



Valves programme



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 70 countries around the world.



K 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.

SRUBENA UNIA



Established in 1832

Product range: bolts, nuts, washers, rivets.

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

Table of Contents

STOP VALVES	zGLO	
Stop valve fig. 201		p. 05
fig. 215		p. 05
fig. 216		p. 06
fig. 217		p. 06
STOP VALVES	zFAG	
Stop valve fig. 219		p. 07
BELLOW VALVES	zBEL	
Bellow valve fig. 234		p. 07
fig. 235		p. 08
fig. 237		p. 08
SAFETY VALVES	zARMAK	
Full lift safety valve fig. 570		p. 09
fig. 630		p. 09
fig. 775		p. 10
fig. 782		p. 10
Proportional safety valve fig. 240		p. 11
fig. 781		p. 11
CONTROL VALVES	zCON	
Control valve with actuator fig. 227		p. 12
Bellow control valve with actuator and positioner fig. 236		p. 12
Pressure regulator fig. 226		p. 13
CHECK VALVES	zCHE	
Disc check valve fig. 275		p. 13
Globe check valve fig. 277		p. 14
fig. 287		p. 14
fig. 288		p. 15
fig. 297		p. 15
Swing check valve fig. 302		p. 16
Ball check valve fig. 400		p. 16
fig. 401		p. 17
Check valve fig. 402		p. 17
Dualplate check valve fig. 407		p. 18
CHECK VALVES	zFAG	
Globe check valve fig. 299		p. 18
STRAINERS	zSTRA	
Strainer fig. 821		p. 19
fig. 823		p. 19
fig. 820		p. 20
fig. 826		p. 20
Filter pollution indicator Wzf-100		p. 20
Screens		p. 20
BALL VALVES	zBAL	
Ball valve fig. 565		p. 21
BALANCING VALVES	zSTA	
Static balancing valve fig. 221		p. 21
fig. 447		p. 22
Pressure regulating valve fig. 224		p. 22
BUTTERFLY VALVES	zBUT	
Butterfly valve with grooved ends fig. 494		p. 23
Wafer butterfly valve with vulcanized seat fig. 495		p. 23
Wafer butterfly valve with aluminium body fig. 496		p. 24
Wafer butterfly valve fig. 497		p. 24
Wafer butterfly valve LUG type fig. 498		p. 25
Double flanged butterfly valve fig. 499		p. 25
Disc materials		p. 26
Seat materials		p. 26
FLOAT VALVES	zFLO	
Float valve fig. 272		p. 27
fig. 274		p. 27
AIR RELEASE VALVES	zAIR	
Air release valve fig. 917		p. 28
fig. 918		p. 28

Table of Contents

BOTTOM VALVES		zBOT	
Bottom valve fig. 935			p. 29
RUBBER EXPANSION JOINTS		zJOI	
Rubber expansion joint fig. 700 fig. 701		p. 29 p. 30	
GATE VALVES		zGAT	
Gate valve soft sealed fig. 111 fig. 112		p. 30 p. 31	
Flat wedge-ring gate valve fig. 019 fig. 021		p. 31 p. 32	
GATE VALVES		zFAG	
Gate valve fig. 118			p. 32
LIQUID LEVEL GAUGES		zGAU	
Liquid level gauge for welding fig. 706			p. 33
Liquid level gauge with reflexive or transparent glass fig. 716			p. 33
Liquid level gauge with glass or plexiglass tube fig. 708			p. 34
ADDITIONAL INFORMATION			
Valve application			p. 35-36
Certificates			p. 37

Legend

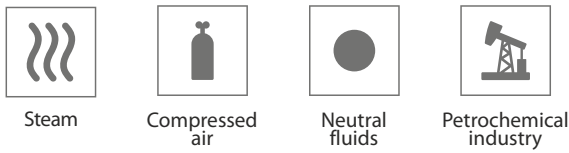
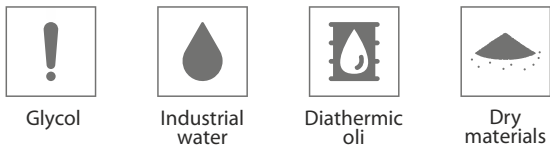
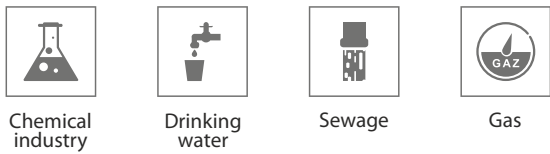
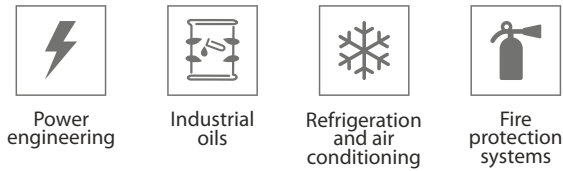
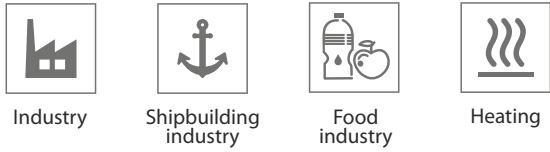
Body material acc. to index

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-AISI12
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

VALVE APPLICATION



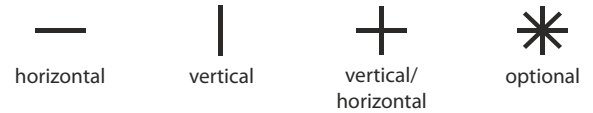
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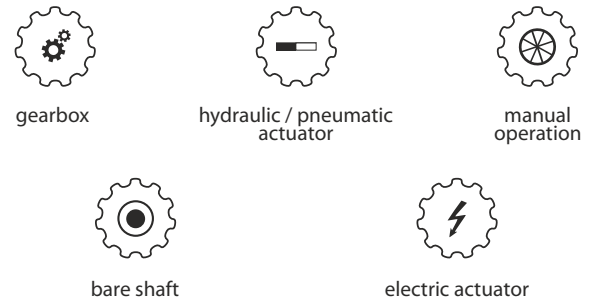
ENDS



WORKING POSITIONS



OPERATION



BASIC TYPES OF ACTUATORS



STOP VALVES

zGLO

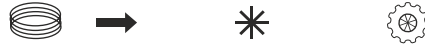
**figure
201**



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



STOP VALVES

zGLO

**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 CuSn5Zn5Pb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
cast steel GP240GH 1.0619	F	15-300	40	E	-20...+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 Working positions Operation



Application



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

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

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	15-300	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	
bronze CuSn5Zn5Pb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
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 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
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	-20...+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 Working positions Operation

Application



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

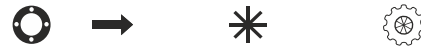
figure 219



Stop valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
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 Working positions Operation



Application



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

figure 234



Bellow valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
grey cast iron EN-GJL-250 5.1301	A	15-250	6	A	-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	15-300	40	E	-20...+450
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-300	40	E	-60...+400

Ends Form Working positions Operation



Application*



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

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

BELLOW VALVES

zBEL

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 valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	15-300	40	E	-20...+450
cast stainless steel GX5CrNiMo 19-11-2 1.4408	I	15-300	40	E	-60...+400

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
cast stainless 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
cast stainless 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-GJL-400-15 5.1306	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	-30...+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
cast stainless 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
227**

Control valve with actuator

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	15-80	16	C	-10...+150
					-10...+200

Ends **Form** **Working positions** **Operation**

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	-20...+450

Ends **Form** **Working positions** **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 Working positions



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 GX5CrNiMo19-11-2 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.

CHECK VALVES

zCHE

figure 277



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

Ends Form Working positions*

Application

CHECK VALVES

zCHE

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 CuSn5Zn5Pb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
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	65-300	40	E	-20...+450
		32-200	63	F	
		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 Working positions*

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		bar	index	
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 CuSn5Zn5Pb5-C CC491K	E	15-125	16	C	-10...+225
		150-200	10	B	
		250-300	6	A	
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 Working positions *



Application



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

* type without spring only in horizontal positions

CHECK VALVES

zCHE

figure 297



Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
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	65-300	40	E	-10...+450
		32-200	63	F	
		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 Working positions



Application



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

CHECK VALVES

zCHE

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 Working positions*



Application



* flow vertically from the bottom

CHECK VALVES

zCHE

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 Working positions*



Application



* flow vertically from the bottom

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 Working positions*



Application



* flow vertically from the bottom

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 Working positions



Application



CHECK VALVES

zCHE

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	40-250	16	C	-10...+100
		300-600*	10	B	

* DN 300-600 on request

Ends Form Working positions



Application



CHECK VALVES

zFAG

figure 299



Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
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 Working positions



Application



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

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 5.3106	C	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.

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



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 Working positions



Application



STRAINERS

zSTRA

figure 826



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 Working positions



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

**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 Working positions Operation






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



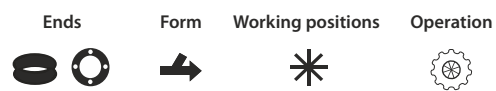




BALANCING VALVES
zSTA
**figure
447**

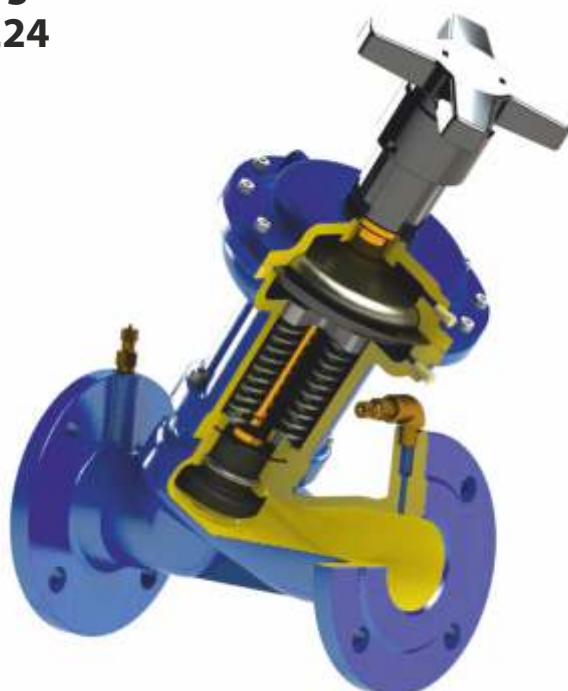
Static balancing valve

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


Application

DIGITAL MEASURING DEVICE

Available flow measuring devices for balancing installation.


T 650
BALANCING VALVES
zSTA
**figure
224**

Pressure regulating 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	65-150	16	C	-10...+120


Application


**figure
494**



Butterfly valve with grooved ends

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	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		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 Working positions 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	



Application



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	



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 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 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 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 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 high 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
oxygenated 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) + 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...+90



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...+90



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 5.1301	A	40-300	10	B	-10...+80



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
		200-600	10	B	-10...+100



Application



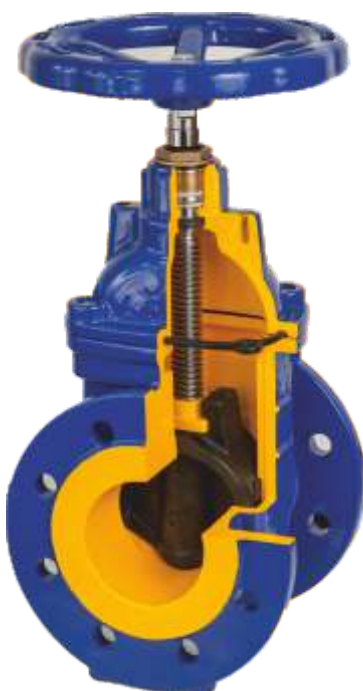
**figure
701**

Rubber expansion joint

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

Ends Form Working positions

Application

**figure
111**

Gate valve soft sealed

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		bar	index	
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 Working positions Operation

Application


**figure
112**



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	40-300	16	C	-10...+40

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 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	-20...+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 Working positions Operation

Application



**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 Working positions



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 Working positions



Application



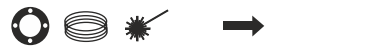
figure
708



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 Working positions



Application



APPLICATION

STOP VALVES																					zGLO
fig. 201																					
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. 227																					
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																					

APPLICATION

BALL VALVES																					zBAL
fig. 565																					
BALANCING VALVES																					zSTA
fig. 221																					
fig. 447																					
fig. 224																					
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. 112																					
fig. 019																					
fig. 021																					
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
- Lloyds 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



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