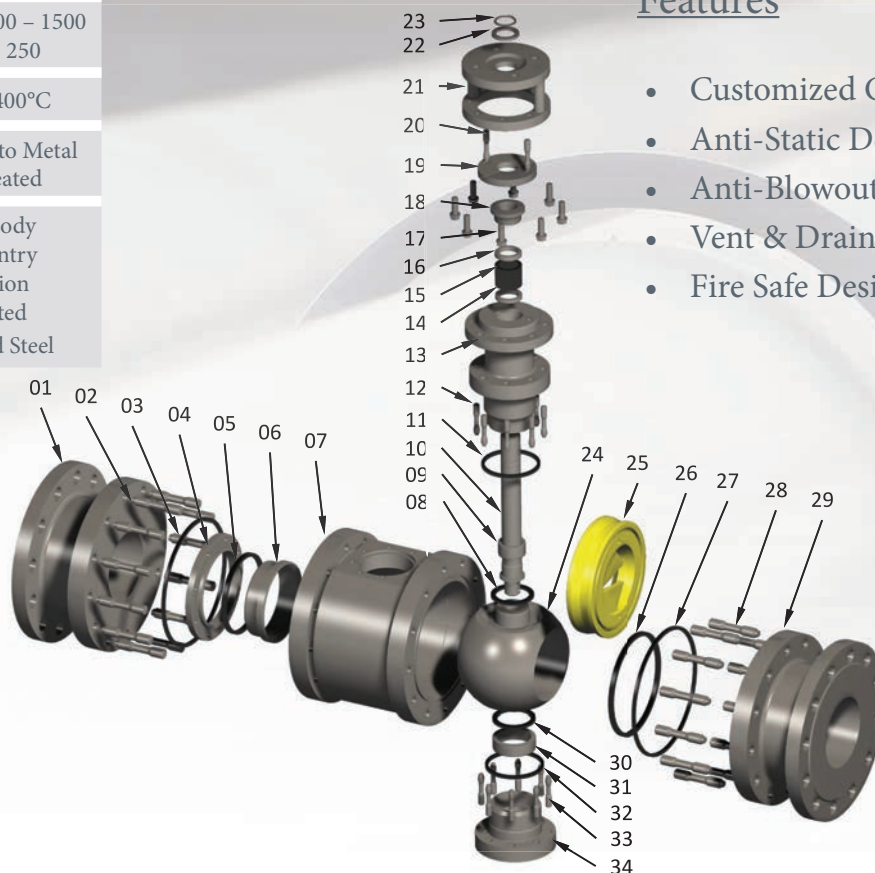


Characteristics

Size	NPS 1" – 10" DN 25 – 250
Class	ANSI 400 – 1500 PN 64 – 250
Temperature	up to +400°C
Sealing System	- Metal to Metal - Soft Seated
Design	- Split Body - Side Entry - Trunnion Mounted - Forged Steel

Features

- Customized Control Disc
- Anti-Static Design
- Anti-Blowout Stem
- Vent & Drain Connection
- Fire Safe Design

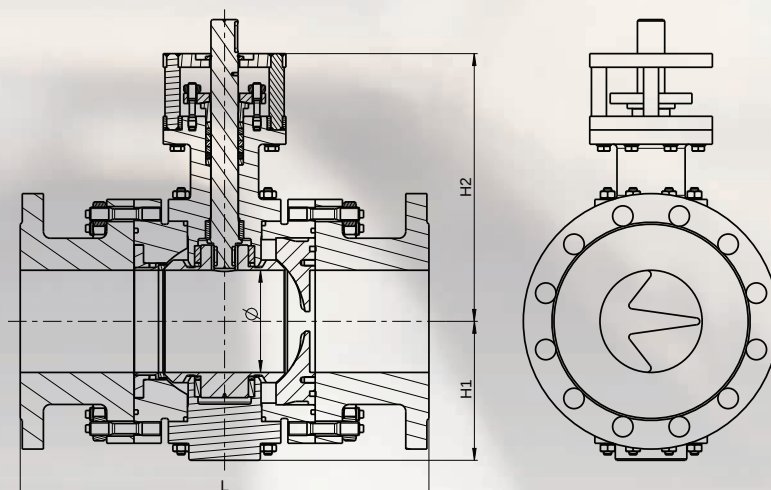


Pos.	Components	Standard Materials	
		EN	API 6D
1	Body Flange	1.0460 / P250GH	ASTM A105
2	Stud Bolt	1.7709 / 21Cr-MoV5-7	ASTM A193-B7
3	Seal	Graphite	Graphite
4	Thrust Piece	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
5	Seal	Graphite	Graphite
6	Seat Ring, c/w Coal Insert	1.4122 / X39Cr-Mo17-1	ASTM A276-420
7	Body	1.0460 / P250GH	ASTM A105
8	Stem Bearing	Graphite	Graphite
9	Stem Bearing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
10	Stem	1.4122 / X39Cr-Mo17-1	ASTM A276-420
11	Thrust Piece	Graphite	Graphite
12	Stud Bolt	1.7709 / 21 Cr-MoV 5 7	ASTM A193-B7
13	Stem Support	1.0460 / P250GH	ASTM A105
14	Washer	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
15	Seal	Graphite	Graphite
16	Washer	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
17	Screw	Carbon Steel 8.8	ASTM 325

Pos.	Components	Standard Materials	
		EN	API 6D
18	Thrust Piece	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
19	Gland Packing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
20	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
21	Mounting Bracket	1.0460 / P250GH	ASTM A350-LF2
22	Seal	Graphite	Graphite
23	Snap Ring	1.0601 / C60	ASTM A 576-1060
24	Ball	1.4122 / X39Cr-Mo17-1	ASTM A276-420
25	Control Disk	1.4122 / X39Cr-Mo17-1	ASTM A276-420
26	Seal	Graphite	Graphite
27	Seal	Graphite	Graphite
28	Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
29	Body Flange	1.0460 / P250GH	ASTM A105
30	Trunnion Thrust Bearing	Graphite	Graphite
31	Trunnion Bushing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
32	Trunnion Seal	Graphite	Graphite
33	Trunnion Stud Bolt	1.7225 / 42CrMo4	ASTM A193-B7
34	Trunnion Flange	1.0460 / P250GH	ASTM A105

Control Ball Valve

>CBV-NA<



RF = Raised Face
RTJ = Ring Type Joint
BW = Butt Weld
FTF = Face-To-Face

Dimensions in mm

ANSI	Size		Cv max. GPM		Length				Height		approx. Weight (kg)		
					ANSI B16.5			DIN EN 558					
					L RF	L RTJ	L BW	L FTF					
	NPS	DN	equal %	linear					H1	H2	G RTJ, RF	G BW	G FTF
Class 400	1"	25	17	20	*	*	*	230	218	65	*	*	22
	2"	50	44	50	*	*	*	300	216	65	*	*	28
	3"	80	116	131	*	*	*	380	302	123	*	*	61
	4"	100	312	324	406	410	406	430	320	160	88	70	98
	6"	150	636	701	495	498	495	550	393	204	252	202	276
	8"	200				600	597	650	393	204	290	232	310
	10"	250	1.792	1.919	673	676	673	775	654	333	1.088	930	1.140

Class 600 - 1500 available upon request!

* Total length is not standardised according to API. Length upon arrangement!

Overview Ball Valves

Control and Shut-Off Ball Valves																		
	Size & Pressure			Sealing System			Medium							Temperature			Connection	
	NPS	DN	PN	MM*	PMSS*	SO*	Oil	Natural Gas	Sour Gas	Process Water	Sole Water	Steam	Petro-chemical	down to -60°C	-29°C to +150°C	-10°C to +400°C	Flange	Weld End
Shut-Off Ball Valve Type SSA																		
Class 600	1-24	25-600	100	x	x		x	x	x	x	x		x	x	x		x	x
Class 900	1-24	25-600	160	x	x		x	x	x	x	x		x	x	x		x	x
Class 1500	1-24	25-600	250	x	x		x	x	x	x	x		x	x	x		x	x
Class 2500	2-20	50-500	420	x	x		x	x	x	x	x		x	x	x		x	x
Shut-Off Ball Valve Type NA																		
Class 400	1-10	25-250	64	x		x				x		x				x	x	x
Class 900	**	**	160	**		**				**		**				**	**	**
Class 1500	**	**	250	**		**				**		**				**	**	**
Control Ball Valve Type SSA																		
Class 600	1-24	25-600	100	x	x		x	x	x	x	x		x	x	x		x	x
Class 900	1-24	25-600	160	x	x		x	x	x	x	x		x	x	x		x	x
Class 1500	1-24	25-600	250	x	x		x	x	x	x	x		x	x	x		x	x
Class 2500	2-20	50-500	420	x	x		x	x	x	x	x		x	x	x		x	x
Control Ball Valve Type NA																		
Class 400	1-10	25-250	64	x		x				x		x				x	x	x
Class 900	**	**	160	**		**				**		**				**	**	**
Class 1500	**	**	250	**		**				**		**				**	**	**

**Special applications and dimensions available upon request!

Available materials for servere applications:
Duplex, Super Duplex and Cladding e.g Inconel, AISI 316L, Tungsten Carbide, Chrome

*MM = Metal to Metal
*PMSS = Primary Metal; Secondary Soft
*SO = Soft Seated

Desuperheater

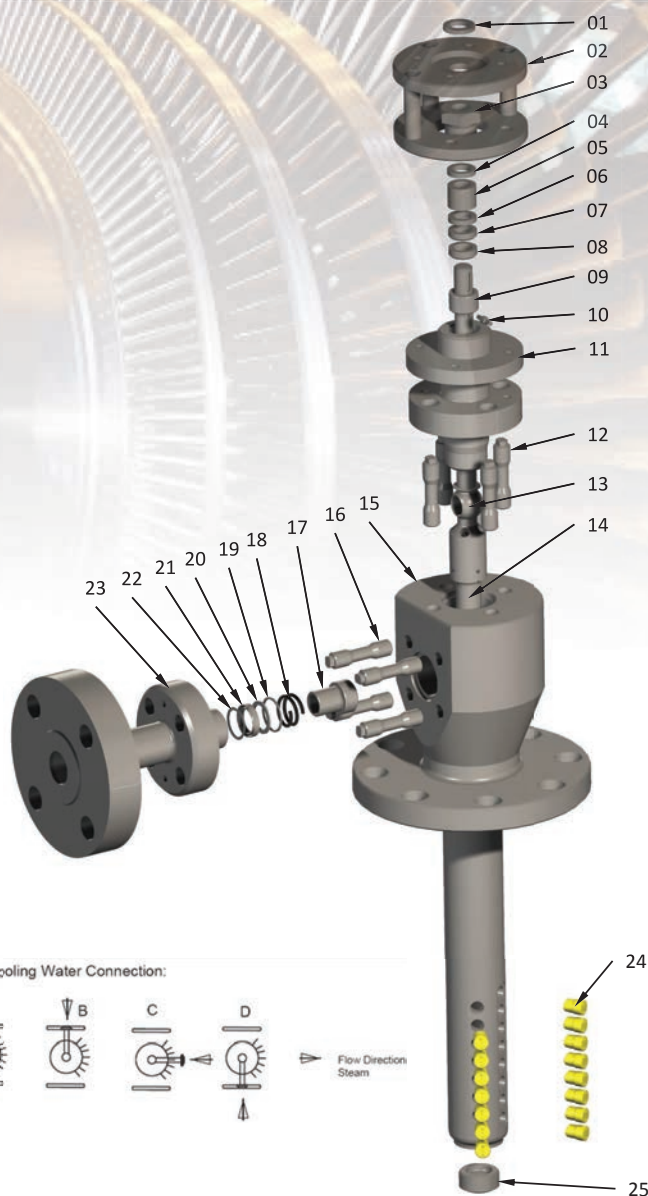
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Characteristics

Class	up to ANSI 2500 up to PN 420
Connection Cooling Water	≥ 1" / DN 25
Connection Steam Pipe	≥ 3" / DN 80
Temperature	up to +580°C
Nozzle Quantity	6 - 15
Control Ratio	1 : 50

Design Advantages

- Very Precise Temperature Regulation
- Special Nozzle Design for Permanent Atomization
- Control and Shut-Off Function
- Minimum Droplet Size
- Multistage Pressure Reduction
- Customer Specific Regulation Curve



Pos.	Components	Standard Materials	
		EN	API 6D
1	Washer	2.0966 / CuAl-10Ni5Fe4	ASTM B150
2	Mounting Bracket	1.0460 / P250GH	ASTM A105
3	Gland	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
4	Packing Ring	Graphite	Graphite
5	Seal	Graphite	Graphite
6	Packing Ring	Graphite	Graphite
7	Washer	1.4541 / X6CrNi-Ti18-10	ASTM A182-F321
8	Spacer	1.4541 / X6CrNi-Ti18-10	ASTM A182-F321
9	Stem Bearing	1.4571 / X6CrNi-MoTi17-12-2	ASTM A479-316
10	Position Indicator	1.4301 / X5CrNi18-10	AISI 304
11	Stem Support	1.7380 / 10CrMo9-10	ASTM A387-22
12	Stud bolt	1.7709 / 21 CrMoV 5 7	ASTM A193-B7
13	Stem, Upper Part	1.4122 / X39CrMo17-1	ASTM A276-420

Pos.	Components	Standard Materials	
		EN	API 6D
14	Stem, Lower Part	1.4301 / X5CrNi18-10	AISI 304
15	Body	1.7380 / 10CrMo9-10	ASTM A387-22
16	Stud Bolt	1.7709 / 21 CrMoV 5 7	ASTM A193-B7
17	Seat Ring	1.4122 / X39CrMo17-1	ASTM A276-420
18	Spring	1.4310 / X12CrNi17-7	ASTM A313-301
19	Snap Ring	1.0601 / C60	ASTM A 576-1060
20	Back-up Ring	1.4541 / X6CrNi-Ti18-10	ASTM A182-F321
21	Seal	PTFE	PTFE
22	Back-up Ring	1.4541 / X6CrNi-Ti18-10	ASTM A182-F321
23	Cooling Water Connection	1.7380 / 10CrMo9-10	ASTM A387-22
24	Nozzle	1.4122 / X39CrMo17-1	ASTM A182-F6a
25	Plug Screw	1.7380 / 10CrMo9-10	ASTM A387-22

References

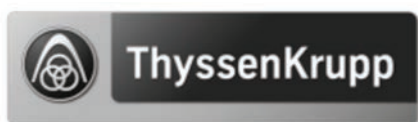


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