

**WE SUPPORT
SUSTAINABILITY WITH
OUR BRANDS**



VALVES



INSTRUMENTATION



AUTOMATIZACIÓN



ACCESSORIES

1.1

GRM
COMPANY

Valves and Instrumentation S.L. GRM

We are an **industrial material distribution company** specialized in process facilities, which has a team of technical professionals with **more than 40 years of experience** willing to advise you and become your **best collaborator**.

OUR VALUES



QUALITY SERVICE

Extensive experience in each industrial sector

We know the specific needs and challenges present in **gas, fluid and solid industrial facilities** in the different **sectors**. Our goal is to be able to help you with **specialized complete solutions** tailored to the demands of the market.



Service is our priority

From GRM we take care of **evaluating and approving** our **suppliers** with active monitoring during the **manufacturing processes, the reception and storage** of materials, the verification of **certificates and tests**, as well as the control of supply to customers.

Thanks to our wide range of products we can offer you **regulation and control equipment** that adapts to any application. We also provide you with **continuous technical advice**; we size and select the equipment and finally **we automate the control maneuver required** in all types of valves.



1.2 GRM TEAM

COMPANY

Tailored service

Our GRM team is divided into 2 areas to offer you the best personalized service.

The **sales area**, with offices in Barcelona and Madrid, is in charge of quickly and efficiently advising our clients' day-to-day queries thanks to the experience of its technicians.

Our **project division** in collaboration with the **technical support** of our brands offers specific and optimized solutions both nationally and internationally; **from the offer phase to start-up**.

Offer Phase

- Detailed engineering
- Technical advice
- Equipment sizing
- Instrumentation Selection

Award phase

- Order management and planning
- Launch meetings with clients
- Preparation of documentation
- commissioning supervision

Constant training

Our **technicians and salespeople** receive **continuous training**, given in theoretical sessions and practical workshops where the principles of our products and their improvements are studied.

32

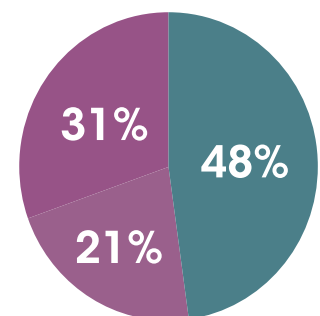
PEOPLE

34

AVERAGE AGE OF WORKERS

10

LANGUAGES



■ ENGINEERING GRADUATES

■ SENIOR GRADUATES

■ TECHNIFIED MEDIUM GRADUATES

1.3 OUR BRANDS

COMPANY



2.1 BALL VALVES

INDUSTRIAL VALVES



TYPE	ISOLATING				
CONNECTION	BSP/NPT	BW/SW	ANSI/DIN/JIS	REACTOR FUND	CLAMP



TECHNICAL CHARACTERISTICS					
TEMP. RANGE OF WORK	min -200°C		max 400°C		
WORKING PRESSURE RANGE	150# / PN16	300# / PN40	900# / PN150	1500# / PN250	2500# / PN420
SETTING	FLOATING SPHERE				GUIDED SPHERE
WAYS	2	3		4	
AVAILABLE DESIGNS	NON-EYECTABLE STEM, ANTISTATIC DEVICE, FIRESAFE SYSTEM, PTFE LINING, FDA COMPLIANT, ELECTRO-POLISHED INTERIOR, HIGH TEMPERATURE/CRYOGENIC SERVICE				

AVAILABLE MATERIALS (Other materials on special request)			
BODY	PLASTIC	CARBON STEEL	STAINLESS STEEL
SEAT	PTFE	RPTFE	METAL
SPHERE	STAINLESS STEEL		

2.2 BUTTERFLY VALVE

INDUSTRIAL VALVES



TYPE	CONCENTRIC	DOUBLE ECCENTRIC	TRIPLE ECCENTRIC
CONNECTION	WAFER	LUG	DOUBLE FLANGE



TECHNICAL CHARACTERISTICS		
TEMP. RANGE OF WORK	min -196°C	max 450°C
WORKING PRESSURE RANGE	150# / PN10-16	300# / PN40
AVAILABLE DESIGNS	DRINKING WATER, ANTICORROSIVE, SOLIDS IN SUSPENSION	

AVAILABLE MATERIALS (Other materials on special request)									
BODY	PLASTIC		NODULAR IRON		CARBON STEEL		STAINLESS STEEL		
SEAT	EPDM (WRAS)	BUNA-N		PTFE		FKM		POLIURETANO	METAL
DISC	PLASTIC		CARBON STEEL		STAINLESS STEEL			PFA LINING	
JOINT	BUNA		EPDM		PTFE			GRAFITO	

2.3 SANITARY BUTTERFLY VALVES

INDUSTRIAL VALVES



TYPE	ISOLATION	DOSING	CRUSHER
CONNECTION	CLAMP	WELDING	



TECHNICAL CHARACTERISTICS

DESCRIPTION	VALVES WITH FDA COMPLIANCE FOR POWDERS AND SOLIDS IN THE PHARMACEUTICAL, CHEMICAL OR FOOD INDUSTRY.		
CONNECTION	CLAMP WITH "QUICK RELEASE" SYSTEM TO FACILITATE MAINTENANCE TASKS		

AVAILABLE MATERIALS (Other materials on special request)

BODY	STAINLESS STEEL		MIRROR POLISHED STAINLESS STEEL	
DISC	STAINLESS STEEL	SS MIRROR POLISHED	SILICONE COATING	PFA LINING
SEAT	VITON	SILICONE	PFA	NYLON

2.4 GLOBE VALVES

INDUSTRIAL VALVES



TIPO	REGULATION		REGULATION WITH ATMOSPHERIC SEALING
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW



TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -29°C		max 600°C	
WORKING PRESSURE RANGE	150# / PN10-16		2500# / PN420	
AVAILABLE DESIGNS	REINFORCED SHUTTER	BONNET AND BODY 1 PIECE	NON-RISING STEM	NUCLEAR SERVICE

AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION	CARBON STEEL	STAINLESS STEEL	BRONZE
WEDGE / DISC	CARBON STEEL	STEEL WITH STELLITE	STAINLESS STEEL	BRONZE
PACKING	GRAPHITE		PURE GRAPHITE	
SEAT / SEAL	BUNA	EPDM	PTFE	GRAPHITE

2.5 GATE VALVES

INDUSTRIAL VALVES



TYPE	ISOLATION		
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW



TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -29°C		max 600°C	
WORKING PRESSURE RANGE	150# / PN10-16		2500# / PN420	
AVAILABLE DESIGNS	REINFORCED SHUTTER	BONNET AND BODY 1 PIECE	NON-RISING STEM	NUCLEAR SERVICE

AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION	CARBON STEEL	STAINLESS STEEL	BRONZE
DISC	CARBON STEEL	STEEL WITH STELLITE	STAINLESS STEEL	BRONZE
PACKING	GRAPHITE		PURE GRAPHITE	
SEAT / SEAL	BUNA	EPDM	PTFE	GRAPHITE

2.6 CHECK VALVES

INDUSTRIAL VALVES



TYPE	SWING	VERTICAL	BALL	DOUBLE DISC
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW	WAFER



TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -29°C	max 600°C
WORKING PRESSURE RANGE	150# / PN10-16	2500# / PN420
AVAILABLE DESIGNS	NUCLEAR SERVICE	SUBMARINE SERVICE

AVAILABLE MATERIALS (Other materials on special request)

BODY	BRASS	GRAY FUNDITION	CARBON STEEL	STAINLESS STEEL	BRONZE
SWING / SPHERE / DISC	CARBON STEEL		STAINLESS STEEL		
SEAT / SEAL	BUNA	EPDM	PTFE	GRAPHITE	

2.7 KNIFE VALVES

INDUSTRIAL VALVES



DRIVE	MANUAL		PNEUMATIC
CONNECTION	WAFER	LUG	FLANGED



AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION			STAINLESS STEEL		
KNIFE	STAINLESS STEEL			SUPER DUPLEX		
CLOSING JOINTS	METAL	BUTYL	NBR	EPDM	PTFE	RPTFE
CABLE GLAND	ALUMINUM			STAINLESS STEEL		

TECHNICAL CHARACTERISTICS

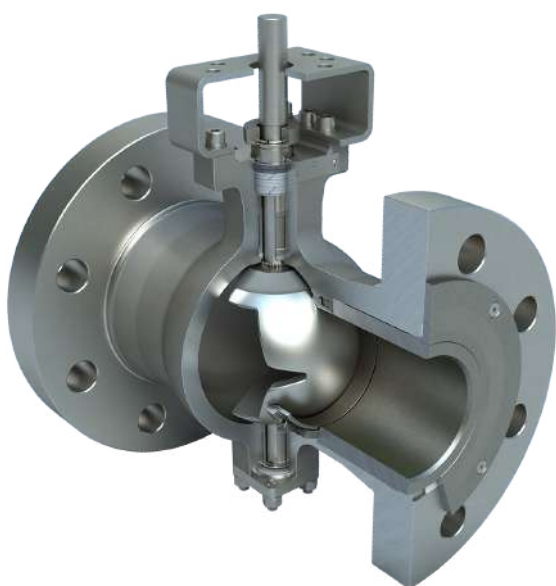
TEMP. RANGE OF WORK	min -40°C		max 250°C	
WORKING PRESSURE RANGE	PN5		PN40	
SPECIAL OPTIONS	LIMIT SWITCH SUPPORTS	GATE WITH HARD CHROME	ACC. EMERGENCY	BLOCKING DEVICE
	LIMIT SWITCH	MIRROR POLISHED GATE	MANEUVERING EXTENDERS	PNEUMATIC DISTRIBUTORS

2.8 CONTROL VALVES

INDUSTRIAL VALVES



TYPE	MODULATING		PRESSURE REGULATOR
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW



AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION	IRON	CARBON STEEL	STAINLESS STEEL	BRONZE
WEDGE / DISC	CARBON STEEL			STAINLESS STEEL	
SEAT / SEAL	BUNA	EPDM		PTFE	METAL

TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -60°C		max. 450°C	
WORKING PRESSURE RANGE	150# / PN10-16		300# / PN40	
SETUPS	PNEUMATIC CONTROL	DIVERSIFIER	INCLINED SEAT	NEEDLE
	PRESSURE REDUCER	SEGMENTED SPHERE	AUTOMATIC CLOSING	CERAMIC DISC

2.9 DIAPHRAGM VALVES

INDUSTRIAL VALVES

WRAS
Water Regulations Advisory Scheme

bsi.

FDA

CE

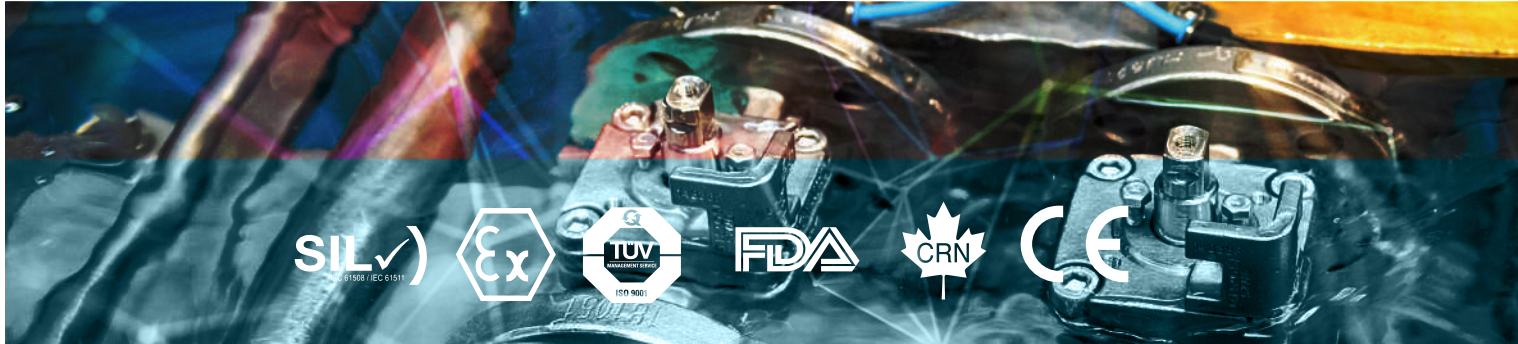
COVERING	RUBBER	PLASTIC	GLASS	HALAR
CONNECTION	DIN/ANSI		NPT/BSP	



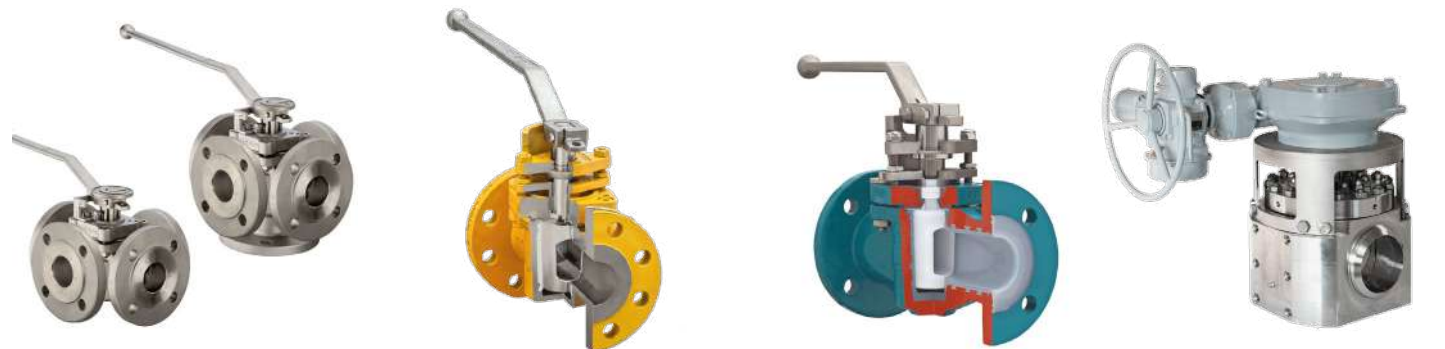
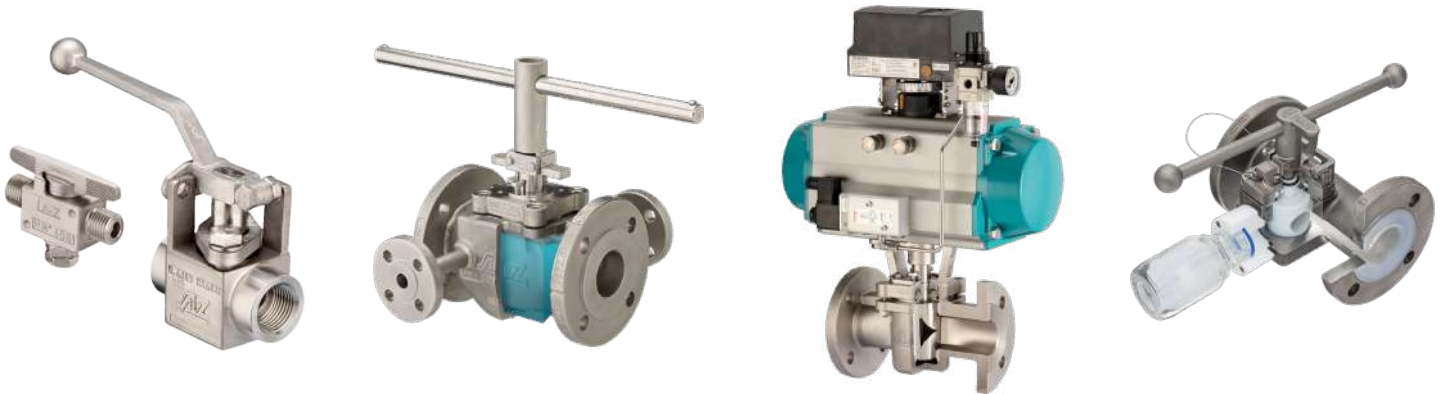
Nº	TYPE	DIAPHRAGM	APPLICATION
10	Straight through type and Weir type	Natural rubber NR	General use, abrasives, water, dilute acid minerals
11		Natural rubber Composite	Sludge and suspended solids
20		EPDM / Black ethylene propylene rubber	General purpose, resistant to temperatures, most corrosive and abrasive chemicals
22		EPDM / FDA compliance	food and pharmaceutical
30		Chlorobutyl IIR Butyl Rubber, halogenated isobutylene isoprene	Acids, alkalis, hot water and low pressure steam
40		NBR Nitrile Rubber, Acrylonitrile Butadiene Rubber	Oils, fats and fuels
50		CR Neoprene, Chloroprene Rubber	Air, weak chemicals, grease
60		Hypalon CSM, Chlorosulfonated polyethylene	Concentrated acids and alkalis, chlorides
70		Fluorinated elastomer FKM/Viton FPM	Sulfur concentrates, hydrocarbons and chlorides
80		Silicone	Oxidizing chemicals, concentrated sodium hydroxide, food
92	Weir type	PTFE with EPDM backing	High chemical resistance and high temperature
93		Butyl-backed PTFE	High chemical resistance and high temperature
96		PTFE with hypalon backing	High chemical resistance and high temperature

2.10 PLUG VALVES

INDUSTRIAL VALVES



TYPE	ISOLATION	REGULATION AND CONTROL	SAMPLING
CONNECTION	BSP/NPT		ANSI/DIN/JIS



AVAILABLE MATERIALS (Other materials on special request)

BODY	CARBON STEEL		STAINLESS STEEL		
SEAT			PTFE		
PLUG	IRON		STAINLESS STEEL		
WAYS	1	2	3	4	5

TECHNICAL CHARACTERISTICS

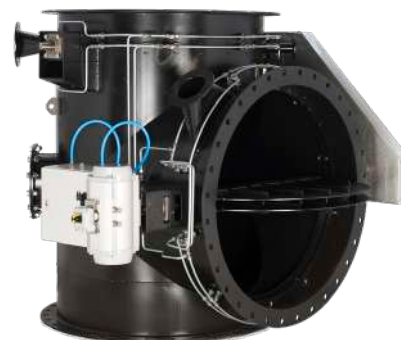
TECHNICAL CHARACTERISTICS		
TEMP. RANGE OF WORK	min -60°C	max 280°C
WORKING PRESSURE RANGE	150# / PN10-16	900# / PN100
AVAILABLE DESIGNS	NON-EXPELLABLE STEM, FIRESAFE, PTFE LINING, FDA COMPLIANT, NUCLEAR SERVICE. RENTAL SERVICE	

2.11 DAMPER VALVES

INDUSTRIAL VALVES



TYPE	DAMPER	BYPASS	BLOCKING AIR	LOUVRE
CONNECTION	WAFER	FLANGED	LOUVRE	



AVAILABLE MATERIALS (Other materials on special request)

BODY	PVC	ALUMINUM	STEEL	STAINLESS STEEL
DISC / BLADES	PVC	ALUMINUM	STEEL	STAINLESS STEEL
WAYS	2		3	

TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -98°C	max 600°C
AVAILABLE DESIGNS	CUSTOMIZED DESIGNS FOR ALL KINDS OF ENVIRONMENTS AND LARGE DIAMETERS	

2.12 SAFETY VALVES

INDUSTRIAL VALVES



TYPE	INSTANT FULL OPENING	PROGRESSIVE OPENING	VACUUM BREAKER	HIGH PRESSURE
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW	



AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION	BRASS	CARBON STEEL	STAINLESS STEEL	BRONZE
CLOSING DISC	PTFE	SILICONE	VITON	METAL	
SEAT	METAL	VITON	PTFE	STELLITE	

TECHNICAL CHARACTERISTICS

TEMP. RANGE OF WORK	min -196°C	max 260°C
WORKING PRESSURE RANGE	150# / PN10-16	2500# / PN420

3.1 ACTUATORS AND ACCESSORIES

INDUSTRIAL AUTOMATION



TYPE	PNEUMATIC ACTUATORS	ELECTRIC ACTUATOR	LIMIT SWITCH BOX	SOLENOID VALVE
CONNECTION	NAMUR STANDARD			



AVAILABLE MATERIALS (Other materials on special request)

BODY	ALUMINUM	POLYAMIDE	STAINLESS STEEL
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CARACTERÍSTICAS TÉCNICAS

WORKING PRESSURE RANGE	PN8	PN15
TEMP. RANGE OF WORK	mín. -55°C	máx. 80°C
LIMIT TRAVEL SENSOR	INDUCTIVE PEPPERL FUCHS	ELECTROMECHANICAL
SOLENOID WAYS	3/2	5/2.

4.1

PRESSURE

INDUSTRIAL INSTRUMENTATION



DEVICE	PRESSURE GAUGE	PRESSURE SENSOR	THERMOSTATE
CONNECTION	BSP/NPT		CLAMP



AVAILABLE MATERIALS (Other materials on special request)

BODY	PLASTIC	BRASS	STAINLESS STEEL
INNER PARTS / SENSOR	BRASS	COPPER	STAINLESS STEEL

TECHNICAL CHARACTERISTICS

TEMP. RANGE ATMOSPHERE	min -40°C		max 125°C	
TEMP. RANGE OF WORK	min -40°C		max 125°C	
SCALE	- 1 bar		100 bar	
CONNECTION	AXIAL		RADIAL	
ACCURACY CLASS	± 3%		± 0.2%	
DEGREE OF PROTECTION	IP54	IP65	ATEX ZONE 0	ATEX ZONE 1
CONFIGURATIONS	ANTICORROSIVE	RAILWAY ENVIRONMENT	NUCLEAR ENVIRONMENT	UNDERWATER ENVIRONMENT
REFERENTIAL PRESSURE	ABSOLUTE		DIFERENTIAL	RELATIVE

4.2

TEMPERATURE

INDUSTRIAL INSTRUMENTATION



DEVICE	BIMETALLIC THERMOMETER	RESISTANCE THERMOMETER	THERMOSTAT
CONNECTION	BSP/NPT		



AVAILABLE MATERIALS (Other materials on special request)

BODY	PLASTIC	BRASS	STAINLESS STEEL
ORGANS / SENSOR	BRASS	COPPER	STAINLESS STEEL

TECHNICAL CHARACTERISTICS

TEMP. RANGE ATMOSPHERE	min. -40°C		max. 125°C	
TEMP. RANGE OF WORK	min. -20°C		max. 200°C	
SCALE	min. - 90°C		max. 600°C	
ACCURACY CLASS	± 3%		± 0.2%	
PROTECTION DEGREE	IP54	IP65	ATEX ZONE 0	ATEX ZONE 1
SETUP	ANTICORROSIVE	RAILWAY ENVIRONMENT	NUCLEAR ENVIRONMENT	UNDERWATER ENVIRONMENT

4.3

FLOW

INDUSTRIAL INSTRUMENTATION



DEVICE	FLOWMETER	FLOW DETECTOR
CONNECTION	BSP/NPT	DIN/ANSI



AVAILABLE MATERIALS (Other materials on special request)

BODY	PLASTIC	NODULAR IRON	STAINLESS STEEL
TUBE	PLASTIC	GLASS	METAL
FLOAT / SENSOR	PLASTIC	ALUMINUM	STAINLESS STEEL

TECHNICAL CHARACTERISTICS

WORKING PRESSURE RANGE	PN8		PN40	
TEMP. RANGE OF WORK	min -20°C		max 300°C	
FLOW	4 m ³ /h		135000 m ³ /h	
ACCURACY RANGE	± 4%		± 0.2%	
MEASUREMENT	FLOATER	SHOCK	ELECTROMAGNETIC	TURBINE
	PISTON	ULTRASOUND	MAGNETIC FIELD	PLATE

4.4

LEVEL

INDUSTRIAL INSTRUMENTATION



DISPOSITIVE

MECHANICAL INDICATOR

DIGITAL INDICATOR

SWITCH

DETECTOR

CONNECTION

BSP/NPT



AVAILABLE MATERIALS (Other materials on special request)

BODY	PLASTIC	BRASS	STAINLESS STEEL
ORGANS / SENSOR	BRASS	COPPER	STAINLESS STEEL

TECHNICAL CHARACTERISTICS

WORKING PRESSURE RANGE	PN10		PN100	
TEMP. RANGE OF WORK	min. -30°C		max. 400°C	
ACCURACY CLASS	± 10%		± 2%	
DEGREE OF PROTECTION	IP67			
MEASUREMENT	Magnetic field		Swivelling float	
	Ultrasound	Radar	Vibrating switch	Pulleys

5.1 ACCESSORIES

INDUSTRIAL ACCESSORIES

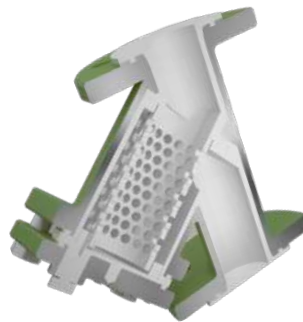


PRODUCT	COMPENSATORS	SIGHTS	FILTERS	JOINTS	FLANGE COVERS
CONNECTION	BSP/NPT			ANSI/DIN/JIS	



AVAILABLE MATERIALS (Other materials on special request)

BODY	STAINLESS STEEL	GALVANIZED STEEL
	PTFE/PFA LINING	BRAIDED PTFE
	PURE PTFE	PP
TECHNICAL CHARACTERISTICS		
TEMP RANGE OF WORK	min. -50°C	max. 500°C



AVAILABLE MATERIALS (Other materials on special request)

BODY	STAINLESS STEEL	CARBON STEEL
SIGHTGLASS	TEMPERED GLASS	
TECHNICAL CHARACTERISTICS		
WORKING PRESSURE RANGE	PN10	PN63
TEMP. RANGE OF WORK	min -40°C	max 304°C

5.2 STEAM ACCESSORIES

INDUSTRIAL ACCESSORIES



PRODUCT	THERMOSTATIC STEAMTRAP	BUOY STEAMTRAP	BLEED VALVE
CONNECTION	DIN/ANSI/JIS	BSP/NPT	SW/BW



AVAILABLE MATERIALS (Other materials on special request)

BODY	GRAY FUNDITION	STAINLESS STEEL
COVER	STAINLESS STEEL	
CLOSING DISC	STAINLESS STEEL	
SEAL	COPPER	GRAPHITE

TECHNICAL CHARACTERISTICS

WORKING PRESSURE RANGE	0.25 bar	63 bar
TEMP. RANGE OF WORK	min. -20°C	max. 400°C

5.3

PIPELINES

INDUSTRIAL ACCESSORIES



PRODUCT	PIPELINES	ELBOWS	STUDS	TEES	FITTINGS	HOSES
CONNECTION	BSP/NPT		SW/BW		ANSI/DIN/JIS	



AVAILABLE MATERIALS (Other materials on special request)

BODY	STAINLESS STEEL	CARBON STEEL
	PTFE/PFA LINING	BRAIDED PTFE
	STAINLESS STEEL	PP

TECHNICAL CHARACTERISTICS

WORKING PRESSURE RANGE	PN2.5	PN16
TEMP. RANGE OF WORK	min. -40°C	max. 200°C
CONNECTION	ANSI / DIN / JIS	NPT / BSP / SW
DIAMETER	10 mm	1600 mm
THICKNESS	1 mm	7 mm

6.1 TABLES AND FORMULAS

TECHNICAL DATA

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



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