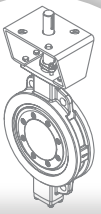




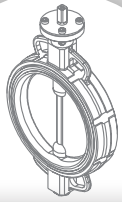
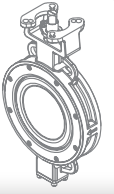
S30 series Split Body Ball Valves

OUR PRODUCTION



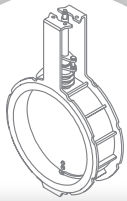
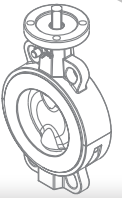
501M series - Triple Eccentric Metal Seated Butterfly Valves

401N series - Double Eccentric Butterfly Valves



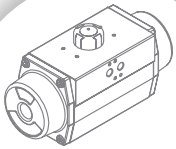
301 / 301E series - Butterfly Valves with rubber seat

301TSS 301TT series - Butterfly Valves with PTFE lined

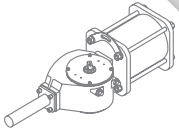


HT600 series - Damper valves for high temperature

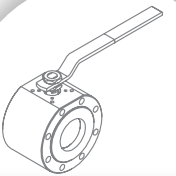
AP / APM series - Pneumatic Rotary Actuators



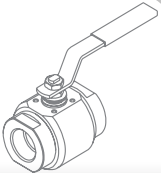
APG series - Schotch Yoke Pneumatic Actuators



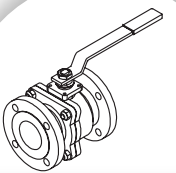
S10 series - Wafer Flat Body Ball Valves



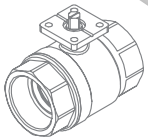
S20 series - Two-pieces 800 p.s.i. Ball Valves



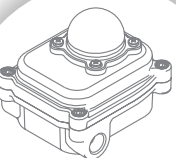
S30 series - Split Body Ball Valves



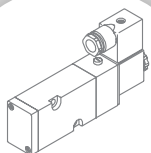
S40, S50, S60, S70, S80 series - Threaded actuated and manual ball valves



MBX Series - Limit Switch Box



SVS Series - Solenoid valve 5/2 or 3/2 way



ACCESSORIES



Sirca International SpA was founded in the late seventies, and started doing business as a manufacturer of complete automation and pneumatic regulation systems.

Our flagship product is rotating pneumatic quarter-turn actuators which are compact, lightweight and highly reliable.

Subsequently, our company entered the Italian market with the production and sale of rubber-seated butterfly valves, double eccentric butterfly valves, ball valves and check valves.

In time at Sirca International we began marketing and producing accessories to actuate, control and regulate valves. These were installed on our own valves and actuators in order to offer our customers complete “assemblies” that are capable of meeting the most varied system requirements.

Beginning in the 1990s, our company began looking at foreign markets and in a short time we started exporting more than 60% of our production.

This type of market development requires continuous product innovation as well as continuous effort to maintain product competitiveness and quality.

With this motivation and these objectives, with the arrival of the new millenium we at Sirca International began designing and producing the triple eccentric butterfly valve metal-seated that are currently top of the range of the valves produced at Sirca.

The main strong points of Sirca International SpA lie in our product quality, competitive price, large warehouse stocks and in the reliability of our services. These confirm our status as a Leading Company on the national and international markets.

Floating Ball Valves, Split Body Design, Introduction:

The ball valves split body series S30 consist of a body and a closure made from bar or casting, in two configurations, carbon steel and stainless steel. Inside the valve body there's the ball with seats in R-PTFE.

The stem, always inserted in the valve body, has an anti blow-out system with dual anti-static system (stemball and stem-body valve). The sealing between the stem and the valve body is guaranteed by an R-PTFE chevron pack. The sealing between the valve body and closure is made by using an o-ring and an R-PTFE ring.

Basically, the purpose of the ball valves is to carry out an on-off function on the pipeline. They are widely used on all types of industrial, civil, naval ect. systems. The opening and closing of the valve can be carried out by using various aids such as hand levers, gears, air-operated actuators, electric engines, etc. The valve provided with electro-pneumatic positioner, can be used as a control valve.

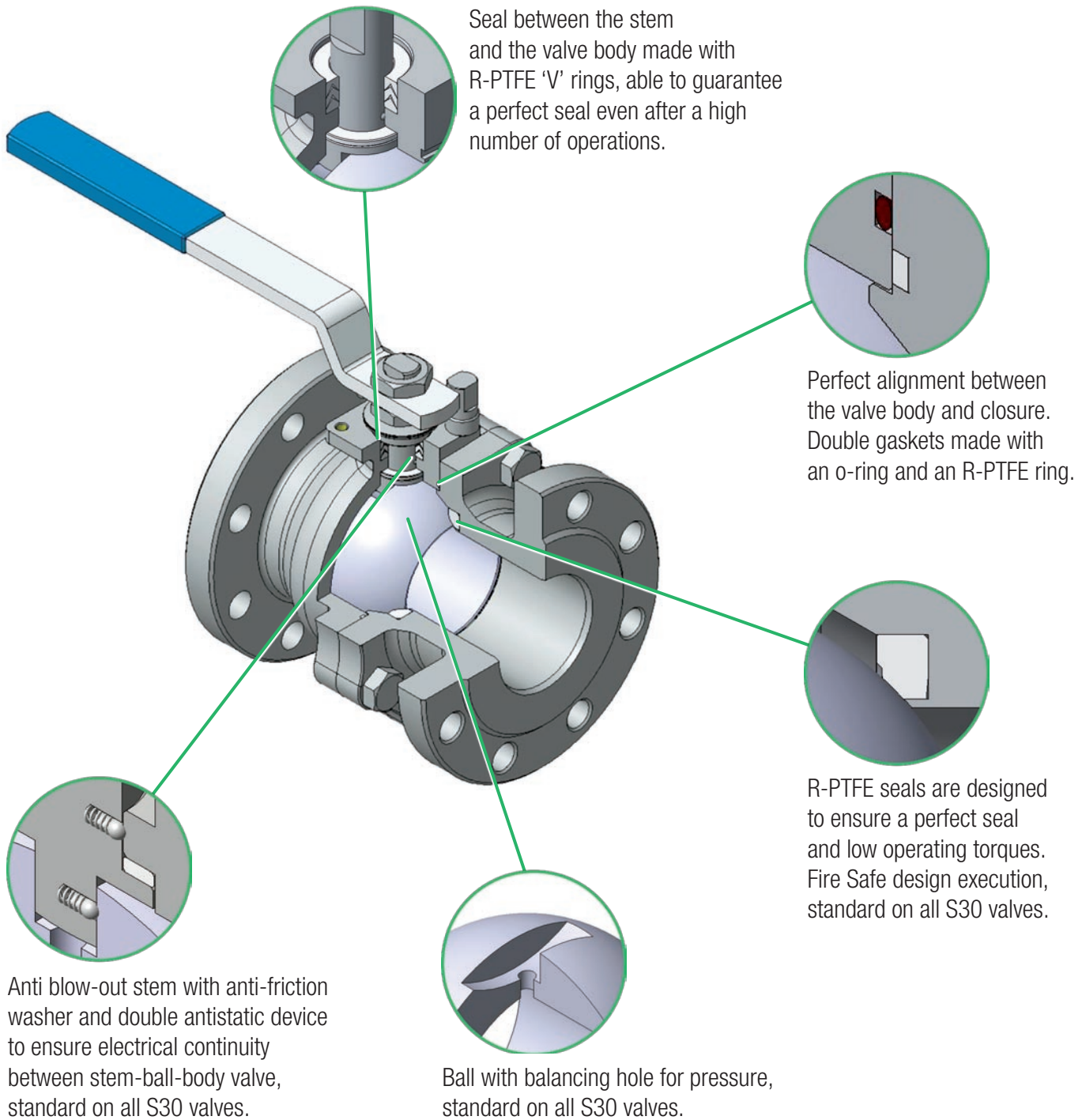
The S30 series split body ball valves are machined with the use of CNC machines, controlled with 3D measurement systems, assembled according to precise procedures and 100% tested in accordance with the requirements of international ASME, API, EN standards. All S30 series ball valves produced by Sirca International are made in Italy.

Standard technical features:

Type	Floating Ball valves Split Body
Size Range	1/2" ÷ 8" (DN15 ÷ DN200) full bore
Design	EN 12516-2, ANSI B16.34, ISO 14313, ANSI B16.5ANSI B16.10, UNI EN 558-2
Pressure class	ANSI 150 - 300 - 600
(*) Max working pressure	20 bar for class ANSI150 50 bar for class ANSI300 100 bar for class ANSI600
Std operating temperature	-20°C ÷ +200 °C (-4 °F ÷ +392 °F) (see pressure-temperature diagram)
Leakage class	Rate "A", NO leakage, according to EN12266-1
Flange drilling	Standard ANSI150, on request PN10-16 ANSI300, on request PN25, PN40 ANSI600, on request PN63, PN100
Type end	RF-RF
Antistatic device	According to EN12266-2
Top connection flange	According to ISO 5211
Intercepted fluid	Air, water, gas, petroleum and petrochemical products, etc.
Certifications	2014/68/UE PED 2014/34/UE ATEX IEC 61508, IEC 61511 SIL API607 - ISO 10497 - API 6FA FIRE SAFE EAC TR-CU 10, TR-CU 32 DVGW - EN13774 (undergoing certification)

(*) At temperatures below 38°C, according to ASME B16.34

Standard features:



Special features:



On request, FIRE SAFE execution, certified according to API607 - ISO10497 - API6FA



On request, execution for NATURAL GAS use, certified DVGW - EN13774

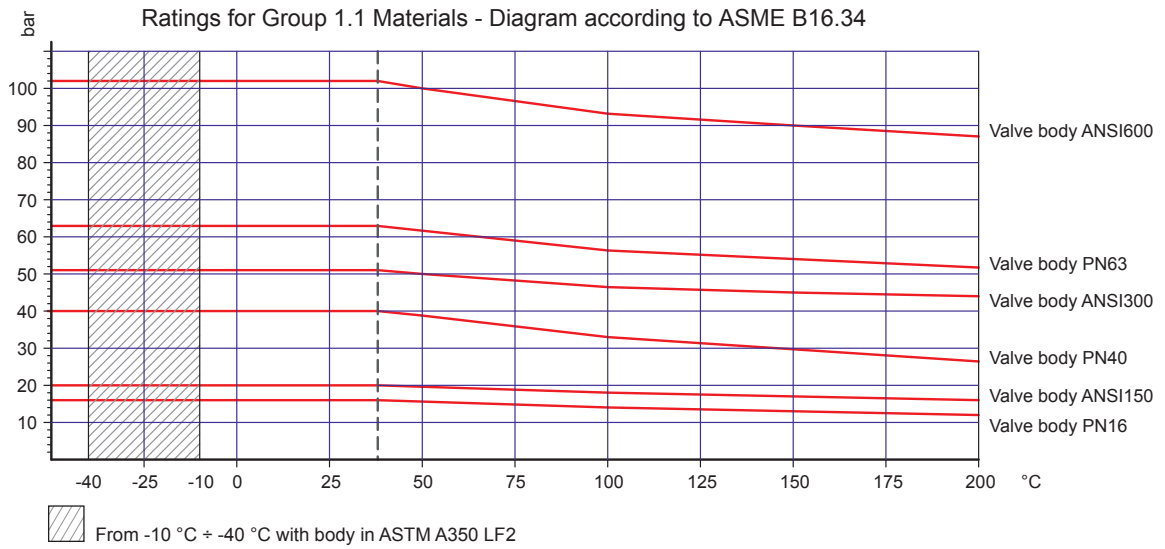


On request, GREASE FREE execution for oxygen use, according to EIGA IGC Doc. 13/02/E

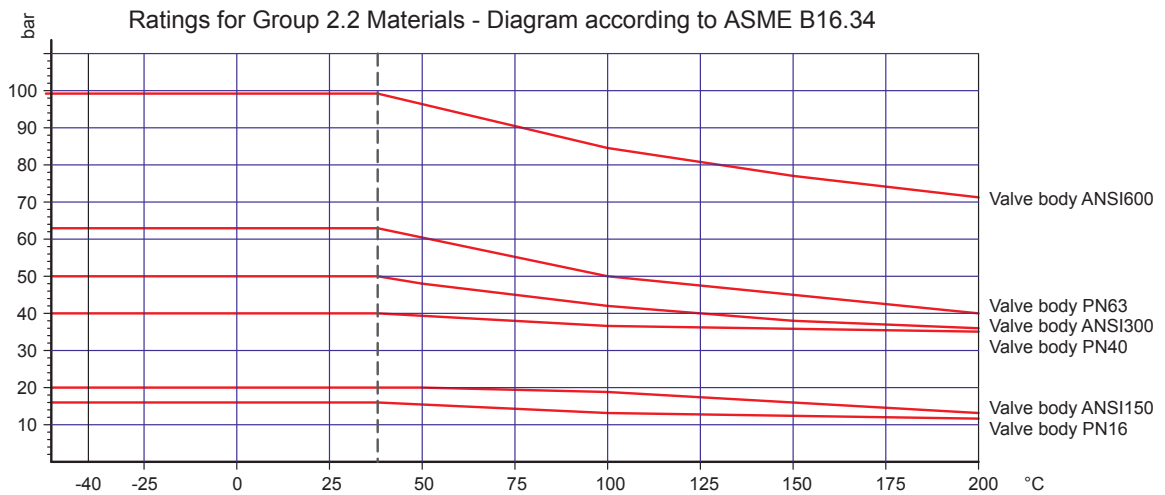


On request, FUGITIVE EMISSIONS certified according to EN-ISO 15848-1:2015

Temperature/Pressure diagram, for carbon steel valve



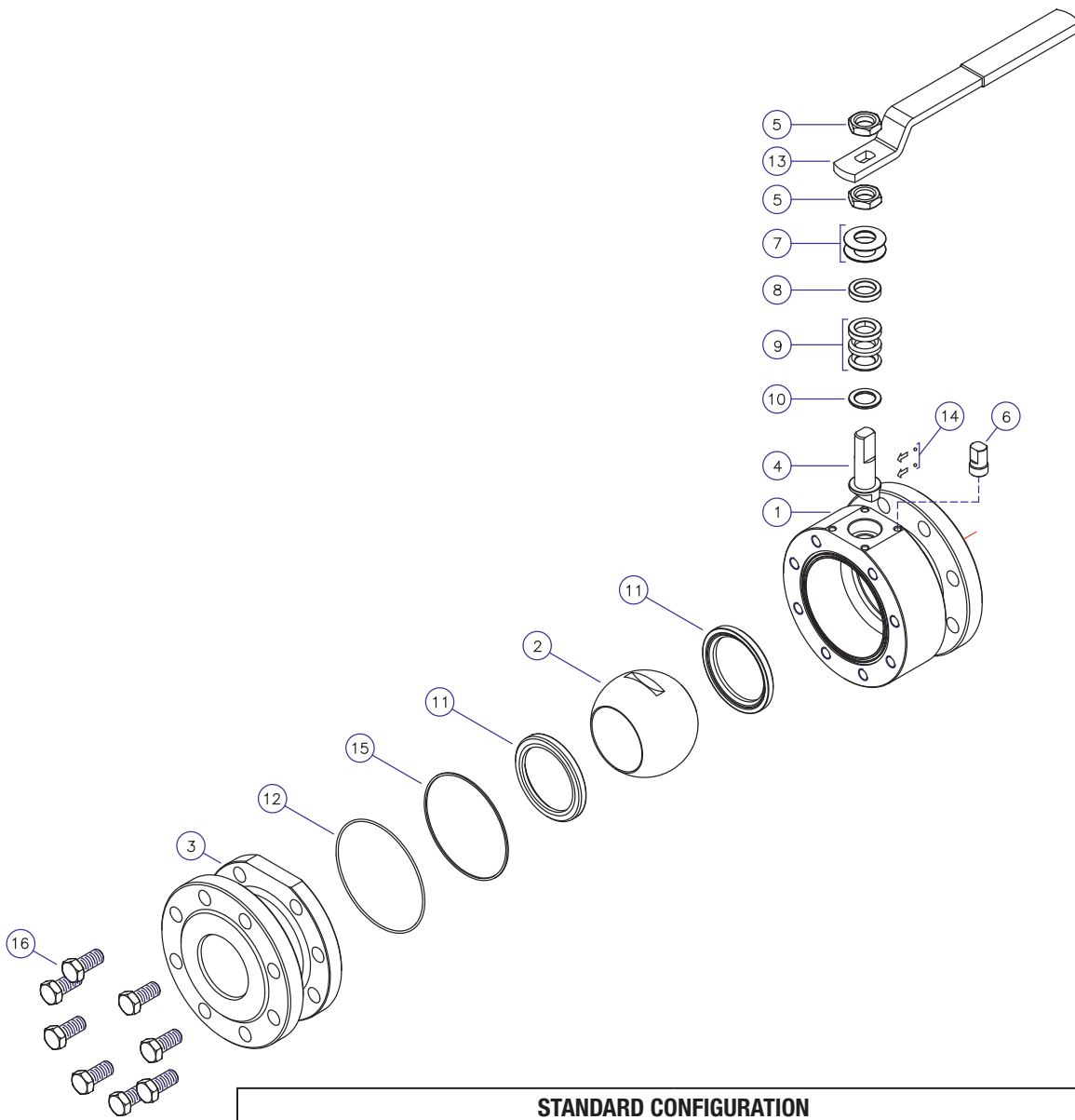
Temperature/Pressure diagram, for stainless steel valve



Torque (Nm) - Cv/Kv Values:

Pressure (bar)	DN (mm)											
	15	20	25	32	40	50	65	80	100	125	150	200
0	6	8	10	15	25	35	50	70	90	125	160	550
6	8	10	15	20	28	42	55	76	102	144	175	584
10	10	12	18	22	30	45	58	85	115	158	202	617
16	12	14	20	23	32	48	60	90	120	170	225	644
25	14	16	22	25	35	50	64	100	131	185	242	784
40	16	20	24	28	38	54	70	110	140	206	270	966
50	18	22	26	32	45	80	92	155	204	//	//	//
63	21	24	30	44	59	94	118	185	242	//	//	//
100	27	30	45	78	90	122	150	221	350	//	//	//
Cv	24	71	116	150	99	326	594	900	1402	1814	2080	4420
Kv	21	61	100	129	85	281	512	776	1208	1564	1793	3810

The values of the torques stated above can change in function of the intercepted fluid and working conditions (pressure, temperature, number of operations in time). Torque values listed are referred to an use with lubricating fluids, consider a safety factor of +25%. In the event that the valve intercept non-lubricated fluids and/or solid abrasive particles, the torques may be slightly higher, in such conditions, we recommend using a safety factor of +40%.



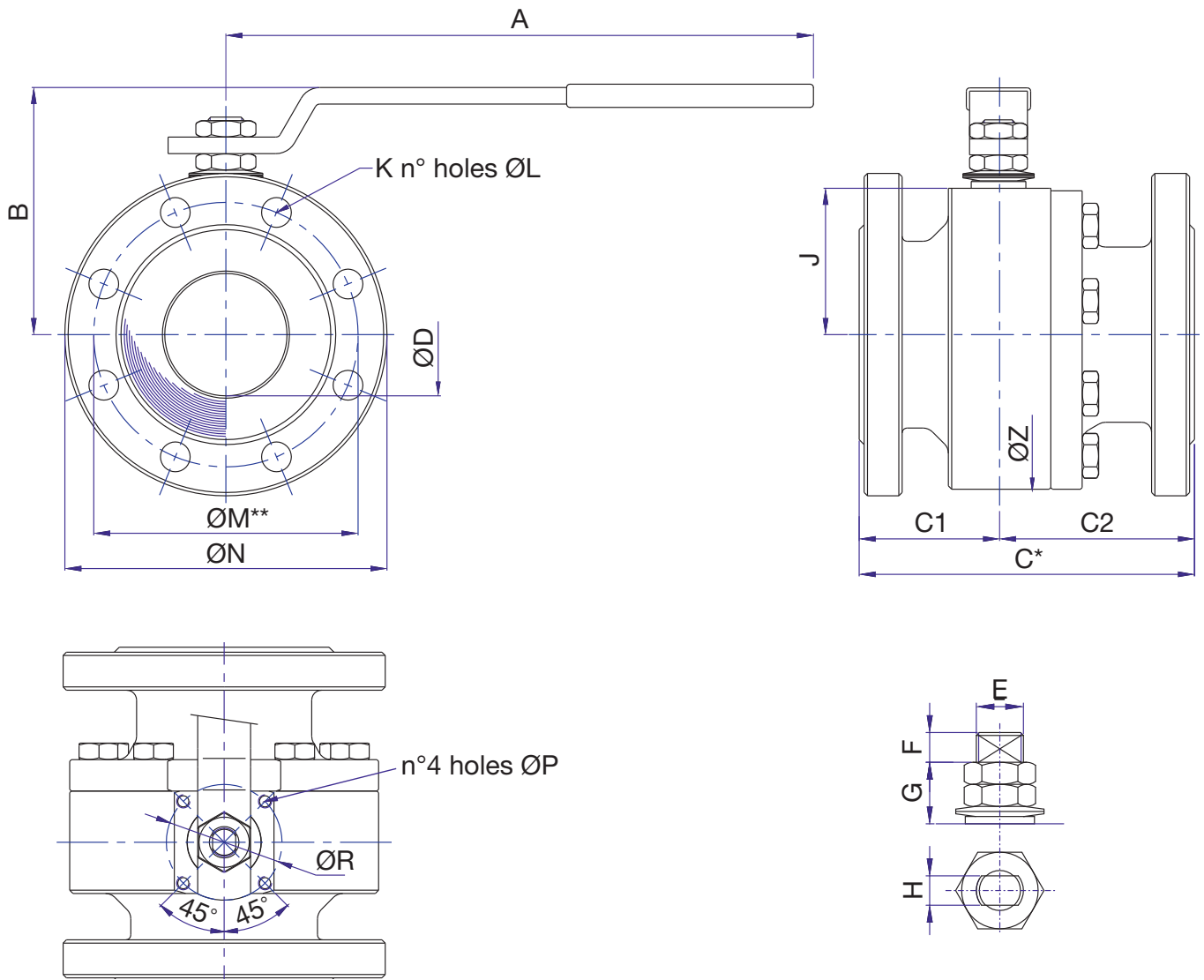
Item	Description	STANDARD CONFIGURATION		Q.ty
		Carbon steel	Stainless steel	
1	Body	C.S. ASTM A350 LF2	S.S. ASTM A351 CF8M or ASTM A479 316L	1
2	Ball	S.S. ASTM A351 CF8M or ASTM A479 316L	S.S. ASTM A351 CF8M or ASTM A479 316L	1
3	Plug	C.S. ASTM A350 LF2	S.S. ASTM A351 CF8M or ASTM A479 316L	1
4	Stem	Stainless steel AISI 304	Stainless steel AISI 316	1
5	Nut	Stainless steel A2	Stainless steel A2	2
6	Stop pin	E.N.P. Carbon steel	Stainless steel AISI 303	1
7	Belleville springs	E.N.P. Carbon steel	E.N.P. Carbon steel	2
8	Stuffing box	E.N.P. Carbon steel	Stainless steel AISI 316	1
9*	Gland packing	R-PTFE	R-PTFE	1
10*	Stem seal ring	R-PTFE	R-PTFE	1
11*	Seat	R-PTFE	R-PTFE	2
12*	O-ring	NBR	VITON	1
13	Hand lever	Fe 360 B zinc plated	Stainless steel AISI 304	1
14	Anti-static device	Stainless steel AISI 316	Stainless steel AISI 316	2
15*	Gasket	R-PTFE	R-PTFE	1
16	Screw / Nut (**)	Carbon steel 8.8 / 6S	Stainless steel A2 / A2	4÷8

(*) Spare parts suggested

(**) On request: for Carbon steel configuration ASTM A193 B7 / ASTM A194 gr 2H
for Stainless steel configuration ASTM A193 B8M / ASTM A194 gr 8M

ATTENTION: other materials are available on request.

Overall dimensions for **class ANSI 150**



SIZE		A	B	*C	C1	C2	ØD	E	F	G	H	J	ANSI 150				ØZ max	ØP	ØR	ISO	WEIGHT (Kg)	
mm	ins												K	ØL	**ØM	ØN					bar	casting
15	1/2	125	58	108	44,5	63,5	15	10	7	8	6	33	4	15,9	60,3	92,5	83,5	M5	36	F03	2,9	2,1
20	3/4	125	63	117	47,5	69,5	19	10	7	8	6	38	4	15,9	69,8	103	88,5	M5	36	F03	3,6	2,6
25	1	165	87	127	51,5	75,5	24	12	8	13	8	45	4	15,9	79,4	113	100	M5	42	F04	5,2	4
32	1.1/4	165	87	140	58,5	81,5	31	12	10	16	8	50	4	15,9	88,9	115	120	M5	42	F04	7,4	6,2
40	1.1/2	240	102	165	66	99	38	16	10	20	10	55	4	15,9	98,4	125	131	M6	50	F05	10,3	7,8
50	2	240	112	178	74,5	104	49	16	10	20	10	64	4	19	120,6	150	146	M6	50	F05	12,9	10,6
65	2.1/2	310	138	190	76	114	64	22	14	28	14	79	4	19	139,7	183	169	M8	70	F07	21,9	16,1
80	3	310	147	203	85	118	75	22	14	28	14	89	4	19	152,4	195	187	M8	70	F07	25,8	21
100	4	476	147	229	105	124	101	30	18	30	18	98	8	19	190,5	230	228	M8	70	F07	43,2	33,9
125	5	476	184	254	117	137	118	30	18	30	18	112	8	22,3	215,9	255	254	M10	102	F10	52,1	44
150	6	476	253	267	134	134	151	42	20	42	28	142	8	22,3	241,3	280	296	M12	125	F12	71,2	65
200	8	520	294	457	209	249	202	48	20	48	32	181	8	22,3	298,4	345	365	M14	140	F14	168,7	143

ATTENTION:

(*) Dimension according to ASME B16.10 ANSI150 'Short Pattern'

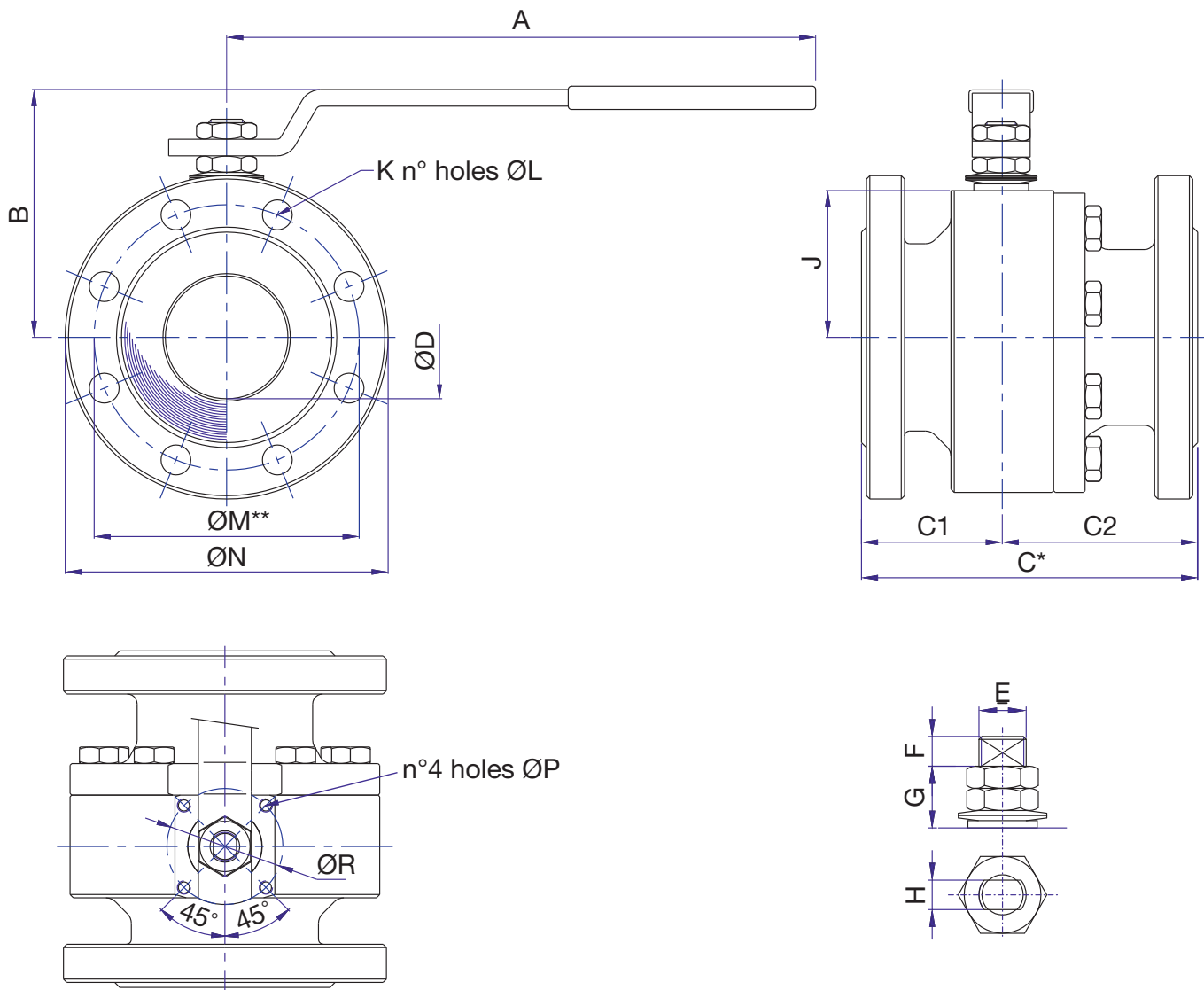
Only for DN200-8" according to ASME B16.10 ANSI150 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI150 (available on request drilling according to UNI EN 1092-1, PN10, PN16)

Sirca International s.p.a. reserves the right to change the dimensions and data shown in this catalogue, without prior notice.

When ordering you may want to request updated versions of the drawings and technical documentation from Sirca International s.p.a.

Overall dimensions for class ANSI 300



SIZE		A	B	*C	C1	C2	ØD	E	F	G	H	J	ANSI 300				ØP	ØR	ISO	WEIGHT (Kg)	
mm	ins												K	ØL	**ØM	ØN				bar	casting
15	1/2	125	58	140	70	70	15	10	7	8	6	33	4	15,9	66,7	95	M5	36	F03	4,2	//
20	3/4	125	63	152	76	76	19	10	7	8	6	38	4	19	82,6	115	M5	36	F03	5	//
25	1	165	87	165	82,5	82,5	24	12	8	13	8	45	4	19	88,9	125	M5	42	F04	8,1	//
32	1.1/4	165	87	178	89	89	31	12	10	16	8	50	4	19	98,4	135	M5	42	F04	10,5	//
40	1.1/2	240	102	190	84	106	38	16	10	20	10	55	4	22,3	114,3	155	M6	50	F05	13,2	//
50	2	240	112	216	106	111	49	16	10	20	10	64	8	19	127,0	165	M6	50	F05	17,8	//
65	2.1/2	310	138	241	121	121	64	22	14	28	14	79	8	22,3	149,2	190	M8	70	F07	30,5	//
80	3	310	147	283	142	142	75	22	14	28	14	89	8	22,3	168,3	210	M8	70	F07	37,4	//
100	4	476	147	305	153	153	101	30	18	30	18	98	8	22,3	200,0	255	M8	70	F07	61,1	//
125	5	476	184	381	117	264	118	30	18	30	18	112	8	22,3	235,0	280	M10	102	F10	73,3	//
150	6	476	253	403	202	202	151	42	20	42	28	142	12	22,3	269,9	320	M12	125	F12	99	//
200	8	520	294	502	251	251	202	48	20	48	32	181	12	25,4	330,2	380	M14	140	F14	233	//

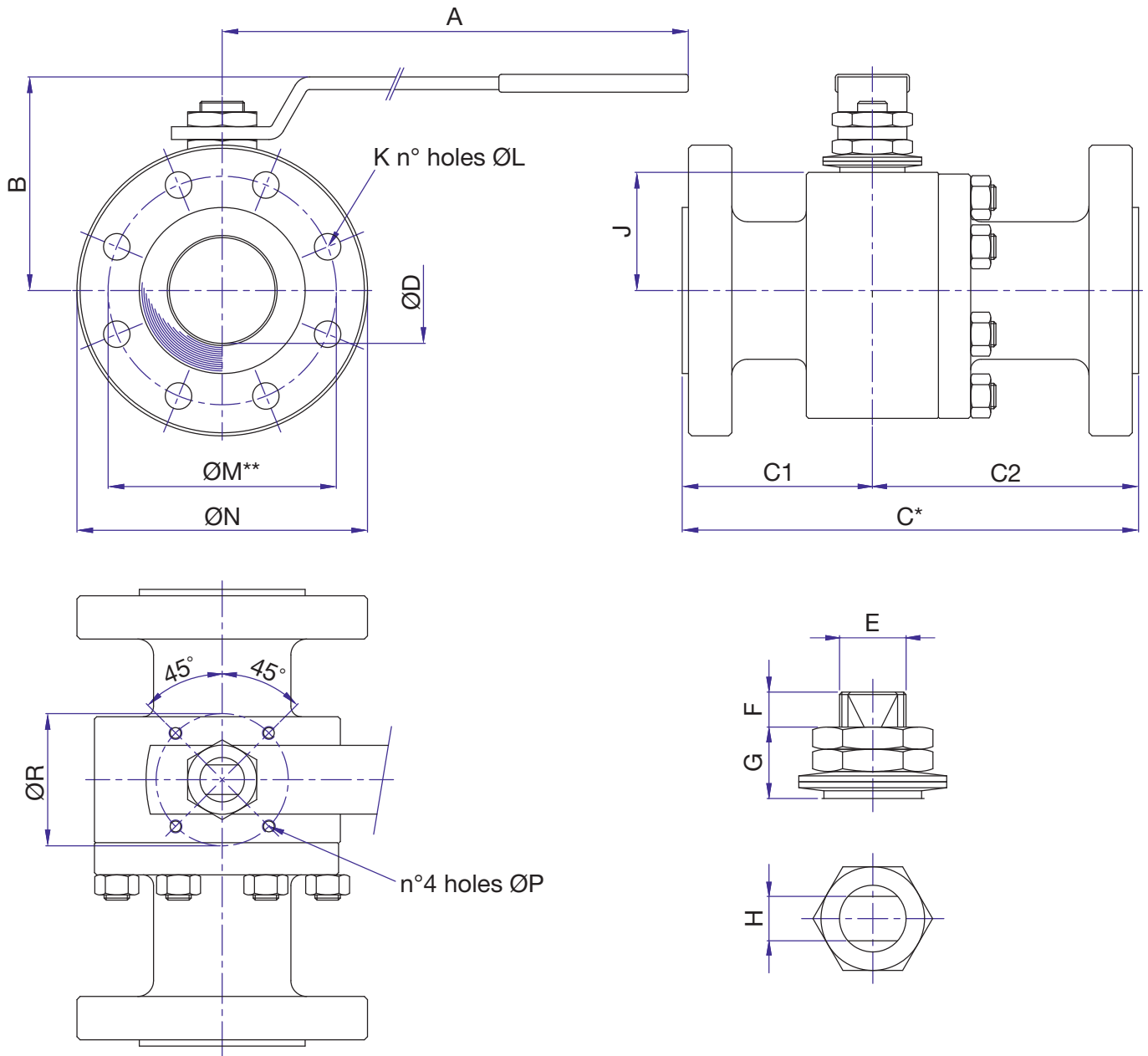
ATTENTION:

(*) Dimension according to ASME B16.10 ANSI300 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI300 (available on request drilling according to UNI EN 1092-1, PN25, PN40)

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Overall dimensions for **class ANSI 600**



SIZE		ANSI 600											WEIGHT (Kg)								
mm	ins	A	B	*C	C1	C2	ØD	E	F	G	H	J	K	ØL	**ØM	ØN	ØP	ØR	ISO	bar	casting
15	1/2	190	105	165	66	99	15	12	8,5	14	8	35	4	15,9	66,7	95	M5	36	F03	6,1	//
20	3/4	190	106	190	80	110	19	12	8,5	14	8	38	4	19	82,6	115	M5	36	F03	7,5	//
25	1	280	110	216	78	138	24	16	10	20	10	46	4	19	88,9	125	M6	50	F05	9,0	//
32	1.1/4	280	112	229	88	141	31	16	10	20	10	57	4	19	98,4	135	M6	50	F05	12,2	//
40	1.1/2	380	130	241	100	141	38	22	12	22	14	68	4	22,2	114,3	155	M8	70	F07	19,0	//
50	2	380	140	292	100	192	49	22	12	22	14	78	8	19	127,0	165	M8	70	F07	24,5	//
65	2.1/2	380	158	330	130	200	64	30	16,5	26	18	88	8	22,2	149,2	190	M8	70	F07	48,0	//
80	3	480	170	356	156	200	75	30	16,5	26	18	97	8	22,2	168,3	210	M8	70	F07	51,8	//
100	4	750	225	432	180	252	101	42	20	34	28	114	8	25,4	215,9	255	M12	125	F12	102,0	//

ATTENTION:

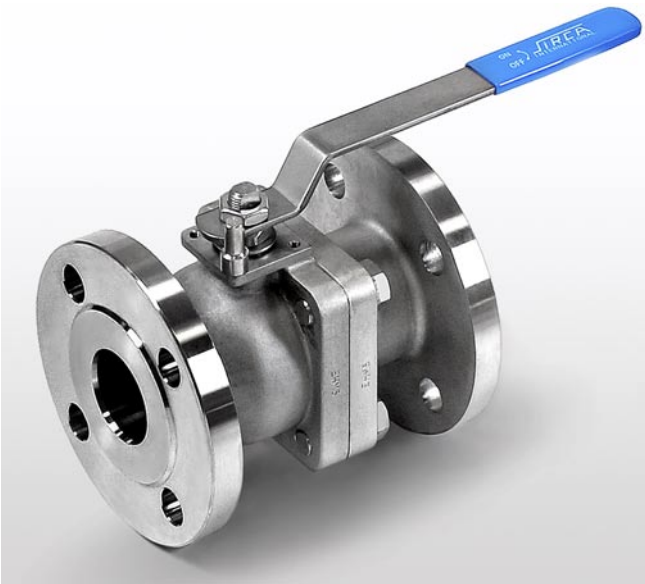
(*) Dimension according to ASME B16.10 ANSI600 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI600 (available on request drilling according to UNI EN 1092-1, PN63, PN100)

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HAND LEVER



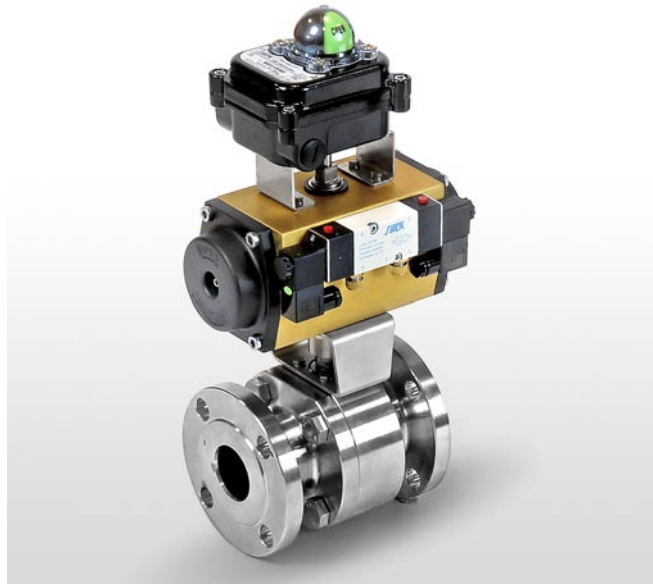
GEAR BOX



PNEUMATIC ROTARY ACTUATORS



LIMIT SWITCH BOX and SOLENOID VALVE



ELECTRO-PNEUMATIC POSITIONER



ELECTRIC ACTUATORS





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