

KTN[®]
Kara Technology News



Founded in 2003,
Spanish brand

Kara Technology News



**BUREAU
VERITAS**
CE-0056-PED-H-
KTN 001-26-ESP



Kara Technology News

Built From the Core

KTN was founded with a simple idea: to manufacture industrial solutions that last, that always perform, and that make life easier for the people who rely on them. Since 2003, as **Spanish industrial brand**, we have been developing **valves**, instrumentation and accessories designed to deliver the **best balance between quality, reliability and cost**, supported by a **wide and adaptable catalog** for any project.

Our process begins with **engineering**: technically selected materials, **optimized designs** and a **controlled manufacturing workflow** that allows us to deliver **stable, safe and consistent products**. Every valve, every component, every assembly is **built to exceed international standards** and to operate flawlessly in **demanding environments**—from **cryogenic applications** to **corrosive services** or **high-pressure lines**.

We operate through a **global production network** and specialized centers capable of working with **special alloys**, **anticorrosive linings** and **complex geometries**. This enables us to offer both **standard solutions** and **fully customized parts** while maintaining **reliable lead times** and a consistently **high level of quality**.

At KTN, we believe in **purposeful engineering**: products that **solve real problems**, **reduce downtime** and **extend the life cycle** of each installation. This is why our customer trusts us for projects where **process safety**, **operational continuity** and **performance** genuinely matter.

Quality, reliability and adaptability.

That is the foundation of everything we do.

Cast Carbon Steel
(WCB)

Forged Carbon Steel
(A105 / A350 LF2)

Cast Stainless Steel
(CF8 / CF8M)

Forged Stainless Steel
(304 / 316)

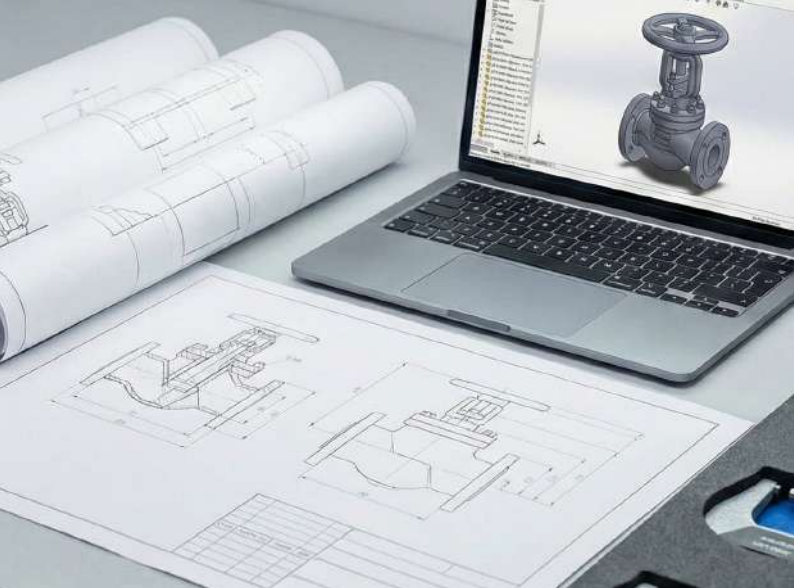
Forged Stainless Steel
(High pressure)

Duplex / Super Duplex
(ASTM A995 Grade 4A/5A)

Bronze
(C83600)

Ductile Iron
(GGG40 / GJS400)

Lining
(PTFE/PFA)



ENGINEERING & MANUFACTURING

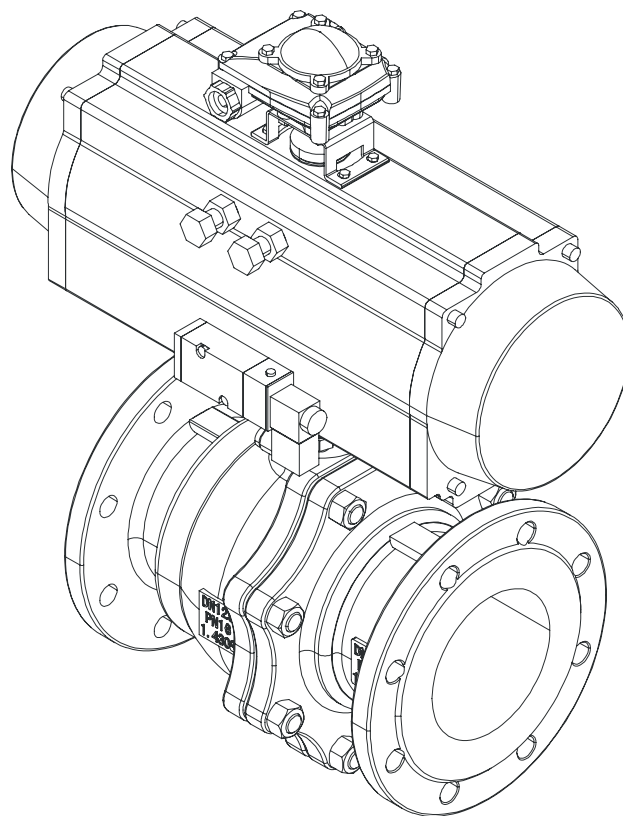
Where Performance Takes Shape

At KTN, every product begins with an idea: **engineering with purpose**. Behind each valve, actuator or protective system there is a design process focused on durability, efficiency and real-world performance. Our engineering teams work with carefully selected materials, advanced modeling tools and decades of industrial experience to create solutions that stand up to demanding environments while remaining reliable and easy to maintain.

But design alone is not enough.

What transforms an idea into a dependable industrial component is the **strength of our manufacturing capability**. Through our global production network, we combine modern casting lines, precision CNC machining and specialized assembly centers to deliver components that perform exactly as engineered. This integration allows us to handle everything from standard series to fully customized builds, adapting geometries, materials and end connections to project requirements. Together, **engineering and manufacturing form the backbone of KTN**.

They allow us to produce solutions that not only meet international standards, but consistently exceed expectations in the field—solutions that last, that perform, and that earn the trust of the industries we serve.





At KTN, quality is not an end point — it is a discipline woven into every step of our production. Each component we manufacture, from a standard valve to a fully customized assembly, undergoes a rigorous process of verification to ensure stable performance, long service life and absolute operational safety.

Our quality system is supported by a combination of **international standards, advanced inspection methods and dedicated testing facilities**, allowing us to detect deviations long before they reach the field.

We apply a full range of testing procedures, including:

- **Hydrostatic and pneumatic pressure tests** to certify sealing integrity
- **PMI (Positive Material Identification)** for alloy verification
- **NDT methods** such as ultrasonic, dye penetrant and magnetic particle testing
- **Dimensional inspection** with precision instruments and calibrated gauges
- **Surface and coating evaluation**, including PFA/PTFE lining thickness control
- **Functional testing** for assemblies with actuators and instrumentation

Every step is documented and traceable, offering our customers clear evidence of compliance and performance. Whether the application involves corrosive media, cryogenic temperatures or severe pressures, our testing protocols ensure that each product is ready to operate where reliability truly matters.

Quality at KTN is a commitment — to safety, to consistency, and to the confidence of every client who relies on our solutions.



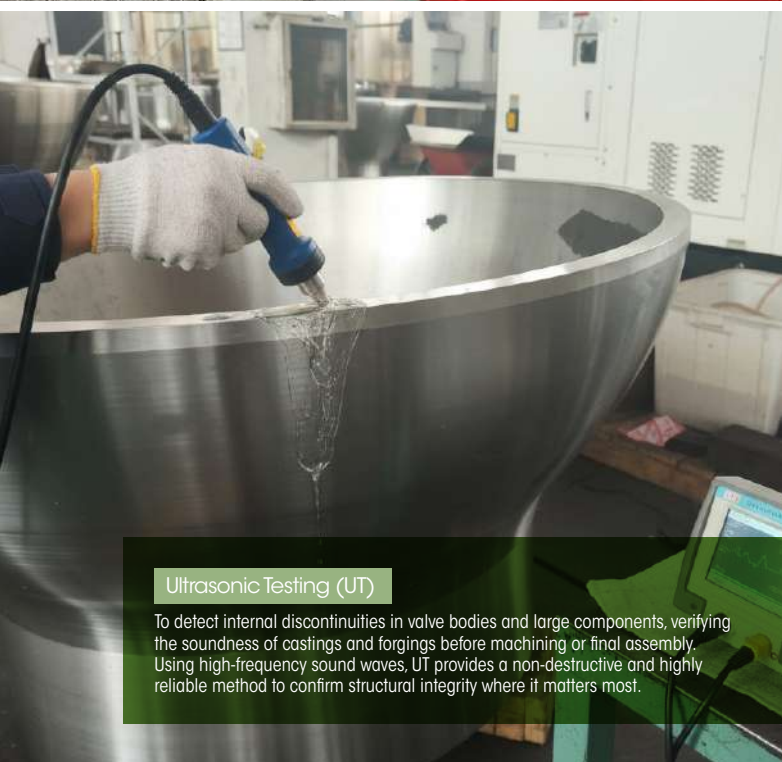
Hydrostatic test: API 598 / EN 12266 / ISO 5208

All KTN valves undergo 100% hydrostatic testing according to API 598 / EN 12266 / ISO 5208. Each unit is individually pressurized with clean water to verify body integrity, seat tightness and structural safety, ensuring full compliance and reliable performance in the field.



PMI (Positive Material Identification)

PMI testing verifies the exact alloy of every component, ensuring full material compliance and traceability.



Ultrasonic Testing (UT)

To detect internal discontinuities in valve bodies and large components, verifying the soundness of castings and forgings before machining or final assembly. Using high-frequency sound waves, UT provides a non-destructive and highly reliable method to confirm structural integrity where it matters most.



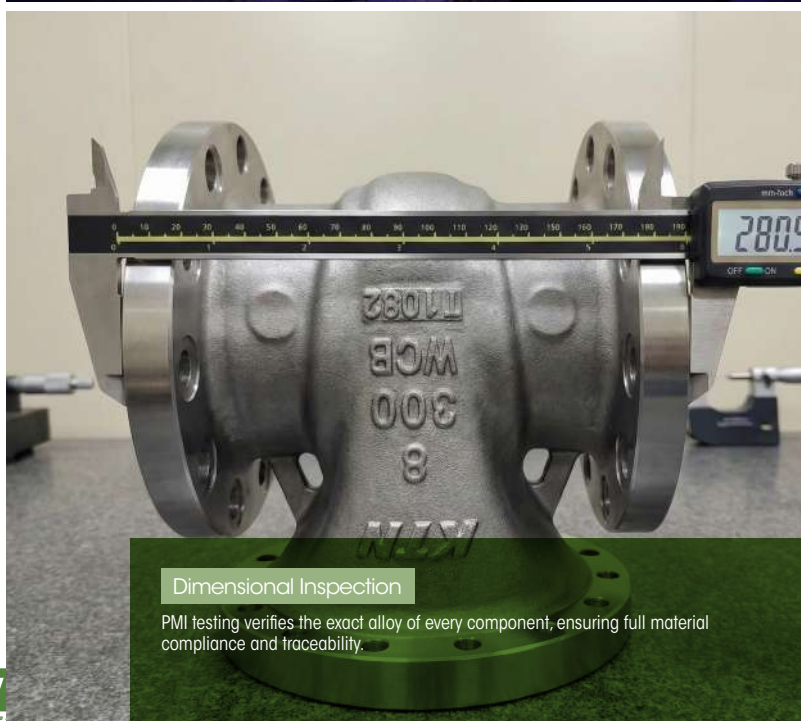
Fluorescent Penetrant Testing (FPI)

A UV-reactive penetrant highlights microscopic surface flaws with bright fluorescent contrast, ensuring flawless sealing surfaces and enhanced reliability on critical valve bodies.



Magnetic Particle Testing (MT)

All KTN valves undergo 100% hydrostatic testing according to API 598 / EN 12266 / ISO 5208. Each unit is individually pressurized with clean water to verify body integrity, seat tightness and structural safety, ensuring full compliance and reliable performance in the field.



Dimensional Inspection

PMI testing verifies the exact alloy of every component, ensuring full material compliance and traceability.

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All measurements are in millimeters. All weights are in kilograms
The materials of our products can be customized according to customer requirements, make your inquiry without obligation

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INDUSTRIAL RANGE

ENDS

Threaded, BSP - NPT
DIN PN16-40 Flanges
ANSI 150-800 Flanges
JIS K5-16K Flanges
Welded BW - SW
Wafer

MATERIAL

AISI 316/316L
CF8M
WCB - Carbon steel
Stellited A105
Tempered glass
Aluminum
Ceramic
PTFE Coated

SENSORS

Pepperl & Fuchs



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SGS
ES 18/81876

WRAS
Water Regulations Advisory Scheme



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BALL VALVES

MANUFACTURING RANGE:

TYPES:

1 PIECE BALL VALVES
2 PIECE BALL VALVES · 3 PIECE BALL VALVES
FLANGED BALL VALVES · SANITARY BALL VALVES
TRUNNION BALL VALVES · LINED BALL VALVES

SIZE RANGE:

DN15 – DN600 (½" – 24")

CONNECTIONS:

Threaded BSP / NPT · Socket Weld (SW) · Butt Weld (BW) · Flanged DIN / ANSI / JIS · Wafer

PRESSURE RANGE:

ANSI Class 150 – 2500
DIN PN16 – PN400
Threaded connections up to PN63

BODY MATERIALS:

Carbon Steel · Stainless Steel
Bronze · Special Alloys

OPERATING CONDITIONS:

Cryogenic service up to 480 °C
(depending on valve design
and seat material)



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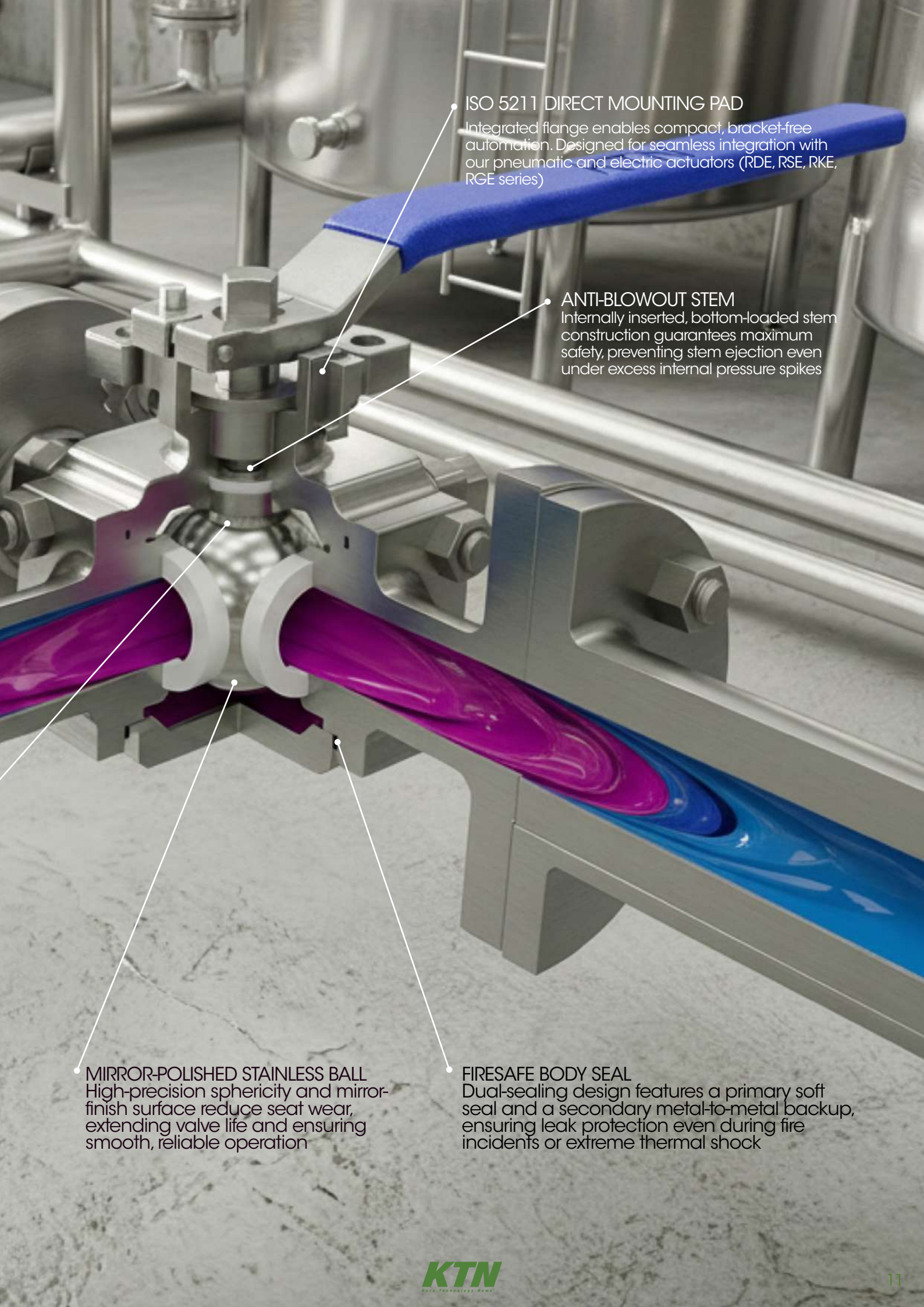


ES 18/81876



NO EXPLOSIVE COMPLIANCE

Integrated anti-static device ensures electrical continuity between ball, stem and body, preventing electrostatic charge build-up and eliminating potential ignition sources in explosive atmospheres.



ISO 5211 DIRECT MOUNTING PAD

Integrated flange enables compact, bracket-free automation. Designed for seamless integration with our pneumatic and electric actuators (RDE, RSE, RKE, RGE series)

ANTI-BLOWOUT STEM

Internally inserted, bottom-loaded stem construction guarantees maximum safety, preventing stem ejection even under excess internal pressure spikes

MIRROR-POLISHED STAINLESS BALL
High-precision sphericity and mirror-finish surface reduce seat wear, extending valve life and ensuring smooth, reliable operation

FIRESAFE BODY SEAL
Dual-sealing design features a primary soft seal and a secondary metal-to-metal backup, ensuring leak protection even during fire incidents or extreme thermal shock

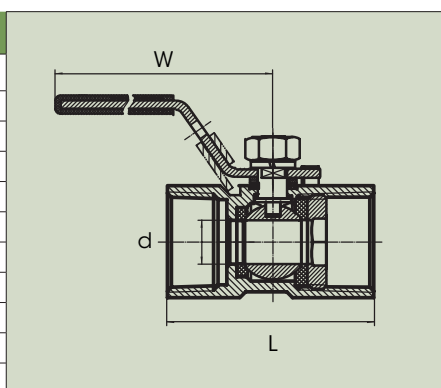
FIGURE

1111

1 PIECE STAINLESS STEEL PN63 BALL VALVE BSP THREADED



COD.	"	L	d	W
2323KTNR1111E5008	1/4"	38	5	75
2323KTNR1111E5010	3/8"	43	6.9	85
2323KTNR1111E5015	1/2"	54	8.5	98
2323KTNR1111E5020	3/4"	57	12	98
2323KTNR1111E5025	1"	67	15	110
2323KTNR1111E5032	1 1/4"	76	20	124
2323KTNR1111E5040	1 1/2"	82	25	139
2323KTNR1111E5050	2"	93	32	160
2323KTNR1111E5065	2 1/2"	113	38	200
2323KTNR1111E5080	3"	134	48	200
2323KTNR1111E5100	4"	185	65	250



BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+160°C	ENDS	BSP	
MEDIA	Water, oil and gas						

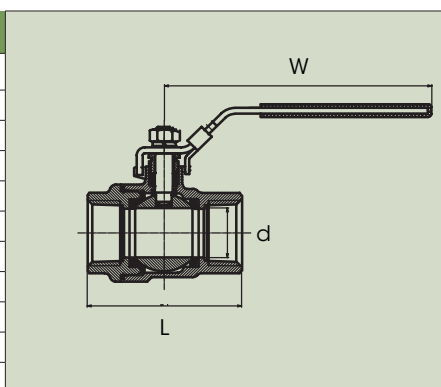
FIGURE

1112K

2 PIECE STAINLESS STEEL PN63 BALL VALVE BSP THREADED WITH LOCK



COD.	"	L	d	W
2323KTNR1112E5008	1/4"	52	8	95
2323KTNR1112E5010	3/8"	52	10	95
2323KTNR1112E5015	1/2"	64	15	105
2323KTNR1112E5020	3/4"	72	20	120
2323KTNR1112E5025	1"	83	25	140
2323KTNR1112E5032	1 1/4"	96	32	145
2323KTNR1112E5040	1 1/2"	103	38	160
2323KTNR1112E5050	2"	123	49	175
2323KTNR1112E5065	2 1/2"	159	65	223
2323KTNR1112E5080	3"	182	76	223
2323KTNR1112E5100	4"	224	94	298



BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+160°C	ENDS	BSP	
MEDIA	Water, oil and gas						

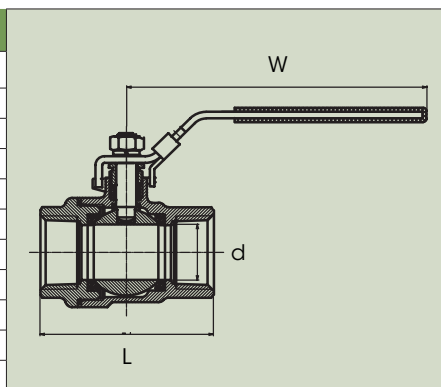
FIGURE

1812K

2 PIECE STAINLESS STEEL PN63 BALL VALVE NPT THREADED WITH LOCK



COD.	"	L	d	W
2323KTNR1812A4008	1/4"	52	8	95
2323KTNR1812A4010	3/8"	52	10	95
2323KTNR1812A4015	1/2"	64	15	105
2323KTNR1812A4020	3/4"	72	20	120
2323KTNR1812A4025	1"	83	25	140
2323KTNR1812A4032	1 1/4"	96	32	145
2323KTNR1812A4040	1 1/2"	103	38	160
2323KTNR1812A4050	2"	123	49	175
2323KTNR1812A4065	2 1/2"	159	65	223
2323KTNR1812A4080	3"	168	78	245
2323KTNR1812A4100	4"	199	98	325

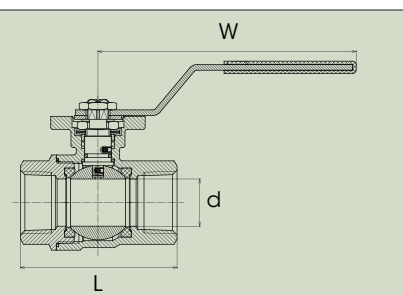


BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+160°C	ENDS	NPT	
MEDIA	Water, oil and gas						

FIGURE

1112MMOUNTING PAD 2 PIECE STAINLESS
STEEL PN63 BALL VALVE BSP
THREADED

COD.	"	L	d	W
2323KTNR1112ME5008	1/4"	52	11	96
2323KTNR1112ME5010	3/8"	52	12	96
2323KTNR1112ME5015	1/2"	55	15	98
2323KTNR1112ME5020	3/4"	62	20	110
2323KTNR1112ME5025	1"	74	25	135
2323KTNR1112ME5032	1 1/4"	82	32	142
2323KTNR1112ME5040	1 1/2"	91	38	173
2323KTNR1112ME5050	2"	105	49	173

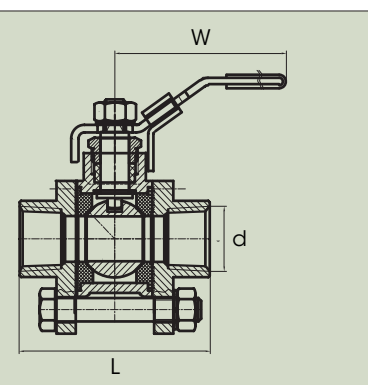


BODY	CF8M	SEAT	PTFE		BALL	F316
PRESSURE	PN63	TEMP.	-29°C	+160°C	ENDS	BSP
MEDIA	Water, oil and gas					

FIGURE

1113MOUNTING PAD 3 PIECE STAINLESS
STEEL PN63 BALL VALVE BSP
THREADED

COD.	"	L	d	W
2323KTNR1113E5008	1/4"	67	98	12
2323KTNR1113E5010	3/8"	67	98	12
2323KTNR1113E5015	1/2"	62	98	15
2323KTNR1113E5020	3/4"	72	110	20
2323KTNR1113E5025	1"	80	133	25
2323KTNR1113E5032	1 1/4"	96	133	32
2323KTNR1113E5040	1 1/2"	104	170	38
2323KTNR1113E5050	2"	123	170	49
2323KTNR1113E5065	2 1/2"	163	220	65
2323KTNR1113E5080	3"	191	245	78
2323KTNR1113E5100	4"	242	325	98

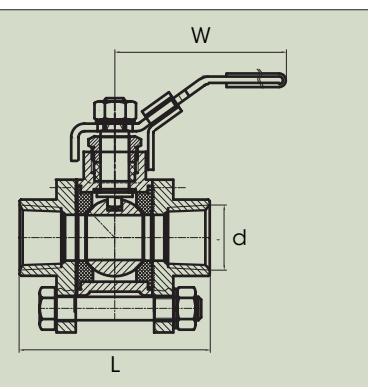


BODY	CF8M	SEAT	PTFE		BALL	F316
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	BSP
MEDIA	Water, oil and gas					

FIGURE

18133 PIECE STAINLESS STEEL PN63 BALL
VALVE NPT THREADED

COD.	"	L	d	W
2323KTNR1813A4008	1/4"	67	12	98
2323KTNR1813A4010	3/8"	67	12	98
2323KTNR1813A4015	1/2"	62	15	98
2323KTNR1813A4020	3/4"	72	20	110
2323KTNR1813A4025	1"	80	25	133
2323KTNR1813A4032	1 1/4"	96	32	133
2323KTNR1813A4040	1 1/2"	104	38	170
2323KTNR1813A4050	2"	123	49	170
2323KTNR1813A4065	2 1/2"	163	65	220
2323KTNR1813A4080	3"	191	78	245
2323KTNR1813A4100	4"	242	98	325



BODY	CF8M	SEAT	PTFE		BALL	F316
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	NPT
MEDIA	Water, oil and gas					

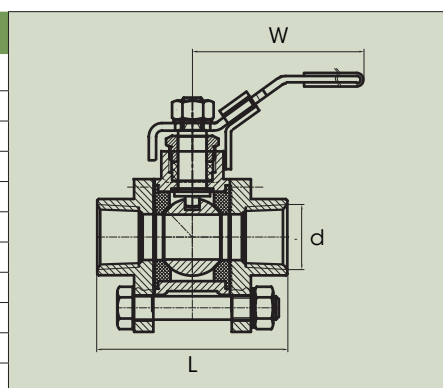
FIGURE

1413

3 PIECE STAINLESS STEEL PN63 BALL VALVE WELDABLE ENDS



COD.	"	L	d	W
2323KTNS1413E5008	1/4"	64	14.1	125
2323KTNS1413E5010	3/8"	64	17.5	125
2323KTNS1413E5015	1/2"	65	21.7	125
2323KTNS1413E5020	3/4"	76	27	125
2323KTNS1413E5025	1"	83	33.8	155
2323KTNS1413E5032	1 1/4"	101	42.5	155
2323KTNS1413E5040	1 1/2"	110	48.6	185
2323KTNS1413E5050	2"	127	61.1	185
2323KTNS1413E5065	2 1/2"	165	73.8	260
2323KTNS1413E5080	3"	195	89.3	260
2323KTNS1413E5100	4"	251	115.4	300



BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	BSP	
MEDIA	Water, oil and gas						

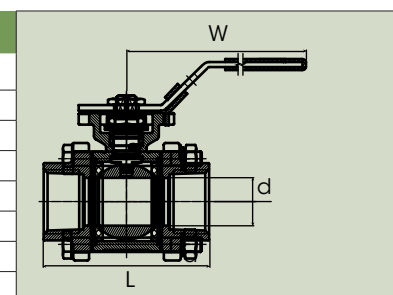
FIGURE

1113M

MOUNTING PAD 3 PIECE STAINLESS STEEL PN63 BALL VALVE BSP THREADED



COD.	"	L	d	W
2323KTNR1113ME5008	1/4"	64	14.1	125
2323KTNR1113ME5010	3/8"	64	17.5	125
2323KTNR1113ME5015	1/2"	65	21.7	125
2323KTNR1113ME5020	3/4"	76	27	125
2323KTNR1113ME5025	1"	83	33.8	155
2323KTNR1113ME5032	1 1/4"	101	42.5	155
2323KTNR1113ME5040	1 1/2"	110	48.6	185
2323KTNR1113ME5050	2"	127	61.1	185



BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	BSP	
MEDIA	Water, oil and gas						

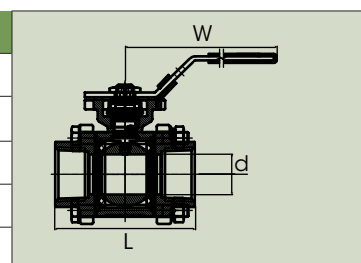
FIGURE

1813M

MOUNTING PAD 3 PIECE STAINLESS STEEL PN63 BALL VALVE NPT THREADED



COD.	"	L	d	W
2323KTNR1813ME5015	1/2"	65	11	98
2323KTNR1813ME5020	3/4"	75	20	110
2323KTNR1813ME5025	1"	83	25	135
2323KTNR1813ME5040	1 1/2"	109	38	170
2323KTNR1813ME5050	2"	132	49	170

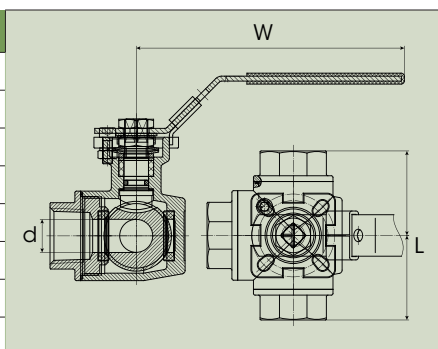


BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	NPT	
MEDIA	Water, oil and gas						

FIGURE

111L/T3 WAY STAINLESS STEEL PN63
BALL VALVE BSP THREADED

COD.	"	L	d	W
2323KTNR111LE5015	1/2"	72	12	125
2323KTNR111LE5020	3/4"	82	15	125
2323KTNR111LE5025	1"	90	18	155
2323KTNR111LE5032	1 1/4"	128	25	155
2323KTNR111LE5040	1 1/2"	137	32	185
2323KTNR111LE5050	2"	154	38	185
2323KTNR111TE5015	2 1/2"	200	49	260
2323KTNR111TE5020	3"	236	65	260



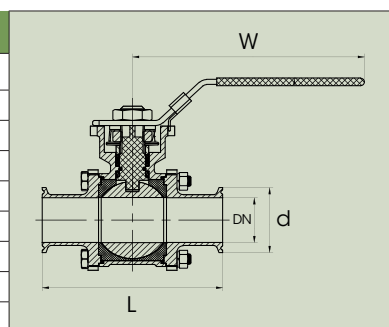
BODY	CF8M	SEAT	PTFE		BALL	F316
PRESSURE	PN63	TEMP.	-29°C	+180°C	ENDS	BSP
MEDIA	Water, oil and gas					



FIGURE

191MPOLISHED STAINLESS STEEL SANITARY
BALL VALVE WITH CLAMP ENDS

COD.	"	L	DN	d	W
2323KTNC1913E5015	1/2"	91	9,4	25,4	132
2323KTNC1913E5020	3/4"	104	16	25,4	132
2323KTNC1913E5025	1"	115	22	50,5	165
2323KTNC1913E5032	1 1/4"	125	28	50,5	170
2323KTNC1913E5040	1 1/2"	140	35	50,5	172
2323KTNC1913E5050	2"	156	47	64	194
2323KTNC1913E5065	2 1/2"	199	60	77,5	252
2323KTNC1913E5080	3"	230	72	91	252
2323KTNC1913E5100	4"	242	95	119	332



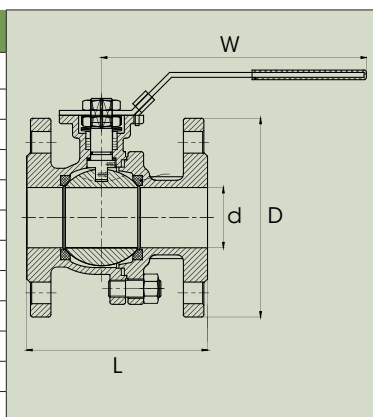
BODY	CF3M	SEAT	PTFE		BALL	F316
PRESSURE	PN16	TEMP.	-29°C	+180°C	ENDS	CLAMP
MEDIA	Water ,Food, Beverage, and Pharmaceutical fluids					



FIGURE

1212STAINLESS STEEL PN16/40 BALL
VALVE DIN FLANGES

COD.	DN	L	d	D	W
2323KTNB1212E2015	15	115	15	95	141
2323KTNB1212E2020	20	120	20	105	141
2323KTNB1212E2025	25	125	25	115	162
2323KTNB1212E2032	32	130	32	140	162
2323KTNB1212E2040	40	140	38	150	220
2323KTNB1212E2050	50	150	50	165	220
2323KTNB1212E2065	65	170	64	185	285
2323KTNB1212E2080	80	180	76	200	285
2323KTNB1212E2100	100	190	100	220	380
2323KTNB1212E2125	125	325	123	250	456
2323KTNB1212E2150	150	350	150	285	656
2323KTNB1212E2200	200	400	202	340	1000



BODY	14408		SEAT	PTFE		BALL	F316
PRESSURE	PN40	PN16	TEMP.	-29°C	+180°C	ENDS	DIN
MEDIA	Water, oil and gas						

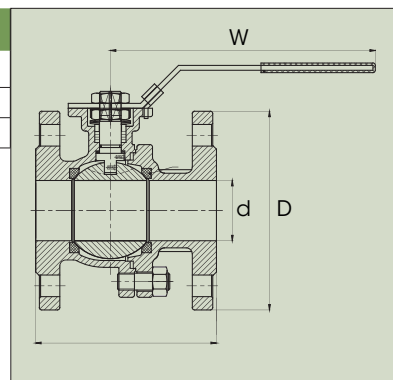




FIGURE

1212/E4STAINLESS STEEL PN40 BALL VALVE
DIN FLANGES

COD.	DN	L	d	D	W
2323KTNB1212E4065	65	170	64	185	285
2323KTNB1212E4080	80	180	76	200	285
2323KTNB1212E4100	100	190	100	235	380

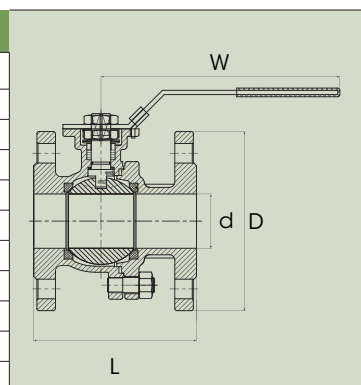


BODY	CF8M	SEAT	PTFE		BALL	F316	
PRESSURE	PN40	TEMP.	-29°C	+160°C	ENDS	DIN	
MEDIA	Water, oil and gas						

FIGURE

1332CARBON STEEL CL150 BALL VALVE
ANSI FLANGES

COD.	"	L	d	W	D
2323KTNB1332A1015	1/2"	108	15	141	90
2323KTNB1332A1020	3/4"	117	20	141	100
2323KTNB1332A1025	1"	127	25	162	110
2323KTNB1332A1032	1 1/4"	140	32	162	115
2323KTNB1332A1040	1 1/2"	165	38	220	127
2323KTNB1332A1050	2"	178	50	220	152
2323KTNB1332A1065	2 1/2"	190	64	285	180
2323KTNB1332A1080	3"	203	76	380	190
2323KTNB1332A1100	4"	229	100	380	230
2323KTNB1332A1150	6"	394	150	656	280
2323KTNB1332A1200	8"	457	202	1200	345

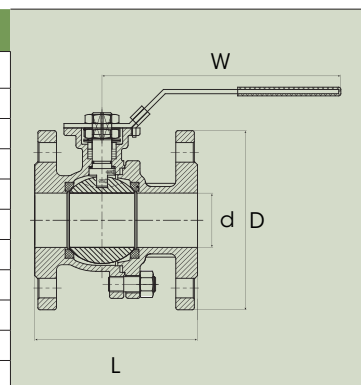


BODY	A216 WCB	SEAT	PTFE		BALL	F316	
PRESSURE	CL150	TEMP.	-29°C	+160°C	ENDS	ANSI	
MEDIA	Water, oil and gas						

FIGURE

1312STAINLESS STEEL 150# BALL VALVE
ANSI FLANGES

COD.	"	L	d	W	D
2323KTNB1312A1015	1/2"	108	15	141	90
2323KTNB1312A1020	3/4"	117	20	141	100
2323KTNB1312A1025	1"	127	25	162	110
2323KTNB1312A1032	1 1/4"	140	32	162	115
2323KTNB1312A1040	1 1/2"	165	38	220	127
2323KTNB1312A1050	2"	178	50	220	152
2323KTNB1312A1065	2 1/2"	190	64	285	180
2323KTNB1312A1080	3"	203	76	380	190
2323KTNB1312A1100	4"	229	100	380	230
2323KTNB1312A1150	6"	394	150	656	280
2323KTNB1312A1200	8"	457	202	1200	345



BODY	CF8M	SEAT	PTFE		BALL	F316	 KTN
PRESSURE	CL150	TEMP.	-29°C	+160°C	ENDS	ANSI	
MEDIA	Water, oil and gas						

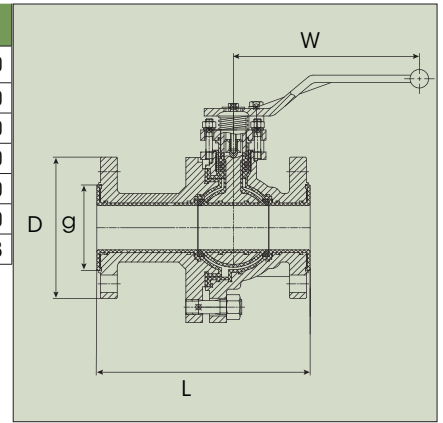
FIGURE

123T

PFA LINED CARBON STEEL PN10 BALL VALVE DIN FLANGES



COD.	DN	L	g	D	W
2323KTNB123TE2015	15	130	45	95	160
2323KTNB123TE2020	20	150	55	105	160
2323KTNB123TE2025	25	160	65	115	160
2323KTNB123TE2040	40	200	81	150	200
2323KTNB123TE2050	50	230	102	165	200
2323KTNB123TE2080	80	310	132	200	260
2323KTNB123TE2100	100	350	157	220	313



BODY	WCB+PFA	SEAT	PTFE		BALL	PTFE	
PRESSURE	PN10	TEMP.	-29°C	+180°C	ENDS	DIN	
MEDIA	Acid, alkali and salt						

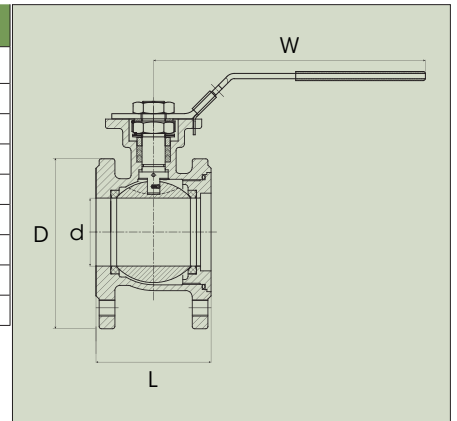
FIGURE

1611

STAINLESS STEEL PN16 BALL VALVE WAFER TYPE



COD.	DN	L	d	D	W
2323KTNW1611E2015	15	42	15	95	141
2323KTNW1611E2020	20	44	20	105	141
2323KTNW1611E2025	25	50	25	115	162
2323KTNW1611E2032	32	60	32	140	162
2323KTNW1611E2040	40	65	38	150	220
2323KTNW1611E2050	50	80	50	165	220
2323KTNW1611E2065	65	110	65	185	285
2323KTNW1611E2080	80	120	76	200	285
2323KTNW1611E2100	100	150	94	220	380



BODY	14408	SEAT	RPTFE		BALL	F316	
PRESSURE	PN16	TEMP.	-29°C	+160°C	ENDS	WAFER	
MEDIA	Water, oil and gas						

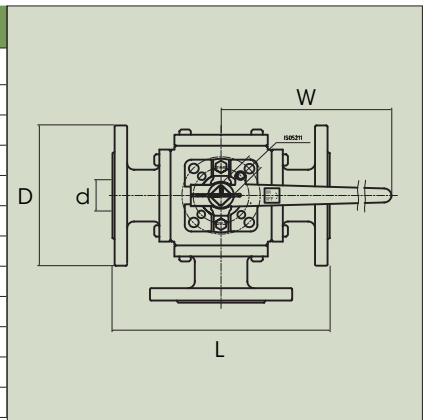
FIGURE

121/LT

3 WAY STAINLESS STEEL PN16/40 BALL VALVE DIN FLANGES



COD.	DN	L	d	D	W
2323KTNB121LE2025	25	180	25	115	200
2323KTNB121LE2040	40	212	40	150	235
2323KTNB121LE2050	50	230	50	165	290
2323KTNB121LE2065	65	290	65	185	310
2323KTNB121LE2080	80	310	80	200	310
2323KTNB121LE2100	100	350	100	220	310
2323KTNB121TE4025	25	180	25	115	200
2323KTNB121TE4040	40	212	40	150	235
2323KTNB121TE4050	50	230	50	165	290
2323KTNB121TE4065	65	29	65	185	310
2323KTNB121TE4080	80	310	80	200	310
2323KTNB121TE4100	100	350	100	220	310



BODY	CF8M		SEAT	RPTFE		BALL	F316	
PRESSURE	PN16	PN40	TEMP.	-29°C	+150°C	ENDS	DIN	
MEDIA	Water, oil and gas							

TRUNNION VALVES

1212TR

APPLICABLE STANDARDS

DESIGN & MANUFACTURE: API 608 / API 6D / ISO 14313
FULL PORT WITH UNRESTRICTED BORE FOR MINIMUM PRESSURE DROP
FIRE SAFE DESIGN: API 607
ANTISTATIC REQUIREMENTS: API 608
PRESSURE & TEMPERATURE RATINGS: ASME B16.34
FACE-TO-FACE DIMENSIONS: ASME B16.10
FLANGED ENDS (RF/RTJ): ASME B16.5
BUTT-WELDING ENDS: ASME B16.25
INSPECTION & TESTING: API 598 / API 6D



VALVE SAFETY FEATURES

The valve is engineered with enhanced safety mechanisms to ensure reliable performance under critical conditions. Its **fire-safe** design maintains sealing integrity even if soft components are damaged during a fire, preventing external leakage. Additionally, the **blow-out proof stem** construction includes an internal retaining shoulder that prevents stem ejection under pressure, guaranteeing mechanical safety and operational reliability.



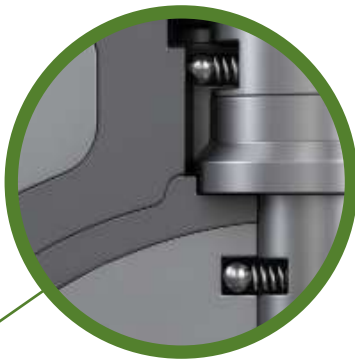
ISO 5211 READY FOR AUTOMATION

The valve is equipped with a standardized ISO 5211 mounting flange, allowing direct installation of pneumatic, electric, or hydraulic actuators without additional brackets. This ensures precise alignment, mechanical stability, and easy interchangeability for automated operation.



TRUNNION MOUNTED BALL VALVE SYSTEM

The ball is supported by upper and lower trunnions that act as bearings, ensuring perfect alignment and smooth rotation. This design minimizes friction and pressure load on the ball, resulting in low operating torque, longer life, and reliable sealing under high pressure.



ANTISTATIC DEVICE^v

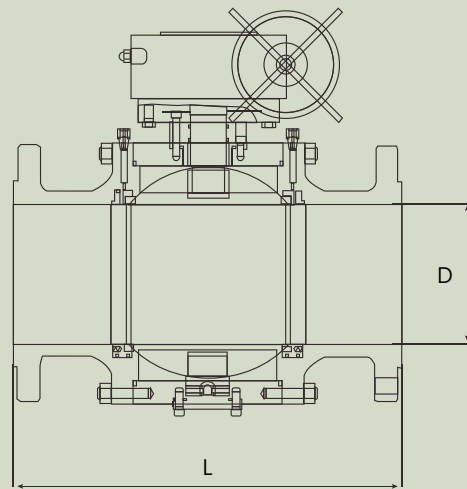
Ensures electrical continuity between ball, stem, and body, discharging any static electricity generated during valve operation — preventing sparks and ensuring safety in flammable or explosive services.



DOUBLE BLOCK AND BLEED SYSTEM

This configuration integrates three auxiliary valves: a vent valve on top to release trapped gases, a drain valve at the bottom to remove accumulated liquids, and an injection valve for sealant or lubricant supply. Together, they ensure safe isolation, efficient cavity pressure relief, and reliable valve performance under demanding service conditions.

API 608



NPS	150#		300#		600#		900#		1500#		2500#	
	L	D	L	D	L	D	L	D	L	D	L	D
2"	178	50.8	216	50.8	292	50.8	368	50.8	368	50.8	451	50.8
2 1/2"	190	65	241	65	330	65	419	65	419	65	508	65
3"	203	80	283	80	356	80	381	80	470	80	578	80
4"	229	100	305	100	432	100	457	100	546	100	673	100
6"	394	150	403	150	559	150	610	150	705	150	914	150
8"	457	200	502	200	660	200	737	200	832	200	1022	200
10"	533	250	568	250	757	250	965	250	991	250	1270	250
12"	610	300	648	300	838	300	965	300	1130	300	1422	300
14"	686	350	762	350	889	350	1029	350	1257	350	-	-
16"	762	400	838	400	991	400	1130	400	1384	400	-	-
18"	864	450	914	450	1082	450	1219	450	-	-	-	-
20"	914	508	991	508	1194	508	1321	508	-	-	-	-
24"	1067	610	1143	610	1397	610	1549	610	-	-	-	-
26"	1143	660	1245	660	1448	660	-	-	-	-	-	-
28"	1245	711	1346	711	1549	711	-	-	-	-	-	-
30"	1295	762	1397	762	-	-	-	-	-	-	-	-
32"	1372	813	1524	813	-	-	-	-	-	-	-	-
36"	1524	914	-	-	-	-	-	-	-	-	-	-



OPTION	BODY/BONNET	BALL	STEM	SEAT	SEAT INSERT	SERVICE
A GLASS FILLED PTFE (STANDARD)	A105	A182 F304	A276 304	A105+ENP	GLASS PTFE	Standard soft seat, bubble-tight sealing, -29 °C ~ +200 °C, hydrocarbon or general service.
	A182 F316			A182 F316		
	A350 LF2	F316	316	A350 LF2+ENP		
B PEEK (HIGH PERFORMANCE SOFT SEAT)	A105	A182 F316 ENP	A276 316	A182 F316	PEEK (VIRGIN / GF / CF)	High temperature & pressure service, fire-safe design with graphite secondary seal, -29 °C ~ +250 °C.
	A182 F316			A105 ENP		
	A350 LF2		17-4PH			
C METAL SEAT (STELLITE 6)	A105	F316 + STELLITE 6	A276 316	F316 + STELLITE 6	N/A (METAL-TO-METAL)	Severe service, high temperature or abrasive media, fire-safe per API 607, -29 °C ~ +540 °C.
	A182 F316					
	A350 LF2		17-4PH			
D METAL SEAT (TUNGSTEN CARBIDE - WC-CO ₂ CR)	A105	F316 + WC-CO ₂ CR	A276 316	F316 + WC-CO ₂ CR	N/A (METAL-TO-METAL)	High cycle, erosive or dirty service; excellent wear resistance, -29 °C ~ +450 °C.
	A182 F316					
	A350 LF2		17-4PH			

BUTTERFLY VALVES

MANUFACTURING RANGE:

TYPES:

WAFER BUTTERFLY VALVES
LUG TYPE BUTTERFLY VALVES
PTFE LINED BUTTERFLY VALVES
SANITARY BUTTERFLY VALVES
DOUBLE OFFSET BUTTERFLY VALVES

SIZE RANGE:

DN40 – DN600+

CONNECTIONS:

WAFER TYPE · LUG TYPE · CLAMP ENDS

OPERATING CONDITIONS:

PRESSURE:
PN10 – PN16
TEMPERATURE:
–35°C TO +200°C

MATERIALS:

DUCTILE IRON · STAINLESS STEEL
PTFE · EPDM · PFA LINED DISC

APPLICATIONS:

WATER TREATMENT
INDUSTRIAL PIPELINES
CHEMICAL PROCESSING
FOOD AND BEVERAGE
HVAC SYSTEMS

ISO 5211 DIRECT MOUNTING PAD

Integrated flange enables compact, bracket-free automation. Designed for seamless integration with our pneumatic and electric actuators (RDE, RSE, RKE, RGE series)

LIVE-LOADED SHAFT SEAL

Spring-loaded packing system maintains constant sealing pressure, preventing fugitive emissions and extending cycle life

ENERGIZED PTFE SEAT TECHNOLOGY

Virgin PTFE liner backed by a resilient silicone energizer ensures bubble-tight shutoff and compensates for thermal expansion

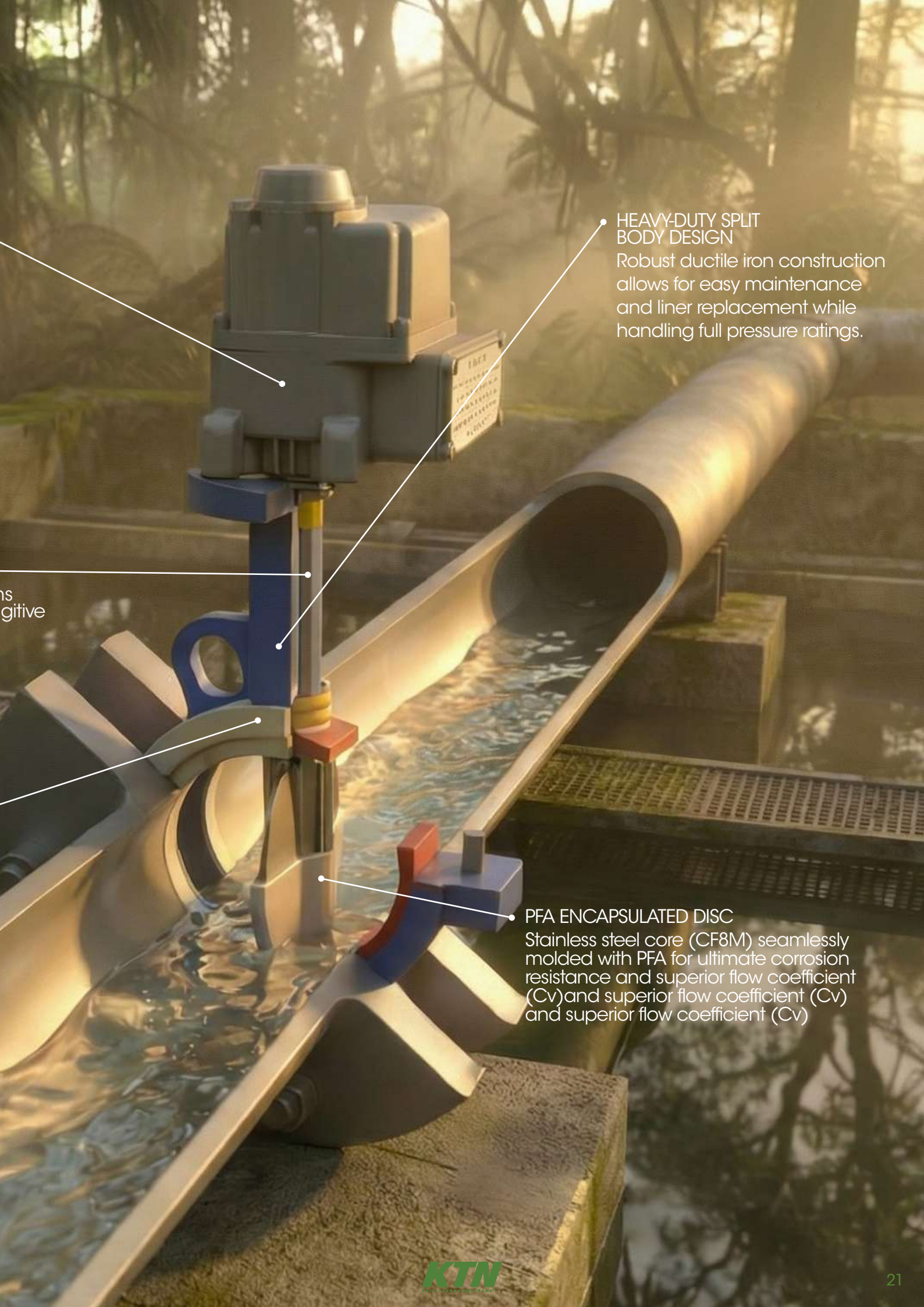


**BUREAU
VERITAS**
CE-0056-PED-H-
KTN 001-26-ESP



ES 18/81876





HEAVY-DUTY SPLIT BODY DESIGN

Robust ductile iron construction allows for easy maintenance and liner replacement while handling full pressure ratings.

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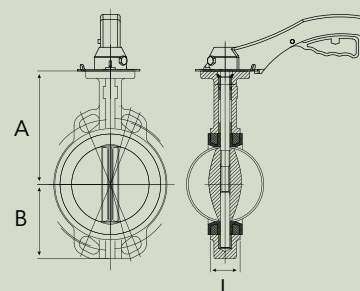
PFA ENCAPSULATED DISC

Stainless steel core (CF8M) seamlessly molded with PFA for ultimate corrosion resistance and superior flow coefficient (Cv) and superior flow coefficient (Cv) and superior flow coefficient (Cv)

FIGURE

266IEEPDM SEAT PN10/16
BUTTERFLY VALVE WAFER TYPE

COD.	DN	A	B	L
2626KTNW266IEE1040	40	120	65	33
2626KTNW266IEE1050	50	140	80	43
2626KTNW266IEE1065	65	150	89	46
2626KTNW266IEE1080	80	158	95	46
2626KTNW266IEE1100	100	176	114	52
2626KTNW266IEE1125	125	190	127	56
2626KTNW266IEE1150	150	212	139	56
2626KTNW266IEE1200	200	236	174	60
2626KTNW266IEE1250	250*	265	203	68
2626KTNW266IEE1300	300*	305	242	78
2626KTNW266IEE1350	350*	368	267	78
2626KTNW266IEE1400	400*	400	309	102
2626KTNW266IEE1450	450*	422	340	114
2626KTNW266IEE1500	500*	440	362	127



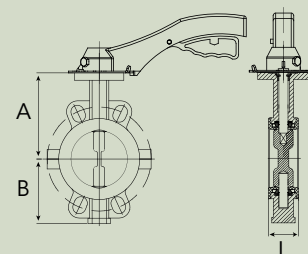
BODY	EN-GJL-400-15	SEAT	WRAS EPDM		DISC	CF8M
PRESSURE	PN10/16	TEMP.	-35°C	+130°C	ENDS	DIN
MEDIA	Water, oil and gas					



FIGURE

266ITPTFE SEAT PN10/16 BUTTERFLY VALVE
WAFER TYPE

COD.	DN	A	B	L
2626KTNW266ITE2050	50	140	75	43
2626KTNW266ITE2065	65	150	82	46
2626KTNW266ITE2080	80	160	90	46
2626KTNW266ITE2100	100	178	118	52
2626KTNW266ITE2125	125	190	131	56
2626KTNW266ITE2150	150	200	145	56
2626KTNW266ITE2200	200	240	173	60
2626KTNW266ITE2250	250*	273	208	68
2626KTNW266ITE2300	300*	310	244	78



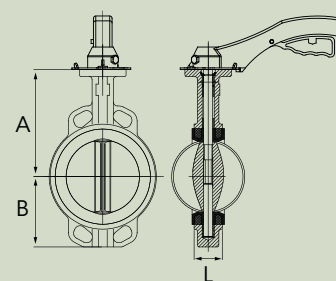
BODY	EN-GJL-400-18	SEAT	PTFE		DISC	CF8M
PRESSURE	PN10/16	TEMP.	-35°C	+200°C	ENDS	DIN
MEDIA	Acid, alkali and salt					



FIGURE

266ITTPFA DISC PTFE SEAT PN10/16
BUTTERFLY VALVE WAFER TYPE

COD.	DN	A	B	L
2626KTNW266ITTE2050	50	140	75	43
2626KTNW266ITTE2065	65	150	82	46
2626KTNW266ITTE2080	80	160	90	46
2626KTNW266ITTE2100	100	178	118	52
2626KTNW266ITTE2125	125	190	131	56
2626KTNW266ITTE2150	150	200	145	56
2626KTNW266ITTE2200	200	240	173	60
2626KTNW266ITTE2250	250*	237	208	68
2626KTNW266ITTE2300	300*	310	244	78



BODY	EN-GJL-400-18	SEAT	PTFE		DISC	CF8M/PFA
PRESSURE	PN10/16	TEMP.	-35°C	+200°C	ENDS	DIN
MEDIA	Acid, alkali and salt					

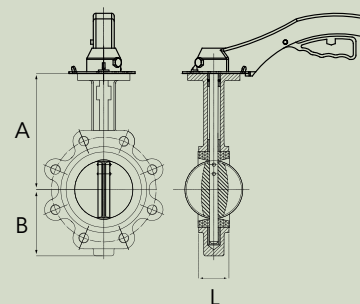


FIGURE

276IE

EPDM (WRAS) SEAT PN10/16
BUTTERFLY VALVE LUG TYPE

COD.	DN	A	B	L
2626KTNL2276IEE2040	40	120	65	33
2626KTNL2276IEE2050	50	140	80	43
2626KTNL2276IEE2065	65	150	89	46
2626KTNL2276IEE2080	80	158	95	46
2626KTNL2276IEE2100	100	176	114	52
2626KTNL2276IEE2125	125	190	127	56
2626KTNL2276IEE2150	150	212	139	56
2626KTNL2276IEE1200	200	236	174	60
2626KTNL2276IEE2200	200*	236	174	60
2626KTNL2276IEE1250	250*	265	203	68
2626KTNL2276IEE2250	250*	265	203	68
2626KTNL2276IEE1300	300*	305	242	78



BODY	EN-GJL-400-15	SEAT	WRAS EPDM	DISC	F316
PRESSURE	PN10 PN16	TEMP.	-35°C +130°C	ENDS	DIN
MEDIA	Acid, alkali and salt				

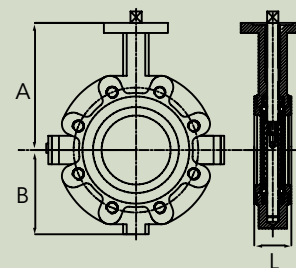


FIGURE

276IT

PTFE SEAT PN10/16
BUTTERFLY VALVE LUG TYPE

COD.	DN	A	B	L
2626KTNL2276ITE1050	50	140	75	43
2626KTNL2276ITE1065	65	150	82	46
2626KTNL2276ITE1080	80	160	90	46
2626KTNL2276ITE1100	100	178	118	52
2626KTNL2276ITE1125	125	190	131	56
2626KTNL2276ITE1150	150	200	145	56
2626KTNL2276ITE1200	200	240	173	60
2626KTNL2276ITE1250	250*	273	208	68
2626KTNL2276ITE1300	300*	310	244	78



BODY	EN-GJL-400-18	SEAT	PTFE	DISC	CF8M
PRESSURE	PN10/16	TEMP.	-35°C +200°C	ENDS	DIN
MEDIA	Acid, alkali and salt				

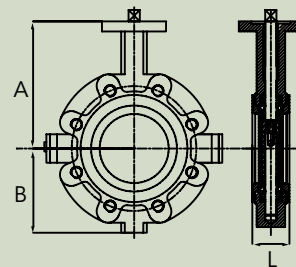


FIGURE

276ITT

PFA DISC PTFE SEAT PN10/16
BUTTERFLY VALVE LUG TYPE

COD.	DN	A	B	L
2626KTNL2276ITTE1050	50	140	75	43
2626KTNL2276ITTE1065	65	150	82	46
2626KTNL2276ITTE1080	80	160	90	46
2626KTNL2276ITTE1100	100	178	118	52
2626KTNL2276ITTE1125	125	190	131	56
2626KTNL2276ITTE1150	150	200	145	56
2626KTNL2276ITTE1200	200	240	173	60
2626KTNL2276ITTE1250	250*	273	208	68
2626KTNL2276ITTE1300	300*	310	244	78



BODY	EN-GJL-400-18	SEAT	PTFE	DISC	CF8M+PFA
PRESSURE	PN10/16	TEMP.	-35°C +200°C	ENDS	DIN
MEDIA	Acid, alkali and salt				

* ≥ DN250 Ensembled with gear box ≥ DN200 PN10/16 option

FIGURE

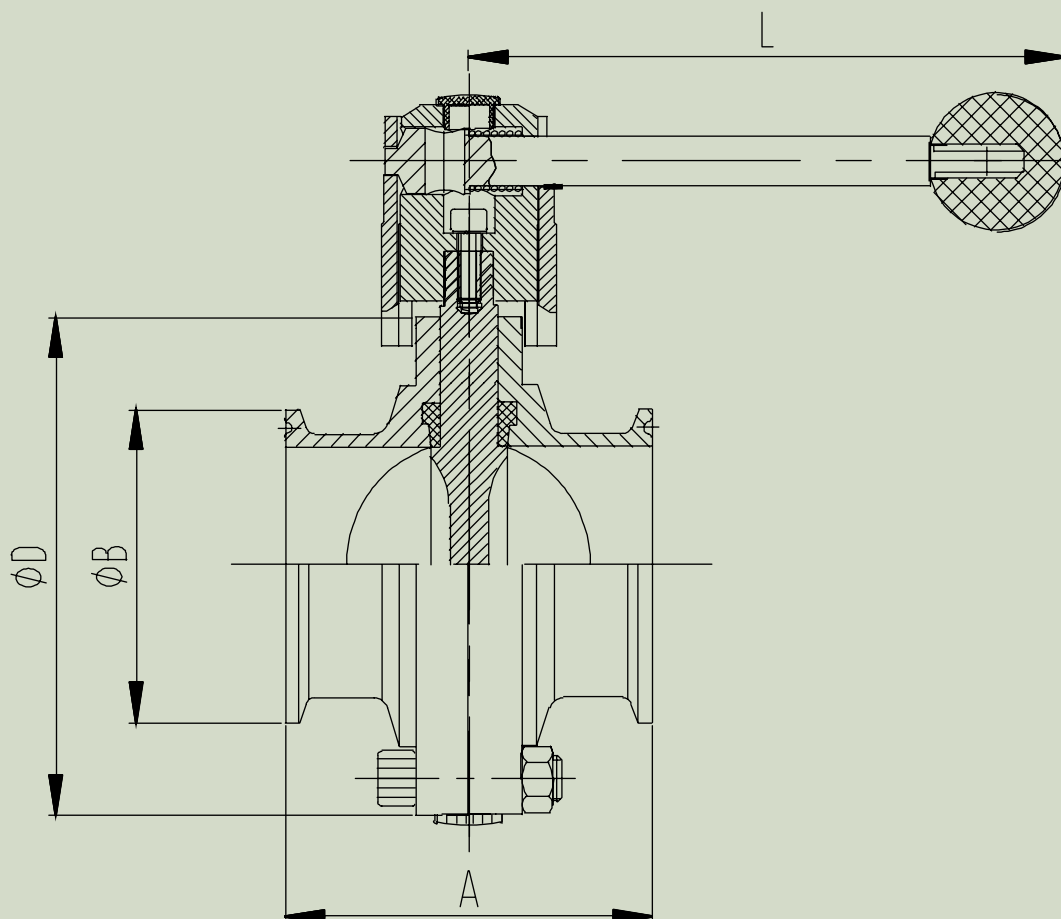
291M

POLISHED STAINLESS STEEL
SANITARY BUTTERFLY VALVE
WITH CLAMP ENDS



COD.	DN	A	B	D	L
2626KTNC291ME2015	15	66	25.4	78	140
2626KTNC291ME2020	20	66	25.4	78	140
2626KTNC291ME2025	25	66	50.5	78	140
2626KTNC291ME2040	40	70	50.5	86	140
2626KTNC291ME2050	50	76	64	100	150
2626KTNC291ME2065	65	80	77.5	115	160
2626KTNC291ME2080	80	84	91	128	160
2626KTNC291ME2100	100	104	119	154	160

BODY	316L	SEAT	EPDM		DISC	316L
PRESSURE	PN16	TEMP.	-20°C	+120°C	ENDS	CLAMP
MEDIA	Water ,Food, Beverage, and Pharmaceutical fluids					



2 OFFSET BUTTERFLY VALVE

LOW OPERATING TORQUE

Efficient operation and
smaller actuators

DOUBLE OFFSET DESIGN

Reduced friction and
extended seat life

ROBUST CONSTRUCTION

Designed for demanding
industrial service

HIGH - PERFORMANCE DISC

Optimized flow and durability

EXCELLENT SEALING PERFORMANCE

Reliable tight shut-off under pressure



FLEXIBLE WEDGE DESIGN

Compensates for thermal expansion and body distortion, preventing the wedge from getting stuck (thermal binding) and ensuring a tight seal

OS&Y RISING STEM

Outside Screw and Yoke design keeps stem threads isolated from line fluid to prevent corrosion, while providing immediate visual indication of valve position (Open/Closed)

HIGH-TEMP GRAPHITE PACKING

Die-formed graphite rings and gasket ensure zero leakage and fire-safe reliability at operating temperatures up to 425°C

RENEWABLE SEAT RINGS

Separate seat rings (not integral to body) allow for easier refurbishment and maintenance, extending the total lifecycle of the valve body

HEAVY-DUTY API 600 CONSTRUCTION

Full-port design with substantial wall thickness offers superior allowance for corrosion and mechanical integrity compared to standard lightweight valves

GATE VALVES

MANUFACTURING RANGE:

TYPES:

CAST STEEL GATE VALVES (CLASS 150 / 300)
FORGED STEEL GATE VALVES (CLASS 800)
PRESSURE SEAL GATE VALVES (CLASS 1500 / 2500)
THREADED GATE VALVES
WELD END GATE VALVES

SIZE RANGE:

DN15 – DN600

CONNECTIONS:

FLANGED (DIN / ANSI) · BSP / NPT THREADED
SOCKET WELD (SW) · BUTT WELD (BW)

OPERATING CONDITIONS:

PRESSURE:
ANSI CLASS 150–2500 · DIN PN16–PN420

TEMPERATURE:
–29°C TO +425°C

MATERIALS:

CARBON STEEL · STAINLESS STEEL · FORGED STEEL
BRONZE (SPECIAL ORDER)
SUPER DUPLEX (SPECIAL ORDER)

APPLICATIONS:

ON/OFF FLOW CONTROL
INDUSTRIAL PIPELINES
OIL & GAS
STEAM SYSTEMS
CHEMICAL PROCESSING



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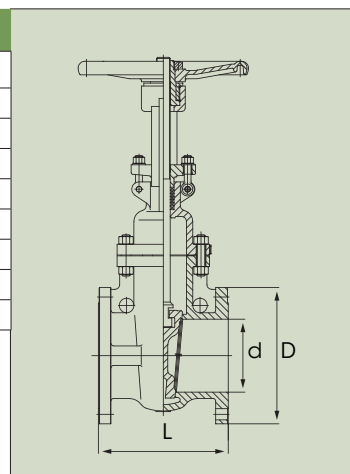
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FIGURE

331/A1STAINLESS STEEL 150# GATE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNC331A1050	2"	178	150	50
2020KTNC331A1065	2 1/2"	191	180	65
2020KTNC331A1080	3"	203	190	80
2020KTNC331A1100	4"	229	230	100
2020KTNC331A1125	5"	255	243	125
2020KTNC331A1150	6"	267	280	150
2020KTNC331A1200	8"	292	345	200
2020KTNC331A1250	10"	330	405	250
2020KTNC331A1300	12"	356	485	300

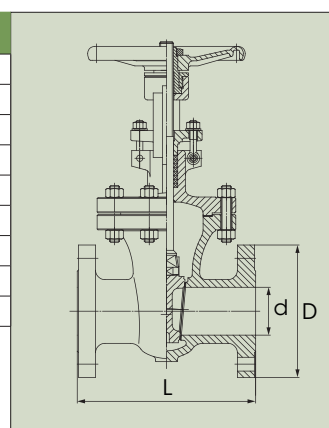


BODY	CF8M	SEAT	CF8M	WEDGE	CF8M	
PRESSURE	CL150	TEMP.	-29°C +425°C	ENDS	ANSI	
MEDIA	Water, Steam and oil					

FIGURE

331/A2STAINLESS STEEL 300# GATE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNC331A1050	2"	216	165	50
2020KTNC331A1065	2 1/2"	241	190	65
2020KTNC331A1080	3"	282	210	80
2020KTNC331A1100	4"	305	255	100
2020KTNC331A1125	5"	381	280	125
2020KTNC331A1150	6"	403	320	150
2020KTNC331A1200	8"	419	380	200
2020KTNC331A1250	10"	457	445	250
2020KTNC331A1300	12"	502	520	300

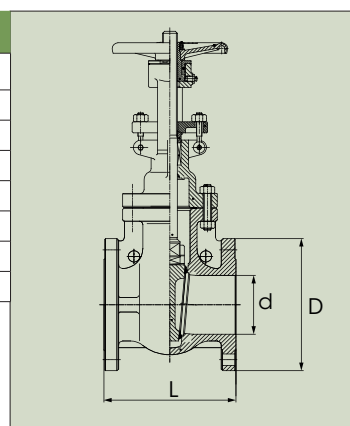


BODY	CF8M	SEAT	CF8M	DISC	CF8M	
PRESSURE	CL300	TEMP.	-29°C +425°C	ENDS	ANSI	
MEDIA	Water, Steam and oil					

FIGURE

333 /A1CARBON STEEL 150# GATE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNC333A1050	2"	178	150	50
2020KTNC333A1065	2 1/2"	190	180	65
2020KTNC333A1080	3"	203	190	80
2020KTNC333A1100	4"	229	230	100
2020KTNC333A1150	6"	267	280	150
2020KTNC333A1200	8"	292	345	200
2020KTNC333A1250	10"	330	405	250
2020KTNC333A1300	12"	356	485	300

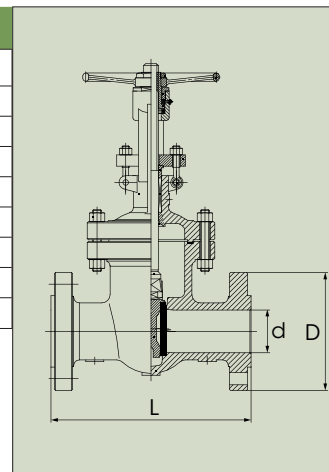


BODY	WCB	SEAT	A105+ STL	DISC	WCB	
PRESSURE	CL150	TEMP.	-29°C +425°C	ENDS	ANSI	
MEDIA	Water, Steam and oil					

FIGURE

333 /A2CARBON STEEL 300# GATE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNC333A2050	2"	216	165	50
2020KTNC333A2065	2 1/2"	241	190	65
2020KTNC333A2080	3"	283	210	80
2020KTNC333A2100	4"	305	255	100
2020KTNC333A2125	5"	381	280	125
2020KTNC333A2150	6"	403	320	150
2020KTNC333A2200	8"	419	380	200
2020KTNC333A2250	10"	457	445	250
2020KTNC333A2300	12"	502	520	300

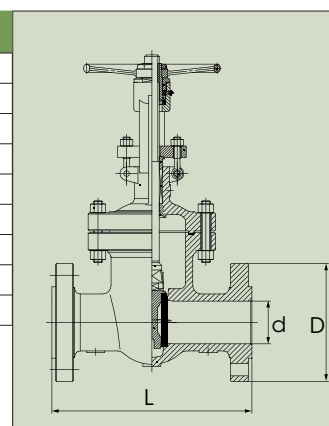


BODY	WCB	SEAT	A105+ STL		DISC	WCB
PRESSURE	CL300	TEMP.	-29°C	+425°C	ENDS	ANSI
MEDIA	Water, Steam and oil					

FIGURE

333 /A3CARBON STEEL 600# GATE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNC333A3050	2"	292	165	50
2020KTNC333A3065	2 1/2"	330	190	65
2020KTNC333A3080	3"	356	210	80
2020KTNC333A3100	4"	432	275	100
2020KTNC333A3125	5"	508	330	125
2020KTNC333A3150	6"	559	355	150
2020KTNC333A3200	8"	660	450	200
2020KTNC333A3250	10"	787	510	250
2020KTNC333A3300	12"	838	560	300

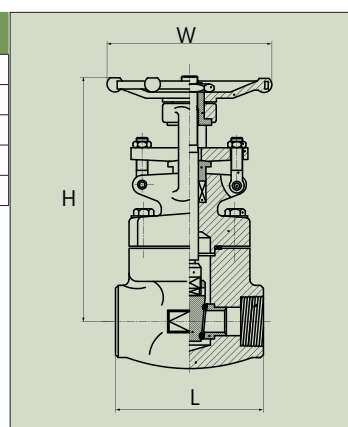


BODY	WCB	SEAT	A105+ STL		DISC	WCB
PRESSURE	CL600	TEMP.	-29°C	+425°C	ENDS	ANSI
MEDIA	Water, Steam and oil					

FIGURE

384FORGED CARBON STEEL 800#
GATE VALVE NPT THREADED

COD.	"	L	H	W
2121KTNC384A4015	1/2"	79	161	100
2121KTNC384A4020	3/4"	92	163	100
2121KTNC384A4025	1"	111	196	125
2121KTNC384A4040	1 1/2"	120	251	160
2121KTNC384A4050	2"	140	290	180



BODY	A105N	SEAT	F6+S4L	DISC	13Cr+STL
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

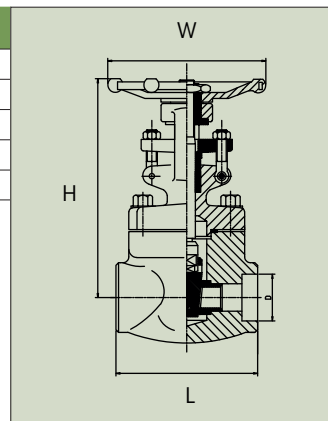


FIGURE

344

FORGED CARBON STEEL 800#
GATE VALVE WELDABLE ENDS

COD.	"	L	H	W
2121KTNC344A4015	1/2"	79	161	100
2121KTNC344A4020	3/4"	92	163	100
2121KTNC344A4025	1"	111	196	125
2121KTNC344A4040	1 1/2"	120	251	160
2121KTNC344A4050	2"	140	290	180



BODY	A105N	SEAT	F6+STL	DISC	13Cr+STL
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	SW
MEDIA	Water, Steam and oil				

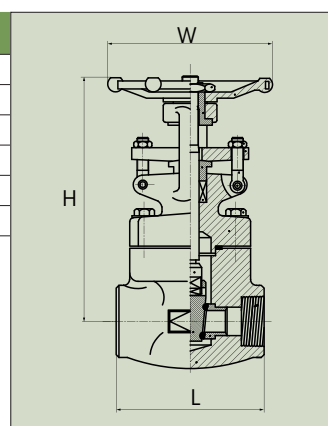


FIGURE

385

FORGED STAINLESS STEEL 800#
GATE VALVE NPT THREADED

COD.	"	L	H	W
2121KTNC385A4015	1/2"	79	161	100
2121KTNC385A4020	3/4"	92	163	100
2121KTNC385A4025	1"	111	196	125
2121KTNC385A4032	1 1/4"	120	223	160
2121KTNC385A4040	1 1/2"	120	251	160
2121KTNC385A4050	2"	140	290	180



BODY	F316L	SEAT	316L+STL	DISC	316L
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

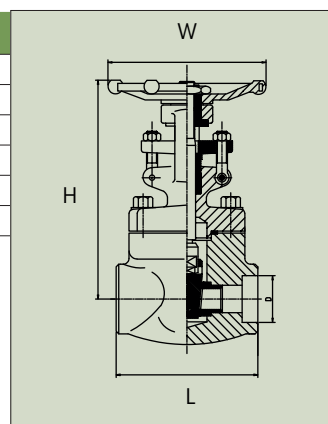


FIGURE

345

FORGED STAINLESS STEEL 800#
GATE VALVE WELDABLE ENDS

COD.	"	L	H	W
2121KTNC345A4015	1/2"	79	161	100
2121KTNC345A4020	3/4"	92	163	100
2121KTNC345A4025	1"	111	196	125
2121KTNC345A4032	1 1/4"	120	223	160
2121KTNC345A4040	1 1/2"	120	251	160
2121KTNC345A4050	2"	140	290	180



BODY	F316L	SEAT	316L+STL	DISC	316L
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				



GATE VALVES

Full Flow
Isolation

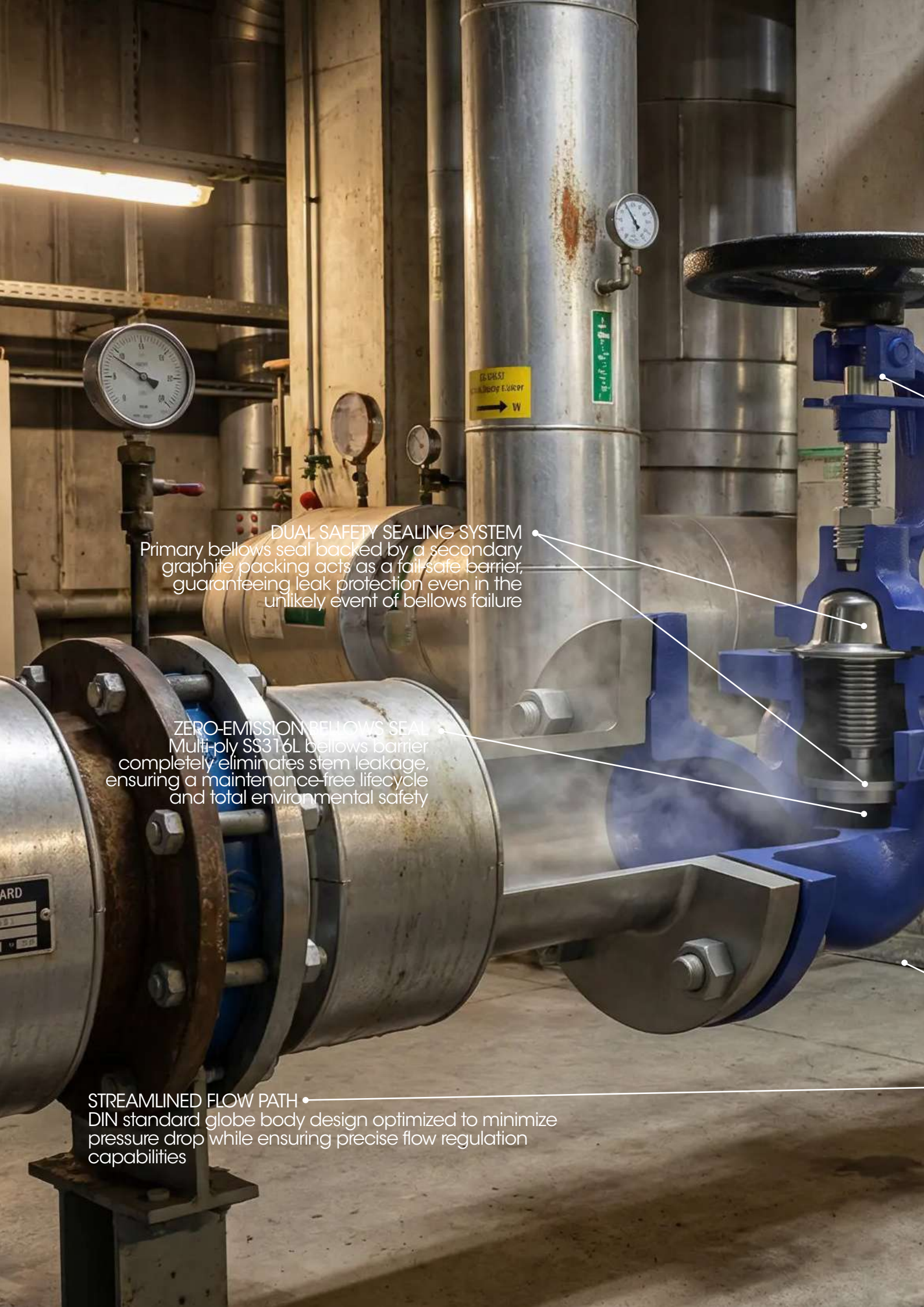


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DUAL SAFETY SEALING SYSTEM

Primary bellows seal backed by a secondary graphite packing acts as a fail-safe barrier, guaranteeing leak protection even in the unlikely event of bellows failure

ZERO-EMISSION BELLOWS SEAL

Multi-ply SS316L bellows barrier completely eliminates stem leakage, ensuring a maintenance-free lifecycle and total environmental safety

STREAMLINED FLOW PATH

DIN standard globe body design optimized to minimize pressure drop while ensuring precise flow regulation capabilities

GLOBE VALVES

NON-ROTATING STEM DESIGN
Integrated anti-rotation device prevents torque transmission to the bellows, protecting it from torsion fatigue and significantly extending service life

HARDENED CONICAL PLUG
Precision-ground 13Cr stainless steel disc and seat provide excellent throttling capability and superior resistance to wire-drawing erosion

MANUFACTURING RANGE:

TYPES:

CAST STEEL GLOBE VALVES (CLASS 150 / 300)
FORGED STEEL GLOBE VALVES (CLASS 800)
PRESSURE SEAL GLOBE VALVES (CLASS 1500 / 2500)
BELLOWS SEAL GLOBE VALVES
THREADED GLOBE VALVES · WELD END GLOBE VALVES

SIZE RANGE:

DN15 – DN600

CONNECTIONS:

FLANGED (DIN / ANSI) · BSP / NPT THREADED
SOCKET WELD (SW) · BUTT WELD (BW)

OPERATING CONDITIONS:

PRESSURE:
ANSI CLASS 150 / 2500 (PRESSURE SEAL) — DIN PN16 / PN420

TEMPERATURE:
–29°C TO +425°C

MATERIALS:

CARBON STEEL · STAINLESS STEEL
FORGED STEEL · BRONZE (SPECIAL ORDER)
SUPER DUPLEX (SPECIAL ORDER)

APPLICATIONS:

FLOW REGULATION
STEAM SYSTEMS
INDUSTRIAL PIPELINES
OIL & GAS
CHEMICAL PROCESSING



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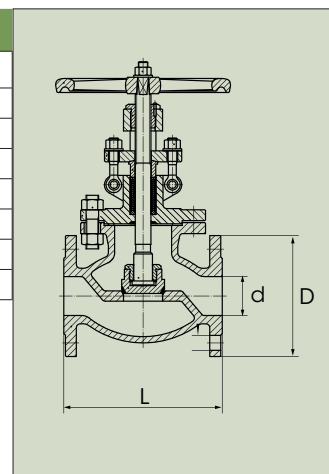
SGS
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FIGURE

431/A1STAINLESS STEEL 150# GLOBE
VALVE ANSI FLANGES

COD.	"	L	D
2020KTNG431A1050	2"	203	Φ150
2020KTNG431A1065	2 1/2"	216	Φ180
2020KTNG431A1080	3"	241	Φ190
2020KTNG431A1100	4"	292	Φ230
2020KTNG431A1125	5"	356	Φ255
2020KTNG431A1150	6"	406	Φ280
2020KTNG431A1200	8"	495	Φ345
2020KTNG431A1250	10"	622	Φ405

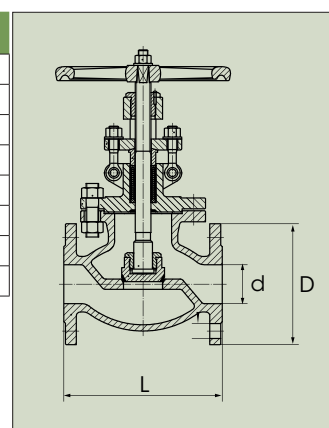


BODY	CF8M	SEAT	CF8M+STL		DISC	CF8M
PRESSURE	CL150	TEMP.	-29°C	+425°C	ENDS	ANSI
MEDIA	Water, Steam and oil					

FIGURE

431/A2STAINLESS STEEL 300# GLOBE
VALVE ANSI FLANGES

COD.	"	L	D
2020KTNG431A2050	2"	267	Φ165
2020KTNG431A2065	2 1/2"	292	Φ190
2020KTNG431A2080	3"	318	Φ210
2020KTNG431A2100	4"	356	Φ255
2020KTNG431A2125	5"	400	Φ280
2020KTNG431A2150	6"	444	Φ320
2020KTNG431A2200	8"	559	Φ380
2020KTNG431A2250	10"	622	Φ445

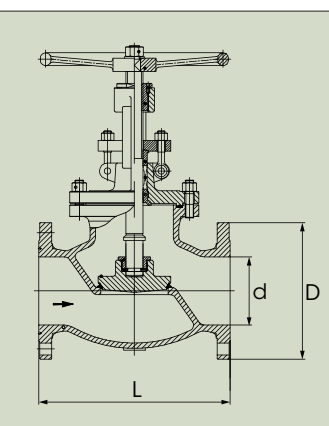


BODY	CF8M	SEAT	CF8M+STL		DISC	CF8M
PRESSURE	CL300	TEMP.	-29°C	+425°C	ENDS	ANSI
MEDIA	Water, Steam and oil					

FIGURE

433/A1CARBON STEEL 150# GLOBE
VALVE ANSI FLANGES

COD.	"	L	D
2020KTNG433A1050	2"	203	Φ150
2020KTNG433A1065	2 1/2"	216	Φ180
2020KTNG433A1080	3"	241	Φ190
2020KTNG433A1100	4"	292	Φ230
2020KTNG433A1125	5"	406	Φ280
2020KTNG433A1150	6"	495	Φ345
2020KTNG433A1200	8"	622	Φ405
2020KTNG433A1250	10"	698	Φ485

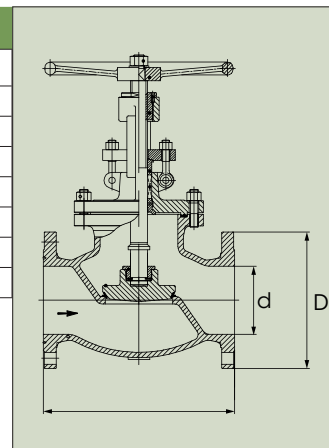


BODY	WCB	SEAT	A105+ STL		DISC	WCB
PRESSURE	CL150	TEMP.	-29°C	+425°C	ENDS	ANSI
MEDIA	Water, Steam and oil					

FIGURE

433/A2CARBON STEEL 300# GLOBE
VALVE ANSI FLANGES

COD.	"	L	D
2020KTNG433A2050	2"	267	Φ165
2020KTNG433A2065	2 1/2"	292	Φ190
2020KTNG433A2080	3"	318	Φ210
2020KTNG433A2100	4"	356	Φ255
2020KTNG433A2125	5"	400	Φ280
2020KTNG433A2150	6"	444	Φ320
2020KTNG433A2200	8"	559	Φ380
2020KTNG433A2250	10"	622	Φ445



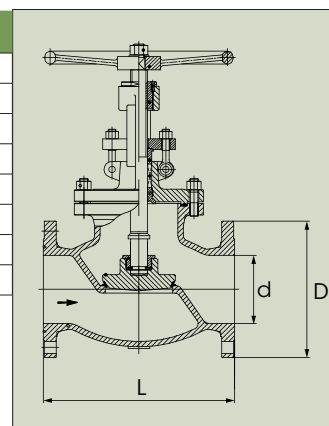
BODY	WCB	SEAT	A105+ STL	DISC	WCB
PRESSURE	CL300	TEMP.	-29°C +425°C	ENDS	ANSI
MEDIA	Water, Steam and oil				



FIGURE

433/A3CARBON STEEL 600# GLOBE
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNG433A3050	2"	292	Φ165	2"
2020KTNG433A3065	2 1/2"	330	Φ190	2 1/2"
2020KTNG433A3080	3"	356	Φ213	3"
2020KTNG433A3100	4"	432	Φ275	4"
2020KTNG433A3125	5"	508	Φ330	5"
2020KTNG433A3150	6"	559	Φ356	6"
2020KTNG433A3200	8"	660	Φ420	8"
2020KTNG433A3250	10"	787	510	10"



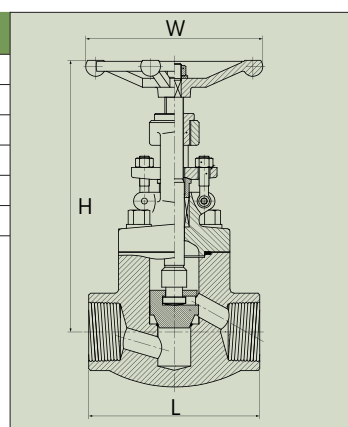
BODY	WCB	SEAT	A105+ STL	DISC	WCB
PRESSURE	CL600	TEMP.	-29°C +425°C	ENDS	ANSI
MEDIA	Water, Steam and oil				



FIGURE

484FORGED CARBON STEEL 800#
GLOBE VALVE NPT THREADED

COD.	"	L	H	W
2121KTNG484A4015	1/2"	79	164	100
2121KTNG484A4020	3/4"	92	164	100
2121KTNG484A4025	1"	111	203	125
2121KTNG484A4032	1 1/4"	120	224	160
2121KTNG484A4040	1 1/2"	152	260	160
2121KTNG484A4050	2"	172	300	180



BODY	A105N+STL	SEAT	F6+S4L	DISC	13Cr+STL
PRESSURE	CL800	TEMP.	-29°C +425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

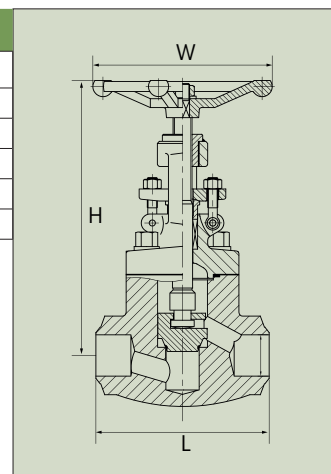


FIGURE

444

FORGED CARBON STEEL 800#
GLOBE VALVE WELDABLE ENDS

COD.	"	L	H	W
2121KTNG444A4015	1/2"	79	164	100
2121KTNG444A4020	3/4"	92	164	100
2121KTNG444A4025	1"	111	203	125
2121KTNG444A4032	1 1/4"	120	224	160
2121KTNG444A4040	1 1/2"	152	260	160
2121KTNG444A4050	2"	172	300	180



BODY	A105+STL	SEAT	F6+S4L	DISC	13Cr+STL
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	SW
MEDIA	Water, Steam and oil				

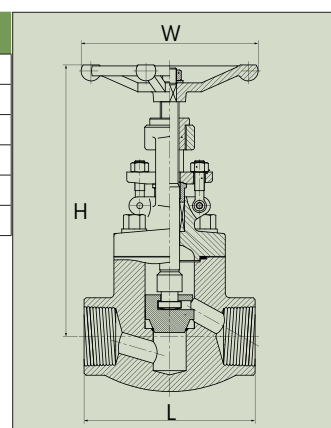


FIGURE

485

FORGED STAINLESS STEEL 800#
GLOBE VALVE NPT THREADED

COD.	"	L	H	W
2121KTNG485A4015	1/2"	79	164	100
2121KTNG485A4020	3/4"	92	164	100
2121KTNG485A4025	1"	111	203	125
2121KTNG485A4032	1 1/4"	120	224	160
2121KTNG485A4040	1 1/2"	152	260	160
2121KTNG485A4050	2"	172	300	180



BODY	F316L+STL	SEAT	316L+STL	DISC	316L
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

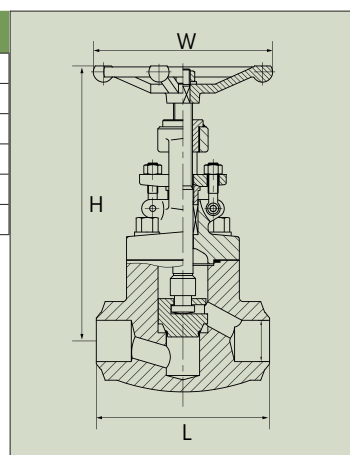


FIGURE

445

FORGED STAINLESS STEEL 800#
GLOBE VALVE WELDABLE ENDS

COD.	"	L	H	W
2121KTNG445A4015	1/2"	79	164	100
2121KTNG445A4020	3/4"	92	164	100
2121KTNG445A4025	1"	111	203	125
2121KTNG445A4032	1 1/4"	120	224	160
2121KTNG445A4040	1 1/2"	152	260	160
2121KTNG445A4050	2"	172	300	180



BODY	F316L+STL	SEAT	316L+STL	DISC	316L
PRESSURE	CL150	TEMP.	≤ 425°C	ENDS	SW
MEDIA	Water, Steam and oil				



GLOBE VALVES

Flow
Regulation



**BUREAU
VERITAS**
CE-0056-PED-H
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KTN

ALL-STAINLESS INTERNAL TRIM

Fully stainless steel pins and bearings (SS316) eliminate any risk of rust contamination in the final product

CORROSION-RESISTANT CF3M (316L) BODY
Low-carbon stainless steel body ensures superior resistance to acidic wort, harsh CIP cleaning cycles, and intergranular corrosion

INCONEL X-750 HIGH-CYCLE SPRINGS
High-performance alloy springs provide rapid non-slam closing response, protecting critical sanitary pumps from water hammer and reverse flow

HYGIENIC CF8M DUAL PLATES
Precision-cast 316 stainless steel plates maximize flow efficiency with minimal pressure drop, essential for maintaining process stability.



CHECK VALVES

MANUFACTURING RANGE:

TYPES:

CAST STEEL CHECK VALVES
FORGED STEEL CHECK VALVES
PRESSURE SEAL CHECK VALVES
WAFFER DOUBLE DISC CHECK VALVES
SWING CHECK VALVES
LIFT CHECK VALVES

SIZE RANGE:

DN15 – DN1200

CONNECTIONS:

FLANGED (DIN / ANSI) · WAFFER TYPE
SOCKET WELD (SW) · BUTT WELD (BW)

OPERATING CONDITIONS:

PRESSURE:
ANSI CLASS 150 – CLASS 2500 · DIN PN16 – PN420

TEMPERATURE:
–29°C TO +425°C

MATERIALS:

CARBON STEEL · STAINLESS STEEL · FORGED STEEL
BRONZE (SPECIAL ORDER)
SUPER DUPLEX (SPECIAL ORDER)

APPLICATIONS:

BACKFLOW PREVENTION
INDUSTRIAL PIPELINES
OIL & GAS
WATER SYSTEMS
CHEMICAL PROCESSING

- ROBUST DOUBLE-FLANGED DESIGN
Flanged body (vs. wafer style) protects internal components and ensures precise alignment in the pipeline, preventing leakage due to pipe stress



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KTN 001-26-ESP



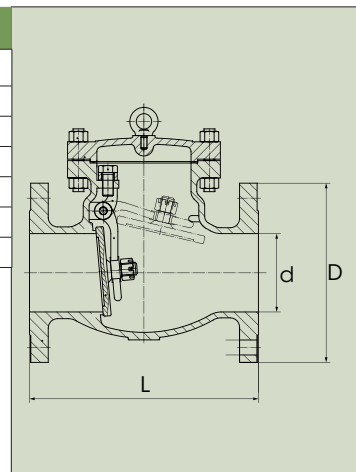
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FIGURE

531/A1STAINLESS STEEL 150# SWING
CHECK VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNR531A1050	2"	203 ±2	Φ152.4	50
2020KTNR531A1065	2 1/2"	216 ±2	Φ177.8	65
2020KTNR531A1080	3"	241 ±2	Φ190	80
2020KTNR531A1100	4"	292 ±2	Φ228.6	100
2020KTNR531A1125	5"	330 ±2	Φ254	125
2020KTNR531A1150	6"	356 ±2	Φ279.4	150
2020KTNR531A1200	8"	495 ±2	Φ342.9	200



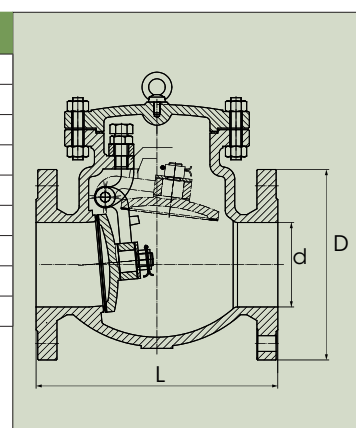
BODY	CF8M	SEAT	CF8M	DISC	CF8M
PRESSURE	CL150	TEMP.	-29°C +425°C	ENDS	ANSI
MEDIA	Water, Steam and oil				



FIGURE

531/A2STAINLESS STEEL 300# SWING
CHECK VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNR531A2050	2"	267 ±1.5	165	50
2020KTNR531A2065	2 1/2"	292 ±1.5	190	65
2020KTNR531A2080	3"	318 ±1.5	210	80
2020KTNR531A2100	4"	356 ±1.5	255	100
2020KTNR531A2125	5"	400 ±1.5	280	125
2020KTNR531A2150	6"	444 ±1.5	320	150
2020KTNR531A2200	8"	533 ±1.5	380	200
2020KTNR531A2250	10"	622 ±1.5	445	250
2020KTNR531A2300	12"	711 ±1.5	520	300



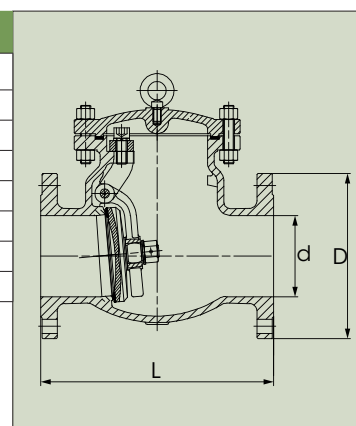
BODY	CF8M	SEAT	CF8M	DISC	CF8M
PRESSURE	CL300	TEMP.	-29°C +425°C	ENDS	ANSI
MEDIA	Water, Steam and oil				



FIGURE

533/A1CARBON STEEL 150# SWING
CHECK VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNR533A1050	2"	203	150	50
2020KTNR533A1065	2 1/2"	216	180	65
2020KTNR533A1080	3"	241	190	80
2020KTNR533A1100	4"	292	230	100
2020KTNR533A1150	6"	356	280	150
2020KTNR533A1200	8"	495	345	200
2020KTNR533A1250	10"	622	405	250
2020KTNR533A1300	12"	698	485	300



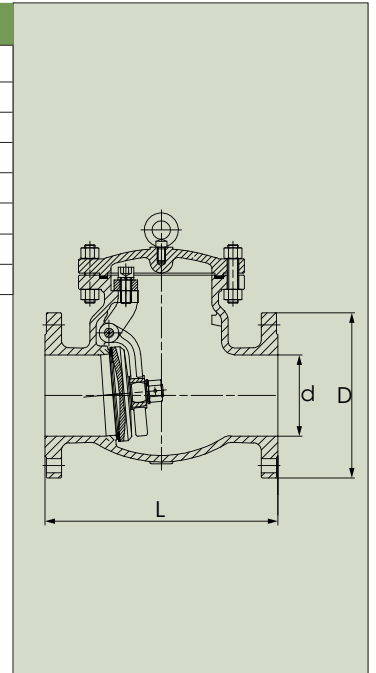
BODY	WCB	SEAT	A105+ STL	DISC	WCB
PRESSURE	CL150	TEMP.	-29°C +425°C	ENDS	ANSI
MEDIA	Water, Gas and oil				



FIGURE

533/A2CARBON STEEL 300# SWING
CHECK VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNR533A2050	2"	267	165	50
2020KTNR533A2065	2 1/2"	292	190	65
2020KTNR533A2080	3"	318	210	80
2020KTNR533A2100	4"	356	255	100
2020KTNR533A2150	6"	444	320	150
2020KTNR533A2200	8"	533	380	200
2020KTNR533A2250	10"	622	445	250
2020KTNR533A2300	12"	711	520	300

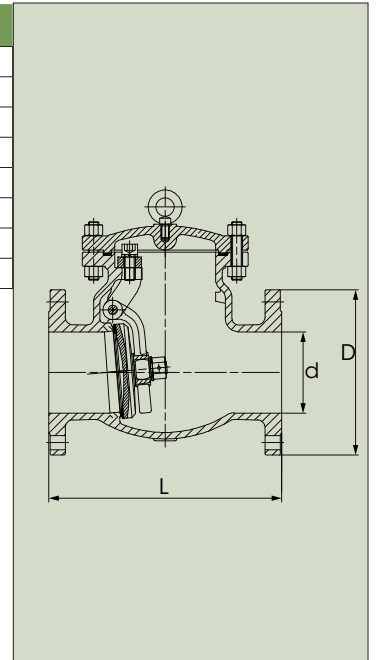


BODY	WCB	SEAT	A105+ STL		DISC	WCB	
PRESSURE	CL300	TEMP.	-29°C	+425°C	ENDS	ANSI	
MEDIA	Water, Gas and oil						

FIGURE

533/A3CARBON STEEL 600# CHECK
VALVE ANSI FLANGES

COD.	"	L	D	d
2020KTNR533A3050	2"	292	165	50
2020KTNR533A3065	2 1/2"	330	190	65
2020KTNR533A3080	3"	356	210	80
2020KTNR533A3100	4"	432	275	100
2020KTNR533A3150	5"	559	350	150
2020KTNR533A3200	6"	660	420	200
2020KTNR533A3250	8"	787	510	250
2020KTNR533A3300	300	838	560	300



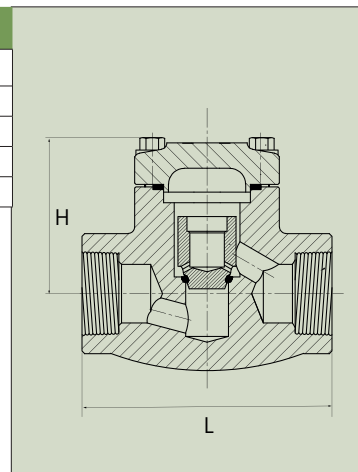
BODY	WCB	SEAT	A105+ STL		DISC	WCB	
PRESSURE	CL600	TEMP.	-29°C	+425°C	ENDS	ANSI	
MEDIA	Water, Gas and oil						

FIGURE

584

FORGED CARBON STEEL 800#
CHECK VALVE NPT THREADED

COD.	"	L	H	DN
2121KTNR584A4015	1/2"	79	61	15
2121KTNR584A4020	3/4"	92	61	20
2121KTNR584A4025	1"	111	78	25
2121KTNR584A4040	1 1/4"	120	84	40
2121KTNR584A4050	2"	172	118	50



BODY	A105	SEAT	A105+STL	DISC	13Cr+ STL
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

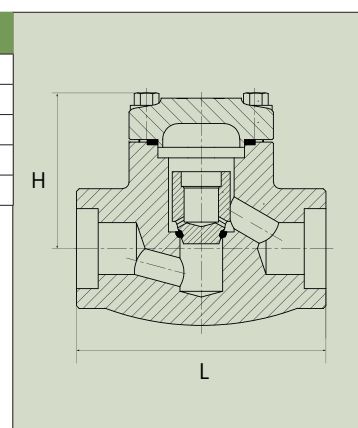


FIGURE

544

FORGED CARBON STEEL 800#
CHECK VALVE WELDABLE ENDS

COD.	"	L	H	DN
2121KTNR544A4015	1/2"	79	61	15
2121KTNR544A4020	3/4"	92	61	20
2121KTNR544A4025	1"	111	78	25
2121KTNR544A4040	1 1/2"	152	84	40
2121KTNR544A4050	2"	172	118	50



BODY	A105	SEAT	A105+STL	DISC	13Cr+ STL
PRESSURE	CL800	TEMP.	≤ 200°C	ENDS	SW
MEDIA	Water, Steam and oil				

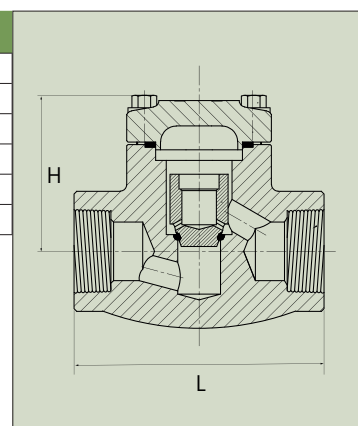


FIGURE

585

FORGED STAINLESS STEEL 800#
CHECK VALVE NPT THREADED

COD.	"	DN	L	H
2121KTNR585A4015	1/2"	15	79	61
2121KTNR585A4020	3/4"	20	92	61
2121KTNR585A4025	1"	25	111	78
2121KTNR585A4032	1 1/4"	32	120	84
2121KTNR585A4040	1 1/2"	40	152	84
2121KTNR585A4050	2"	50	172	118



BODY	F316L	SEAT	316L	DISC	316L
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	NPT
MEDIA	Water, Steam and oil				

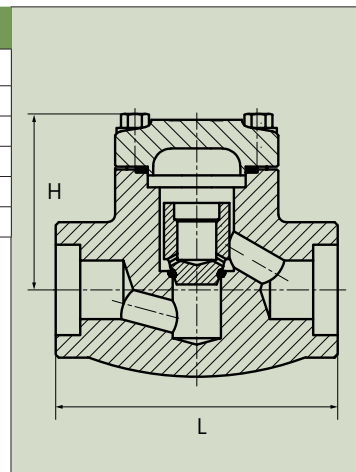


FIGURE

545

FORGED STAINLESS STEEL 800#
CHECK VALVE WELDABLE ENDS

COD.	"	DN	L	H
2121KTNR545A4015	1/2"	15	79	61
2121KTNR545A4020	3/4"	20	92	61
2121KTNR545A4025	1"	25	111	78
2121KTNR545A4032	1 1/4"	32	120	84
2121KTNR545A4040	1 1/2"	40	120	103
2121KTNR545A4050	2"	50	140	118



BODY	F316L	SEAT	316L+ STL	DISC	316L
PRESSURE	CL800	TEMP.	≤ 425°C	ENDS	SW
MEDIA	Water, Steam and oil				

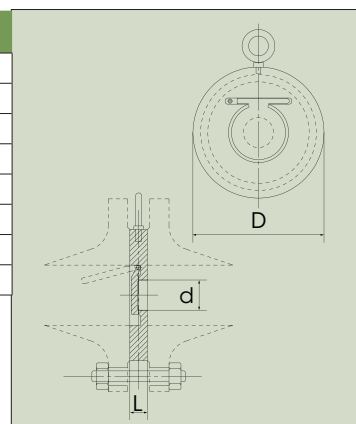


FIGURE

561C

STAINLESS STEEL SWING CHECK
VALVE WAFER TYPE

COD.	DN	L	d	D
1818KTNW561CE2050	50	19	25	105
1818KTNW561CE2080	80	19	52	136
1818KTNW561CE2100	100	19	71	164
1818KTNW561CE2125	125	19	93	194
1818KTNW561CE2150	150	20	114	220
1818KTNW561CE2200	200	22	157	275
1818KTNW561CE2250	250	26	195	330
1818KTNW561CE2300	300	38	230	384



BODY	F316	SEAT	316L	DISC	316
PRESSURE	CL150	TEMP.	≤ 150°C	ENDS	WAFER
MEDIA	Water, oil and Acid				

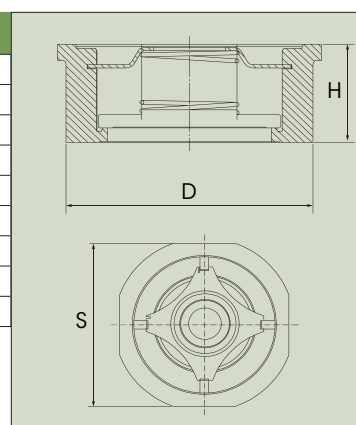


FIGURE

561D

STAINLESS STEEL DISC CHECK
VALVE WAFER TYPE

COD.	DN	H	D	S
1818KTNW561DE4015	15	16	45	45
1818KTNW561DE4020	20	19	52,5	55
1818KTNW561DE4025	25	21,5	56,5	65
1818KTNW561DE4032	32	28	73	79
1818KTNW561DE4040	40	32	81	88,5
1818KTNW561DE4050	50	40	90	100
1818KTNW561DE4065	65	46	110	119
1818KTNW561DE4080	80	50	125	135
1818KTNW561DE4100	100	60	145	155



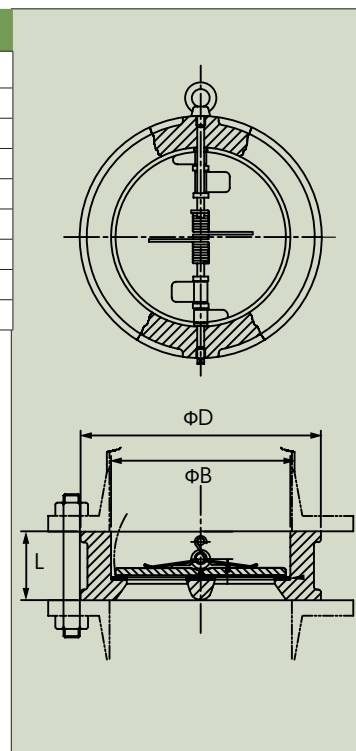
BODY	CF8M	SEAT	F316	DISC	316
PRESSURE	CL150	TEMP.	≤ 150°C	ENDS	WAFER
MEDIA	Water, Gas and oil				



FIGURE

56BSTAINLESS STEEL DUAL SWING
CHECK VALVE WAFER TYPE IN
GG25

COD.	DN	L	ΦB	ΦD
1818KTNW56BE2040	40	43	57	92
1818KTNW56BE2050	50	43	65	107
1818KTNW56BE2065	65	46	80	127
1818KTNW56BE2080	80	64	94	142
1818KTNW56BE2100	100	64	117	162
1818KTNW56BE2125	125	70	145	192
1818KTNW56BE2150	150	76	170	218
1818KTNW56BE2200	200	89	224	273
1818KTNW56BE2250	250	114	265	328



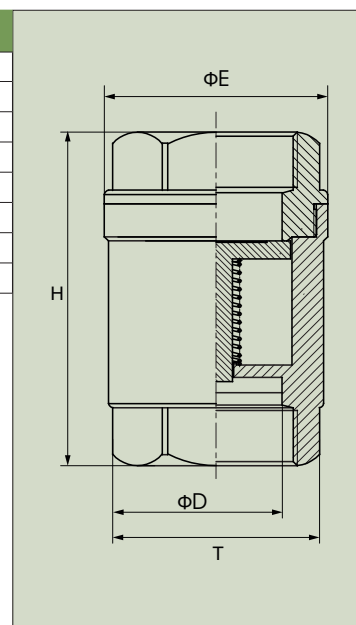
BODY	GG25	SEAT	EPDM	DISC	SS F316
PRESSURE	PN10/16	TEMP.	-10°C +100°C	ENDS	WAFER
MEDIA	Water, Steam and oil				



FIGURE

511DSTAINLESS STEEL VERTICAL/
HORIZONTAL CHECK VALVE
PN63 BSP

COD.	ΦD	H	ΦE	T	DN
1818KTNR511DE4015	1/4"	60	39	27	15
1818KTNR511DE4020	3/8"	60	39	27	20
1818KTNR511DE4025	1/2"	62	39	27	25
1818KTNR511DE4032	3/4"	69	43	32	32
1818KTNR511DE4040	1"	82	48	38	40
1818KTNR511DE4050	1 1/4"	93	58	47	50
1818KTNR511DE4065	1 1/2"	102	71	55	65
1818KTNR511DE4080	2"	116	81	68	80



BODY	CF8M	SEAT	PTFE	DISC	CF8M
PRESSURE	PN63	TEMP.	≤ 425°C	ENDS	BSP
MEDIA	Water, Steam and oil				



CHECK VALVES

Preventing
Backflow



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Ex

KTN

PN40
IWCB

INSTRUMENTATION TEMPERATURE & PRESSURE

Process
Monitoring



FIGURE

91A

STAINLESS STEEL AXIAL
BIMETALLIC THERMOMETER

COD.	Esfera / Glass	A	B	C	
5050KTNT001	4"	110	21	235	
5050KTNT002					
5050KTNT003					
5050KTNT010					
5050KTNT011					
5050KTNT012					
5050KTNT020					
5050KTNT021					
5050KTNT022					
5050KTNT030					

BODY	SS F316	Visor	Tempered glass			
PRESSURE	--	TEMP.	-80°C	+550°C	ENDS	BSP
MEDIA	--					

FIGURE

91R

STAINLESS STEEL RADIAL
BIMETALLIC THERMOMETER

COD.	Esfera / Glass	A	B	C	
5050KTNT040	4"	49	100	200	
5050KTNT041					
5050KTNT042					
5050KTNT050					
5050KTNT051					
5050KTNT052					
5050KTNT060					
5050KTNT061					
5050KTNT062					
5050KTNT070					
5050KTNT071					
5050KTNT072					

BODY	SS F316	Visor	Tempered glass			
PRESSURE	--	TEMP.	-80°C	+550°C	ENDS	BSP
MEDIA	--					

FIGURE

91O

STAINLESS STEEL SWIVELLING
BIMETALLIC THERMOMETER

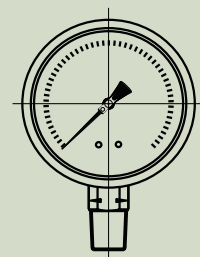
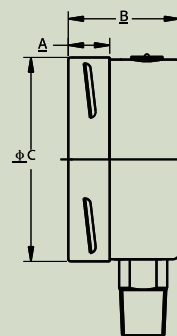
COD.	Esfera / Glass	A	B	C	
5050KTNT080	4"	110	21	200	
5050KTNT081					
5050KTNT082					
5050KTNT090					
5050KTNT091					
5050KTNT092					
5050KTNT100					
5050KTNT101					
5050KTNT102					
5050KTNT110					
5050KTNT111					
5050KTNT112					

BODY	SS F316	Visor	Tempered glass			
PRESSURE	--	TEMP.	-80°C	+550°C	ENDS	BSP
MEDIA	--					

FIGURE

P25DSTAINLESS STEEL RADIAL
PRESSURE GAUGE

COD.	Cabeza / Bulb	A	B	C
4444KTN63D15	63	1.27	3.32	6.35
4444KTN63D16	63	1.27	3.32	6.35
4444KTN63D17	63	1.27	3.32	6.35
4444KTN10D14	100	1.70	4.9	10
4444KTN10D15	100			
4444KTN10D16	100			
4444KTN10D17	100			
4444KTN10D18	100			
4444KTN10D19	100			



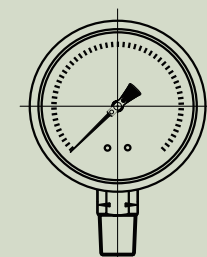
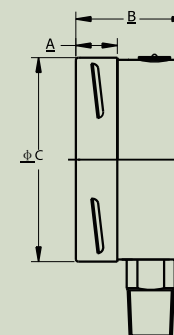
BODY	SS 316L	Inner parts	SS 316L	Visor	Tempered glass
PRESSURE	125% MAX	TEMP.	-20°C +150°C	MEDIA	—
Overpressure limit		125% of full scale value			



FIGURE

P25FSTAINLESS STEE AXIAL
PRESSURE GAUGE

COD.	Cabeza / Bulb	A	B	C
4444KTN63D15	63	1.27	3.32	6.35
4444KTN63D16	63	1.27	3.32	6.35
4444KTN63D17	63	1.27	3.32	6.35
4444KTN10D14	100	1.70	4.9	10
4444KTN10D15	100			
4444KTN10D16	100			
4444KTN10D17	100			
4444KTN10D18	100			
4444KTN10D19	100			



BODY	SS 316L	Inner parts	SS 316L	Visor	Tempered glass
PRESSURE	125% MAX	TEMP.	-20°C +150°C	MEDIA	—
Overpressure limit		125% of full scale value			



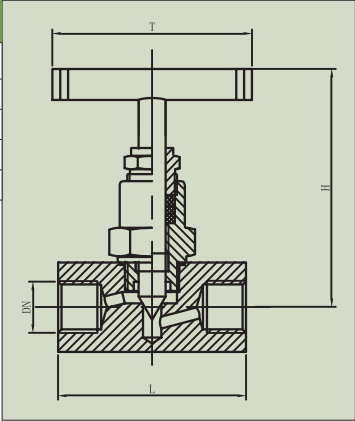
FIGURE

11.11

STAINLESS STEEL 410 BAR NEEDLE VALVE NPT/BSP THREADED



COD.	"	L	H	T
3333KTNA316001	1/4"	52	75	60
3333KTNA316002	3/8"	52	75	60
3333KTNA316003	1/2"	68	80	60
3333KTNA316004	3/4"	70	100	60
3333KTNA316005	1"	78	110	60



BODY	SS F316	Needle	SS F316	Stuffing	PTFE
PRESSURE	410 Bar	TEMP.	-54°C +250°C	ENDS	NPT
MEDIA	Water, Steam and oil				



FIGURE



AUTOMATIZATION

MANUFACTURING RANGE:

TYPES:

ELECTRIC
(Quarter turn/ Modulating / Smart)

PNEUMATIC
(Scotch Yoke / Rack & Pinion / Double acting spring return)

TORQUE RANGE:

FROM 20 Nm UP TO 10.000+ Nm
(Depending on model and supply pressure / voltage)

PROTECTION:

IP67 / IP68 (Electric series)
Weatherproof construction
Optional corrosion resistant coatings

CONTROL OPTIONS:

ON/OFF
FAILSAFE (Internal capacitor / Spring return)
4–20 mA / 0–10 V
MODBUS RS485
Local display & digital setup (Smart series)

OPERATING CONDITIONS:

WORKING PRESSURE: 3–8 bar (Pneumatic)
MULTI VOLTAGE: 24VAC/DC – 95/265VAC
TEMPERATURE RANGE: -20°C to +80°C
ISO 5211 Mounting Interface

MATERIALS:

Hard anodized aluminum body
Powder coated end caps
Carbon steel output drive
NBR / VITON seals
Engineering polymer bushings (low friction / high durability)



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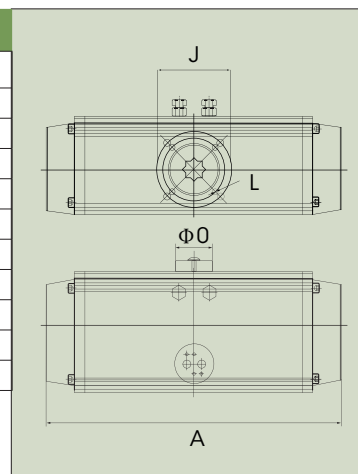
FIGURE

RSE

ALUMINUM SPRING PNEUMATIC ACTUATOR



COD.	A	Φ O	PRESSURE	J
RSE052-00	163.5	40	15.46	F05/Φ50
RSE063-50	181	40	27	F07/Φ70
RSE075-01	207	40	42.1	F07/Φ70
RSE092-51	258	40	82.4	F07/Φ70
RSE105-02	287	40	123.9	F10/Φ102
RSE125-52	342.5	40	207.3	F10/Φ102
RSE0140-03	411	40	314	F12/Φ125
RSE0190-04	544	80	771.1	F14/Φ140
RSE0240-05	622	80	1660.7	F16/Φ165
RSE0270-06	766	80	2335.9	F16/Φ165
RSE0350-07	880	80	4319	F16/Φ165



BODY	Aluminium Alloy	Actuation	Spring Return		Pressure	8 BAR	
Power supply	Compressed Air	TEMP.	-20°C	+80°C	Connection	NAMUR	
MEDIA	AIR						

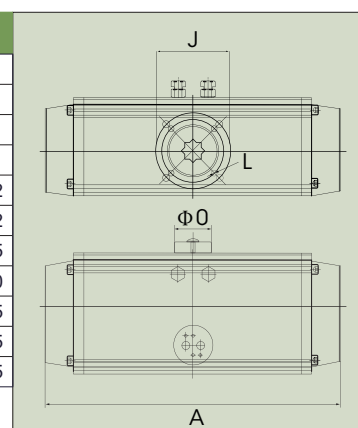
FIGURE

RDE

ALUMINUM DOUBLE ACTING PNEUMATIC ACTUATOR



COD.	A	Φ O	PRESSURE	J
RDE052-00	163.5	40	24.96	F05/Φ50
RDE063-50	181	40	43.92	F07/Φ70
RDE075-01	207	40	70.5	F07/Φ70
RDE092-51	258	40	136.4	F07/Φ70
RDE105-02	287	40	203.64	F10/Φ102
RDE125-52	342.5	40	349.8	F10/Φ102
RDE0140-03	411	40	526.44	F12/Φ125
RDE0190-04	544	80	1292.9	F14/Φ140
RDE0240-05	622	80	2444.6	F16/Φ165
RDE0270-06	766	80	3916.3	F16/Φ165
RDE0350-07	880	80	7197	F16/Φ165



BODY	Aluminium Alloy	Actuation	Double Acting		Pressure	8 BAR	
Power supply	Compressed Air	TEMP.	-20°C	+80°C	Connection	NAMUR	
MEDIA	AIR						

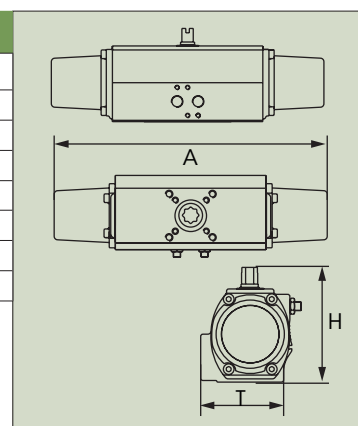
FIGURE

RYE

PNEUMATIC SCOTTISH YOKE ACTUATOR



COD.	A-WG(Kg)	H	T	DN
A50	1.6	90	75	A50
A65	3.0	107	89	A65
A80	5.3	126	101	A80
A100	9.5	148	129	A100
A125	17.6	174	151	A125
A185	56.9	244	217	A185
A250	119.6	335	301	A250
A300	275.5	408	372	A300



BODY	Aluminium Alloy	Mechanism	Scotch Yoke		Pressure	6 BAR	
Power supply	Compressed Air	TEMP.	-20°C	+80°C	Connection	NAMUR	
MEDIA	AIR						



AUTOMATIZATION

Automated Valve Control

Power for Reliable Operation



**BUREAU
VERITAS**
CE-0056-PED-H-
KTN 001-26-ESP



ES 18/81876



A MECHANISM

Q : Quarter turn

B MODEL

2 : KE002 4 : KE004 5 : KE005
6 : KE006 8 : KE008 10 : KE010
...

C OPTION TORQUE

LOW TORQUE/FASTER OPERATING TIME
Refer to performance table (page 3)
Blank: Standard N20: 20Nm N100:
100Nm
...

D VOLTAGE

1A: 110V AC (KE002~KE120)
*2A: 220V AC (KE002~KE120)
3A: 380V AC (KE016~KE120)
4A: 440V AC (KE016~KE120)
2D: 34V DC (KE002~KE040)
1M: 100 ~ 250V AC (KE005)
2M: 24V AC/DC (KE005/
KE016~KE040)

Maximum range+ 10%

E COLOR

*L:Blue K:Black
R:Red G:Grey M:Mint

F ISO 5211

3 : F03 5 : F05 7 : F07...

G STEM

C11 : 11*11 C14 : 14*14 ...

H OPTION

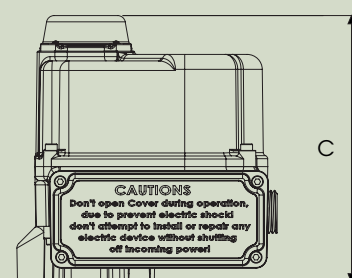
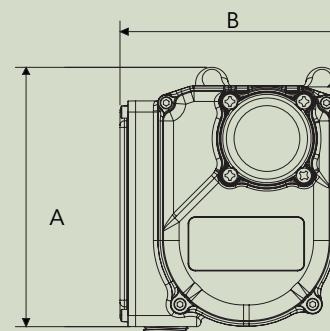
Refer to option table (page 8)



The KTN RKE/008 compact electric actuator is a quarter-turn device designed for reliable on/off control in automated valves. Its aluminum alloy housing combines strength and light weight, making it ideal for applications where space is limited. It offers multiple power supply options, including single-phase AC and 24V DC, allowing easy integration into different systems. With its ISO 5211 mounting interface, it can be quickly installed on ball valves and butterfly valves. In addition, it features internal limit switches and a visual position indicator, ensuring safe, stable operation with low maintenance.

RKE/002 - 008

COMPACT TYPE ELECTRIC ACTUATOR



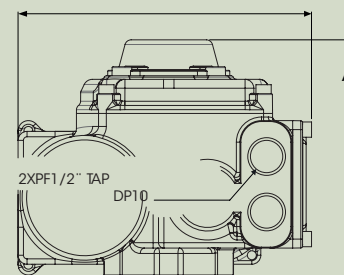
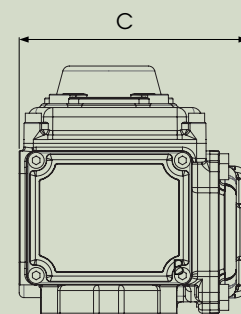
BODY	Aluminium Alloy	Control TYPE	Electric On/Off	Torque(Nm)	20-80(Max)
Power supply	AC 1PH / 3PH	TEMP.	-20°C +70°C	Top Flange	ISO 5211
MEDIA	Electric Actuation	PROTECTION	IP67 / ATEX		



The KTN RKE/010 electric actuator with a scotch yoke mechanism is designed for applications requiring higher torque and stronger performance. Its design delivers greater torque at key operating points, making it suitable for demanding valve automation. It features a durable aluminum housing, multiple power supply options (single-phase AC, three-phase AC, and 24V DC), ISO 5211 mounting, integrated limit switches, and a visual position indicator for safe and precise control.

RKE/010 - 120

SCOTCH YOKE ELECTRIC ACTUATOR



BODY	Aluminium Alloy	Control TYPE	Electric On/Off	Torque(Nm)	100-1200(Max)
Power supply	AC 1PH / 3PH	TEMP.	-20°C +70°C	Top Flange	ISO 5211
MEDIA	Electric Actuation	PROTECTION	IP67 / ATEX		



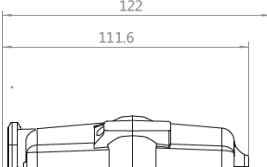
ATEX Certified:

These products now feature ATEX certification, recently obtained to ensure compliance and safe operation in explosive atmospheres.

Main Ordering Codes for Basic Series: *indicates standard options for stock product

Example : B205-PHB-14

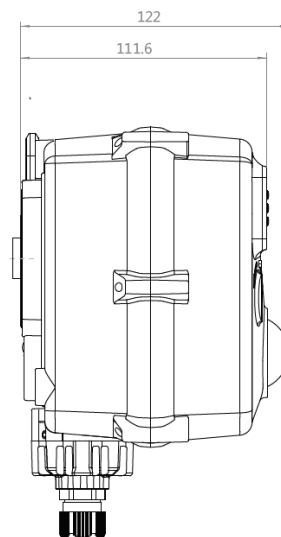
Series >		Function >V		oltage >		Housing >H		eater >		Wiring >		Output drive >	
B20	Basic	20	On Off	1	220 VAC	P	PC+PET*	H	Included*	A	3 wire SPST	11	11mm
B50	Basic	24	Failsafe	2	110 VAC	A	Aluminium	O	Without	B	*3 wire SPDT	14	*14mm
B80	Basic	219	Hi Speed	3	24 VAC					G	2 wire		
B110	Basic			4	24 VDC								
B200	Basic			5	95-265 VAC*								
B400	Basic			6	24VAC/DC*								
				7	12VDC								



RGE/BASIC SERIES

COMPACT TYPE ELECTRIC ACTUATOR

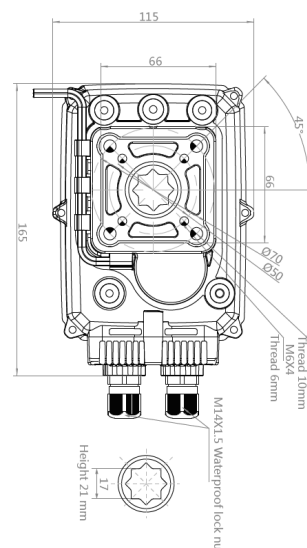
The Series basic actuator delivers 80Nm torque, making it ideal for larger ball and butterfly valves. It features a wiring box design, supports a wide multi-voltage range (24VAC/DC or 95-265VAC), and offers a fast-acting 6-second option. A failsafe version with an internal super capacitor is also available.



RGE/SMART SERIES

COMPACT TYPE ELECTRIC ACTUATOR

The actuator includes a color OLED display showing real-time status and alerts. Its SmartMenu allows easy adjustment of settings like speed, angle, and accuracy. Local touch-button control is standard, and advanced options include modulating control, failsafe modes, Modbus RS485/RTU communication, multi-turn, and timer functions.



Main Ordering Codes for Smart Series: *indicates standard options for stock product

Example : S2010-6PHE-14

Series >		Function >		Voltage >		Housing >		Heater >		Wiring >		Output drive >	
S20	Smart	10	On Off	1	220 VAC	P	PC+PET*	H	Included*	E	*3 wire SPDT	11	11mm
S50	Smart	14	Failsafe	2	95-265VAC	A	Aluminium	O	Without	P	4–20mA	14	*14mm
S80	Smart	19	Hi Speed	3	24VAC/DC					U	0-10V		
S110	Smart	25	Modulating	7	12VDC					V	2-10V		
S200	Smart	26	Modulating failsafe							W	RS485 Modbus		
S400	Smart	29	Modulating Hi Speed										
		31	Modbus On Off										
		34	Modbus Failsafe										
		35	Modbus Modulating										



*For single voltage actuators, the actuator will not have an LED light. For multivoltage actuators the LED is standard. For 1 second operation, this is only available with 24VDC single voltage motor. All actuators are as standard supplied with a heater.

*For single voltage actuators, the actuator will not have an LED light. For multivoltage actuators the LED is standard. For 1 second operation, this is only available with 24VDC single voltage motor. All actuators are as standard supplied with a heater.



1 MECHANISM
Multi-Turn Electric Actuator

2 MODEL
EMT Series / EMD Series

3 OPTION TORQUE
EMT: 35-3000 N·m
EMD: 40-900 N·m

4 OPERATING TIME
EMT: S2-15min
(600 starts/hr)

EMD: S2-15min
(≤600 starts/hr)

5 VOLTAGE
AC 1 Phase: 220V±10%
AC 3 Phase: 380V±10%
DC: 24V±10%

6 COLOR
Black (Standard)

7 ISO 5210
Rising or Non-Rising Type

8 OPTION
Explosion-Proof, Modulating,
Integration, Intelligent types

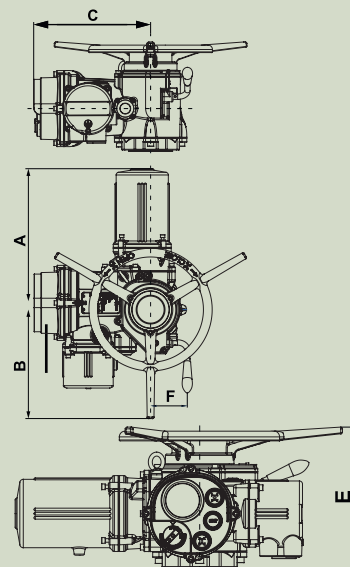


The EMT Series is designed for large diameter valves, providing high speed and torque (up to 3000 N·m). With speeds of up to 192 rpm, it is suitable for demanding industrial applications and offers explosion-proof options and IP67 protection for reliable operation in harsh environments.

The actuator also supports a flexible fieldbus control system. EMT Series multi-turn actuators support communication protocols including Modbus, Profibus-DP, and HART, enabling easy integration with industrial control systems.

EMT/SERIES

EXPLOSION PROOF
TYPE AVAILABLE



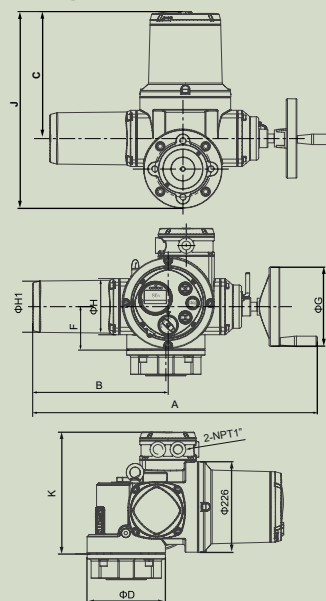
BODY	Aluminium Alloy	Control TYPE	Electric On/Off		Torque(Nm)	35-3000(Max)
Power supply	AC 1PH / 3PH	TEMP.	-30°C	+70°C	Top Flange	ISO 5210
MEDIA	Electric Actuation		PROTECTION		IP67 (IP68 optional) / ATEX	



The EMD series is designed for standard control of multi-turn valves, such as gate and globe valves. With a torque range from 40N·m to 900N·m and speeds up to 144 rpm, it provides reliable performance for a variety of industrial needs. It also offers options for basic, integrated, and intelligent models, all with IP67 protection for durability in challenging environments.

EMD/SERIES

FOR STANDARD CONTROL
OPERATION



BODY	Aluminium Alloy	Control TYPE	Electric On/Off		Torque(Nm)	40-900(Max)
Power supply	AC 1PH / 3PH	TEMP.	-30°C	+70°C	Top Flange	ISO 5210
MEDIA	Electric Actuation		PROTECTION		IP67 IP67 (IP68 optional) / ATEX	

1 MECHANISM
Quarter-Turn Electric Actuator
(0–90°)

2 MODEL
EOM Series
Basic Type (B); Integral Type (M)
Intelligent Type (I)

3 OPTION TORQUE
10–20,000 N·m
(depending on model)

4 OPERATING TIME
11–155 sec (according
to size & frequency)

VOLTAGE
Single phase:
24V / 110V / 220V

Three phase:
220V / 380V / 460V

5 DC: 24V

6 COLOR
Black (Standard)

7 ISO 5211
Direct mounting standard for
quarter-turn valves

8 OPTION
Modulating control
(4–20mA / 0–10V)

LCD display (Intelligent type)

Modbus / HART communication

Explosion-proof version
(ATEX / IECEx / CSA)

IP67 (IP68 optional)



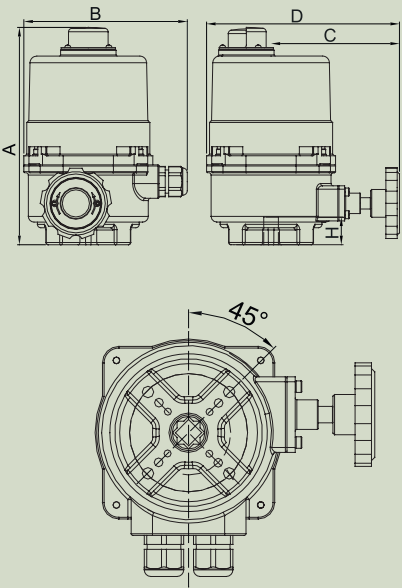
Quarter-turn electric actuator (0–90°) for ball or butterfly valves. Designed for On/Off operation, it provides simple, safe, and reliable control.

It includes over-torque protection and IP67 protection (optional IP68), with a standard ISO 5211 connection. A compact and robust solution for basic valve automation.

BODY	Aluminium Alloy	Control TYPE	Electric On/Off		Torque(Nm)	10-20,000(Max)
Power supply	AC 1PH / 3PH	TEMP.	-25°C	+70°C	Top Flange	ISO 5211
MEDIA	Electric Actuation		PROTECTION		IP67 (IP68 optional)	

EOM/SERIES

BASIC TYPE (B)



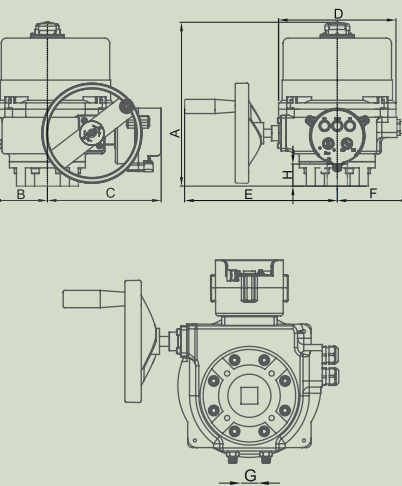
The EOM Series Intelligent Type is a quarter-turn electric actuator (0–90°) for ball and butterfly valves, designed for precise control and integration with PLC or DCS systems.

It features an LCD display, real-time diagnostics, and over-torque protection. The actuator provides a torque range up to 20,000 Nm, IP67 protection (optional IP68), and a standard ISO 5211 connection, ensuring compatibility and reliability in automated systems.

BODY	Aluminium Alloy	Control TYPE	Electric intelligent On/Off		Torque(Nm)	10-20,000(Max)
Power supply	AC 1PH / 3PH	TEMP.	-40°C	+70°C	Top Flange	ISO 5210
MEDIA	Electric Actuation		PROTECTION		IP67 IP67 (IP68 optional)	

EOM/SERIES

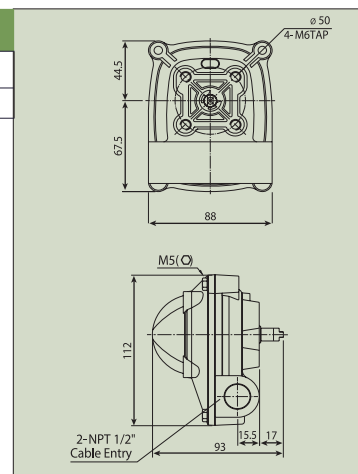
INTELLIGENT TYPE (I)



FIGURE

SB365-5252ALUMINUM INDUCTIVE LIMIT
SWITCH BOX NAMUR

COD.	F.C / L.S
3131KTNFCI01	1
3131KTNFCI02	2

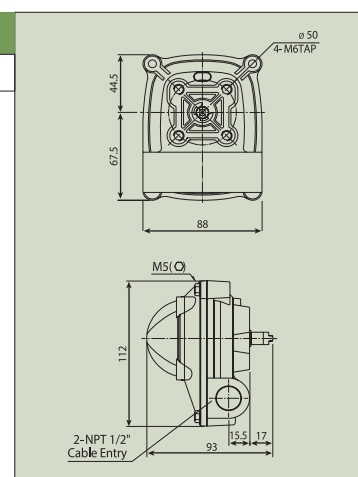


BODY	Aluminium Alloy	Control TYPE	Electric On/Off	Voltage	8V DC	
TEMP.	-20°C		+80°C	Interface	MAMUR	
SENSOR	Pepperl & fuchs (NJV-V3-N)	PROTECTION			IP67	

FIGURE

FL223NALUMINUM INDUCTIVE LIMIT
SWITCH BOX HIGH VOLTAGE
NAMUR

COD.	F.C / L.S
3131KTNFCI05	2

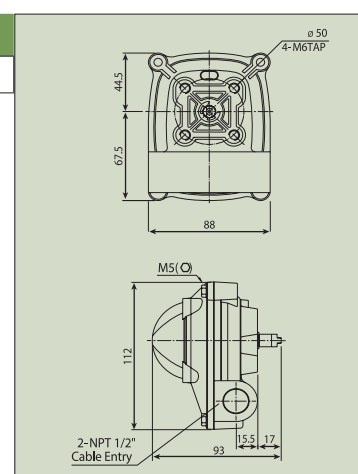


BODY	Aluminium Alloy	Control TYPE	Electric On/Off	Voltage	5-60V DC	
TEMP.	-20°C		+80°C	Interface	MAMUR	
SENSOR	Pepperl & fuchs (NBB2-V3-Z4/Z5)	PROTECTION			IP67 / NEMA4X	

FIGURE

FL220NATEX ALUMINUM INDUCTIVE
LIMIT SWITCH BOX NAMUR

COD.	F.C / L.S
3131KTNFCI05	2



BODY	Aluminium Die-Cast	Control TYPE	Electric On/Off	Voltage	8V DC	
TEMP.	-20°C		+80°C	Interface	MAMUR	
SENSOR	Pepperl & fuchs (NJV-V3-N)	PROTECTION			IP66 / IP67 / ATEX	

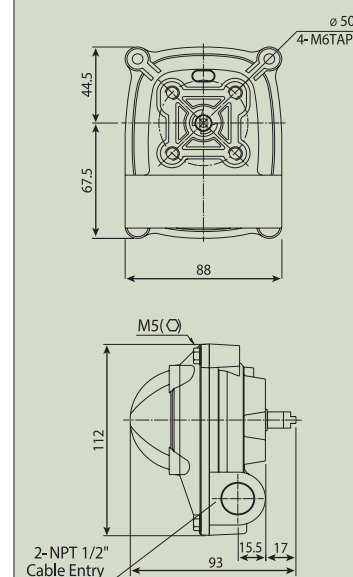
FIGURE

SB365-5206

ALUMINUM PNP INDUCTIVE
LIMIT SWITCH BOX

COD.	F.C / L.S
3131KTNFCPNP02	2

The KTN SB365-5206 is an inductive limit switch box with PNP output, designed to provide accurate and reliable open and closed position feedback for automated valves. Equipped with two inductive sensors, it offers non-contact detection, ensuring long service life and minimal maintenance. Its IP67 aluminum housing protects the internal components in demanding industrial environments, while the 360° visual position indicator allows quick and clear status recognition at a glance. With NAMUR standard mounting and a wide operating voltage range of 10–30 VDC, the KTN SB365-5206 is a robust and versatile solution for modern valve automation systems.



BODY	Aluminium Alloy	Control TYPE	Inductive - PNP	Voltage	10-30V DC	
TEMP.	-20°C		+80°C	Interface	MAMUR	
SENSOR	Pepperl & fuchs (NBB2-V3-E2)	PROTECTION			IP67	

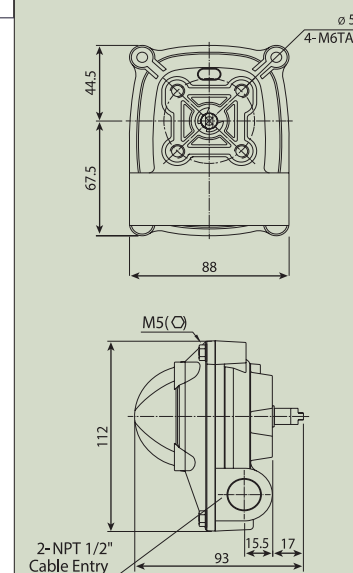
FIGURE

11107m

ALUMINUM ELECTRO
MECHANIC 2 LIMIT
SWITCH BOX

COD.	F.C / L.S
3131KTNFCM01	2

The KTN 11107m is an electromechanical limit switch box designed to provide clear and reliable open and closed position feedback for automated valves. Equipped with SPDT electromechanical switches, it ensures precise mechanical switching and dependable signal transmission in industrial control systems. The robust IP67 aluminum housing, combined with a 360° visual position indicator, allows both protection against harsh environments and quick visual confirmation of valve status. With NAMUR mounting compatibility and an operating temperature range from -20 °C to +80 °C, the KTN 11107m is a practical and durable solution for a wide range of automation applications.



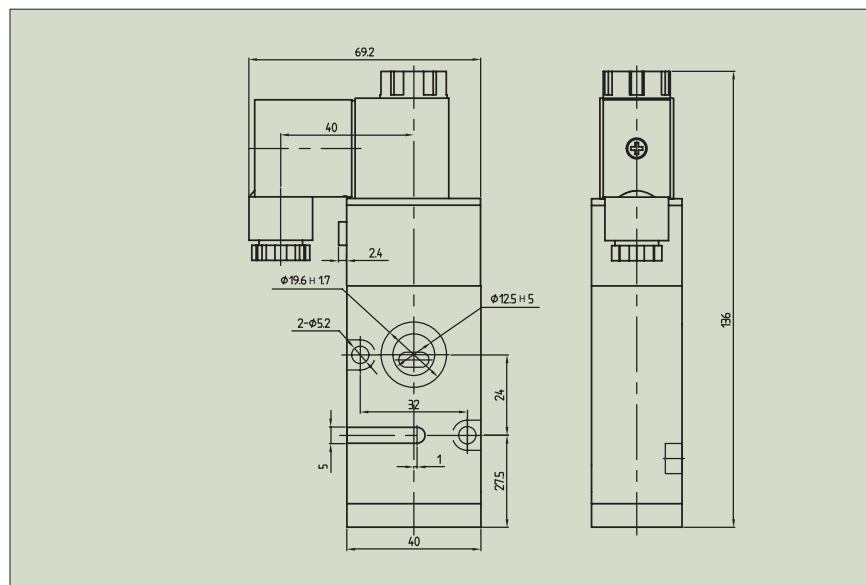
BODY	Aluminium Alloy	Control TYPE	Electromechanical	Voltage	10-30V DC	
TEMP.	-20°C		+80°C	Interface	MAMUR	
SENSOR	SPDT	PROTECTION			IP67	

FIGURE

12107

NAMUR SOLENOID VALVE 3/2
AND 5/2 WAYS

COD.	Visa / Ways	Bovina / Coil
3232KTNEV01	3/2 24VDC	24 VDC
3232KTNEV02	5/2 24VDC	24 VDC
3232KTNEV03	3/2 220V	220 V
3232KTNEV04	5/2 220V	220 V



TYPE	5/2-3/2	Flow	25mm ² (Cv=1.40)			
PRESSURE	12 Bar	TEMP.	-5°C	+50°C	Interface	NAMUR
MEDIA	AIR					

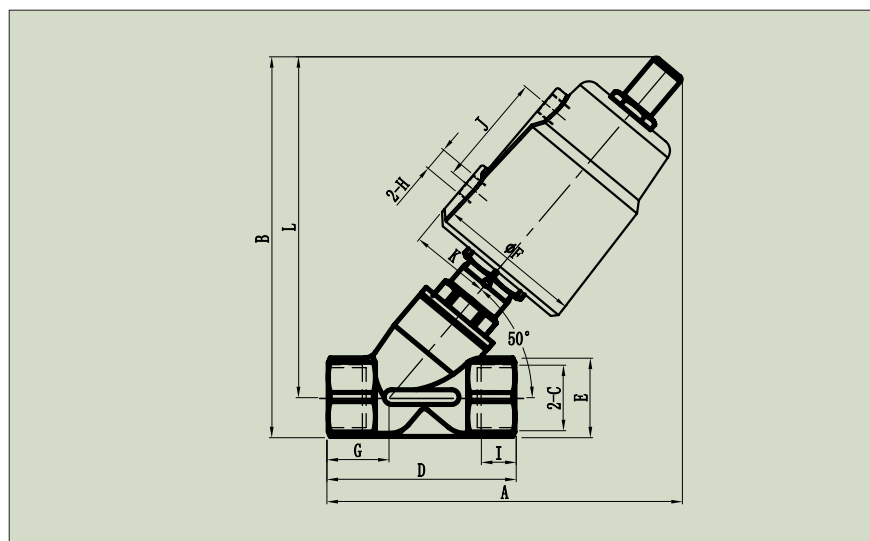


FIGURE

411GS

STAINLESS STEEL SLANTED SEAT
VALVE S/E BSP THREADED

COD.	Orifice Head		A	B	C	D	E	F	G	H	I	J	K	L
3131KTNP1 40-15	13	40	127,5	136	G1/2"	69	27	50	23,1	12	12	33,5	26,5	122,5
3131KTNP1 50-20	18	50	136,5	144,5	G3/4"	75,5	32	60,5	25	14	14	45	32	139
3131KTNP1 63-25	22	63	172,2	182	G1"	90,5	39	77	30,3	14,5	14,5	60	40,5	170
3131KTNP1 80-40	35	80	211,5	226	G1-1/2"	117,5	55	98	37,7	18,5	18,5	74,5	51	193
3131KTNP1 80-50	45	80	240	250,5	G2"	137,5	70	98	48	22	22	74,5	51	218



BODY	Stainless Steel	SEAT	Stainless Steel		DISC	NBR	
PRESSURE	12 Bar	TEMP.	-5°C	+50°C	ENDS	BSP	
MEDIA	AIR						



AUTOMATIZATION SLANTED SEAT

Automated Flow Control



**BUREAU
VERITAS**
CE-0056-PED-H-
KTN 001-26-ESP



ES 18/81876





INDUSTRIAL ACCESSORIES



MANUFACTURING RANGE:

TYPES

EXPANSION JOINTS · STRAINERS
SAFETY SHIELDS
VALVE ACCESSORIES
(GEAR BOXES · MOUNTING BRACKETS ·
SIPHON TUBES)

SIZE RANGE

DN15 – DN2000+
(DEPENDING ON PRODUCT)

CONNECTIONS

FLANGED (DIN / ANSI)
BSP / NPT THREADED
WELDED

OPERATING CONDITIONS

PRESSURE:
DIN PN10 – PN40 · ANSI CLASS 150 – 300

TEMPERATURE:
–40°C TO +300°C

MATERIALS

STAINLESS STEEL
CARBON STEEL
DUCTILE IRON · RUBBER · PTFE
PVC · CHEMICAL LININGS
AVAILABLE (PTFE / RUBBER)

APPLICATIONS

INDUSTRIAL PIPELINES
WATER TREATMENT
CHEMICAL PROCESSING
PUMP AND VALVE PROTECTION
CORROSIVE MEDIA HANDLING

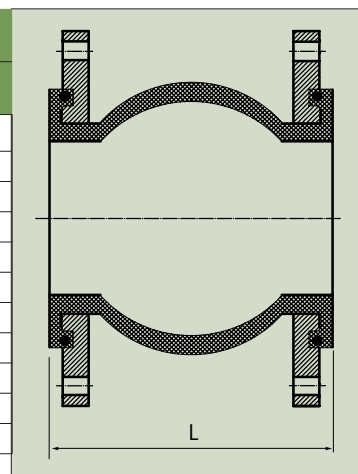


FIGURE

823E

EPDM PN10/16 RUBBER
EXPANSION JOINT WITH DIN
FLANGES

COD.	DN	L	Axial	
			Compression	Extension
1414KTNB01	32	95	9	6
1414KTNB02	40	95	10	6
1414KTNB03	50	105	10	7
1414KTNB04	65	115	13	7
1414KTNB05	80	135	15	8
1414KTNB06	100	150	19	10
1414KTNB07	125	165	19	12
1414KTNB08	150	180	20	12
1414KTNB09	200	210	25	16
1414KTNB10	250	230	25	16
1414KTNB11	300	245	25	16



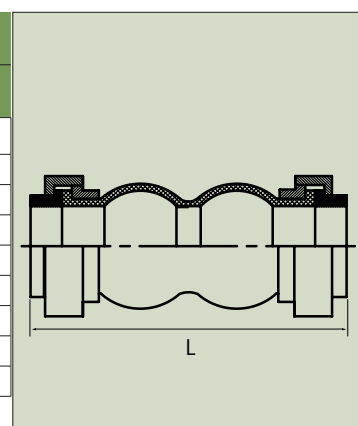
BELLOW	EPDM	Flange	Galvanized carbon steel		Frame	Nylon	
PRESSURE	PN10/16	TEMP.	-10°C	+120°C	ENDS	DIN	
MEDIA	Water, Gas and oil						

FIGURE

813E

EPDM PN10/16 RUBBER
EXPANSION JOINT WITH BSP
THREADED ENDS

COD.	DN	L	Axial	
			Compression	Extension
1414KTNR01	1/2"	200/220	22	5-6
1414KTNR02	3/4"	200/220	22	5-6
1414KTNR03	1"	200/220	22	5-6
1414KTNR04	1 1/4"	200/220	22	5-6
1414KTNR05	1 1/2"	200/220	22	5-6
1414KTNR06	2"	200/220	22	5-6
1414KTNR07	2 1/2"	200/220	22	5-6
1414KTNR08	3"	245	22	5-6
1414KTNR09	4"	270	22	5-6



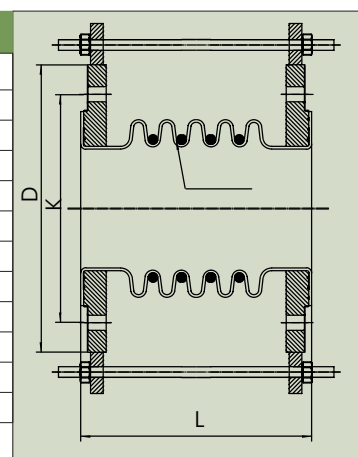
BELLOW	EPDM	Flange	Iron		Frame	Nylon	
PRESSURE	PN10/16	TEMP.	-10°C	+105°C	ENDS	BSP	
MEDIA	Water, Gas and oil						

FIGURE

823T

PTFE PN10/16 RUBBER EXPANSION
JOINT WITH DIN/ANSI FLANGES

COD.	DN	D	K	L
1414KTNB00	25	115	85	135
1414KTNB01	32	140	100	145
1414KTNB02	40	150	110	150
1414KTNB03	50	165	125	155
1414KTNB04	65	185	145	170
1414KTNB05	80	200	160	175
1414KTNB06	100	220	180	190
1414KTNB07	125	250	210	200
1414KTNB08	150	285	240	215
1414KTNB09	200	340	295	225
1414KTNB10	250	405	355	240
1414KTNB12	300	460	410	250



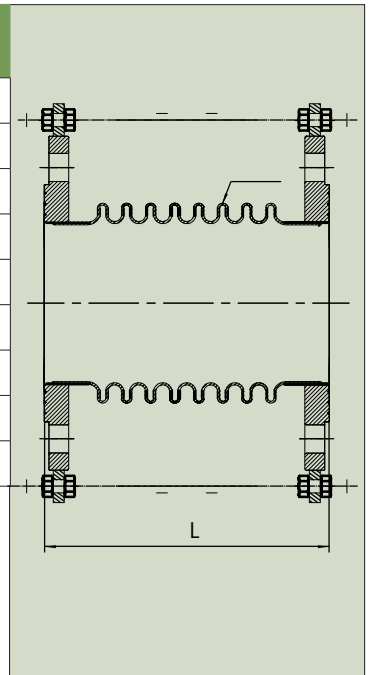
BELLOW	PTFE	Flange	Galvanized carbon steel		Rings	SS 304	
PRESSURE	PN10/16	TEMP.	-40°C	+204°C	ENDS	DIN/ANSI	
MEDIA	Water, Gas and oil						

FIGURE

821

STAINLESS STEEL PN10/16
EXPANSION JOINT WITH DIN/ANSI
FLANGES

COD.	DN	Ondas / Waves	Compensación / Compensation
1414KTNBI050	50	8	10
1414KTNBI065	65	8	15
1414KTNBI080	80	8	15
1414KTNBI100	100	8	20
1414KTNBI125	125	8	30
1414KTNBI150	150	8	40
1414KTNBI200	200	8	80
1414KTNBI250	250	8	100
1414KTNBI300	300	8	100



BELLOW	SS 316	Flange	SS 316	Tie rod	SS 316
PRESSURE	PN10/16	TEMP.	-10°C +300°C	ENDS	DIN/ANSI
MEDIA	Water, Steam, Gas and oil				

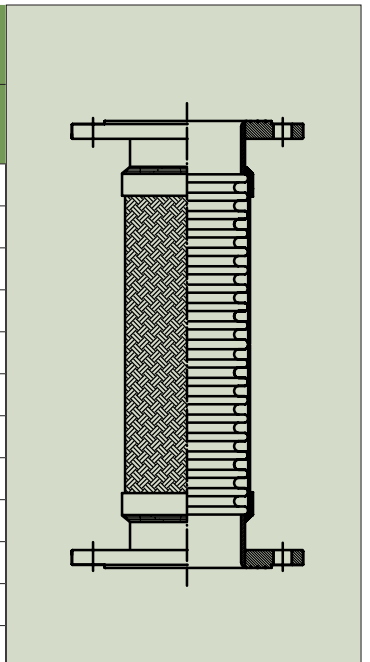


FIGURE

18/21

FLEXIBLE METALLIC HOSE
WITH FLANGES

COD.	DN	Diámetro interno Internal diameter	Radio de curvatura Bending radius	
			Static	Dynamic
1010KTN008	8	8.8	50	110
1010KTN010	10	11.7	65	145
1010KTN015	15	13.5	80	180
1010KTN020	20	20	120	270
1010KTN025	25	27	160	360
1010KTN032	32	32	175	400
1010KTN040	40	39.6	225	510
1010KTN050	50	49.7	280	640
1010KTN065	65	61.2	410	915
1010KTN080	80	79	486	1030
1010KTN100	100	101.2	610	1340
1010KTN125	125	124.1	700	1540

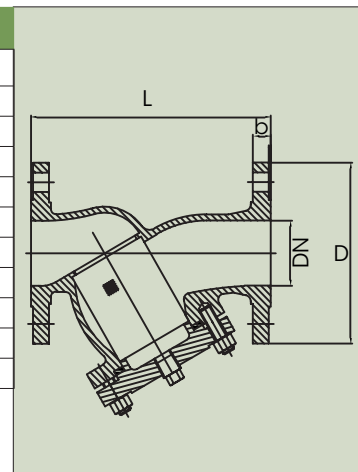


BELLOW	SS 304 / 316	Flange	SS 304 / 316	Steel braid	SS 304 / 316
PRESSURE	PN 40	TEMP.	-50°C +400°C	Support	SS 304 / 316
MEDIA	Water, Steam, Gas and oil				

FIGURE

621YSTAINLESS STEEL PN16 Y TYPE
FILTER WITH DIN FLANGES

COD.	DN	L	D	b
3838KTNFB01	15	130	95	16
3838KTNFB02	20	150	105	18
3838KTNFB03	25	160	115	18
3838KTNFB04	32	180	140	18
3838KTNFB05	40	200	150	18
3838KTNFB06	50	230	165	18
3838KTNFB07	65	290	185	18
3838KTNFB08	80	310	200	20
3838KTNFB09	100	350	220	20
3838KTNFB10	125	-	-	-
3838KTNFB11	150	-	-	-



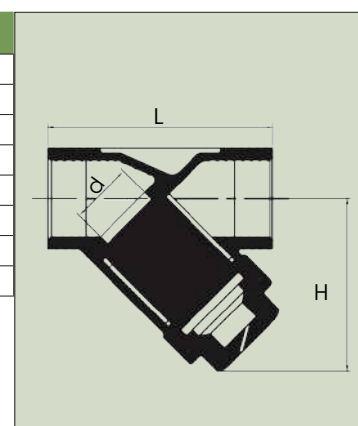
BODY	CF8M	Perforated plate	SS 316	Gaskets	SS316+graphite
MEDIA	Water, Steam and oil		TEMP.	-20°C	+180°C
Mesh	≤ DN50 Mesh 20(0.8MM), ≥ DN 65 Mesh 12(1,5mm)				



FIGURE

611YSTAINLESSS STEEL PN16 Y TYPE
FILTER WITH BSP THREAD

COD.	"	L	H	d
3838KTNF01	1/4"	65	35	9
3838KTNF02	3/8"	65	35	9
3838KTNF03	1/2"	61	43	14
3838KTNF04	3/4"	80	50	18
3838KTNF05	1"	84	63	22
3838KTNF06	1 1/4"	99	70	28
3838KTNF07	1 1/2"	108	82	38
3838KTNF08	2"	131	94	48



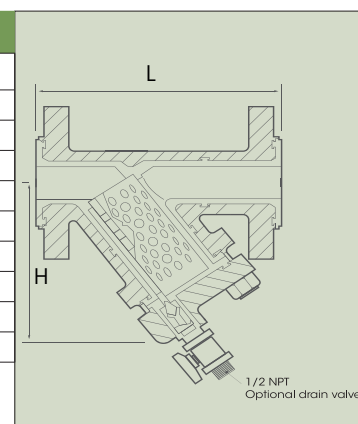
BODY	CF8M	Perforated plate	SS 316	Gaskets	PTFE
MEDIA	Water, Steam and oil		TEMP.	-20°C	+180°C
Mesh	20 Mesh				



FIGURE

62/32TPTFE LINED Y IRON FILTER PN16
WITH DIN/ANSI FLANGES

COD.	STD	L	H	DN
OCM31300081	DIN	160	125	25
OCM31300082		200	150	40
OCM31300083		230	165	50
OCM31300084		310	280	80
OCM31300085		350	305	100
OCM31300089	ANSI	165	125	25
OCM31300090		200	150	40
OCM31300091		228,6	165	50
OCM31300092		317,5	280	80
OCM31300093		368	305	100



BODY	GGG40	Perforated plate	PTFE	Gaskets	PTFE
MEDIA	Corrosive/Chemical Fluids		TEMP.	-20°C	+180°C
Mesh	60 Mesh				

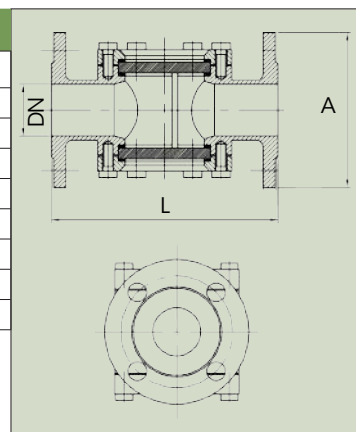


FIGURE

721

STAINLESS STEEL PN16
SIGHTGLASS DIN FLANGES

COD.	DN	L	A
3939KTNB001	15	130	95
3939KTNB002	20	150	105
3939KTNB003	25	160	115
3939KTNB004	32	180	135
3939KTNB005	40	200	145
3939KTNB006	50	230	165
3939KTNB007	65	290	185
3939KTNB008	80	310	200
3939KTNB009	100	350	220



BODY	CF8M	Bonnet	CF8M	Gasket	PTFE
PRESSURE	16Kg/cm2 at 50°C	TEMP.	-20°C +180°C	ENDS	DIN
MEDIA	Water, Steam and oil				

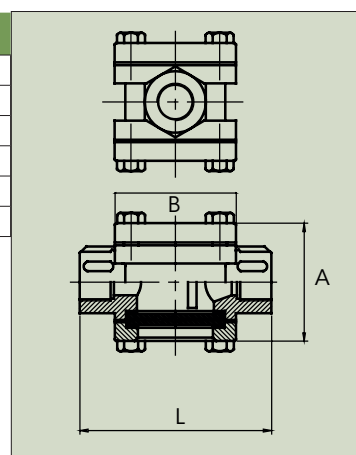


FIGURE

711

STAINLESS STEEL PN16
SIGHTGLASS BSP THREADED

COD.	"	L	B	A
3939KTNR001	1/2"	100	64	70
3939KTNR002	3/4"	100	64	70
3939KTNR003	1"	120	72	88
3939KTNR004	1 1/4"	120	72	88
3939KTNR005	1 1/2"	150	96	123
3939KTNR006	2"	150	96	123



BODY	CF8M	Bonnet	CF8M	Gasket	PTFE
PRESSURE	16Kg/cm2 at 50°C	TEMP.	-20°C +200°C	ENDS	BSP
MEDIA	Water, Steam and oil				

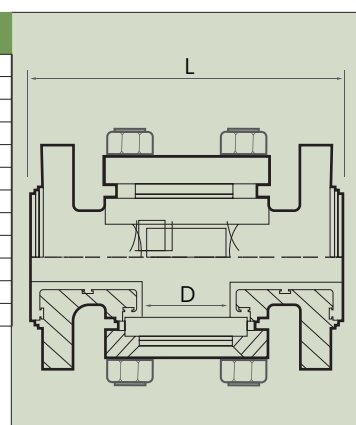


FIGURE

72/32T

PTFE LINED CARBON STEEL
PN10/16 SIGHTGLASS
DIN/ANSI FLANGED

COD.	"	L	ØD
OCM31400001	DIN	152,4 (6)	45 (149/64)
OCM31400002		178(7)	58 (29/32)
OCM31400003		203(8)	77 (3)
OCM31400005		241(91/2)	100 (315/16)
OCM31400006		292 (1112)	125 (459/64)
OCM31400007		-	175 (657/64)
OCM31400019	ANSI	160 (619/64)	45 (149/64)
OCM31400021		200 (77/8)	58 (29/32)
OCM31400022		230 (91/16)	77 (3)
OCM31400023		310 (1213/64)	100 (315/16)
OCM31400024		350 (1325/32)	125 (459/64)
OCM31400025		480 (1829)	175 (657/64)



BODY	CARBON STEEL	Bellow	PTFE	Rings	SS 304
PRESSURE	PN10/16	TEMP.	- 20°C +180°C	ENDS	DIN/ANSI
MEDIA	Corrosive/Chemical Fluids				

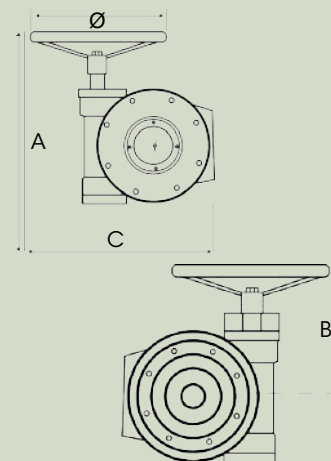


FIGURE

26/7r

ALUMINUM BUTTERFLY
GEAR BOX

COD.	OPENING TORQUE	Weight	A	B	C	Ø
2626KTNR011	4-M8 12	8	215	190	68	160
2626KTNR012	4-M10 23	13	265	235	86	250
2626KTNR013	4-M12 23	16	315	270	81	250
2626KTNR021	4-M16 25	23	385	320	94	320
2626KTNR022	4-M20 37	37	425	355	121	350
2626KTNR023	8-M16 27	48	470	420	125	350
2626KTNR024	8-M16 27	71	610	540	150	500
2626KTNR025	8-M20 45	95	680	550	160	500
2626KTNR026	12-M20 50	160	780	620	180	500



FIGURE

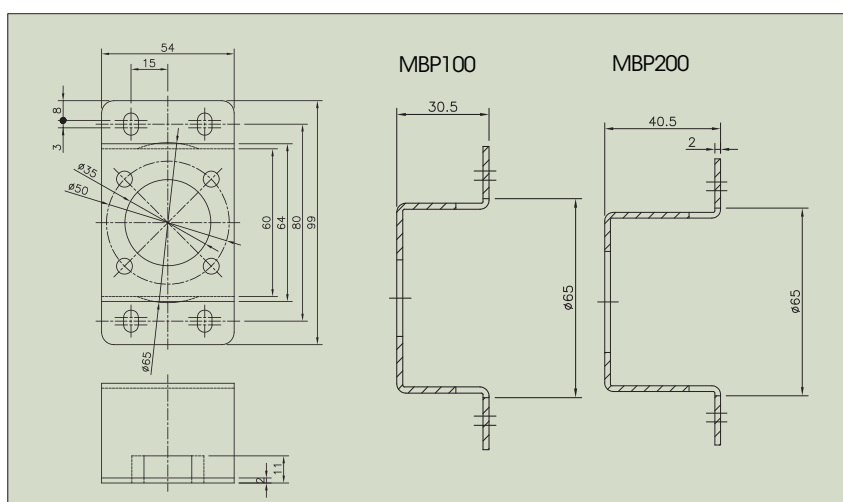
FIG15-11

STAINLESS STEEL H-30 NAMUR
BOX MOUNTING PAD

COD.

MPB

3131KTNFCMON

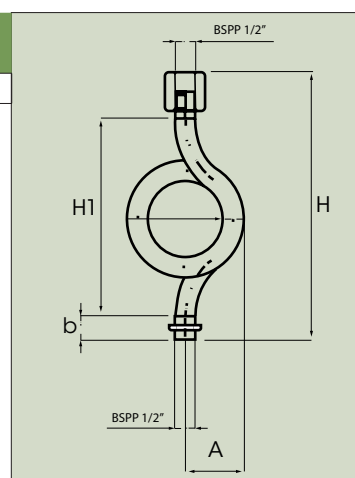
100
200Body: Stainless steel.
ISO 5211 standard.

FIGURE

FIG14-13

CARBON STEEL CURVED
SIPHON TUBE

COD.	H	H1	A	b
5959KTNAC001	310 ±2	245	52	18



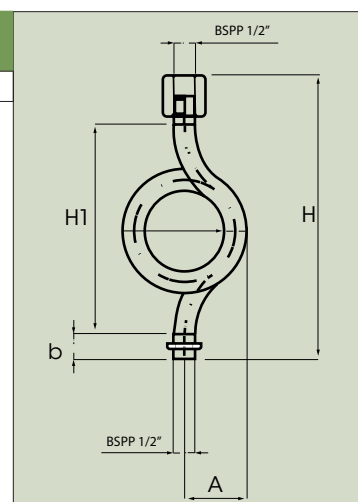
BODY	Carbon Steel	COVER	PVC	Connection	BSPP 1/2"
PRESSURE	100 Bar	TEMP.	-20°C +300°C	ENDS	BSPP 1/2"
MEDIA	Water and Steam				

FIGURE

FIG14-11

STAINLESS STEEL CURVED
SIPHON TUBE

COD.	H	H1	A	b
5959KTN316001	310 ±2	245	52	18



BODY	SS 316	COVER	PVC	Connection	BSPP 1/2"
PRESSURE	260 Bar	TEMP.	-20°C +450°C	ENDS	BSPP 1/2"
MEDIA	Water and Steam				

FIGURE

13

FLANGE SAFETY SHIELDS

FIG
13-PVC

PVC SAFETY SHIELD FOR FLANGES		
COD.	DN	"
333PROBPVC015	15	1/2"
333PROBPVC020	20	3/4"
333PROBPVC025	25	1"
333PROBPVC032	32	1 1/4"
333PROBPVC040	40	1 1/2"
333PROBPVC050	50	2"
333PROBPVC065	65	2 1/2"
333PROBPVC080	80	3"
333PROBPVC100	100	4"
333PROBPVC125	125	5"
333PROBPVC150	150	6"
333PROBPVC200	200	8"
333PROBPVC250	250	10"
333PROBPVC300	300	12"

Safety Spray Shields are designed to prevent a catastrophe by temporarily containing hazardous leaks and sprays. Leaks can occur on piping systems conveying chemicals, high temperature fluids, and steam, which can harm workers, nearby equipment, and the environment.

Leaks of flammables, such as fuel or oil, can create fire and explosion hazards.

Safety Spray Shields help meet regulatory standards set by agencies such as OSHA, EPA, MSHA, SOLAS, ABS, and DNV, and are now required by some insurance companies.

Constructed of durable fabrics that contain a pH indicating patch which signals a leak by immediately changing color towards red if acidic or towards green if an alkali. Our Shields are ready to install quickly and simply by one person



KTN 13-PTFE7:

APPLICATION: NaOCl 12% Lines

PTFE flange guard with PVC sight window for 12% sodium hypochlorite lines. Excellent chemical resistance, prevents spray leaks, and allows quick visual inspection through the clear window and leak-indicator strip.



KTN 13-SS:

APPLICATION: Petrochemical hazardous Zones (ATEX)

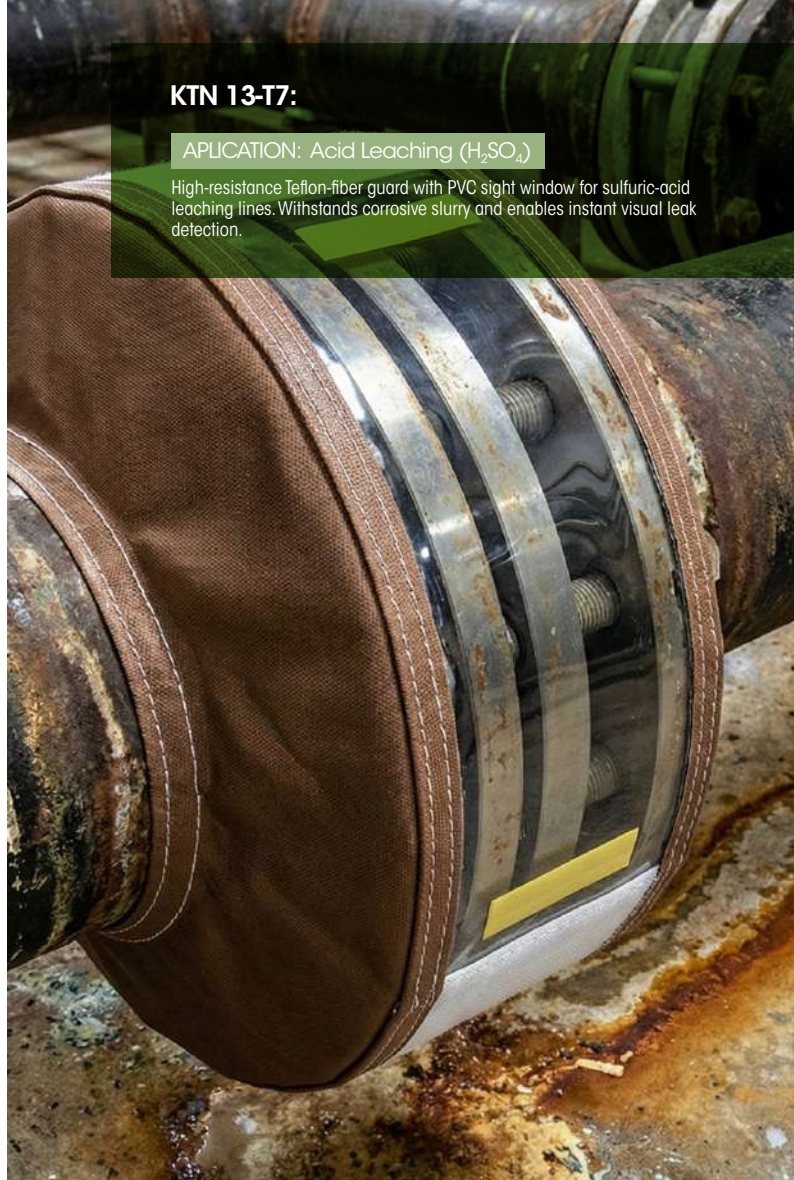
Stainless-steel flange guard designed for ATEX environments with high vibration. Provides rigid mechanical containment, resists impact, and prevents pressurized spray leaks in hazardous areas where PTFE covers would deform or fatigue.



KTN 13-PP:

APPLICATION: Alkaline Service

Stainless-steel flange guard designed for ATEX environments with high vibration. Provides rigid mechanical containment, resists impact, and prevents pressurized spray leaks in hazardous areas where PTFE covers would deform or fatigue.



KTN 13-T7:

APPLICATION: Acid Leaching (H_2SO_4)

High-resistance Teflon-fiber guard with PVC sight window for sulfuric-acid leaching lines. Withstands corrosive slurry and enables instant visual leak detection.



KTN 13-PPF:

APPLICATION: Glucose Syrup Lines

Polypropylene-fiber safety cover for food-grade glucose syrup, juice and general liquid-food lines—lightweight, non-corrosive, and ideal for clean visual inspections.



KTN 13-PVC:

APPLICATION: Cooling Water Systems

Clear PVC flange guard for cooling-water lines. Provides full visual leak detection, prevents spray from chilled-water circuits, and allows easy inspection during operation.

FIG
13-PP

* Pedidos mínimos
300€
* Minimum order
at 300€

PP SAFETY SHIELD
FOR FLANGES

Código / Code	DN	"
3333KTN13PP015	15	1/2"
3333KTN13PP020	20	3/4"
3333KTN13PP025	25	1"
3333KTN13PP032	32	1 1/4"
3333KTN13PP040	40	1 1/2"
3333KTN13PP050	50	2"
3333KTN13PP065	65	2 1/2"
3333KTN13PP080	80	3"
3333KTN13PP100	100	4"
3333KTN13PP125	125	5"
3333KTN13PP150	150	6"
3333KTN13PP200	200	8"
3333KTN13PP250	250	10"
3333KTN13PP300	300	12"

FIG
13-PPF

* Pedidos mínimos
300€
* Minimum order
at 300€

PP FIBER SAFETY SHIELD
FOR FLANGES

Código / Code	DN	"
3333KTN13PPF015	15	1/2"
3333KTN13PPF020	20	3/4"
3333KTN13PPF025	25	1"
3333KTN13PPF032	32	1 1/4"
3333KTN13PPF040	40	1 1/2"
3333KTN13PPF050	50	2"
3333KTN13PPF065	65	2 1/2"
3333KTN13PPF080	80	3"
3333KTN13PPF100	100	4"
3333KTN13PPF125	125	5"
3333KTN13PPF150	150	6"
3333KTN13PPF200	200	8"
3333KTN13PPF250	250	10"
3333KTN13PPF300	300	12"

FIG
13-T

* Pedidos mínimos
300€
* Minimum order
at 300€

TEFLON SAFETY SHIELD
FOR FLANGES

Código / Code	DN	"
3333KTN13T015	15	1/2"
3333KTN13T020	20	3/4"
3333KTN13T025	25	1"
3333KTN13T032	32	1 1/4"
3333KTN13T040	40	1 1/2"
3333KTN13T050	50	2"
3333KTN13T065	65	2 1/2"
3333KTN13T080	80	3"
3333KTN13T100	100	4"
3333KTN13T125	125	5"
3333KTN13T150	150	6"
3333KTN13T200	200	8"
3333KTN13T250	250	10"
3333KTN13T300	300	12"

FIG
13-T7

* Pedidos mínimos
300€
* Minimum order
at 300€

TEFLON SAFETY SHIELD
FOR FLANGES WITH SIGHTGLASS

Código / Code	DN	"
3333KTN13T7015	15	1/2"
3333KTN13T7020	20	3/4"
3333KTN13T7025	25	1"
3333KTN13T7032	32	1 1/4"
3333KTN13T7040	40	1 1/2"
3333KTN13T7050	50	2"
3333KTN13T7065	65	2 1/2"
3333KTN13T7080	80	3"
3333KTN13T7100	100	4"
3333KTN13T7125	125	5"
3333KTN13T7150	150	6"
3333KTN13T7200	200	8"
3333KTN13T7250	250	10"
3333KTN13T7300	300	12"

FIG
13-RT

* Pedidos mínimos
300€
* Minimum order
at 300€

ROUNDED TEFLON SAFETY SHIELD
WITH SIGHTGLASS

Código / Code	DN	"
3333KTN13RT015	15	1/2"
3333KTN13RT020	20	3/4"
3333KTN13RT025	25	1"
3333KTN13RT032	32	1 1/4"
3333KTN13RT040	40	1 1/2"
3333KTN13RT050	50	2"
3333KTN13RT065	65	2 1/2"
3333KTN13RT080	80	3"
3333KTN13RT100	100	4"
3333KTN13RT125	125	5"
3333KTN13RT150	150	6"
3333KTN13RT200	200	8"
3333KTN13RT250	250	10"
3333KTN13RT300	300	12"

FIG
13-PTFE7

* Pedidos mínimos
300€
* Minimum order
at 300€

PURE PTFE SAFETY SHIELD
WITH SIGHTGLASS

Código / Code	DN	"
3333KTN13PTFE7015	15	1/2"
3333KTN13PTFE7020	20	3/4"
3333KTN13PTFE7025	25	1"
3333KTN13PTFE7032	32	1 1/4"
3333KTN13PTFE7040	40	1 1/2"
3333KTN13PTFE7050	50	2"
3333KTN13PTFE7065	65	2 1/2"
3333KTN13PTFE7080	80	3"
3333KTN13PTFE7100	100	4"
3333KTN13PTFE7125	125	5"
3333KTN13PTFE7150	150	6"
3333KTN13PTFE7200	200	8"
3333KTN13PTFE7250	250	10"
3333KTN13PTFE7300	300	12"

FIG
13-SS

* Pedidos mínimos
300€
* Minimum order
at 300€

SS SAFETY SHIELD
FOR FLANGES

Código / Code	DN	"
3333KTN13GALV015	15	1/2"
3333KTN13GALV020	20	3/4"
3333KTN13GALV025	25	1"
3333KTN13GALV032	32	1 1/4"
3333KTN13GALV040	40	1 1/2"
3333KTN13GALV050	50	2"
3333KTN13GALV065	65	2 1/2"
3333KTN13GALV080	80	3"
3333KTN13GALV100	100	4"
3333KTN13GALV125	125	5"
3333KTN13GALV150	150	6"
3333KTN13GALV200	200	8"
3333KTN13GALV250	250	10"
3333KTN13GALV300	300	12"

FIG
13-GALV

* Pedidos mínimos
300€
* Minimum order
at 300€

GALVANIZED STEEL SAFETY SHIELD
FOR FLANGES

Código / Code	DN	"
3333KTN13SS015	15	1/2"
3333KTN13SS020	20	3/4"
3333KTN13SS025	25	1"
3333KTN13SS032	32	1 1/4"
3333KTN13SS040	40	1 1/2"
3333KTN13SS050	50	2"
3333KTN13SS065	65	2 1/2"
3333KTN13SS080	80	3"
3333KTN13SS100	100	4"
3333KTN13SS125	125	5"
3333KTN13SS150	150	6"
3333KTN13SS200	200	8"
3333KTN13SS250	250	10"
3333KTN13SS300	300	12"

FIG
13-SSB

* Pedidos mínimos
300€
* Minimum order
at 300€

STAINLESS STEEL BAND
FOR FLANGES

Código / Code	DN	"
3333KTN13SSB015	15	1/2"
3333KTN13SSB020	20	3/4"
3333KTN13SSB025	25	1"
3333KTN13SSB032	32	1 1/4"
3333KTN13SSB040	40	1 1/2"
3333KTN13SSB050	50	2"
3333KTN13SSB065	65	2 1/2"
3333KTN13SSB080	80	3"
3333KTN13SSB100	100	4"
3333KTN13SSB125	125	5"
3333KTN13SSB150	150	6"
3333KTN13SSB200	200	8"
3333KTN13SSB250	250	10"
3333KTN13SSB300	300	12"



FIGURE

FITTINGS

PIPE FITTINGS

SS							
BSP	CODO 90° 90° ELBOW	TE TEE	TUERCA HEXAGONAL HEX NIPPLE	UNION H/H F/F UNION	UNION M/H M/F UNION	ENLACE SOCKET	ENTRONQUE WELDING NIPPLE (SCH40)
FIG	0890	08130	08280	08340	08341	08270	08149
SIZE	PESO / WEIGHT (Kg)						
1/8"	0.018	0.025	0.017	0.066	0.076	0.015	0.014
1/4"	0.029	0.042	0.020	0.066	0.076	0.019	0.022
3/8"	0.048	0.061	0.028	0.077	0.085	0.030	0.029
1/2"	0.068	0.104	0.046	0.128	0.152	0.049	0.050
3/4"	0.088	0.144	0.068	0.180	0.205	0.069	0.075
1"	0.150	0.242	0.101	0.325	0.345	0.120	0.112
1 1/4"	0.255	0.330	0.150	0.413	0.458	0.180	0.190
1 1/2"	0.320	0.425	0.175	0.550	0.610	0.210	0.226
2"	0.511	0.635	0.301	0.790	0.913	0.375	0.304
2 1/2"	1.040	1.130	0.490	1.190	1.900	0.570	0.607
3"	1.400	1.800	0.720	1.650	2.450	0.880	0.872
4"	2.400	2.990	1.120	2.650	3.650	1.420	1.422

This is a translation of the certificate ES18/81876

The management system of

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INSTRUMENTACIÓN S.L. GRM; KARA
TECHNOLOGY NEWS S.L.)**

Headquarters: Ctra. De Sabadell, km13, Nave 7, 08181 Rubí, Barcelona

has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities

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This certificate is valid from 22 November 2025 until 14 June 2027 and remains valid subject to satisfactory surveillance audits.

Issue 5. Certified since 14 June 2018

Certified activities performed by additional sites are listed on subsequent pages.

Last certificate expiry date 14 June 2024

Renewal audit date 07 June 2024

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Más información

More info at

<https://ktnvalves.com/blog/>EQUIVALENCY
DIN/ANSI

ANSI CLASS RATING	DIN NOMINAL PRESSURE
150	20
300	50
400	64
600	100
900	150
1500	250
2500	420

EQUIVALENCY
DN/NPS

DN	NPS	DN	NPS	DN	NPS	DN	NPS
6	1/8	100	4	700	28	1800	72
8	1/4	115	4 1/2	800	32	1900	76
10	3/8	125	5	900	36	2000	80
15	1/2	150	6	1000	40	2200	88
20	3/4	200	8	1050	42	2400	96
25	1	250	10	1100	44	2600	104
32	1 1/4	300	12	1200	48	2800	112
40	1 1/2	350	14	1300	52	3000	120
50	2	400	16	1400	56	3200	128
65	2 1/2	450	18	1500	60	3400	134
80	3	500	20	1600	64	3600	142
90	3 1/2	600	24	1700	68	3800	150

EQUIVALENCY
mesh / μm / mm

EXACT EQUIVALENCY			PERFORATED PLATE
Mesh N°	μm	mm	
3	6760	6.73	6.7 mesh
5	4000	4	4 mm perfortared plate
6	3300	3.3	3 mm perfortared plate
10	2000	2	2 mm perfortared plate
14	1410	1.41	1.5 mm perfortared plate
16	1190	1.19	1.2 mm perfortared plate
18	1000	1	1 mm perfortared plate
20	841	0.841	800 μm mesh
28	700	0.7	700 μm mesh
30	595	0.595	600 μm mesh
35	500	0.5	500 μm mesh
40	420	0.42	400 μm mesh

EXACT EQUIVALENCY			PERFORATED PLATE
Mesh N°	μm	mm	
45	354	0.354	350 μm mesh
50	297	0.297	300 μm mesh
60	250	0.25	250 μm mesh
70	210	0.21	200 μm mesh
80	177	0.177	170 μm mesh
100	149	0.149	150 μm mesh
140	105	0.105	100 μm mesh
200	74	0.074	75 μm mesh
230	63	0.064	63 μm mesh
270	53	0.053	50 μm mesh
325	44	0.044	40 μm mesh
400	37	0.037	30 μm mesh

CONVERSION
PRESSURE

	Kg/ cm ²	PSI	Bar	Pa
Kg/ cm ²	1	14.22	0.980665	0.1019716212978
PSI	0.070307	1	0.06895	0.00014503773773
Bar	1.0197	14.5038	1	0.00001
Pa	9.80665	6894.757293178	100000	1

CONVERSION
TEMPERATURE

	°C	°F
°C	1	32 + (1.8 x °C)
°F	° F - 32 / 1.8	1

FORMULA
PRESSURE DROP FLOW EQUATIONS

$$\Delta P = \left[\frac{Q}{C \cdot A} \right]^2 \cdot \frac{d}{2}$$

$$\Delta P = \text{Pa} \quad Q = \text{m}^3/\text{s} \quad A = \text{m}^2 \quad d = \text{kg}/\text{m}^3$$

A: Área

C: coeficiente de descarga

d: densidad (densidad del agua = 1000 kg / m³)

D: diámetro

g: Gravedad 9,8 m / s²

K: Coeficiente de flujo (Kv) (Cv)

Q: tasa de flujo

SG: gravedad específica (1 para agua)

v: velocidad de flujo

Δh: Caída de la cabeza (alto nivel de líquido)

ΔP: caída de presión

ζ: coeficiente de pérdida de presión Zeta

$$\Delta P = \left[\frac{Q}{C \cdot D^2 \cdot \pi/4} \right]^2 \cdot \frac{d}{2}$$

$$\Delta P = \text{Pa} \quad Q = \text{m}^3/\text{s} \quad D = \text{m}^2 \quad d = \text{kg}/\text{m}^3$$

A: Area

C: Discharge coefficient

d: density (water density = 1000kg/m³)

D: Diameter

g: Gravity 9.8 m/s²

K: Flow coefficient (Kv)(Cv)

Q: Flow rate

SG: Specific gravity (1 for water)

v: Flow velocity

Δh: Head Drop (high of fluid)

ΔP: Pressure Drop

ζ: Zeta pressure loss coefficient

$$\Delta P = \left[\frac{Q}{K} \right]^2 \cdot S \cdot G$$

$$\Delta P = \text{Pa} \quad Q = \text{m}^3/\text{s} \quad K = \text{m}^2$$

K = Cv, cuando K se hace referencia en unidades [gpm] [psi].
K = Kv, cuando K está referenciado en unidades [m³ / h] [bar].

K = Cv, when K is referenced in [gpm] [psi] units.
K = Kv, when K is referenced in [m³/h] [bar] units.

$$\Delta P = \zeta \cdot d \cdot \frac{v^2}{2}$$

$$\Delta P = \text{Pa} \quad d = \text{kg/m}^3 \quad v = \text{m/s}$$

$$\Delta P = \zeta \cdot d \cdot 8 \cdot \frac{Q^2}{(\pi \cdot D)^2}$$

$$\Delta P = \text{Pa} \quad d = \text{kg/m}^3 \quad Q = \text{m}^3/\text{s} \quad D = \text{m}$$

A: Área

C: coeficiente de descarga

d: densidad (densidad del agua = 1000 kg / m³)

D: diámetro

g: Gravedad 9,8 m / s²

K: Coeficiente de flujo (Kv) (Cv)

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ΔP: Pressure Drop

ζ: Zeta pressure loss coefficient

FORMULA SPEED CALCULATION

V = Velocidad de circulación (m/s)

Q= Caudal (m³ / h)

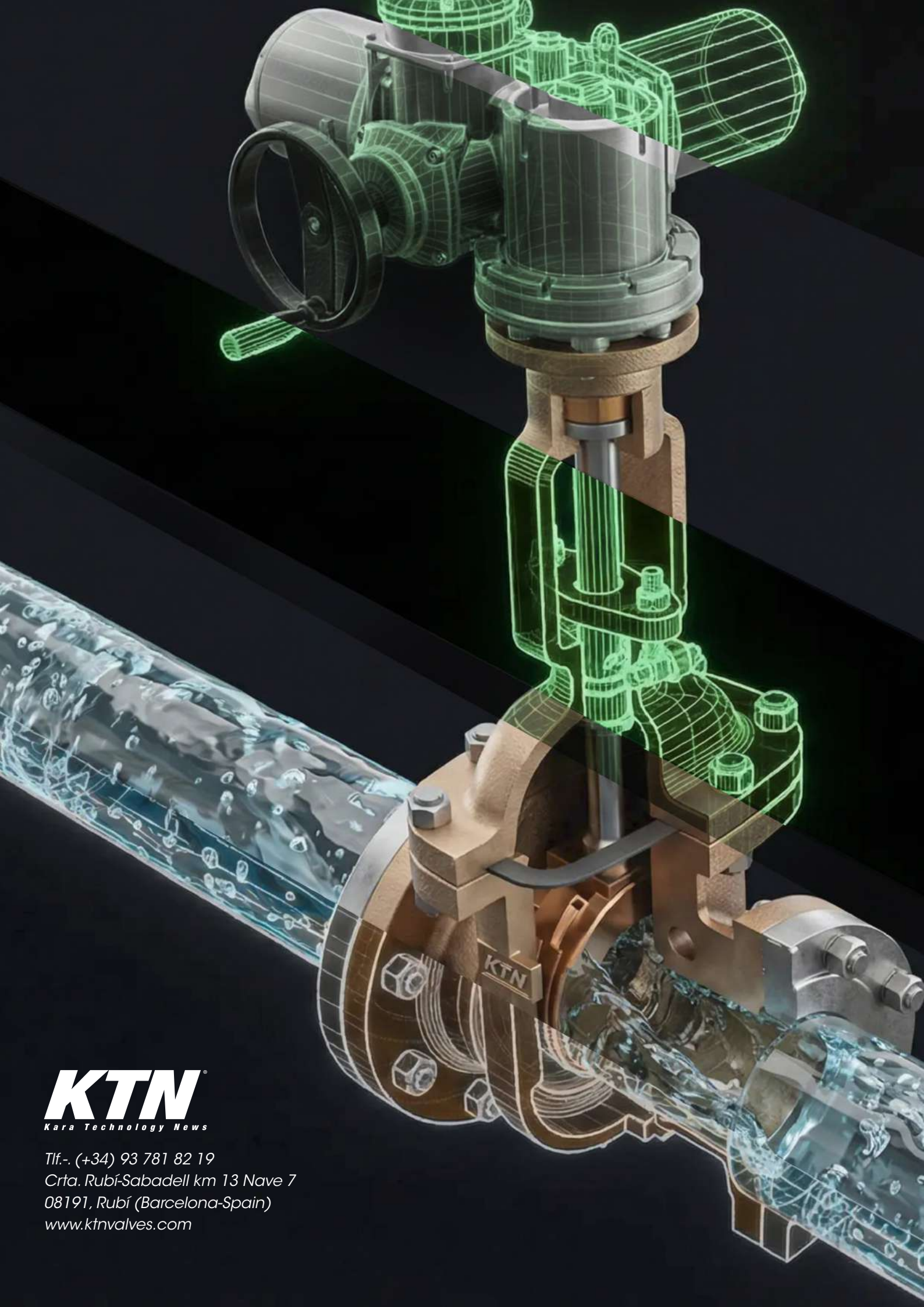
D = Diámetro de paso (mm)

V = Circulation speed (m/s)

Q = Flow rate (m³ / h)

D = Bore diameter (mm)

$$V = 353.7 \frac{Q}{D^2}$$



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