A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.

VALVITALIA GROUP



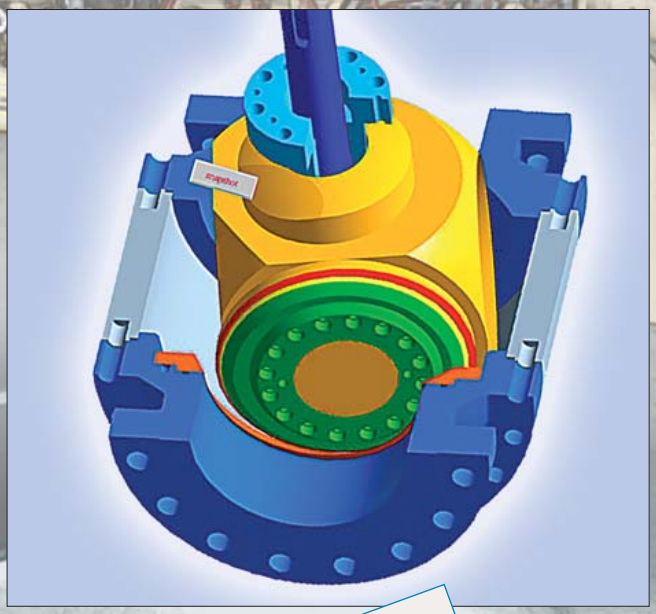
Konosphera

TGT tormene gas technology

TGT
tormene gas technology

Established in 1907, Tormene Gas Technology is a successful Company that for many years has been dedicating its activity to the design and production of ball valves and Natural Gas Treatment Equipment for industrial, civil and power generation applications, offering a variety of products to give a high degree of customisation, Tormene gas Technology was among the first industrial Companies to address the problem of quality in a wholly innovative manner and was a leader in the implementation of the major process control protocols and to make in roads in the application of instruments and techniques capable of instigating quality rather than simply checking production standards.

The Company's attainment of prestigious certifications underlines a level of overall quality unmatched in the sector: not just extremely high standards of quality and service, but research and innovation in terms of technological and management expertise.











Konosphera

The KONOSPHERA ball valve design represents the new state of the art in metal seated ball valve technology.
This patented design incorporates the major advantages of other metal seated ball valves as well as the advantages of generically different valve designs such as gate and globe valves. These advantages are:

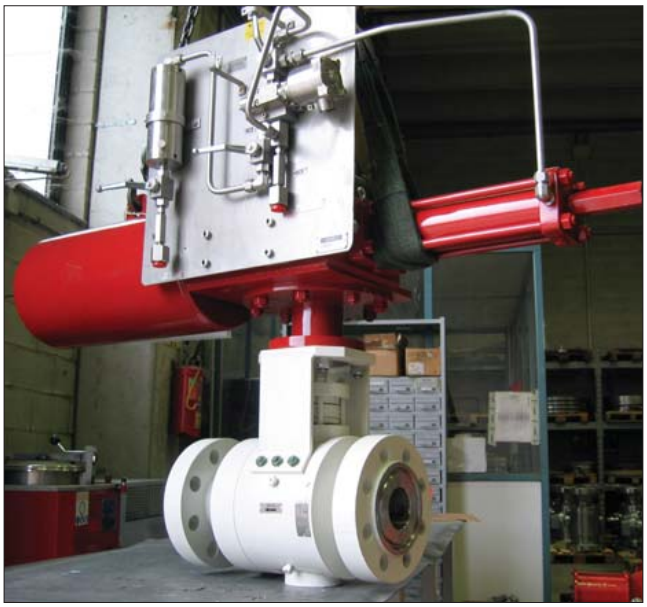


Metal to metal sealing system

which provides **ZERO LEAKAGE** when tested in the normal flow direction.

Torque seating

sealing forces are generated by torque, the valve retains the shut-off indipendent of line pressure.



Non rubbing rotation

is achieved as a result of the cone in cone rotation system. This concept insures that the ball contacts the seat ONLY at the full closed position thereby eliminating ALL rubbing during the stroke of the valve.

Resilient sealing

is obtained by allowing the primary seal member to float on the ball. By properly tailoring the cross sectional area of the seal, it both flexes and compresses during seating thus generating a resilient metallic seal.

Trunnion mounted

ball provides a solid and rigid assembly which is suitable for high pressures and temperatures as well as bi-directional shut-off.



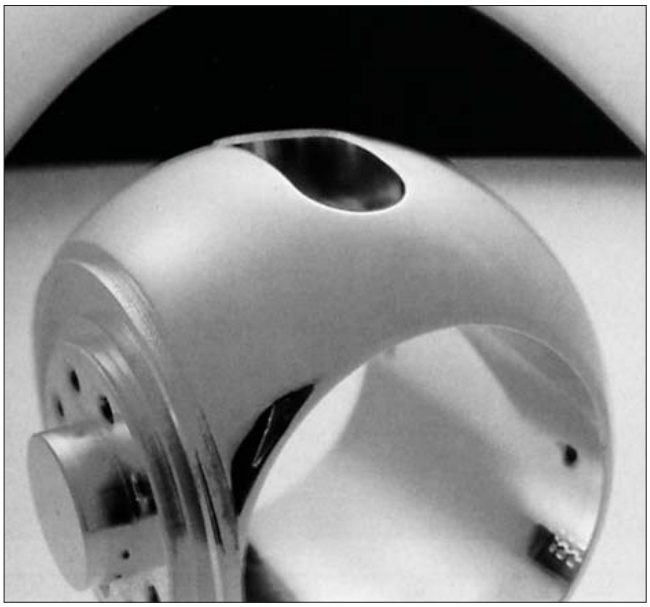
Inherently firesafe

because there is NO component of the valve which has thermal limit below the temperature required by all of the existing firetest criteria.
The KONOSPHERA ball valve provides superior shut-off capability for a longer period of time when used in applications in which soft seated valves are currently used. As a result of its metal to metal sealing system, which does not rub the seal surface during valve travel, the KONOSPHERA valve is relatively unaffected by temperature(including fire), abrasive or cycle frequency.
Moreover the KONOSPHERA valve can be manufactured in a Top Entry body style, allowing the removal of both the ball and the valve seat through the top of the valve while the remaining portions of the body remain flanged to the pipe.

VALVITALIA reserves the right to change design, specification and materials without notice

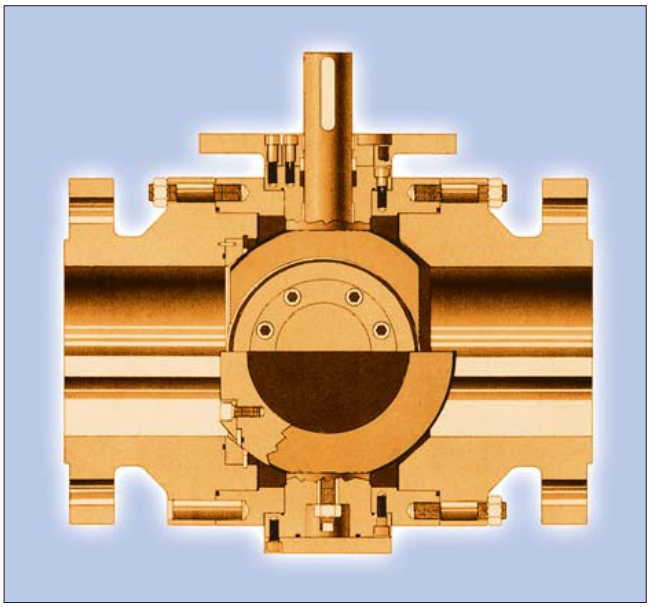
Shut-Off

The KONOSPHERA valve, with its resilient all metal sealing system, can meet the same testing requirements of soft seated valves as per API 6D, API 598, BS5351, BS 6755. Although the KONOSPHERA has a preferred flow direction for shut-off, it can be built to meet API 6D, API 598, BS 5351, BS 6755 for pressure in both directions.



Firesafe

With an all metal sealing system, the KONOSPHERA ball valve design is not just fire tested or firesafe, it s INHERENTLY FIRESAFE.
This means that no components of the valve is detrimentally affected during a fire simulation as defined by API 607, OCMA FSV.1, BS 5351, BS 5146, BS 6755, EXXON BP3.14-1 -2A.
The KONOSPHERA design will provide unaffected shutoff capability during and after the fire test criteria.



Non rubbing movement control capability

The caming action resulting from the triple eccentricity coneincone seal movement eliminates seal to seal rubbing during the stroke of the valve.
This type of ball rotation makes the KONOSPHERA ideal for use as a control valve because the seal and seats are in contact only at the fully closed position. Once the valve begins to open, the seal is away from the seat around the entire circumference of the ball thereby eliminating seal to seat rubbing. By eliminating ball to seat contact, erosion is minimised.
Additionally, in applications with solids or abrasive fluids, the seal and seat surfaces are preserved with the non rubbing design.



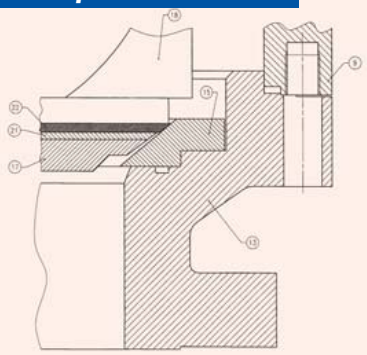
Trunnion design

Some ball valves designs make use of the shaft to provide alignment for the ball thereby subjecting the shaft to torsional and bending loads.
The ball on the KONOSPHERA valve is mounted on trunnions both at the top and at the bottom of the ball. On the larger diameter valves the trunnion is independent of the shaft and eliminates all forces on the shaft other than pure torque. This reduces the stresses on the shaft and provides for the highest level of rigidity through the center of the valve which directly relates to valve life expectancy.

Seating principle

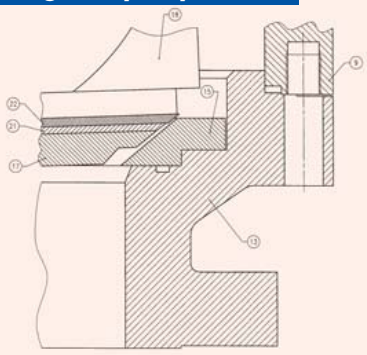
The patented geometry of the seal system in the KONOSPHERA is based on a combination of a conical geometry with a triple offset seal together with metallic resiliency.
The seal ring is located on the ball, the seat on the body. The centre of the seal is double off set relative to the shaft, provides for a caming action of the seal as it approaches of the seat. The third off set relevent to the seal axis, allows contact without rubbing of the sealing surfaces.
The conical surfaces of both the seal and the seat have been so designed that the forces developed between the seal and seat are totally symmetrical around the centre of the seal. These forces are torque generated and impose a uniform compressive load on the seal itself.
The seal is not rigidly fixed to the ball but rather retained on it. This allows the seal to have axial freedom of movement.
With uniform compressive forces around the circumference of the seal, the seal flexes to assume the exact shape of the seat. With additional torque applied to the shaft, the seal will compress providing resiliency to the system.
When the valve is unseated the entire seal surface completely disengages upon rotation and the cams away from the seat. In the open position the seal and the ball are not in contact with the seat which means that all the cavities in the valve body are flushed while the valve is open.
The torque characteristics for the opening and closing stroke of the valve are almost identical thereby reducing hysteresis and increasing controlability.

Closed position



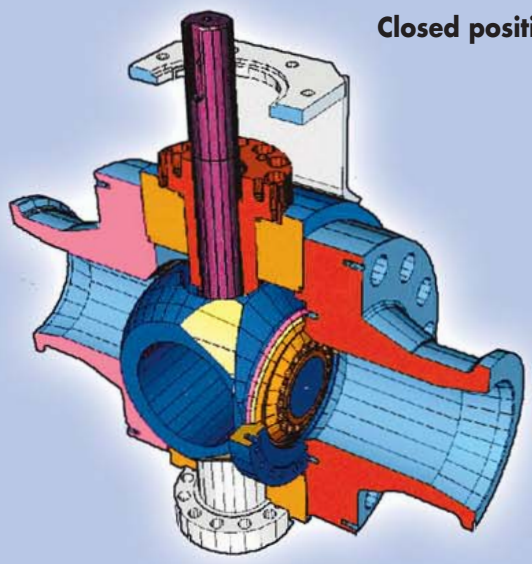
22 Sealing ring
21 Renforced ring
18 Ball
17 Retainer
15 Seat
13 Seat body
9 Female body

1 Degree open position

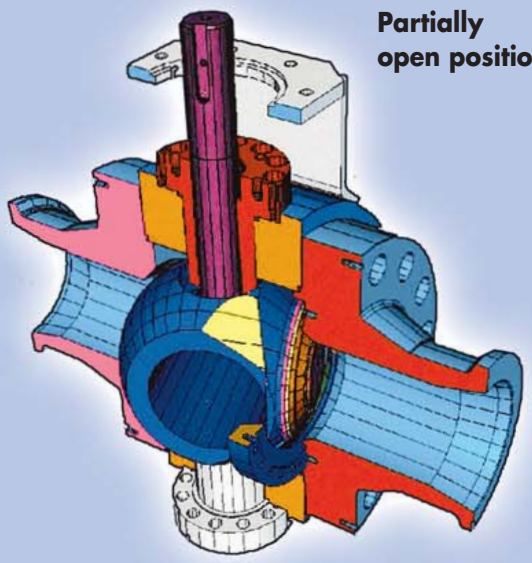


22 Sealing ring
21 Renforced ring
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17 Retainer
15 Seat
13 Seat body
9 Female body

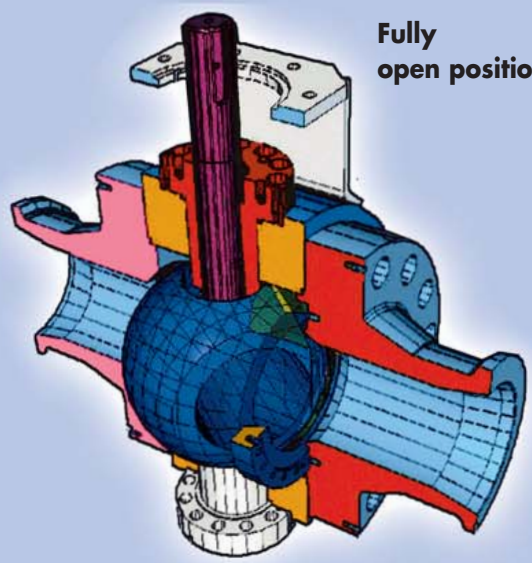
Closed position



Partially open position



Fully open position



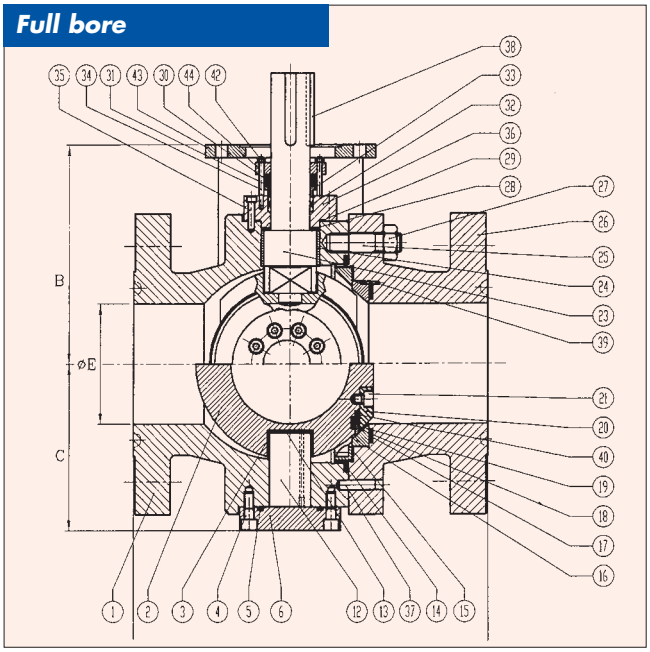
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Konosphera Two pieces body ANSI 150 - ANSI 2500

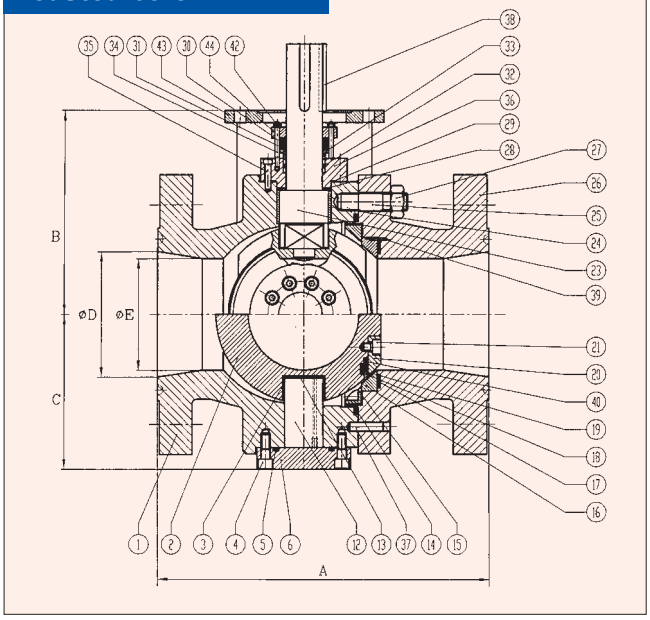
No.	Part name	Standard material
1	Female body	A 105
2	Ball	A 105 ENP
3	Trunnion Bearing	STEEL + PTFE
4	Screw	A 193 B7
*5	Sealing ring	F 316 + GRAPHITE
6	Lower Flange	A 105
12	Trunnion	A 564 T 630
13	Thrust washer	STEEL + PTFE
* 14	Sealing ring	F 316 + GRAPHITE
** 15	Seat retainer ring	A 105
* 16	Seat	A 182 F316 + WC
* 17	Sealing ring	F 316 + GRAPHITE
* 18	Reinforcing ring	F 316
* 19	Sealing ring	UNS S31803
20	Retainer	A 105 NP
21	Screw	A 193 B7
23	Stem	A 564 T630
24	Stem bearing	STEEL + PTFE
25	Stud bolt	A 193 B7
26	Male body	A 105
27	Nut	A 194 2H
28	Thrust washer	STEEL + PTFE
* 29	Sealing ring	F 316 + GRAPHITE
30	Disk spring	50 Cr V4
* 31	Gland seal	FLEX GRAPHITE
* 32	Gland seal	BRAIDED GRAPHITE
33	Packing follower	A 105
34	Stud bolt	A 193 B7
35	Screw	A 193 B7
36	Gland flange	A 105
37	Body pin	C 60
38	Key way	C 60
39	Seat pin	C 60
* 40	Reinforced ring	UNS S31803
42	Nut	A 194 2H
43	Gear top flange	CARB. STEEL
44	Packing flange	A 105
45	Stud bolt	A 193 B7
46	Nut	A 194 2H

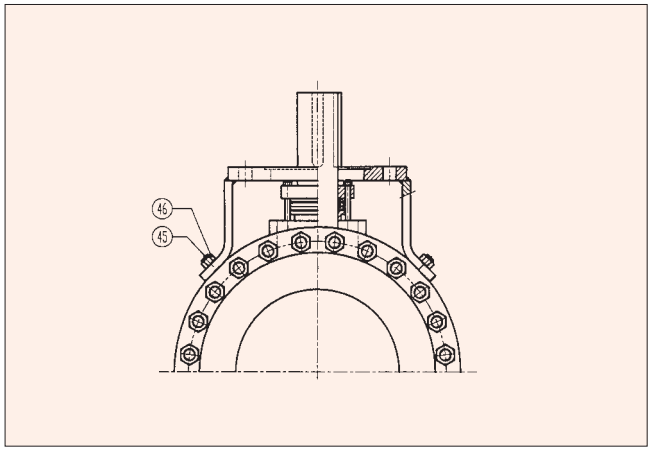
The parts markeed with (∗) are supplied in the spare parts kit, recommended as stock.
(∗∗) ANSI 150 to 600 only.

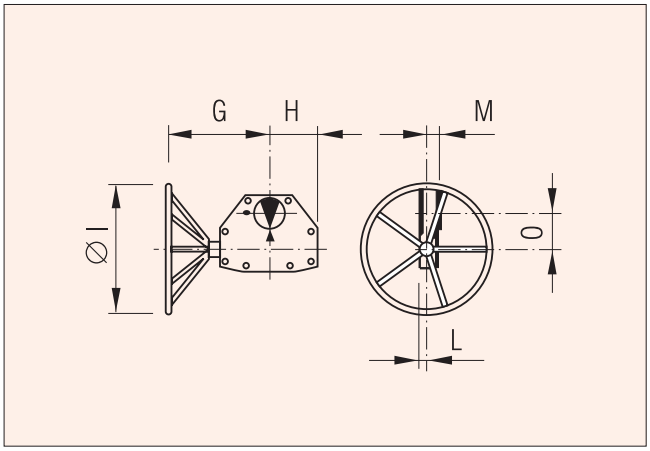
Full bore



Reduced bore







Two pieces body ANSI 150 - ANSI 2500 - Full bore

Size	ANSI	A	B	C	D	E	F	G	H	I	L	M	N	O	Weight Kg
2″	150	191	180	101	-	51	-	260	115	300	38	45	-	59	30
3″	150	216	205	130	-	76	-	260	115	300	38	45	-	59	49
4″	150	241	233	155	-	98	-	260	115	300	38	45	-	59	75
6″	150	406	273	210	-	152	-	300	150	450	47	50	-	80	124
2″	300	232	180	101	-	51	-	260	115	300	38	45	-	59	37
3″	300	299	205	130	-	76	-	260	115	300	38	45	-	59	62
4″	300	321	233	155	-	98	-	260	115	300	38	45	-	59	95
6″	300	419	273	210	-	152	-	300	150	450	47	50	-	80	205
2″	600	295	180	101	-	51	-	260	115	300	38	45	-	59	46
3″	600	432	205	130	-	76	-	260	115	300	38	45	-	59	79
4″	600	559	233	155	-	98	-	260	115	300	38	45	-	59	134
6″	600	660	273	210	-	152	-	300	150	450	47	50	-	80	243
2″	900	372	155	130	-	47	-	260	115	300	38	45	-	59	65
3″	900	384	210	190	-	70	-	260	115	300	38	45	-	59	100
4″	900	460	250	220	-	92	-	300	150	450	47	50	-	80	130
2″	1500	372	155	130	-	47	-	260	115	300	38	45	-	59	65
3″	1500	473	210	190	-	70	-	300	150	450	47	50	-	80	125
4″	1500	549	250	220	-	92	-	300	150	450	47	50	-	80	180
2″	2500	454	155	130	-	47	-	260	115	300	38	45	-	59	110
3″	2500	584	210	190	-	70	-	300	150	450	47	50	-	80	260
4″	2500	683	250	220	-	92	-	450	175	600	50	60	-	100	360





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Two pieces body ANSI 150 - ANSI 2500 - Reduced bore

Size Inch	ANSI	A	B	C	D	E	F	G	H	I	L	M	N	O	Weight Kg
3x2	150	216	180	101	76	51	-	260	115	300	38	45	-	59	45
4x3	150	241	205	130	102	76	-	260	115	300	38	45	-	59	58
6x4	150	406	233	155	152	102	-	260	115	300	38	45	-	59	87
8x6	150	470	273	210	203	152	-	300	150	450	47	50	-	80	153
3x2	300	232	180	101	76	51	-	260	115	300	38	45	-	59	55
4x3	300	299	205	130	102	76	-	260	115	300	38	45	-	59	87
6x4	300	321	233	155	152	102	-	260	115	300	38	45	-	59	103
8x6	300	419	273	210	203	152	-	300	150	450	47	50	-	80	230
3x2	600	216	180	101	76	51	-	260	115	300	38	45	-	59	72
4x3	600	241	205	130	102	76	-	260	115	300	38	45	-	59	86
6x4	600	406	233	155	152	102	-	260	115	300	38	45	-	59	149
8x6	600	470	273	210	203	152	-	300	150	450	47	50	-	80	270
3x2	900	384	180	150	70	57	-	260	115	300	38	45	-	59	90
4x3	900	460	210	190	92	70	-	260	115	300	38	45	-	59	130
6x4	900	613	250	220	136	92	-	300	150	450	47	50	-	80	240
3x2	1500	473	180	150	70	57	-	260	115	300	38	45	-	59	115
4x3	1500	549	210	190	92	70	-	300	150	450	47	50	-	80	160
6x4	1500	711	250	220	136	92	-	300	150	450	47	50	-	80	250
3x2	2500	584	180	150	64	54	-	260	115	300	38	45	-	59	190
4x3	2500	683	210	190	89	64	-	300	150	450	47	50	-	80	300
6x4	2500	927	150	220	133	89	-	450	175	600	50	60	-	100	420



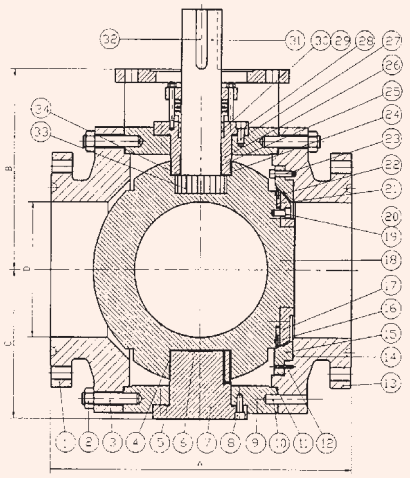


Konosphera Three pieces body ANSI 150 - ANSI 2500

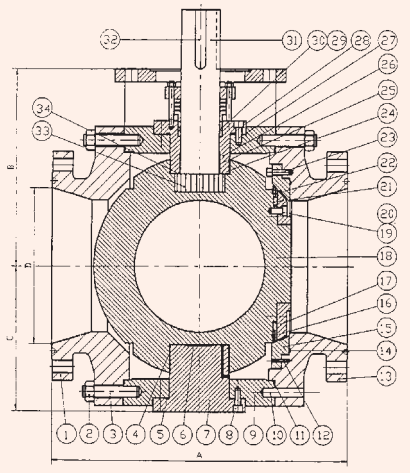
No.	Part name	Standard Material
1	Male body	A 105
2	Nut	A 194 2H
3	Stud bolt	A 193 B7
4	Trunnion bearing	STEEL + PTFE
*5	Sealing ring	F 316 + GRAPHITE
6	Thrust washer	STEEL + PTFE
7	Lower trunnion	A 105
8	Screw	A 193 B7
9	Female body	A 105
10	Pin	C 60
* 11	Sealing ring	F 316 + GRAPHITE
12	Pin	C 60
13	Seat body	A 105
* 14	Sealing ring	F 316 + GRAPHITE
* 15	Seat	A 182 F316 + WC
* 16	Sealing ring	F 316 + GRAPHITE
17	Retainer	A 105
18	Ball	A 105 ENP
19	Screw	A 193 B7
20	Screw	A 193 B7
* 21	Reinforcing ring	UNS S31803
* 22	Sealing ring	UNS S31803
23	Screw	A 193 B7
24	Bearing	STEEL + PTFE
25	Stem bearing	STEEL + PTFE
26	Top trunnion	A 105
27	Screw	A 193 B7
* 28	Sealing ring	F 316 + GRAPHITE
* 29	Gland seal	GRAFOIL
* 30	Gland seal	GRAFOIL
31	Stem	A 564 T630
32	Key way	C 60
* 33	Pin	A 564 T630
34	Thrust washer	STEEL + PTFE
* 35	Sealing ring	BRAIDED GRAPHITE
36	Nut	A 194 2H
37	Disk spring	50 Cr V4
38	Gland flange	A 105
39	Packing follower	A 105
40	Stud bolt	A 193 B7
41	Actuator flange	CARB. STEEL
42	Stud bolt	A 193 B7
43	Nut	A 193 B7
44	Lifting lug	CARB. STEEL

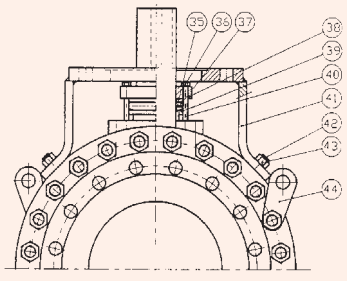
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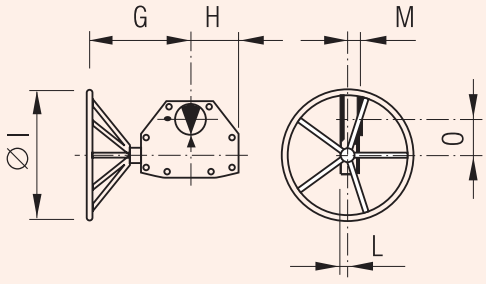
Full bore



Reduced bore







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TGT tormene gas technology

Konosphera Three pieces body ANSI 150 - ANSI 2500 - Full bore

Size	ANSI	A	B	C	D	E	F	G	H	I	L	M	N	O	Weight Kg
8″	150	470	230	205	203	-	-	450	175	600	50	60	-	100	210
10″	150	546	270	250	254	-	-	450	175	600	50	60	-	100	380
12″	150	622	320	310	305	-	-	420	230	600	100	125	-	100	690
14″	150	698	345	330	337	-	-	420	230	600	100	125	-	100	1200
16″	150	775	370	360	387	-	-	470	260	600	105	140	-	130	1400
18″	150	876	420	410	438	-	-	470	260	600	105	140	-	130	1750
20″	150	927	502	480	489	-	-	470	260	600	105	140	-	130	2300
24″	150	1080	625	590	591	-	-	580	325	600	125	155	-	170	2500
28″	150	-	790	695	686	-	-	580	325	600	125	155	-	170	3100
30″	150	-	830	780	737	-	-	580	325	600	125	155	-	170	4900
32″	150	-	900	810	781	-	-	700	385	600	155	185	-	225	6700
36″	150	-	950	890	876	-	-	700	385	600	155	185	-	225	8200
40″	150	-	1050	950	978	-	-	780	430	600	200	215	-	260	10200
48″	150	-	1230	1160	1168	-	-	780	430	600	200	215	-	260	18100
8″	300	518	230	205	203	-	-	450	175	600	50	60	-	100	260
10″	300	584	270	250	254	-	-	450	175	600	100	125	-	100	500
12″	300	664	320	310	305	-	-	420	230	600	100	125	-	100	750
14″	300	778	345	330	337	-	-	420	230	600	105	140	-	130	1290
16″	300	854	370	360	387	-	-	470	260	600	105	140	-	130	1600
18″	300	930	420	410	438	-	-	470	260	600	105	140	-	130	2050
20″	300	1010	502	480	489	-	-	470	260	600	125	155	-	170	2500
24″	300	1165	625	590	591	-	-	580	325	600	125	155	-	170	3000
28″	300	1372	790	695	686	-	-	580	325	600	125	155	-	170	4510
30″	300	1422	830	780	737	-	-	580	325	600	155	185	-	225	5750
32″	300	1553	900	810	781	-	-	700	385	600	155	185	-	225	7400
36″	300	1756	950	890	876	-	-	700	385	600	200	215	-	260	8900
40″	300	-	1050	950	978	-	-	780	430	600	200	215	-	260	11200
48″	300	-	1230	1160	1168	-	-	780	430	600	200	215	-	260	19100
8″	600	664	230	205	203	-	-	450	175	600	50	60	-	100	450
10″	600	791	270	250	254	-	-	450	175	600	50	60	-	100	740
12″	600	841	320	310	305	-	-	420	230	600	100	125	-	100	1090
14″	600	892	345	330	337	-	-	420	230	600	100	125	-	100	1750
16″	600	994	370	360	387	-	-	470	260	600	105	140	-	130	2340
18″	600	1095	420	410	438	-	-	470	260	600	105	140	-	130	3290
20″	600	1200	502	480	489	-	-	470	260	600	105	140	-	130	3700
24″	600	1407	625	590	591	-	-	580	325	600	125	155	-	170	4300
28″	600	1562	790	695	686	-	-	580	325	600	125	155	-	170	6000
30″	600	1664	830	780	737	-	-	580	325	600	125	155	-	170	7590
32″	600	1794	900	810	781	-	-	700	385	600	155	185	-	225	9100
36″	600	2099	950	890	876	-	-	700	385	600	155	185	-	225	10600
40″	600	-	1050	950	978	-	-	780	430	600	200	215	-	260	14400
48″	600	-	1230	1160	1168	-	-	780	430	600	200	215	-	260	23900
6″	900	613	300	280	146	-	-	450	175	600	50	60	-	100	500
8″	900	740	310	250	190	-	-	420	230	600	100	125	-	100	650
10″	900	841	350	280	238	-	-	470	260	600	105	140	-	130	1050
12″	900	968	400	325	282	-	-	470	260	600	105	140	-	130	1550
14″	900	1038	450	165	311	-	-	470	260	600	105	140	-	130	2500
16″	900	1140	670	640	356	-	-	470	260	600	105	140	-	130	3350
18″	900	1232	760	690	400	-	-	580	325	600	125	155	-	170	4700
20″	900	1334	890	780	444	-	-	580	325	600	125	155	-	170	6500
24″	900	1569	1010	900	533	-	-	580	325	600	125	155	-	170	9350
6″	1500	711	300	280	146	-	-	450	175	600	50	60	-	100	800
8″	1500	841	310	250	178	-	-	420	230	600	100	125	-	100	1250
10″	1500	1000	350	180	22	-	-	470	260	600	105	140	-	130	1800
12″	1500	1146	400	325	263	-	-	470	260	600	105	140	-	130	2750
14″	1500	1276	450	365	289	-	-	470	260	600	105	140	-	130	4000
16″	1500	1407	670	640	330	-	-	470	260	600	105	140	-	130	5000
18″	1500	1559	760	690	371	-	-	580	325	600	125	155	-	170	6700
20″	1500	1686	890	780	416	-	-	580	325	600	125	155	-	170	9500
24″	1500	2070	1010	900	498	-	-	580	325	600	125	155	-	170	13500
6″	2500	927	270	240	111	-	-	470	260	600	105	140	-	130	820
8″	2500	1038	320	270	146	-	-	470	260	600	105	140	-	130	2225
10″	2500	1292	395	150	184	-	-	580	325	600	125	155	-	170	2980
12″	2500	1445	450	420	219	-	-	580	325	600	125	155	-	170	4250

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Three pieces body ANSI 150 - ANSI 2500 - Reduced bore

Size Inch	ANSI	A	B	C	D	E	F	G	H	I	L	M	N	O	Weight Kg
10x 8	150	546	390	270	254	203	-	401	130	500	80	59	-	129	439
12x10	150	622	420	305	305	254	-	423	180	500	80	65	-	174	725
14x12	150	698	470	340	337	305	-	585	208	800	110	95	-	191	1100
16x14	150	775	500	370	387	337	-	585	208	800	110	95	-	191	1395
18x16	150	876	580	420	438	387	-	615	238	800	90	100	-	233	1700
20x16	150	927	580	420	489	387	-	470	260	600	105	140	-	130	1730
24x20	150	1080	502	480	591	489	-	470	260	600	105	140	-	130	1880
28x24	150	-	625	590	686	591	-	580	325	600	125	155	-	170	2340
30x24	150	-	790	695	737	686	-	580	325	600	125	155	-	170	3680
32x24	150	-	830	780	781	737	-	580	325	600	125	155	-	170	5025
36x30	150	-	900	810	876	781	-	700	385	600	155	185	-	225	6150
40x36	150	-	950	890	978	876	-	700	385	600	155	185	-	225	7650
48x40	150	-	1050	950	1168	978	-	780	430	600	200	215	-	260	13500
10x 8	300	584	390	270	254	203	-	575	155	700	75	80	-	115	455
12x10	300	664	420	305	305	254	-	615	238	800	90	100	-	233	930
14x12	300	778	470	340	337	305	-	615	238	800	90	100	-	233	1180
16x14	300	854	500	370	387	337	-	615	238	800	90	100	-	233	1500
18x16	300	930	580	420	438	387	-	650	260	800	125	110	-	261	1910
20x16	300	1010	580	420	489	387	-	470	260	600	105	140	-	130	1875
24x20	300	1165	502	480	591	489	-	470	260	600	105	140	-	130	2250
28x24	300	1372	625	590	686	591	-	580	325	600	125	155	-	170	3385
30x24	300	1422	790	695	737	686	-	580	325	600	125	155	-	170	4320
32x24	300	1553	830	780	781	737	-	580	325	600	125	155	-	170	5550
36x30	300	1756	900	810	876	781	-	700	385	600	155	185	-	225	6680
40x36	300	-	950	890	978	876	-	700	385	600	155	185	-	225	8400
48x40	300	-	1050	950	1168	978	-	780	430	600	200	215	-	260	14500
10x 8	600	791	410	291	254	203	-	615	238	800	90	100	-	233	900
12x10	600	841	450	140	305	254	-	650	260	800	125	110	-	261	1410
14x12	600	892	510	180	337	305	-	650	260	800	125	110	-	261	1850
16x14	600	994	550	420	387	337	-	712	290	800	135	135	-	300	2550
18x16	600	1095	640	480	438	387	-	712	290	800	135	135	-	300	3250
20x16	600	1200	640	480	489	438	-	470	260	600	105	140	-	130	2780
24x20	600	1407	502	480	591	489	-	470	260	600	105	140	-	130	3225
28x24	600	1562	625	590	686	591	-	580	325	600	125	155	-	170	4500
30x24	600	1664	790	695	737	686	-	580	325	600	125	155	-	170	5700
32x24	600	1794	830	780	781	737	-	580	325	600	125	155	-	170	6900
36x30	600	2099	900	810	876	781	-	700	385	600	155	185	-	225	7950
40x36	600	-	950	890	978	876	-	700	385	600	155	185	-	225	10800
48x40	600	-	1050	950	1168	978	-	780	430	600	200	215	-	260	18000
8 x 6	900	740	310	250	190	-	-	450	175	600	50	60	-	100	650
10x 8	900	841	310	250	190	238	-	420	230	600	100	125	-	100	790
12x10	900	968	350	280	238	282	-	470	260	600	105	140	-	130	1200
14x12	900	1038	400	325	282	311	-	470	260	600	105	140	-	130	1890
16x14	900	1140	450	365	311	356	-	470	260	600	105	140	-	130	2550
18x16	900	1232	670	640	356	400	-	470	260	600	105	140	-	130	3600
20x18	900	1334	760	690	400	444	-	580	325	600	125	155	-	170	4900
24x20	900	1569	890	780	444	533	-	580	325	600	125	155	-	170	7020
6 x 4	1500	841	310	250	178	-	-	450	175	600	50	60	-	100	1200
8 x 6	1500	1000	310	250	190	228	-	420	230	600	100	125	-	100	1350
10x 8	1500	1146	350	180	228	263	-	470	260	600	105	140	-	130	2063
12x10	1500	1276	400	325	263	289	-	470	260	600	105	140	-	130	3000
14x12	1500	1407	450	365	389	330	-	470	260	600	105	140	-	130	3750
16x14	1500	1559	670	640	330	371	-	470	260	600	105	140	-	130	5025
18x16	1500	1686	760	690	371	416	-	580	325	600	125	155	-	170	7150
20x18	1500	2070	890	780	416	498	-	580	325	600	125	155	-	170	10200
8 x 6	2500	1038	270	240	111	146	-	470	260	600	105	140	-	130	1690
10x 8	2500	1292	310	270	146	184	-	470	260	600	105	140	-	130	2235
12x10	2500	1445	395	350	184	219	-	580	325	600	125	155	-	170	3190

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A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.



Padova Plant.

TGT

tormene gas technology

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