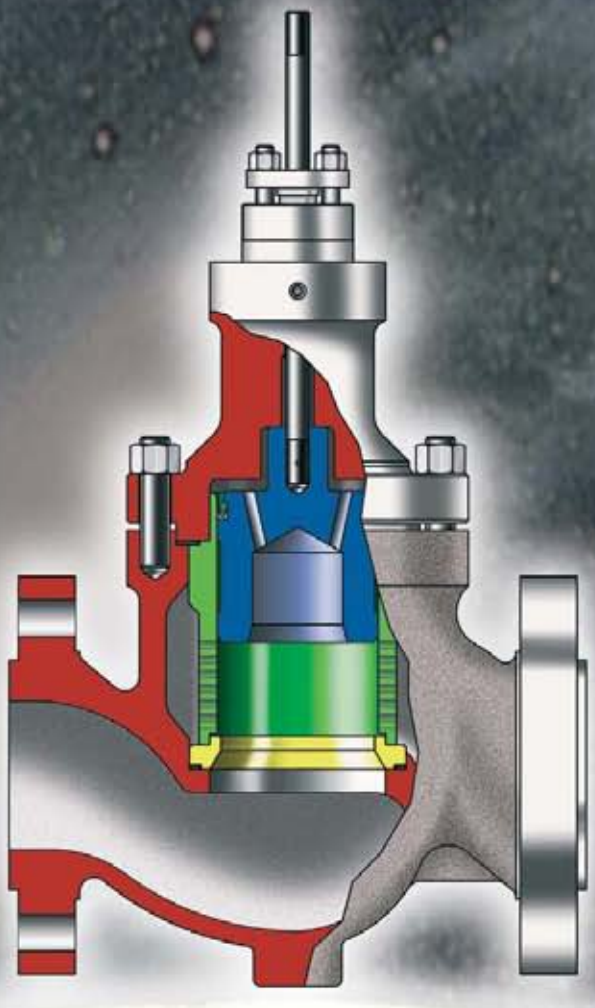
A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.

VALVITALIA

CONTROL VALVES • DIVISION

by TGT tormene gas technology



LTG3 Control Valves

LTG 3 CONTROL VALVES SERIES

Globe straight-way LTG3 series is a very versatile control valve for general applications. Its high performance, coming from using a balanced and cage-guided plug, is particularly suitable for heavy duties and for any other application under most demanding service conditions.
Due to their simple construction, to the large range of trim types and materials available, these valves are suitable for a wide range of applications, including also high temperature and corrosive fluids, critical low-noise requirements and sour service in accordance with NACE standard.

Main advantages of this valves series:

- High pressure drop capabilities with no practical limitations.
- Piloted plug construction is available for tight shutoff up to class V in high temperature services.
- Improved plug stability due to larger guiding areas.
- A wide-range capability is allowed by a great number of reduced capacity trims.
- Low-noise single-stage trim provides excellent noise attenuation on gas and steam service and improves cavitation protection on liquid services.
- Low-noise multistage trims also available for suitable cavitation control.
- Reduced thrust and actuator size are allowed by the balanced plug construction.



LTG3 – Balanced trim
Diaphragm actuator

Body:

- RF & RTJ, butt-welded, socket-welded and threaded.
- Cast std construction; also wrought or by bar for 2" and 3" sizes.
- Face-to-face dimensions as per IEC 60534-3-1 long series.
- Sizes: 2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20" ratings up to ANSI 150, 300, 600, 900, 1500, 2500 and equivalent PN as per connections/ratings table.
- Materials: Carbon, Cr-Mo and Stainless Steels.
- Flow direction:
  - *to open* - general feature
  - *to close* - only for piloted plugs

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Bonnet:

- Bolted stud.
- Extended type either for high and low temperature applications as a standard feature.
- Same material as body.

Trim:

- Plug: - Balanced and fully guided
  - Unbalanced design available for small ports or low pressure drop applications
  - Piloted design for tight shut-off especially for high temperature applications

- Seal rings options (see description at next pages): - Metal
  - PTFE
  - Metal and graphite

- Cage: - Ported or drilled std design
  - Low noise special drilled single stage type
  - Other multistage special construction MPS trim available

- Linear and equal percentage in standard trim

Seat ring:

- Quick-change and free-expanding type, precisely coupled with the cage to insure a perfect plug alignment

Leakage class:

- Standard III, IV, IV S1 and V – (according to IEC 60534-4)

Actuators:

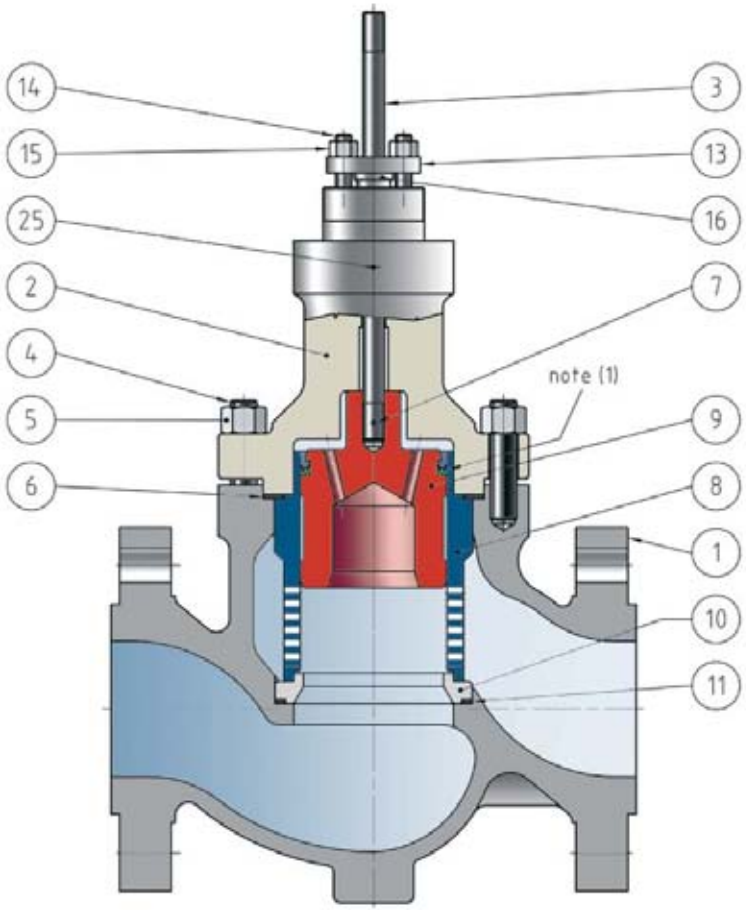
- Either piston or pneumatic diaphragm spring return available
- Electric actuators also available for control service

RATINGS AND CONNECTIONS

Size (")	Threaded	SW	BW	RF & RTJ
2"	150-600#	150-1500#	150-2500#	150-2500#
from 3" to 16"	*n.a.*	*n.a.*	150-2500#	150-2500#
from 18" to 20"	*n.a.*	*n.a.*	150-1500#	150-1500#

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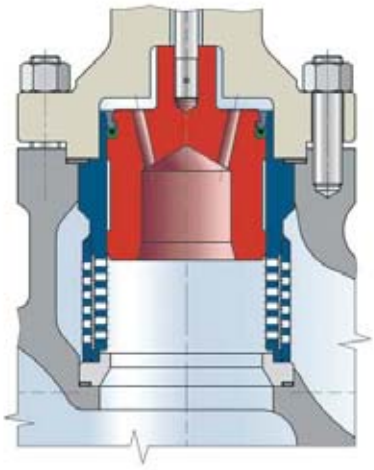
LTG3 PARTS IDENTIFICATION



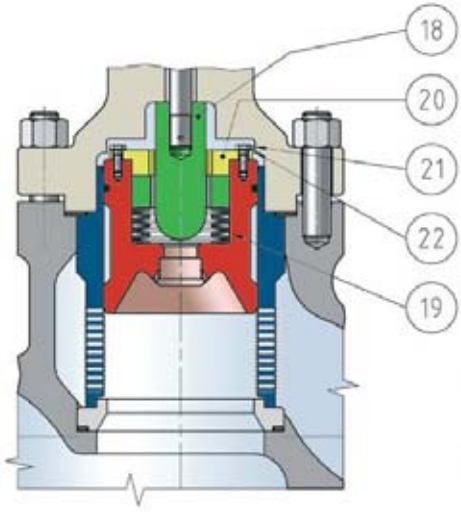
Standard balanced plug construction

Item	Part name
1	BODY
2	BONNET
3	STEM
4	STUD
5	NUT
6	BODY GASKET
7	PIN
8	CAGE
9	PLUG
10	SEAT RING
11	SEAT GASKET
13	PACKING FLANGE
14	PACKING STUD
15	PACKING NUT
16	PACKING FOLLOWER
18	PILOT
19	SPRING
20	FLANGE
21	SCREW
22	WASHER
25	PACKING
26	SEAL RING
27	O-RING
28	O-RING
30	SEAL RING (1)
31	SEAL RING (1)
32	SEAL RING (1)
33	SEAL RING (1)
34	SEAL RING (1)
35	SEAL RING (1)

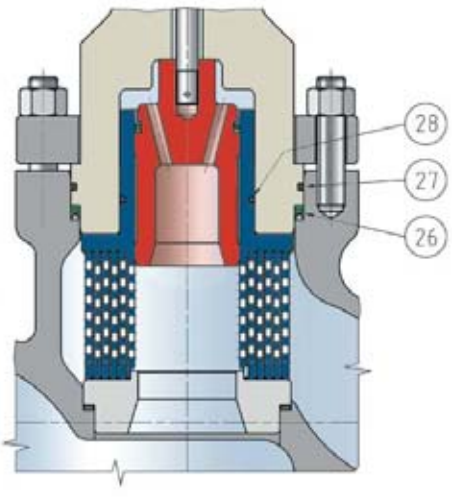
(1) See description on *seal rings* page



Double stage balanced plug



Single stage piloted plug



MPS trim balanced plug

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BASIC MATERIAL CLASSES

Temperature range (inlet fluid)		-29 °C +400 °C	-196 °C +340 °C	-29 °C +565 °C	-45 °C +340 °C	-29 °C +340 °C
Component		MC1	MC2	MC4	MC5	NACE
Item	Name					
1	body	A216 WCB (1)	A351 GR CF8M	A217 WC6 or WC9	A352 LCB	A216 WCB A351 GR CF8M (1) (9)
2	bonnet	A216 WCB (1) (2)	A351 GR CF8M (2)	A217 WC6 or WC9 (2)	A352 LCB (2)	A216 WCB A351 GR CF8M (1) (2) (9)
3	stem	AISI 316L	AISI 316L	AISI316L (8)	AISI316L	AISI316L
4	stud	A193 GR B7	A193 B 8M	A193 GR B7	A320 L7	A193 GR B7M
5	nut	A194-4	A194-8M	A194-4	A320 L7	A194 2M
6	body gasket	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite
7	pin	AISI 304 or AISI 316	AISI 304 or AISI 316	AISI 304 or AISI 316	AISI 304 or AISI 316	AISI 304 or AISI 316
8	cage	CA6NM CL B (2) (3)	AISI 316 (3)	CA6NM CL B nitrided (2)	CA6NM CL B nitrided (2)	CA6NM CL B nitrided (9) (2) or AISI 316 chrome-plated (9)
9	plug	17-4-PH H 1025	AISI 316 (7)	CA6NM CL B nitrided (2)	CA6NM CL B nitrided (2)	CA6NM CL B nitrided (9) (2) or AISI 316 (7) (9)
10	seat ring	CA6NM CL B (2) (7)	AISI 316 (7)	CA6NM CL B (2) (7)	CA6NM CL B (2) (7)	AISI 316 (9)
11	seat gasket	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite	AISI 316L + graphite
13	packing flange	A105 zinc plated	AISI 316 or AISI 304	A105 zinc plated	A105 zinc plated	A105 zinc plated
14	packing stud	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
15	packing nut	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
16	packing follower	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
18	pilot	AISI 400 series hardened (6)	n.a.	F6NM Stellited	n.a.	AISI 316 stellited
19	plug springs	inconel X750	n.a.	inconel X750	n.a.	inconel X750
20	retaining flange	A105	n.a.	F22	n.a.	AISI 316
21	screw	stainless steel	n.a.	stainless steel	n.a.	stainless steel
22	washer	stainless steel	n.a.	stainless steel	n.a.	stainless steel
25	packing	reinforced teflon (4)	reinforced teflon (4)	pure graphite (5)	pure graphite (4)	pure graphite (4)

note 1 – *WCC material can be supplied without notice.*

note 2 – *Equivalent wrought material can be supplied without notice.*

note 3 – *Chrome plated or nitrided depending on size.*

note 4 – *Crane 285K or equivalent with anti-extrusion solid teflon end-rings. For 200°C and over graphite packing must be used.*

note 5 – *flexible graphoil seal rings with intermediate solid seal rings.*

note 6 – *AISI 420 or AISI 440C depending on sizes and service conditions.*

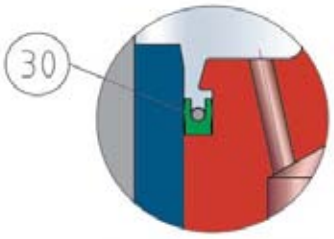
note 7 – *Hard faced seat (when required by service conditions).*

note 8 – *Alternative XM19 for 450°C and over.*

note 9 – *Max hardness 22 HRC.*

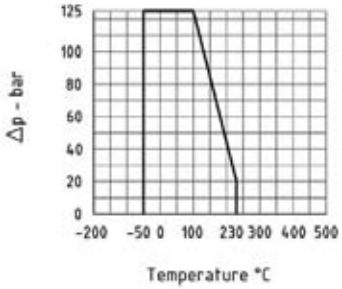
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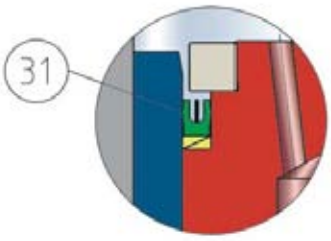
SEAL RINGS



Pressure energized teflon seal ring

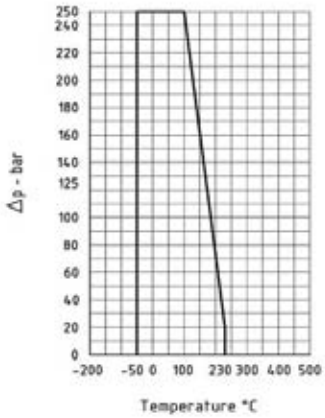
Max temp. : 230°C
Leakage class : IV (V optional)

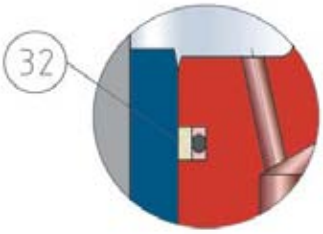




Pressure energized teflon based seal ring

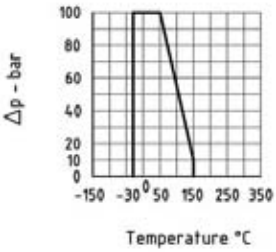
Max temp. : 230°C
Leakage class : IV (V optional)

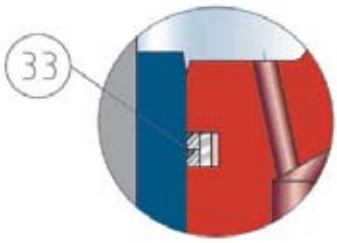




TFE and resilient inner seal ring

Max temp. : 150°C
Leakage class : IV

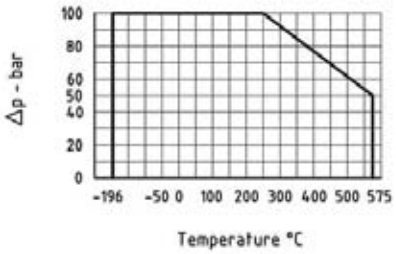


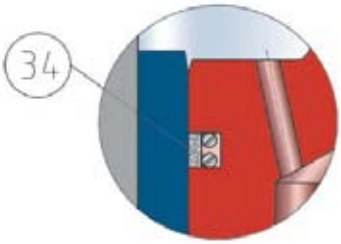


Metal seal ring and Inner metal spring

Note: to obtain class IV two seal rings can be fitted into the plug

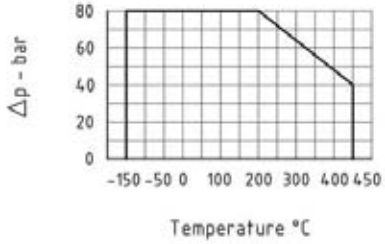
Max temp. : 575°C
Leakage class : III

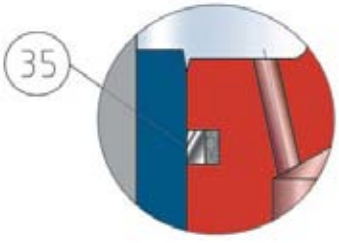




Graphite and inner metal spring

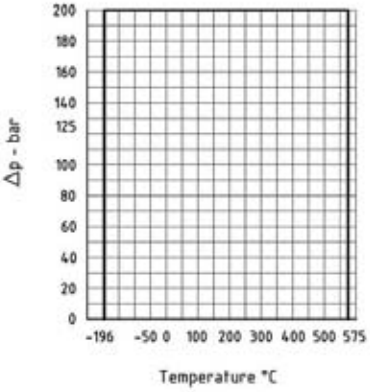
Max temp. : 450°C
Leakage classes : III & IV





Metal seal ring and graphite inner seal ring

Max temp. : 575°C
Leakage class : IVS1



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by TGT

CV and SIZING FACTORS

Standard Trim

Flow characteristic : **linear**

Percent of Travel				5%	10%	20%	40%	60%	80%	100%
F_L				0.94	0.94	0.93	0.93	0.92	0.92	0.92
X_T				0.74	0.74	0.73	0.73	0.71	0.71	0.71
X_{FZ}				0.57	0.57	0.55	0.55	0.54	0.54	0.54
F_d				0.40	0.37	0.34	0.31	0.25	0.19	0.15
DN	Port	Seat Diameter (mm)	Travel (mm)	Rated C_V						
				5%	10%	20%	40%	60%	80%	100%
2	1"	30	35	0.7	3.5	7.1	13.7	20.5	27.7	**35.6**
	1.1/2"	40	35	0.9	4.0	9.0	18.3	27.3	36.4	**45.6**
	2"	65	35	1.0	7.7	16.2	31.1	45.8	61.8	**78.0**
3	1.1/2"	40	35	0.9	4.0	9.0	23.8	40.4	57.0	**75.0**
	2"	65	35	1.0	7.7	16.2	35.8	53.9	74.2	**93.7**
	3"	90	45	2.0	15.8	31.6	63.2	94.8	126	**160**
4	2"	65	35	1.0	7.7	16.2	38.2	59.6	82.6	**108**
	3"	90	45	2.0	15.8	31.6	65.7	101	137	**179**
	4"	110	60	3.0	24.2	48.4	96.8	145	194	**245**
6	3"	90	45	2.0	15.8	31.6	68.5	110	153	**203**
	4"	110	60	3.0	24.2	48.4	104	163	220	**282**
	6"	130	60	4.0	39.1	78.2	156	235	313	**395**
8	4"	110	60	3.0	24.2	48.4	110	170	234	**301**
	6"	130	60	4.0	39.1	78.2	162	249	338	**430**
	8"	170	80	6.0	64.4	129	258	386	515	**650**
10	6"	130	60	4.0	39.1	78.2	174	270	365	**467**
	8"	170	80	6.0	64.4	129	277	419	567	**715**
	10"	205	80	9.0	104	208	416	625	833	**1050**
12	8"	170	80	6.0	64.4	129	293	452	606	**781**
	10"	205	100	9.0	104	208	425	650	880	**1110**
	12"	245	100	12.0	141	282	563	845	1126	**1420**
14	10"	205	80	9.0	104	208	439	675	920	**1160**
	12"	245	125	12.0	141	282	580	900	1224	**1560**
	14"	290	125	17.0	183	367	733	1100	1466	**1850**
16	12"	245	100	12.0	141	282	620	974	1322	**1680**
	14"	290	150	17.0	183	367	771	1186	1592	**2029**
	16"	335	150	23.0	283	565	1131	1696	2283	**2850**
18	14"	290	125	17.0	183	367	800	1254	1717	**2196**
	16"	335	175	23.0	283	565	1169	1750	2337	**2937**
	18"	380	175	28.0	337	674	1349	2023	2698	**3400**
20	16"	335	150	23.0	283	565	1200	1804	2385	**3009**
	18"	380	200	28.0	337	674	1396	2080	2800	**3553**
	20"	440	200	33.0	442	883	1767	2650	3534	**4450**

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CV and SIZING FACTORS

Standard Trim

Flow characteristic : **equal percentage**

Percent of Travel				5%	10%	20%	40%	60%	80%	100%
F_L				0.94	0.94	0.94	0.94	0.94	0.92	0.90
X_T				0.74	0.74	0.74	0.74	0.74	0.71	0.68
X_{FZ}				0.57	0.57	0.57	0.57	0.57	0.54	0.51
F_d				0.50	0.46	0.42	0.38	0.31	0.24	0.17
DN	**Port**	**Seat Diameter (mm)**	**Travel (mm)**	**Rated C_V**						
				5%	**10%**	**20%**	**40%**	**60%**	**80%**	**100%**
2	1"	30	35	0,7	0,9	1,9	6,0	12,9	22,8	**35,6**
	1.1/2"	40	35	0,9	1,2	2,4	7,6	16,6	29,2	**45,6**
	2"	65	35	1,0	2,0	4,1	13,0	28,3	50,0	**78,0**
3	1.1/2"	40	35	0,9	2,0	4,0	12,5	27,2	48,1	**75,0**
	2"	65	35	1,0	2,4	4,9	15,7	34,0	60,1	**93,7**
	3"	90	45	2,0	4,2	8,4	26,7	58,1	103	**160**
4	2"	65	35	1,0	2,8	5,7	18,0	39,2	69,2	**108**
	3"	90	45	2,0	4,7	9,4	29,8	64,8	114	**179**
	4"	110	60	3,0	6,4	12,9	41,0	89,0	157	**245**
6	3"	90	45	2,0	5,3	10,7	33,8	73,6	130	**203**
	4"	110	60	3,0	7,4	14,9	47,1	102	181	**282**
	6"	130	60	4,0	10,3	20,8	66,0	143	253	**395**
8	4"	110	60	3,0	7,9	15,9	50,4	109	193	**301**
	6"	130	60	4,0	11,2	22,7	71,9	156	276	**430**
	8"	170	80	6,0	16,9	34,3	109	236	417	**650**
10	6"	130	60	4,0	12,2	24,6	78,0	169	299	**467**
	8"	170	80	6,0	18,6	37,7	120	260	458	**715**
	10"	205	80	9,0	27,4	55,3	176	381	673	**1050**
12	8"	170	80	6,0	20,4	41,2	131	284	501	**781**
	10"	205	100	9,0	28,9	58,5	186	403	711	**1110**
	12"	245	100	12,0	37,0	74,8	237	516	910	**1420**
14	10"	205	80	9,0	30,2	61,1	194	421	743	**1160**
	12"	245	125	12,0	40,7	82,2	261	567	1000	**1560**
	14"	290	125	17,0	48,2	97,5	309	672	1186	**1850**
16	12"	245	100	12,0	43,8	88,5	281	610	1077	**1680**
	14"	290	150	17,0	52,9	107	339	737	1300	**2029**
	16"	335	150	23,0	74,3	150	476	1035	1826	**2850**
18	14"	290	125	17,0	57,2	116	367	798	1407	**2196**
	16"	335	175	23,0	76,6	155	491	1067	1882	**2937**
	18"	380	175	28,0	88,6	179	568	1235	2179	**3400**
20	16"	335	150	23,0	78,4	159	503	1093	1928	**3009**
	18"	380	200	28,0	92,6	187	594	1291	2277	**3553**
	20"	440	200	33,0	116	234	744	1616	2852	**4450**

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CV and SIZING FACTORS

Low Noise Trim

Flow characteristic : **linear**

Percent of Travel				5%	10%	20%	40%	60%	80%	100%
F_L				0.94	0.94	0.94	0.94	0.94	0.94	0.94
X_T				0.74	0.74	0.74	0.74	0.74	0.74	0.74
X_{FZ}				0.62	0.62	0.62	0.62	0.62	0.62	0.62
F_d				0.15	0.14	0.12	0.11	0.09	0.06	0.03
DN	**Port**	**Seat Diameter (mm)**	**Travel (mm)**	**Rated C_V**						
				5%	**10%**	**20%**	**40%**	**60%**	**80%**	**100%**
2	1"	30	35	0.6	2.0	4.9	10.7	16.5	22.2	**28.0**
	1.1/2"	40	35	0.7	2.8	7.1	15.5	24.0	32.5	**41.0**
	2"	65	35	0.9	4.4	11.3	25.3	39.2	53.1	**67.0**
3	1.1/2"	40	35	0.7	3.0	7.7	17.0	26.3	35.7	**45.0**
	2"	65	35	0.9	4.1	10.4	23.0	35.7	48.3	**61.0**
	3"	90	45	1.8	7.5	18.9	41.7	64.4	87.2	**110**
4	2"	65	35	0.9	5.5	14.7	33.0	51.3	69.7	**88**
	3"	90	45	1.8	8.0	20.5	45.3	70.2	95.1	**120**
	4"	110	60	2.7	11.2	28.2	62.1	96.1	130	**164**
6	3"	90	45	1.8	8.3	21.4	47.6	73.7	99.9	**126**
	4"	110	60	2.7	12.1	30.9	68.4	106	143	**181**
	6"	130	60	3.5	17.7	46.2	103	160	217	**274**
8	4"	110	60	2.7	12.9	33.4	74.3	115	156	**197**
	6"	130	60	3.5	19.5	51.4	115	179	243	**307**
	8"	170	80	5.6	30.0	78.9	177	274	372	**470**
10	6"	130	60	3.5	21.2	56.6	127	198	269	**340**
	8"	170	80	5.6	31.3	82.6	185	288	390	**493**
	10"	205	80	8.4	44.0	115	258	400	543	**685**
12	8"	170	80	5.6	33.7	90.0	202	315	427	**540**
	10"	205	100	8.4	45.5	120	268	416	565	**713**
	12"	245	100	11.1	65.4	174	391	609	826	**1043**
14	10"	205	80	8.4	47.2	125	280	435	590	**745**
	12"	245	125	11.1	67.4	180	405	630	855	**1080**
	14"	290	125	15.9	85.1	224	500	777	1054	**1331**
16	12"	245	100	11.1	70.1	188	424	661	897	**1133**
	14"	290	150	15.9	88.0	232	521	809	1098	**1386**
	16"	335	150	21.0	123	326	732	1139	1545	**1952**
18	14"	290	125	15.9	90.3	239	537	835	1132	**1430**
	16"	335	175	21.0	125	333	750	1167	1583	**2000**
	18"	380	175	26.3	159	424	954	1483	2013	**2543**
20	16"	335	150	21.0	127	340	766	1192	1617	**2043**
	18"	380	200	26.3	160	429	965	1502	2038	**2575**
	20"	440	200	29.8	197	530	1198	1865	2533	**3200**

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CV and SIZING FACTORS

Double Stage – Anti-cavitation Trim

Flow characteristic : **linear**

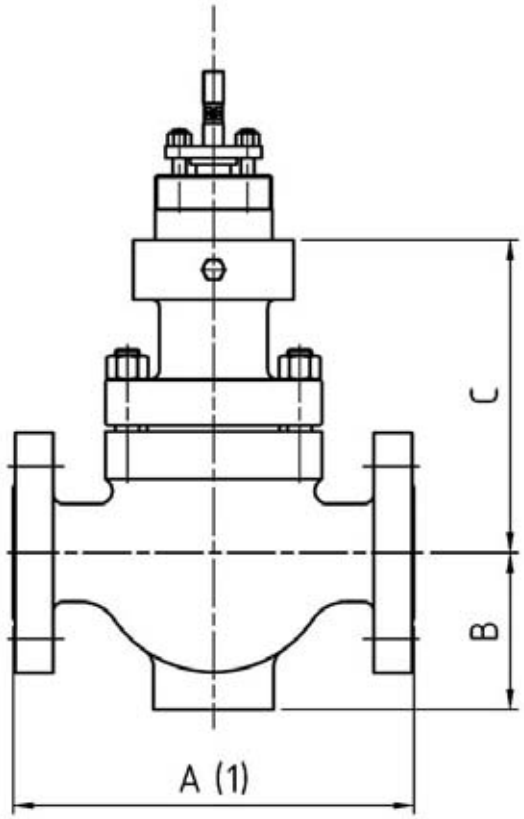
Percent of Travel				5%	10%	20%	40%	60%	80%	100%
F_L				0.95	0.95	0.95	0.95	0.95	0.95	0.95
X_T				0.76	0.76	0.76	0.76	0.76	0.76	0.76
X_{FZ}				0.73	0.73	0.72	0.72	0.71	0.71	0.70
F_d				0.40	0.37	0.34	0.32	0.26	0.20	0.15
DN	Port	Seat Diameter (mm)	Travel (mm)	Rated C_V						
				5%	10%	20%	40%	60%	80%	100%
2	1"	30	35	0.4	1.5	3.8	8.4	12.9	17.5	**22.0**
	1.1/2"	40	35	0.6	2.4	5.9	12.9	19.9	27.0	**34.0**
	2"	65	35	0.7	3.6	9.3	20.7	32.1	43.6	**55.0**
3	1.1/2"	40	35	0.6	2.4	6.0	13.3	20.5	27.8	**35.0**
	2"	65	35	0.7	3.4	8.8	19.6	30.4	41.2	**52.0**
	3"	90	45	1.6	6.7	16.8	37.1	57.4	77.7	**98**
4	2"	65	35	0.7	3.6	9.3	20.7	32.1	43.6	**55**
	3"	90	45	1.6	6.6	16.5	36.4	56.3	76.1	**96**
	4"	110	60	2.5	9.5	23.4	51.3	79.2	107	**135**
6	3"	90	45	1.6	6.8	17.1	37.9	58.6	79.3	**100**
	4"	110	60	2.5	9.3	22.9	50.2	77.5	105	**132**
	6"	130	60	3.2	12.9	32.4	71.3	110	149	**188**
8	4"	110	60	2.5	9.8	24.4	53.5	82.7	112	**141**
	6"	130	60	3.2	12.8	31.9	70.2	108	147	**185**
	8"	170	80	5.3	19.7	48.5	106	164	221	**279**
10	6"	130	60	3.2	13.2	33.2	73.1	113	153	**193**
	8"	170	80	5.0	20.4	51.3	113	175	236	**298**
	10"	205	80	8.0	29.8	73.5	161	248	336	**423**
12	8"	170	80	5.0	21.6	54.9	121	188	254	**321**
	10"	205	100	8.0	31.4	78.3	172	266	359	**453**
	12"	245	100	10.7	43.1	108	238	368	497	**627**
14	10"	205	80	8.0	33.0	83.0	183	283	383	**483**
	12"	245	125	10.7	46.7	119	263	407	551	**695**
	14"	290	125	15.5	58.4	144	316	488	659	**831**
16	12"	245	100	10.7	48.8	125	277	429	582	**734**
	14"	290	150	15.5	61.2	153	335	518	701	**884**
	16"	335	150	20.5	79.1	196	430	665	899	**1133**
18	14"	290	125	15.5	64.0	161	355	549	743	**937**
	16"	335	175	20.5	82.5	206	454	702	950	**1198**
	18"	380	175	25.6	110	279	617	955	1293	**1631**
20	16"	335	150	20.5	84.6	213	469	726	982	**1239**
	18"	380	200	25.6	113	289	641	992	1344	**1695**
	20"	440	200	29.1	139	358	796	1234	1672	**2110**

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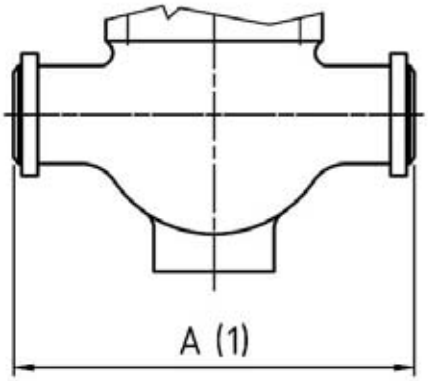
DIMENSIONS AND MASSES

DN		A																		B max	C max	C extended	
		ANSI 150			ANSI 300			ANSI 600			ANSI 900			ANSI 1500			ANSI 2500			All	All	ANSI	ANSI
inches	mm	RF	RJ	BW	RF	RJ	BW	RF	RJ	BW	RF	RJ	BW	RF	RJ	BW	RF	RJ	BW	Classes	Classes	150÷600	900÷2500
2	50	254	267	286	267	283	286	286	289	286	375	378	375	375	378	375	400	403	400	95	250	300	340
3	80	298	311	337	317	333	337	337	340	337	441	444	460	460	463	460	498	504	498	95	300	350	410
4	100	352	365	394	368	384	394	394	397	394	511	514	530	530	533	530	575	585	575	115	330	400	450
6	150	451	464	508	473	489	508	508	511	508	714	717	768	768	774	768	819	832	819	165	395	495	495
8	200	543	556	610	568	584	610	610	613	610	914	917	832	972	982	832	1029	1045	1029	200	520	600	650
10	250	673	686	752	708	724	752	752	755	752	991	994	991	1067	1077	991	1270	1292	1270	250	570	690	/
12	300	737	750	819	775	791	819	819	822	819	1130	1133	1130	1219	1235	1130	1422	1444	1422	360	625	670	/
14	350	889	902	1029	927	943	1029	972	975	1029	1257	1266	1257	1257	1276	1257	/	/	/	400	660	830	/
16	400	1016	1029	1108	1057	1073	1108	1108	1111	1108	1422	1431	1422	1422	1444	1422	/	/	/	450	700	1000	/
18	450	1200	1213	1275	1200	1216	1275	1275	1278	1275	1727	1740	1727	1727	1749	1727	/	/	/	500	800	1100	/
20	500	1250	1263	1250	1250	1269	1250	1400	1406	1400	1400	1413	1400	/	/	/	/	/	/	550	1050	1500	/

DN		Flanged connection mass (Kg)					Threaded / Welded connection mass (Kg)			
		ANSI 150-300	ANSI 600	ANSI 900	ANSI 1500	ANSI 2500	ANSI 600	ANSI 900	ANSI 1500	ANSI 2500
inches	mm									
2	50	45	45	65	65	75	36	40	40	40
3	80	95	100	145	180	230	80	115	140	150
4	100	160	165	220	280	350	130	180	220	260
6	150	270	290	390	540	700	230	300	395	410
8	200	420	440	650	870	1250	350	510	670	850
10	250	600	650	900	1200	/	510	690	900	/
12	300	880	900	1200	1800	/	720	950	1300	/
14	350	1100	1200	1630	2550	/	960	1365	1900	/
16	400	1500	1700	2300	3700	/	1400	2000	2800	/
18	450	1750	2000	2900	3300	/	1600	2300	4200	/
20	400	1900	2200	3200	/	/	1800	2600	/	/



BW version



(1) ± 1,5 mm for body sizes up to 10"
± 3 mm for body sizes 12" and over

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A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.



Padova Plant.

VALVITALIA

CONTROL VALVES • DIVISION

by TGT tormene gas technology

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