



## 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 75 countries around the world.



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.



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.



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.



Established in 1772  
 Product range: forgings, exhaust systems, metal components.  
 Application: automotive, mining, construction, energy and agriculture.



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-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
1	-	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

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)	1	-29...+425
			ANSI class 300 (50)	3	
			ANSI class 600 (100)	6	



Application



STOP VALVES

zGLO

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



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	15-200	40	E	-40...+450
forged steel P245GH 1.0352	G	15-25	63	F	-10...+450
		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	

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	15-25	63	F	-10...+450
		15-25	100	G	
		15-50	160	H	
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
alloy steel 13CrMo4-5	Q	15-25	63	F	-10...+550
		15-25	100	G	
		15-50	160	H	

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-GJS-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	15-200	40	E	-60...+400

Ends Form Operation



Application\*



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

**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	



Application



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

**BELLOW VALVES**

**zBEL**

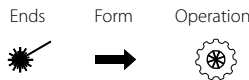
figure 237



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	15-200	40	E	-60...+400



Application



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

**SAFETY VALVES**

**zARMAK**

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...+300
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

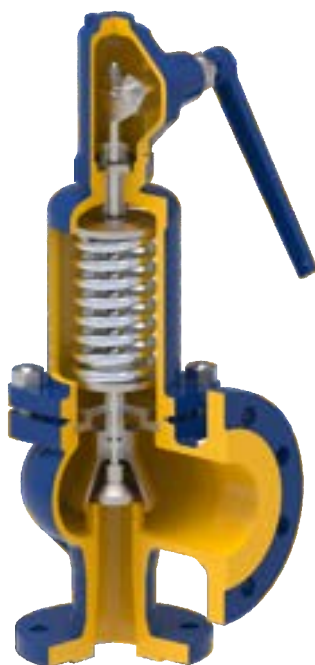


Not all of the applications are suitable for all of the executions.

**SAFETY VALVES**

**zARMAK**

figure  
610



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...+450
cast steel GP240GH 1.0619	F	20-400	63	F	-40...+450
cast steel GP240GH 1.0619	F	25-100	100	G	-40...+450

Ends    Form



Application



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

figure  
613



Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-100	63	F	-40...+450
cast steel GP240GH 1.0619	F	25-100	100	G	-40...+450

Ends      Form



Application



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

figure  
614



Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-100	63	F	-40...+450
cast steel GP240GH 1.0619	F	25-100	100	G	-40...+450

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 stainless steel GX5CrNi19-10 1.4308	R	20-150	40	E	-196...+300
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

Ends      Form



Application



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

**SAFETY VALVES**
**zARMAK**

 figure  
650

**Full lift safety valve**

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast stainless steel GX5CrNi19-10 1.4308	R	20-50	40	E	-196...+300
cast steel GP240GH 1.0619	F	20-50	40	E	-40...+400
cast steel GP240GH 1.0619	F	20-50	63	F	-40...+400
cast steel GP240GH 1.0619	F	25-50	100	G	-40...+400

Ends      Form



Application



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

figure  
670



Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-50	63	F	-40...+400
cast steel GP240GH 1.0619	F	25-50	100	G	-40...+400

Ends      Form



Application



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

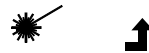
figure  
673



Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-100	63	F	-40...+400
cast steel GP240GH 1.0619	F	25-100	100	G	-40...+400

Ends      Form



Application



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

SAFETY VALVES

zARMAK

figure 674



Full lift safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-100	63	F	-40...+400
cast steel GP240GH 1.0619	F	25-100	100	G	-40...+400



Application



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

SAFETY VALVES

zARMAK

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



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



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...+450
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  
270



Proportional safety valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	20-50	40	E	-40...+400
cast stainless steel GX5CrNi19-10 1.4308	R	20-50	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	H	10-25	16	C	-10...+200

Ends      Form



Application



**CONTROL VALVES**

**zCON**

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
cast stainless steel GX5CrNiMo19-11-2 1.4408	I	15-150	40	E	-60...+400

Ends Form Operation



Application



**CHECK VALVES**

**zCHE**

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



Application



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

CHECK VALVES

zCHE

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	
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.

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	

Ends Form



Application



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

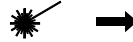
figure  
297



Globe check valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°C
cast steel GP240GH 1.0619	F	15-300	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  
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



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



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



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





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	15-300	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.

STRAINERS

zSTRA

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

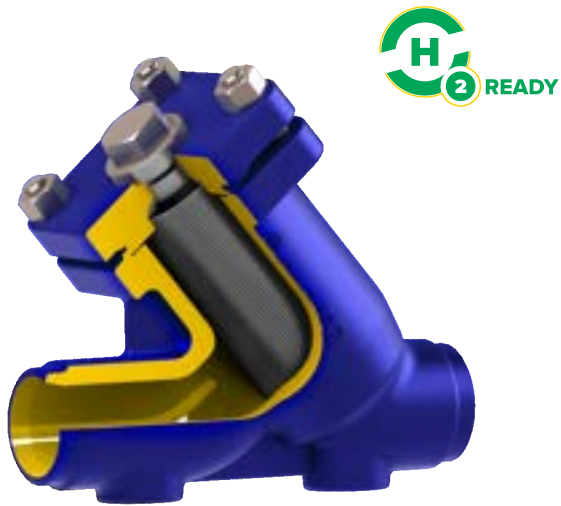
Ends Form



Application



figure 827



Strainer

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 GX5CrNiMo19-11-2 1.4408	I	15-200	40	E	-60...+400

Ends



Form



Application



FILTER POLLUTION INDICATOR WZF-100



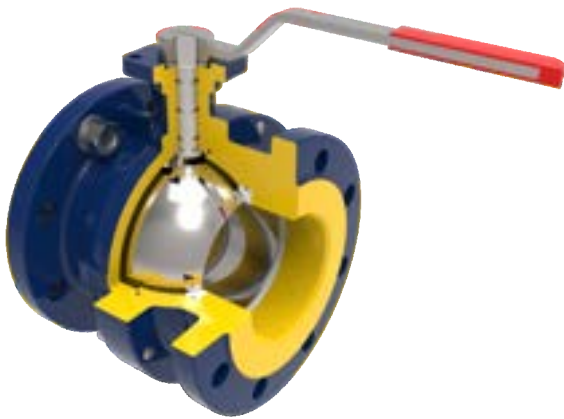
SCREENS

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

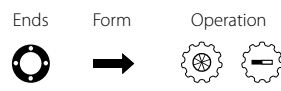
**BALL VALVES**

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	15-250	16	C	-10...+150
nodular cast iron EN-GJL-400-15 5.3106	C	15-200	16	C	-10...+150
cast stainless steel X5CrNiMo17-12-2 1.4401	I	15-200	16	C	-10...+150



## Application


**BALANCING VALVES**

zSTA

 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



## 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
			class 150	1	-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 installation.



T 650

BUTTERFLY VALVES

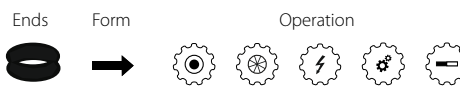
zBUT

figure 494



Butterfly valve with grooved ends

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



Application



BUTTERFLY VALVES

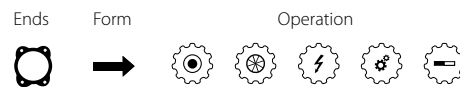
zBUT

figure 495



Wafer butterfly valve with vulcanized seat

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index	mm	bar	index	°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.

**BUTTERFLY VALVES**

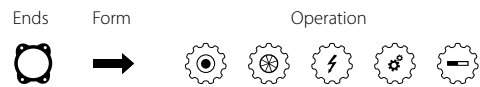
**zBUT**

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	



**BUTTERFLY VALVES**

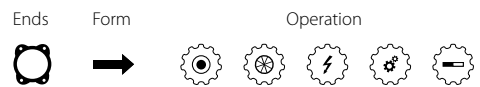
**zBUT**

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	



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

BUTTERFLY VALVES

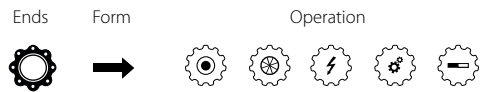
zBUT

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	10	B	
nodular cast iron EN-GJS-400-15 5.3106	B	32-150	16	C	-40...+210
		200-1000	10	B	



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

BUTTERFLY VALVES

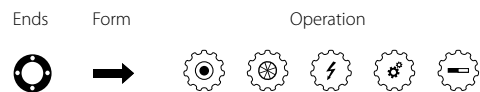
zBUT

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	



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

FLOAT VALVES

zFLO

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  
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	50-300	10	B	-10...+80

Ends Form



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

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

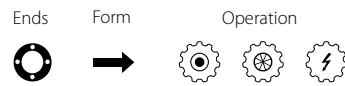


figure  
019



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



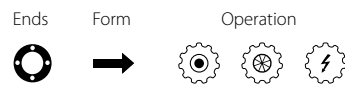
Not all of the applications are suitable for all of the executions.

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



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

GATE VALVES

zGAT

figure 108



Wedge-ring gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		mm	bar	
forged steel P245GH 1.0352	G	15-50	ANSI class 150 (20)	1	-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 110



Metal/metal wedge gate valve

BODY MATERIAL		NOMINAL DIAMETER DN	NOMINAL PRESSURE PN		TEMPERATURE RANGE
grade	index		mm	bar	
nodular cast iron EN-GJS-500-7 5.3200	D	40-300	16	C	-10...+150
cast steel GP240GH 1.0619	F	50-300	16	C	-10...+400*
			25	D	
			40	E	

\* it is allowed for a short time up to 450°C

Ends      Form      Operation



Application



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

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



Application



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

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



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

LIQUID LEVEL GAUGES

zGAU

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

**APPLICATION**

<b>STOP VALVES</b>																					<b>zGLO</b>	
fig. 208																						
fig. 213																						
fig. 215																						
fig. 216																						
fig. 217																						
<b>BELLOW VALVES</b>																					<b>zBEL</b>	
fig. 234																						
fig. 235																						
fig. 237																						
<b>SAFETY VALVES</b>																					<b>zARMAK</b>	
fig. 570																						
fig. 610																						
fig. 613																						
fig. 614																						
fig. 630																						
fig. 650																						
fig. 670																						
fig. 673																						
fig. 673																						
fig. 775																						
fig. 782																						
fig. 240																						
fig. 270																						
fig. 781																						
<b>CONTROL VALVES</b>																					<b>zCON</b>	
fig. 236																						
<b>CHECK VALVES</b>																					<b>zCHE</b>	
fig. 275																						
fig. 287																						
fig. 288																						
fig. 297																						
fig. 302																						
fig. 400																						
fig. 401																						
fig. 402																						
fig. 407																						
<b>STRAINERS</b>																					<b>zSTRA</b>	
fig. 821																						
fig. 823																						
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	
<b>BALL VALVES</b>																					<b>zBAL</b>
fig. 565																					
<b>BALANCING VALVES</b>																					<b>zSTA</b>
fig. 221																					
fig. 447																					
<b>BUTTERFLY VALVES</b>																					<b>zBUT</b>
fig. 494																					
fig. 495																					
fig. 496																					
fig. 497																					
fig. 498																					
fig. 499																					
<b>FLOAT VALVES</b>																					<b>zFLO</b>
fig. 272																					
fig. 274																					
<b>BOTTOM VALVES</b>																					<b>zBOT</b>
fig. 935																					
<b>RUBBER EXPANSION JOINTS</b>																					<b>zJOI</b>
fig. 700																					
fig. 701																					
<b>GATE VALVES</b>																					<b>zGAT</b>
fig. 111																					
fig. 019																					
fig. 021																					
fig. 108																					
fig. 110																					
fig. 113																					
<b>LIQUID LEVEL GAUGES</b>																					<b>zGAU</b>
fig. 706																					
fig. 716																					
fig. 708																					

## CERTIFICATES

- BVC certificate for the quality system according to ISO 9001:2015, for the environmental management system according to ISO 14001:2015, for energy management system ISO 50001: 2018, for occupational health and safety ISO 45001:201
- Approval certificate for the quality system consistent with the directive 2014/68/EU- PED
- Certificate of Quality System Approval PER (UKCA)
- TA-LUFT certificate
- ZETKAMA's approval pursuant to BV provisions No. 320 MODE II SCHEME
- Lloyd's Register Certificate for castings of grey cast iron and nodular cast iron
- Det Norske Veritas Germanischer Lloyd approval certificate, within the scope of cast iron production
- TUV-NORD Certificate of conformity of the Quality Assurance System in accordance with AD 2000-Merkblatt W0
- Marketing authorization for the Ukrainian market











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