Valves programme

over 75 years of tradition

over 75 markets

ZETKAMA

ZETKAMA is a part of the MANGATA HOLDING. Company is one of the largest manufacturers of industrial valves in Central and Eastern Europe with own cast iron foundry. ZETKAMA is offering over 2000 of different types of valves, such as stop valves, check valves, bellow valves, butterfly valves, strainers, ball valves and other. The products are sold to more than 75 countries around the world.

MANGATA HOLDING

ZETKAMA

Established in 1946

Product range: stop valves, bellow valves, check valves, strainers, butterfly valves, ball valves, rubber expansion joints, gate valves, castings.

Application: heating plants and systems, air conditioning and ventilation, water and sewage plants, shipbuilding.

ZETKAMA R&D

Established in 2014

Product range: advanced engineering services for the implementation of the research and development of industrial valves (valves research, development and implementation of new products, design and technological work).

Application: industrial valves, regulation systems.

MCS

Established in 2009

Product range: exhaust systems, metal components.

Application: automotive industry, construction industry, agriculture, forestry.

KUŹNIA POLSKA

Established in 1772

Product range: forgings.

Application: automotive, mining, construction, energy and agriculture.

MASTERFORM

Established in 1985

Product range: car parts, mechanical parts for vacuum pumps, servo drive parts, parts for construction and agricultural machinery, hydraulic units, high pressure hydraulic pumps.

Application: automotive, construction, agriculture.

ŚRUBENA UNIA

Established in 1832

Product range: bolts, nuts, washers, rivets.

Application: construction industry, railway industry, engineering industry, mining industry, automotive industry.

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Legend

Body material acc. to index

- **A** – Grey cast iron EN-GJL-250 5.1301 (ex. JL 1040)
- **B** – Nodular cast iron EN-GJS-400-15 5.3106 (ex.JS 1030)
- **C** – Nodular cast iron EN-GJS-400-18-LT 5.3103 (ex.JS 1025)
- **D** – Nodular cast iron EN-GJS-500-7 5.3200 (ex.JS 1050)
- **E** – Bronze CuSn5Zn5Pb5-C CC491K
- **F** – Cast steel GP240GH 1.0619
- **G** – Forged steel P245GH 1.0352
- **G** – Forged steel A105
- **H** – Brass CuZn36Pb2As CW602N
- **T** – Brass CuZn39Pb2 CW612N
- **V** – Brass CuZn40Pb2 CW617N
- **I** – Cast stainless steel GX5CrNiMo19-11-2 1.4408
- **J** – Aluminum EN-AC 44100 G-AlSi12
- **L** – EPDM
- **M** – Stainless steel X6CrNiTi18-10 1.4541
- **N** – Forged steel S235JR 1.0037
- **N** – Forged steel S275JR 1.0044
- **R** – Cast stainless steel GX5CrNi19-10 1.4308
- **Q** – Alloy steel

Nominal pressure

J	-	2,5	bar
A	-	6	bar
B	-	10	bar
C	-	16	bar
D	-	25	bar
E	-	40	bar
F	-	63	bar
G	-	100	bar
H	-	160	bar
U	-	250	bar
W	-	320	bar
Y	-	500	bar
P	-	ANSI class 150	bar
3	-	ANSI class 300	bar
6	-	ANSI class 600	bar
8	-	ANSI class 800	bar

VALVE APPLICATION

- Industry
- Shipbuilding industry
- Food industry
- Heating
- Power engineering
- Industrial oils
- Refrigeration and air conditioning
- Fire protection systems
- Chemical industry
- Petrochemical industry
- Drinking water
- Sewage
- Gas
- Glycol
- Industrial water
- Diathermic oli
- Dry materials
- Steam
- Compressed air
- Neutral fluids

FORM

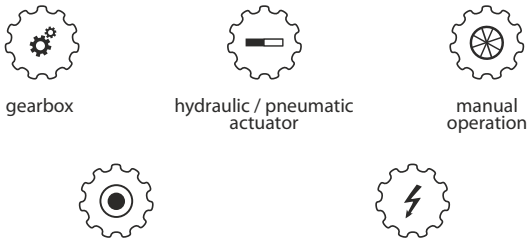
straight | angle | y-type

ENDS

flanged | wafer type | lug type

threaded | grooved ends | welded ends

OPERATION



gearbox | hydraulic / pneumatic actuator | manual operation

bare shaft | electric actuator

BASIC TYPES OF ACTUATORS

PSL | Regada | Belimo | Auma | PS Automation | Zetkama

figure 201

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	10-50	16	C	-10…+200

Ends Form Operation

Application

STOP VALVES zGLO

figure 208

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	ANSI class 150 (20)	P	-29...+425
			ANSI class 300 (50)	3	
			ANSI class 600 (100)	6	
			40	E	
			100	G	

Ends Form Operation

Application

figure 213

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	ANSI class 800 (136)	8	-29...+425

Ends Form Operation

Application

figure 215

NOTE:
available types: SDNR, with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-200	6	A	-10…+300
		15-300	16	C	
nodular cast iron EN-GJS-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-200	25	D	
cast steel GP240GH 1.0619	F	15-300	40	E	-40…+450
		32-200	63	F	
		32-200	100	G	
		65-200	160	H	
alloy steel G17CrMo5-5	Q	32-200	63	F	-10…+550
		32-200	100	G	
		65-200	160	H	
forged steel P245GH 1.0352	G	15-25	40	E	-10…+450
		15-25	63	F	
		15-25	100	G	
		15-50	160	H	
alloy steel 13CrMo4-5	Q	15-25	63	F	-10…+550
		15-25	100	G	
		15-50	160	H	
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-200	40	E	-60…+400

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

figure 216

NOTE:
available types: SDNR, with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-300	6	A	-10…+300
		15-300	16	C	
nodular cast iron EN-GJS-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-80	25	D	
cast steel GP240GH 1.0619	F	15-250	40	E	-20…+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-250	40	E	-60…+400

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

STOP VALVES zGLO

figure 217

NOTE:
available types: SDNR, with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	40	E	-10…+450
		15-25	63	F	
		15-25	100	G	
		15-50	160	H	
cast steel GP240GH 1.0619	F	15-300	40	E	-40…+450
		32-200	63	F	
		32-200	100	G	
		65-200	160	H	
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-300	40	E	-60…+400
alloy steel 13CrMo4-5	Q	15-25	63	F	-10…+550
		15-25	100	G	
		15-50	160	H	
alloy steel G17CrMo5-5	Q	32-200	63	F	-10…+550
		32-200	100	G	
		65-200	160	H	

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

STOP VALVES zFAG

figure 219

Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	250	U	-10…+450
			320	W	
			500	Y	
alloy steel 13CrMo4-5	Q	15-50	250	U	-10…+550
			320	W	
			500	Y	
alloy steel 11CrMo9-10	Q	15-50	250	U	-10…+580
			320	W	
			500	Y	
alloy steel 16Mo3	Q	15-50	250	U	-10…+530
			320	W	
			500	Y	
alloy steel X10CrMoVNb91	Q	15-50	250	U	-10…+650
			320	W	
			500	Y	

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

BELLOW VALVES zBEL

figure 234

NOTE:
available types: with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Bellow valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-250	16	C	-10…+300
nodular cast iron EN-GJL-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-200	25	D	
cast steel GP240GH 1.0619	F	15-200	40	E	-40…+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-300	40	E	-60…+400

Ends Form Operation

Application*

Not all of the applications are suitable for all of the executions.

figure 235

NOTE:
available types: with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Bellow valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-250	16	C	-10…+300
nodular cast iron EN-GJS-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-80	25	D	

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

BELLOW VALVES zBEL

figure 237

NOTE:
available types: with throttling disc, with balancing disc, with control disc (equal percentage flow characteristic)

Bellow valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	15-200	40	E	-40…+450
cast stainless steel GX5CrNiMo 19-11-2 1.4408	I	15-300	40	E	-60…+400

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

figure 570

Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	20-150	16	C	-10…+200
cast steel GP240GH 1.0619	F	20-150	40	E	-10…+400
cast stainless steel GX5CrNi19-10 1.4308	R	20-100	40	E	-196…+300

Ends Form

Application

Not all of the applications are suitable for all of the executions.

SAFETY VALVES zARMAK

figure 630

Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	20-150	16	C	-10…+300
nodular cast iron EN-GJS-400-18-LT 5.3103	C	20-100	40	E	-10…+350
cast steel GP240GH 1.0619	F	20-150	40	E	-40…+400
cast steel GP240GH 1.0619	F	20-400	63	F	-40…+400
cast steel GP240GH 1.0619	F	25-100	100	G	-40…+400
cast stainless steel GX5CrNi19-10 1.4308	R	20-150	40	E	-196…+300

Ends Form

Application

Not all of the applications are suitable for all of the executions.

figure 775

Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJL-400-15 5.1306	B	20-32	16	C	-10…+200

Ends **Form**

Application

SAFETY VALVES zARMAK

figure 782

Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
brass CuZn40Pb2 CW617N	V	10-25	25	D	-30…+120

Ends **Form**

Application

SAFETY VALVES — zARMAK

figure 240

Proportional safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-200	16	C	-10…+300
cast steel GP240GH 1.0619	F	20-200	40	E	-40…+400
cast stainless steel GX5CrNi19-10 1.4308	R	20-100	40	E	-196…+300

Ends **Form**

Application

Not all of the applications are suitable for all of the executions.

SAFETY VALVES — zARMAK

figure 781

Proportional safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
brass CuZn39Pb2 CW612N	T	10-25	16	C	-10…+200

Ends **Form**

Application

figure 236

Bellow control valve with actuator and positioner

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-150	16	C	-10…+300
nodular cast iron EN-GJS-400-18-LT 5. 3103	C	15-150	16	C	-10…+350
		15-150	25	D	
cast steel GP240GH 1.0619	F	15-150	40	E	-40…+450

Ends Form Operation

Application

figure 226

Pressure regulator

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-150	16	C	-10…+150

Ends Form

Application

figure 275

Disc check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
brass CuZn36Pb2As CW602N	H	15-100	16	C	-10…+200
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-300	40	E	-10…+300

Ends Form

Application

Not all of the applications are suitable for all of the executions.

CHECK VALVES zCHE

figure 277

Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
grey cast iron EN-GJL-250 5.1301	A	15-50	16	C	-10…+200

Ends Form

Application

figure 287

Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-300	16	C	-10…+300
nodular cast iron EN-GJS-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-200	25	D	
forged steel P245GH 1.0352	G	15-50	40	E	-20…+450
		15-25	63	F	
		15-25	100	G	
		15-50	160	H	
cast steel GP240GH 1.0619	F	15-300	40	E	-40…+450
		32-200	63	F	-10…+450
		32-200	100	G	
		65-200	160	H	
stainless steel X6CrNiTi18-10 1.4541	M	15-25	40	E	-60…+400
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	32-300	40	E	-60…+400
alloy steel 13CrMo4-5	Q	15-25	63	F	-10…+550
		15-25	100	G	
		15-50	160	H	
alloy steel G17CrMo5-5	Q	32-200	63	F	-10…+550
		32-200	100	G	
		65-200	160	H	

Ends Form

Application

Not all of the applications are suitable for all of the executions.

CHECK VALVES zCHE

figure 288

Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-300	16	C	-10…+300
nodular cast iron EN-GJS-400-18-LT 5.3103	C	15-200	16	C	-10…+350
		15-80	25	D	
cast steel GP240GH 1.0619	F	15-250	40	E	-20…+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-250	40	E	-60…+400

Ends Form

Application

Not all of the applications are suitable for all of the executions.

figure 297

Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	40	E	-10…+450
		15-25	63	F	
		15-25	100	G	
		15-50	160	H	
cast steel GP240GH 1.0619	F	15-300	40	E	-40…+450
		32-200	63	F	-10…+450
		32-200	100	G	
		65-200	160	H	
stainless steel X6CrNiTi18-10 1.4541	M	15-25	40	E	-10…+400
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	32-300	40	E	-10…+400
alloy steel G17CrMo5-5	Q	15-25	63	F	-10…+550
		15-25	100	G	
		15-50	160	H	

Ends Form

Application

Not all of the applications are suitable for all of the executions.

figure 302

Swing check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	40-300	16	C	-10…+300

Ends Form

Application

figure 400

Ball check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJS-500-7 5.3200	D	50-300	16	C	-10…+70
		200-500	10	B	-10…+70

Ends Form

Application

CHECK VALVES zCHE

figure 401

Ball check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJS-500-7 5.3200	D	25-80	16	C	-10…+70

Ends Form

Application

figure 402

Check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJS-250 5.1301	A	50-300	16	C	-10…+80
		200-300	10	B	

Ends Form

Application

CHECK VALVES zCHE

figure 407

Dualplate check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	40-250	16	C	-10…+100
		300-600*	10	B	

* DN 300-600 on request

Ends Form

Application

CHECK VALVES — zFAG

figure 299

Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	250	U	-10…+450
		15-50	320	W	
		15-50	500	Y	
alloy steel X13CrMo4-5	Q	15-50	250	U	-10…+550
		15-50	320	W	
		15-50	500	Y	
alloy steel 11CrMo9-10	Q	15-50	250	U	-10…+580
		15-50	320	W	
		15-50	500	Y	
alloy steel 16Mo3	Q	15-50	250	U	-10…+530
		15-50	320	W	
		15-50	500	Y	
alloy steel X10CrMoVNb9-1	Q	15-50	250	U	-10…+650
		15-50	320	W	
		15-50	500	Y	

Ends Form

Application

Not all of the applications are suitable for all of the executions.

STRAINERS — zSTRA

figure 821

Strainer

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-200	6	A	-10…+300
		15-400	16	C	
nodular cast iron EN-GJS-400-18-LT 5.3106	C	15-200	16	C	-10…+350
		15-200	25	D	
cast steel GP240GH 1.0619	F	15-200	40	E	-40…+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-200	40	E	-60…+400

Ends Form

Application

Not all of the applications are suitable for all of the executions.

figure 823

Strainer

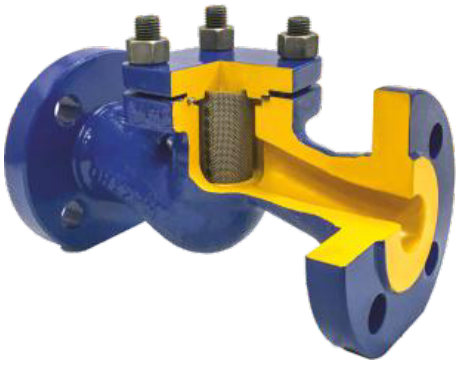
BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	10-80	16	C	-10…+200

Ends Form

Application

STRAINERS zSTRA

figure 820



Strainer

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	32-200	100	G	-10…+450

Ends Form

Application

STRAINERS

figure 826

Strainer

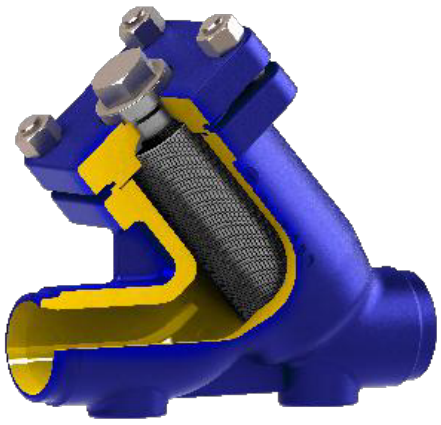
BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
cast steel GP240GH 1.0619	F	32-200	100	G	-10…+450

Ends Form

Application

FILTRY

figure 827



Strainer

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
cast steel GP240GH 1.0619	F	15-200	40	E	-40…+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-200	40	E	-60…+400

Ends Form

Application

FILTER POLLUTION INDICATOR WZF-100

SCREENS

SCREEN	TYPE	DN	MESH	MESHES SCREEN	PERFORMANCE
Standard	F45	10-50	1,00	45	50
	F28	65-80	1,25	28	49
	F15	100-400	1,60	15	43
Other types	screens F100 (0,6), F200 (0,5), F300 (0,4), F400 (0,32) F600 (0,25)				

NOTE: type with magnetic cartridge on client's request

BALL VALVES zBAL

figure 565

Ball valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	15-200	16	C	-10…+150
		250	10	B	-10…+100
nodular cast iron EN-GJL-400-15 5.3106	B	15-200	16	C	-10…+100

Ends Form Operation

Application

figure 221

Static balansing valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
brass CuZn36Pb2As CW602N	H	15-50	25	D	-10…+120

Ends Form Operation

Application

BALANCING VALVES zSTA

figure 447

Static balancing valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	40-300	16	C	-10…+120
			class 125	P	-10…+120
nodular cast iron EN-GJS-400-18-LT 5.3103	C	350-400	16	C	-10…+300

Ends Form Operation

Application

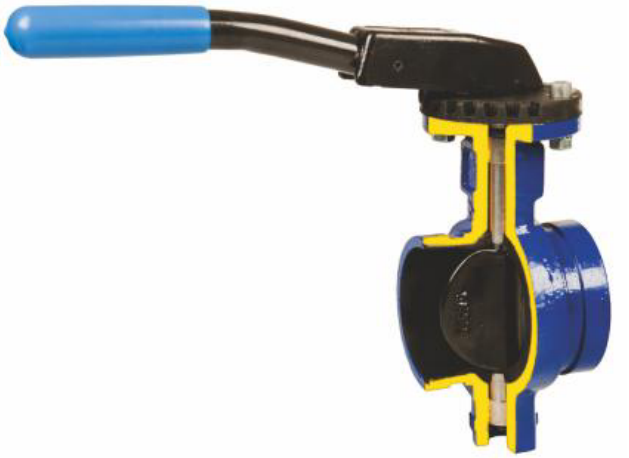
DIGITAL MEASURING DEVICE

Available flow measuring devices for balancing instalation.

T 650

BUTTERFLY VALVES zBUT

figure 494



Butterfly valve with grooved ends

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
nodular cast iron EN-GJS-400-15 5.3106	B	50-200	16	C	max.+110

Ends Form Operation

Application

BUTTERFLY VALVES zBUT

figure 495

Wafer butterfly valve with vulcanized seat

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	℃
grey cast iron EN-GJL-250 5.1301	A	32-150	16	C	-60…+210
		200-1200	10	B	
nodular cast iron EN-GJS-400-15 5.3106	B	32-150	16	C	-60…+210
		200-1200	10	B	

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

figure 496

Wafer butterfly valve with aluminum body

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
aluminum EN-AC 44100 G-AlSi12	J	50-100	10	B	max. +95
		125-200	6	A	

Ends Form Operation

Application

BUTTERFLY VALVES zBUT

figure 497

Wafer butterfly valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	32-150	16	C	-60…+210
		200-1200	10	B	
nodular cast iron EN-GJS-400-15 5.3106	B	32-150	16	C	-60…+210
		200-1200	10	B	

Ends Form Operation

Application

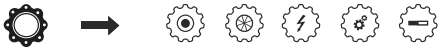
Not all of the applications are suitable for all of the executions.

figure 498

Wafer butterfly valve LUG type

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	32-150	16	C	-40…+210
		350-1000	16	B	
nodular cast iron EN-GJS-400-15 5.3106	B	32-150	16	C	-40…+210
		200-1000	10	B	

Ends Form Operation



Application

Not all of the applications are suitable for all of the executions.

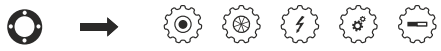
BUTTERFLY VALVES zBUT

figure 499

Double flanged butterfly valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	80-150	16	C	-40…+210
		200-1600	10	B	
nodular cast iron EN-GJS-400-15 5.3106	B	80-150	16	C	-40…+210
		200-1600	10	B	

Ends Form Operation



Application

Not all of the applications are suitable for all of the executions.

SEAT MATERIALS

APPLICATIONS	MATERIAL	RANGE TEMPERATURES		DESIGNATION ISO 1629	CODE
water / sea water / weak acids and basis	ethylene propylene	- 40°C	+ 110°C	EPDM	ECO
heating without steam water	ethylene propylene high temperature	+ 80°C	+ 130°C	EPDM	HT
nourishing products	nitrile hydrogenated	-10°C	+ 90°C	NBR	N
abrasive powdered products	flucast AB / P	-10°C	+ 90°C	-	AP
oxygenated solvents ketones esters with abrasion	flucast AB / E	- 20°C	+ 95°C	-	AE
mineral or vegetables oils and greases abrasives	flucast AB / N	-10°C	+ 100°C	-	AN
air and hot water without steam hight and low temperatures	silicone	- 60°C	+ 200°C	MVQ	S
nourishing and milky products	food silicone	- 60°C	+ 200°C	MVQ	SA
low pressure steam water	steam silicone	- 60°C	+140°C	MVQ	SV
acids / high temperature	viton	-15°C	+ 210°C	FPM	V
biodiesel / acids / steam water	viton-biodiesel	- 5°C	+ 210°C	FPM	V
oxygened gasoline	viton-GF gasoline	- 5°C	+ 210°C	FPM	V
water / diluted bases diluted non oxidation acids	hypalon	-25°C	+ 120°C	CSM	H
brine systems, low temperature and resistance to gas oil and fuel	epichlorohydrin	- 40°C	+ 125°C	ECO	ECO
sea water	neoprene	- 25°C	+ 80°C	CR	NP
low permeability to inert gases: nitrogen, air, oxygen	butyl	- 10°C	+ 95°C	IIR	B

DISC MATERIALS

APPLICATIONS	MATERIAL	STANDARD	CHARACTERISTICS	CODE
chemical and nourishing products	stainless steel	A 351 Gr. CF8 (AISI 304)	very good chemical and corrosion resistance	1
demineralized water, chemical products, nourishing products	stainless steel	A 351 Gr. CF8M (AISI 316)	very good chemical and corrosion resistance	5
chemical and nourishing products, sea water and demineralized water	stainless steel	A 351 Gr. CF3M (AISI 316 L)	high good chemical resistance and corrosion resistance	9
cold water /air	aluminium	EN-AC-44100	moderate corrosion resistance	2
sea water	bronze tin	DIN 1705 Rg 10	good chemical and corrosion resistance	4
sea water	bronze-aluminium	UNE EN 1982 CuAl 10 Fe5Ni5-C DN ≤ 350	good chemical and corrosion resistance	4
water and gas	cast steel	A 216 Gr. WCB	good mechanical resistance	6
hot water (max. 90°c) air and gas	nodular cast iron	EN GJS-400-15 (GGG 40) + Rislan	good mechanical strength similar to carbon steel	3
powdery products, pneumatic transport, sea water	nodular cast	EN GJS-400-15 (GGG 40) + Rislan	very good abrasion resistance	7
chemical products	duplex	A 351 Gr. CF3M	very good abrasion and corrosion resistance	8
sea water and corrosive atmospheres	super duplex	1.4469	very good chemical and corrosion resistance	10

figure 272

Float valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	25-200	10	B	-10…+90

Ends Form

Application

FLOAT VALVES zFLO

figure 274

Float valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	25-200	10	B	-10…+90

Ends Form

Application

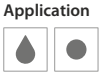


figure 917

Air release valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	25	16	C	-10…+100

Ends **Form**

Application

AIR RELEASE VALVES zAIR

figure 918

Air release valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	25	16	C	-10…+100

Ends **Form**

Application

BOTTOM VALVES zBOT

figure 935

Bottom valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	40-300	10	B	-10…+80

Ends **Form**

Application

RUBBER EXPANSION JOINTS zJOI

figure 700

Rubber expansion joint

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
EPDM	L	32-300	16	C	-10…+100
		200-600	10	B	-10…+100

Ends **Form**

Application

RUBBER EXPANSION JOINTS — zJOI

figure 701

Rubber expansion joint

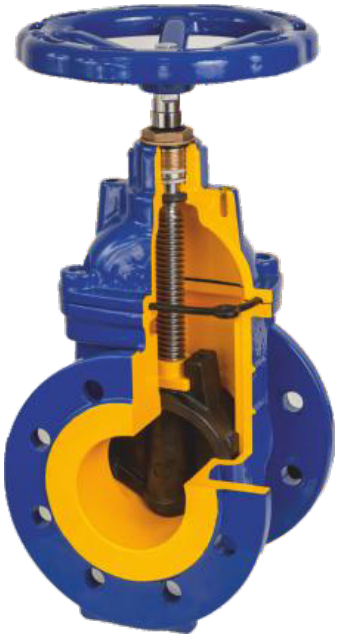
BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
EPDM	L	20-80	16	C	-10…+100

Ends Form

Application

GATE VALVES — zGAT

figure 111



Gate valve soft sealed

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJS-500-7 5.3200	D	40-600	16	C	-10…+80
		200-600	10	B	-10…+80

* DN 700-800 on request

Ends Form Operation

Application

figure 019

Flat wedge-ring gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	400-1400	10	B	-10…+120
nodular cast iron EN-GJS-400-15 5.3106	B	400-600	10	B	-10…+120

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

GATE VALVES zGAT

figure 021

Flat wedge-ring gate valve

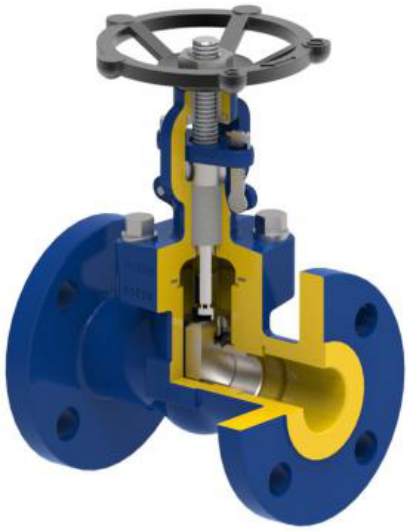
BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5.1301	A	400-1400	10	B	-10…+120
nodular cast iron EN-GJS-400-15 5.3106	B	400-600	10	B	-10…+120

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

figure 108



Wedge-ring gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	ANSI class 150 (20)	P	-29...+425
			ANSI class 300 (50)	3	
			ANSI class 600 (100)	6	
			40	E	
			100	G	

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

GATE VALVES zGAT

figure 113

Wedge-ring gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	15-50	ANSI class 800 (136)	8	-29...+425

Ends Form Operation

Application

Not all of the applications are suitable for all of the executions.

GATE VALVES zFAG

figure 118

Gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel P245GH 1.0352	G	50-100	250	U	-10…+450
alloy steel 13CrMo4-5	Q	50-100	250	U	-10…+550
alloy steel 11CrMo9-10	Q	50-100	250	U	-10…+580

Ends Form Operation

Application

LIQUID LEVEL GAUGES zGAU

figure 706

Liquid level gauge for welding

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel S275JR 1.0044	N	I-V	25	D	0…+250
stainless steel X6CrNiTi18-10 1.4541	M	I-V	25	D	0…+250

Ends Form

Application

figure 716

Liquid level gauge with reflexive or transparent glass

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel S235JR 1.0037	N	-	16	C	0…+200
		0-XI	40	E	0…+300
alloy steel 13CrMo45 1.7335	Q	-	16	C	0…+200
		0-XI	40	E	0…+300
		0-XI	63	F	0…+300
stainless steel X6CrNiTi18-10 1.4541	M	-	16	C	0…+200
		0-XI	40	E	0…+300
		0-XI	63	F	0…+250

Ends Form

Application

LIQUID LEVEL GAUGES zGAU

figure 708

Liquid level gauge with glass of plexiglass tube

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
forged steel S275JR 1.0044	N	-	16	C	0…+200
stainless steel X6CrNiTi18-10 1.4541	M	-	16	C	0…+200

Ends Form

Application

APPLICATION

	Industry	Shipbuilding industry	Food industry	Heating	Power engineering	Industrial oils	Refrigeration and air conditioning	Fire protection systems	Chemical industry	Petrochemical industry	Drinking water	Sewage	Gas	Glycol	Industrial water	Diathermic oil	Dry materials	Steam	Compressed air	Neutral fluids
STOP VALVES																				**zGLO**
fig. 201	●			●			●								●			●	●	●
fig. 208	●	●		●	●				●	●			●	●	●	●		●	●	●
fig. 213	●	●		●	●				●	●			●	●	●	●		●	●	●
fig. 215	●	●		●	●		●		●					●	●	●		●	●	●
fig. 216	●	●		●			●		●					●	●	●		●	●	●
fig. 217	●	●		●	●		●		●					●	●	●		●	●	●
STOP VALVES																				**zFAG**
fig. 219	●	●		●	●		●							●	●	●		●	●	●
BELLOW VALVES																				**zBEL**
fig. 234	●	●		●			●		●					●	●	●		●	●	●
fig. 235	●	●		●			●		●					●	●	●		●	●	●
fig. 237	●	●		●			●		●					●	●	●		●	●	●
SAFETY VALVES																				**zARMAK**
fig. 570																		●	●	●
fig. 630	●	●		●	●		●			●	●	●	●	●	●			●	●	●
fig. 775	●	●		●	●		●				●			●	●			●	●	●
fig. 782							●												●	●
fig. 240	●	●		●	●		●			●	●	●	●	●	●	●		●	●	●
fig. 781	●	●		●	●		●			●	●		●	●	●			●	●	●
CONTROL VALVES																				**zCON**
fig. 236	●	●		●			●							●	●	●		●	●	●
fig. 226	●			●			●							●	●	●		●	●	●
CHECK VALVES																				**zCHE**
fig. 275	●	●		●	●		●							●	●	●		●	●	●
fig. 277	●			●											●			●	●	●
fig. 287	●	●		●			●							●	●	●		●	●	●
fig. 288	●	●		●			●		●					●	●	●		●	●	●
fig. 297	●	●		●			●		●					●	●	●		●	●	●
fig. 302	●											●			●					●
fig. 400	●											●			●					●
fig. 401	●											●			●					●
fig. 402		●		●										●	●					●
fig. 407		●		●										●	●					●
CHECK VALVES																				**zFAG**
fig. 299	●	●		●	●		●							●	●	●		●	●	●
STRAINERS																				**zSTRA**
fig. 821	●	●		●	●									●	●	●		●	●	●
fig. 823	●	●		●	●									●	●	●		●	●	●
fig. 820	●	●		●	●									●	●	●		●	●	●
fig. 826	●	●		●	●									●	●	●		●	●	●
fig. 827	●	●		●	●									●	●	●		●	●	●

APPLICATION

	Industry	Shipbuilding industry	Food industry	Heating	Power engineering	Industrial oils	Refrigeration and air conditioning	Fire protection systems	Chemical industry	Petrochemical industry	Drinking water	Sewage	Gas	Glycol	Industrial water	Diathermic oil	Dry materials	Steam	Compressed air	Neutral fluids
BALL VALVES																				**zBAL**
fig. 565	●	●		●							●			●	●				●	●
BALANCING VALVES																				**zSTA**
fig. 221				●			●							●	●					●
fig. 447				●			●							●	●					●
BUTTERFLY VALVES																				**zBUT**
fig. 494															●					
fig. 495	●	●	●	●	●		●		●	●	●	●		●	●			●	●	●
fig. 496				●			●												●	
fig. 497	●	●	●	●	●		●		●	●	●	●		●	●			●	●	●
fig. 498	●	●		●	●						●	●		●	●			●	●	●
fig. 499	●	●		●	●						●	●		●	●			●	●	●
FLOAT VALVES																				**zFLO**
fig. 272															●					●
fig. 274															●					●
AIR RELEASE VALVES																				**zAIR**
fig. 917															●					
fig. 918															●					
BOTTOM VALVES																				**zBOT**
fig. 935	●										●			●	●					●
RUBBER EXPANSION JOINTS																				**zJOI**
fig. 700	●	●		●			●				●			●	●				●	●
fig. 701	●	●		●			●				●			●	●				●	●
GATE VALVES																				**zGAT**
fig. 111	●										●				●					●
fig. 019											●	●	●		●				●	
fig. 021											●	●	●		●				●	
fig. 108	●	●		●	●				●	●			●	●	●	●		●	●	●
fig. 113	●	●		●	●				●	●			●	●	●	●		●	●	●
GATE VALVES																				**zFAG**
fig. 118	●	●		●	●		●							●	●	●		●	●	●
LIQUID LEVEL GAUGES																				**zGAU**
fig. 706	●			●							●	●			●	●				●
fig. 716	●	●		●							●	●		●	●	●				
fig. 708	●	●		●							●	●		●	●	●				

CERTIFICATES

- Certificate for the quality system according to ISO 9001:2015
  and for the environmental management system according to ISO 14001:2015
- Approval certificate for the quality system consistent with the directive 2014/68/EU
- TA-LUFT certificate
- EAC certificate
- Certificate UDT type WE Modul B
- Certificate UDT type UE Modul B
- Certificate UDT Modul D
- Loyds Register Certificate for castings of grey cast iron and nodular cast iron (max product weight: 160 kg)
- Det Norske Veritas Germanischer Lloyd approval certificate, within the scope of cast iron production
- Marketing authorization for the Ukrainian market
- Marketing authorization for the Belarussian market
- Certificate of type approval for product Russian River Register

NOTES

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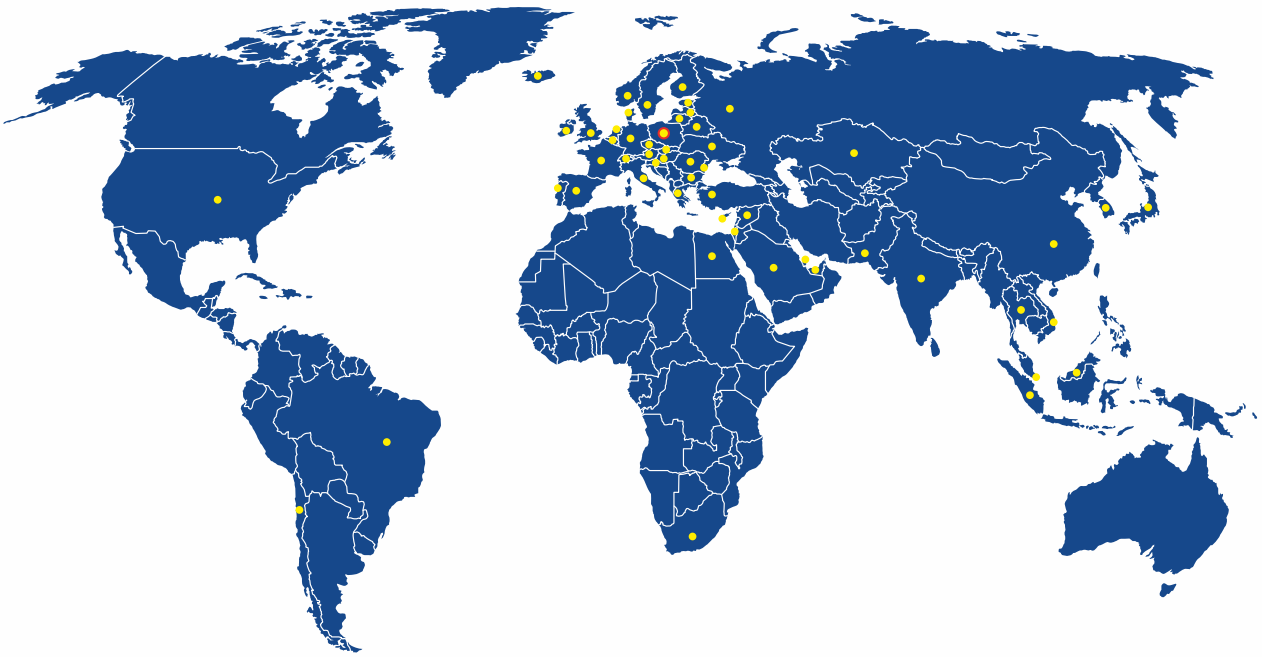

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