



Valves programme



ZETKAMA joint-stock company is the parent company of **ZETKAMA Group**. The company has been present on the Warsaw Stock Exchange from 2005. It is one of the largest manufacturers of industrial valves in Central and Eastern Europe. ZETKAMA offers more than 2,000 products selling to over 50 countries worldwide, mainly to EU countries. The company leads the business in a transparent way with preservation of the Corporate Governance and take care about development of employees. ZETKAMA's mission is innovative and dynamic development of the company which provides persistent increase of the value for shareholders and the satisfaction for our customers.

ZETKAMA Group

 ZETKAMA



Established in 1946

Product range: stop valves, bellow valves, check valves, strainers, butterfly valves, ball valves, backflow preventers, 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.

 armak



Established in 1881

Product range: safety valves, liquid level gauges, gate valves.

Application: power industry, food industry, mining industry, railway industry, heating, shipbuilding.

 SRUBENA UNIA



Established in 1832

Product range: bolts, nuts, washers, rivets.

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

 MCS



Established in 2009

Product range: exhaust systems, metal components.

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

TECHMADEX



Established in 1982

Product range: the engineering, specification and integration of industrial automation; service, maintenance and upgrade of natural gas distribution equipment; natural gas leaks detection in high-pressure equipment, sales and maintenance of material handling equipment.

Application: gas industry, energy industry, aviation industry, water and sewage plants, dairy industry, sugar plants, paper mills, cobblestone industry.

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VALVE APPLICATION

Industry	Shipbuilding industry	Heating
Power engineering	Petrochemical industry	Refrigeration and Air Conditioning
Fire protection systems	Drinking water	Sewage
Gas	Glycol	Industrial water
Diathermic oil	Dry materials	Steam
Compressed air	Neutral fluids	

FORM

straight	angle	y-type
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ENDS

flanged	wafer type	lug type
threaded	grooved ends	welded ends

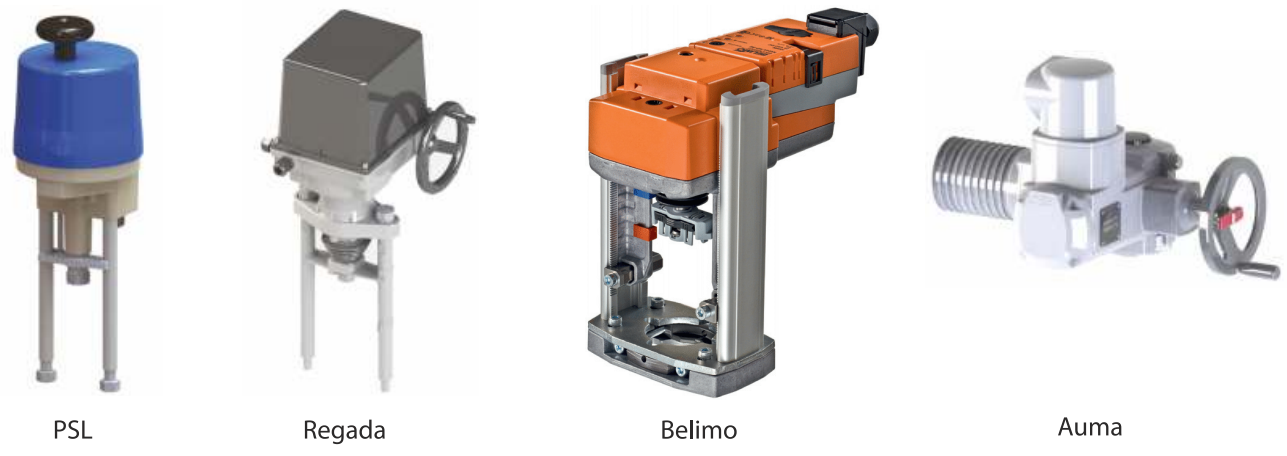
WORKING POSITIONS

horizontal	vertical	vertical/horizontal	optional
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OPERATION

gear box	hydraulic / pneumatic actuator	manual operation
bare shaft	electric actuator	

BASIC TYPES OF ACTUATORS



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	-	Carbon steel P355NH 1.0565
H	-	Brass CuZn36Pb2As CW602N
I	-	Cast stainless steel GX5CrNiMo19-11-2 1.4408
J	-	Aluminum EN-AC 44100 G-AISI12
L	-	EPDM
M	-	Acid resistant steel X6CrNiTi18-10 1.4541
N	-	Carbon steel S235JRG2 1.0038
O	-	Carbon steel S275JR 1.0044
P	-	Carbon steel P235TR1 1.0254
R	-	Acid resistant steel GX5CrNi19-10 1.4308
S	-	Stainless steel X5CrNi18-10 1.4301
T	-	Brass CuZn39Pb2 CW612N
V	-	Brass CuZn40Pb2 CW617N
X	-	Stainless steel X20Cr13 1.4021

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

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 Working positions Operation

Application

figure 215



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	
bronze CuSn5ZnPb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
cast steel GP240GH 1.0619	F	15-200	40	E	-20...+400

Ends Form Working positions Operation

Application

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

STOP VALVES

zGLO

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	15-200	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
		15-80	25	D	
bronze CuSn5ZnPb5-C CC491K	E	15-125	16	C	-10...+225
		150-300	10	B	
		250-300	6	A	

Ends Form Working positions 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
cast steel GP240GH 1.0619	F	15-100	40	E	-20...+450
cast stainless steel GX5CrNiMo 19-11-2 1.4408	I	15-100	40	E	-60...+400

Ends Form Working positions

Application

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

**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-GJS-400-18-LT 5.3103	C	15-200	16	C	-10...+350
		15-200	25	D	
cast steel GP240GH 1.0619	F	15-150	40	E	-20...+400

Ends Form Working positions 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 Working positions 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 valves

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
cast steel GP240GH 1.0619	F	15-100	40	E	-20...+450
cast stainless steel GX5CrNiMo 19-11-2 1.4408	I	15-100	40	E	-60...+400

Ends Form Working positions

Application


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

CONTROL VALVES
zCON
figure 227

Control valve with actuator

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5.1301	A	15-80	16	C	-10...+150
					-10...+200

Ends Form Working positions Operation

Application


**figure
275**



Disc check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
brass CuZn36Pb2As CW602N	H	15-100	16	C	-10...+200
cast stainless steel GX5CrNi-Mo19-11-2 1.4408	I	15-300	40	E	-10...+300

Ends Form Working positions



Application



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

**figure
277**



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	15-50	16	C	-10...+200

Ends Form Working positions*



Application



* type without spring only in horizontal positions

figure 287



* type without spring only in horizontal positions

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	
bronze CuSn5ZnPb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
cast steel GP240GH 1.0619	F	15-150	40	E	-20...+400

Ends Form Working positions*

Application



figure 288



* type without spring only in horizontal positions

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	
bronze CuSn5ZnPb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	

Ends Form Working positions*

Application



**figure
302**



* flow vertically from the bottom

Swing check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5. 1301	A	40-300	16	C	-10...+300

Ends Form Working positions*



Application



**figure
400**



* flow vertically from the bottom

Ball check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
nodular cast iron EN-GJS-400-15 5. 3106	B	50-150	16	C	-10...+70
		200-500	10	B	-10...+70

Ends Form Working positions*



Application



figure 401



* flow vertically from the bottom

Ball check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJS-400-15 5. 3106	B	25-80	16	C	-10...+70

Ends Form Working positions*



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-GJL-250 5. 1301	A	50-200	16	C	-10...+100
		250	10	B	

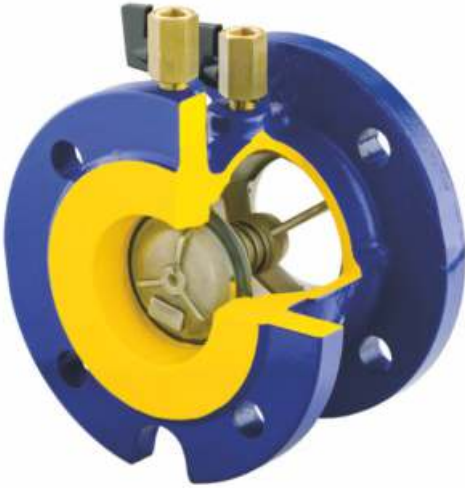
Ends Form Working positions



Application



**figure
408**



Check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5.1301	A	50-200	16	C	-10...+70
		250	10	B	

Ends Form Working positions



Application



**figure
407**



Dualplate check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5.1301	A	40-300	16	C	-10...+100
		350-600	10	B	
stainless steel GX5CrNiMo19-11-2 1.4408	I	40-300	16	C	-20...+100
		350-600	10	B	

Ends Form Working positions



Application



STRAINERS

zSTRA

figure 821



* cover downward

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. 3103	C	15-200	16	C	-10...+350
		15-200	25	D	
nodular cast iron EN-GJS-500-7 5. 3200	D	15-200	16	C	-10...+350
		15-200	25	D	
cast steel GP240GH 1.0619	F	15-200	40	E	-20...+400

Ends Form Working positions*



Application



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

STRAINERS

zSTRA

figure 823



* cover downward

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 Working positions*



Application



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

**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-GJS-400-15 5. 3106	B	15-200	16	C	-10...+100

Ends Form Working positions Operation

Application

**figure
405**



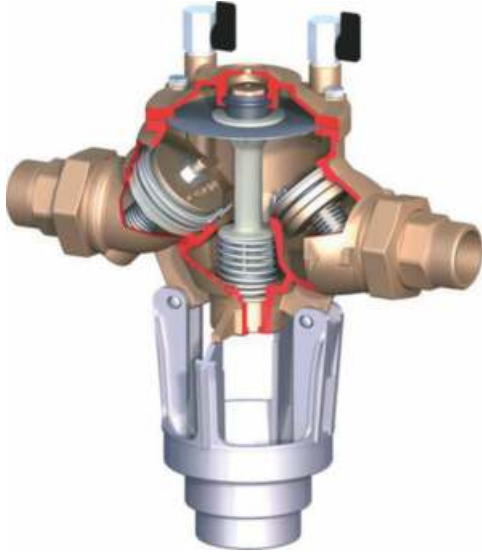
Backflow preventer BA

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	65-150*	10	B	0...+65

Ends Form Working positions

Application

* no available DN 125

**figure
406**

Backflow preventer BA

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
brass CuZn36Pb2As CW602N	H	15	10	B	0...+65
bronze CuSn5ZnPb5-C CC491K	E	20-50	10	B	0...+65

Ends Form Working positions

Application

**figure
221**

Static balancing 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 Working positions Operation

Application


**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

Ends Form Working positions Operation



Application



DIGITAL MEASURING DEVICE

Available flow measuring devices for balancing instalation.



T 550

SBS 4000 ST



figure 494



Butterfly valve with grooved ends

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		MAXIMUM TEMPERATURE
grade	index	mm	bar	index	°C
nodular cast iron EN-GJS-400-15 5. 3106	B	50-200	16	C	max.+110

Ends Form Working positions Operation

Application



figure 495



Wafer butterfly valve with vulcanized seat

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		MAXIMUM TEMPERATURE
grade	index	mm	bar	index	°C
grey cast iron EN-GJL-250 5. 1301	A	40-150	16	C	max. +110
		200-250	10	B	
nodular cast iron EN-GJS-400-15 5. 3106	B	40-150	16	C	
		200-250	10	B	

Ends Form Working positions Operation

Application



**figure
496**



Wafer butterfly valve with aluminum body

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		MAXIMUM TEMPERATURE
grade	index		bar	index	
aluminum EN-AC 44100 G-AISI12	J	50-100	10	B	max. +95
		125-200	6	A	

Ends Form Working positions Operation

Application

**figure
497**



Wafer butterfly valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5. 1301	A	25-150	16	C	-60...+210
		200-1200	10	B	
nodular cast iron EN-GJS-400-15 5. 3106	B	25-300	16	C	-60...+210
		350-1200	10	B	

Ends Form Working positions 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 S. 1301	A	25-150	16	C	-60...+210
		200-600	10	B	
nodular cast iron EN-GJS-400-15 S. 3106	B	25-150	16	C	-60...+210
		200-600	10	B	

Ends Form Working positions Operation

Application

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

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 S. 1301	A	200-1400	10	B	-40...+210
		150-900	16	C	
nodular cast iron EN-GJS-400-15 S. 3106	B	1000-1600	10	B	-40...+210

Ends Form Working positions 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 solvenst 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	Aluminum	EN-AC-44100	Moderate corrosion resistance	2
Sea water	Bronze Tin	DIN 1705 Rg 10	Good chemical and corrosion resistance	4
Sea water	Bronze-Aluminum	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) + Rislán	Good mechanical strength similar to carbon steel	3
Powdery products. Pneumatic transport. Sea water	Nodular cast	EN GJS-400-15 (GGG 40) + Rislán	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...+120

Ends Form Working positions



Application



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...+120

Ends Form Working positions



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 Working positions



Application



**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 Working positions



Application



**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 S. 1301	A	40-300	10	B	-10...+90

Ends Form Working positions

Application

**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
		350-600	10	B	-10...+100

Ends Form Working positions

Application


**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 Working positions



Application



**figure
111**



Gate valve EPDM/NBR 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	40-300	16	C	-10...+40

Ends Form Working positions Operation



Application



figure 112



Gate valve EPDM/NBR 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	40-300	16	C	-10...+40

Ends Form Working positions Operation

Application

figure 115



Gate valve EPDM/NBR 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	32-50	16	C	-10...+40

Ends Form Working positions Operation

Application

figure 116



Gate valve EPDM/NBR 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	32-50	16	C	-10...+40

Ends Form Working positions Operation

Application

figure 120



Unidirectional wafer knife 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	50-1200	10	B	-10...+90

Ends Form Working positions Operation

Application

figure 121



Bidirectional wafer knife 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	50-600	10	B	-10...+90

Ends Form Working positions 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 Working positions Operation

Application

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

**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 Working positions 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
acid resistant steel GX5CrNi19-10 1.4308	R	20-100	40	E	-196...+300

Ends Form Working positions

Application

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

**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
acid resistant steel GX5CrNi19-10 1.4308	R	20-150	40	E	-196...+300

Ends Form Working positions



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-GJS-400-15 5.3106	B	20-32	16	C	-10...+200

Ends Form Working positions



Application



**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	-10...+120

Ends Form Working positions



Application



**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
acid resistant steel GX5CrNi19-10 1.4308	R	20-100	40	E	-196...+300

Ends Form Working positions



Application



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

**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 Working positions



Application



**figure
706**



Liquid level gauge for welding

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel S275JR 1.0044	O	I-V	25	D	0...+250
acid resistant steel X6CrNiTi18-10 1.4541	M	I-V	25	D	0...+250

Ends Form Working positions



Application



**figure
708**



Liquid level gauge with glass pipe

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel S235JRG2 1.0038	O	by needs	16	C	0...+200
acid resistant steel X6CrNiTi18-10 1.4541	M	by needs	16	C	0...+200

Ends Form Working positions



Application



**figure
713**



Liquid level gauge with glass pipe

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
stainless steel X20Cr13 1.4021	X	by needs	16	C	0...+150
acid resistant steel X6CrNiTi18-10 1.4541	M	by needs	16	C	0...+150

Ends Form Working positions



Application



**figure
714**

Liquid level gauge with glass pipe

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel S235JRG2 1.0038	N	by needs	-	-	0...+150
acid resistant steel X6CrNiTi18-10 1.4541	M	by needs	-	-	0...+150

Ends Form Working positions



Application


**figure
715**

Liquid level gauge with reflexive glass

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel S235JRG2 1.0038	N	0-IV	25	D	0...+150
		0-IV	40	E	0...+250
acid resistant steel X6CrNiTi18-10 1.4541	M	0-IV	40	E	0...+150

Ends Form Working positions



Application



**figure
716**



Liquid level gauge with reflexive glass

BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel S275JR 1.0044	O	0-IV	25	D	0...+150
		0-IV	40	E	0...+250
acid resistant steel X6CrNiTi18-10 1.4541	M	0-IV	40	E	0...+250

Ends Form Working positions



Application



**figure
720**



Liquid level gauge with reflexive glass

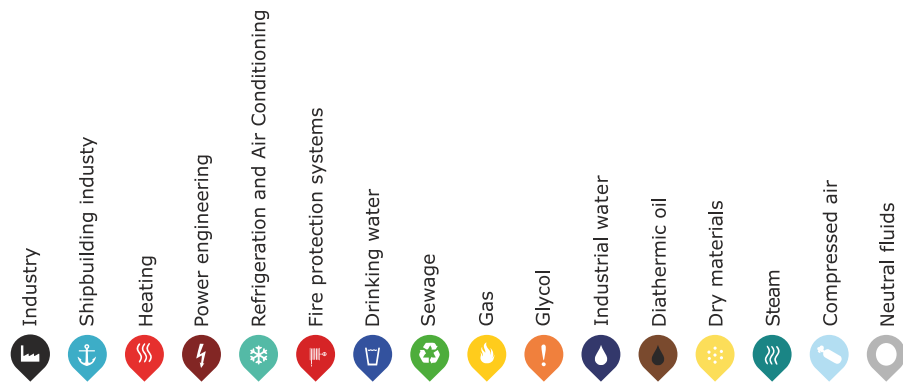
BODY MATERIAL		SIZE	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	°C
carbon steel P355NH 1.0565	G	0-V	63	F	0...+250
acid resistant steel X6CrNiTi18-10 1.4541	M	0-V	63	F	0...+250

Ends Form Working positions

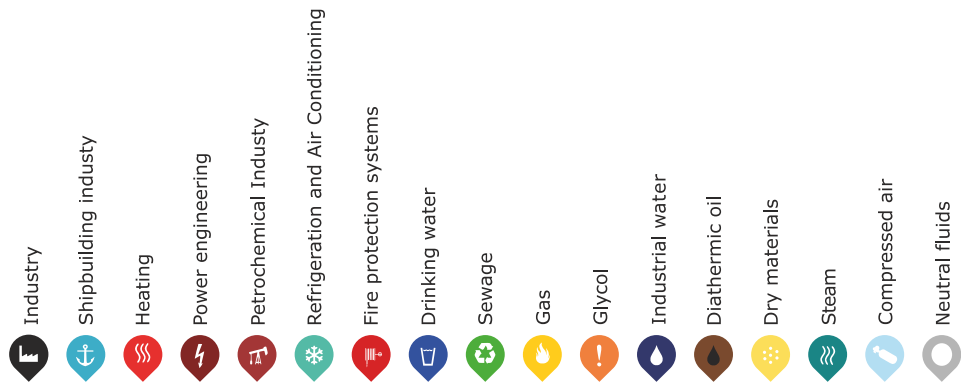


Application





Stop valves														zGLO		
201	•		•								•			•	•	•
215	•	•	•		•					•	•	•		•	•	•
216	•	•	•		•					•	•	•		•	•	•
217	•	•	•		•					•	•	•		•	•	•
Bellow valves														zBEL		
234	•	•	•		•					•	•	•		•	•	•
235	•	•	•		•					•	•	•		•	•	•
237	•	•	•		•					•	•	•		•	•	•
Control valves														zCON		
227			•		•						•					•
Check valves														zCHE		
275	•	•	•	•	•					•	•	•		•	•	•
277	•		•								•			•	•	•
287	•	•	•		•					•	•	•		•	•	•
288	•	•	•		•					•	•	•		•	•	•
302	•								•		•					•
400	•								•		•					•
401	•								•		•					•
402		•	•							•	•				•	•
407		•	•							•	•				•	•
408									•							
Strainers														zSTRA		
821	•	•	•	•						•	•	•		•	•	•
823	•	•	•	•						•	•	•		•	•	•
Bal valves														zBAL		
565	•	•	•							•	•				•	•
Backflow preventers														zBAC		
405									•							
406									•							
Balancing valves														zSTA		
221			•		•					•	•					•
447			•		•					•	•					•
Butterfly valves														zBUT		
494											•					
495	•	•	•	•	•					•	•			•	•	•
496			•		•										•	
497	•	•	•	•					•	•				•	•	•
498	•	•	•	•					•	•				•	•	•
499	•	•	•	•					•	•				•	•	•



Float valves															zFLO		
272															•		
274															•		
Air release valves															zAIR		
917															•		
918															•		
Bottom valves															zBOT		
935															•		
Rubber expansion joints															zJOI		
700	•	•	•			•		•				•	•		•	•	
701	•	•	•			•		•				•	•		•	•	
Gate valves															zGAT		
111	•							•					•			•	
112	•							•					•			•	
115	•							•					•			•	
116	•							•					•			•	
120	•								•				•	•		•	
121	•								•				•	•		•	
019								•	•	•			•			•	
021								•	•	•			•			•	
Safety valves															ARMAK		
570															•	•	•
630	•	•	•	•	•	•		•	•	•		•	•		•	•	•
775	•	•	•	•		•		•				•	•		•	•	•
782						•										•	•
240	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•
781	•	•	•	•	•	•		•		•		•	•		•	•	•
Liquid level gauges															zGAU		
706	•			•				•	•				•				•
708	•			•				•	•				•				•
713	•			•					•				•				•
714	•			•					•				•				•
715	•			•		•			•	•			•				•
716	•			•					•				•				•
720	•			•					•				•				•

Certificates

- BVC certificate for the quality system according to ISO 9001:2008
- Approval certificate for the quality system consistent with the directive 97/23/EC No. CE-PED-H-ZKM 002-13-POL
- ZETKAMA's approval pursuant to BV provisions No. 320 MODE II SCHEME certificate no. SMS.W.II/12494/C.1
- Marketing authorization for the Ukrainian market
- GERMANISCHER LLOYD – certificate for manufacture of spheroidal graphite iron EN-GJS-400-18-LT according to DIN EN 1563
- Loyd's Register Certificate MD00/2947/0005/5 for castings of grey cast iron and nodular cast iron (max product weight: 160kg)
- Det Norske Veritas approval certificate no. AMM-6285, within the scope of cast iron production
- Marketing authorization for the Belarussian market
- Bureau Veritas Certificate of conformity with requirements of the directive 97/23/EC, art. 4, annex 1 and requirements of AD 2000-WO/TRD10
- Certificate Russian River Register
- Certificate of state registration of the Customs Union (fig. 111, 112, 115, 116, 003, 019, 021, 497, 498, 499, 565)
- Certificate of conformity 1c with technical regulations Customs Union TP TC 010/2011 "Safety of Machines and Equipment"
- Certificate of conformity 1c with technical regulations Customs Union TP TC 032/2013 "Safety of Devices Working under Pressure"
- Declaration of conformity with the technical regulations of the Customs Union TP TC 032/2013 "Safety of Devices Working under Pressure"
- TUV-NORD Certificate of conformity of the Quality Assurance System in accordance with Directive 97/23 / EC on safety valves module D No. 07 202 9120 Z 0114/15/D/001
- TUV-NORD Certificate of EC type-examination in accordance with Directive 97/23/EC on safety valves module B No. 07 202 9120 Z 0115/15/D/001



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