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CHECK VALVE



figure	277
ends form	threaded straight

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 10-50	200°C



correspond to the pressure equipment directive 97/23/EC
marking CE for DN≥32

Features:

- closing thightness acc. EN -12334
- compact settlement
- environment-friendly
- no maintenance

Aplications

- hot cold and cooling water plants
- low-pressure steam plants
- industrial technologies
- neutral fluids

CHECK VALVE



figure	287
ends form	flanged straight

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 15-300	300°C
C nodular cast iron	C 16 bar	DN 15-200	350°C
	D 25 bar	DN 15-200	350°C
F cast steel	E 40 bar	DN 15-200	400°C
E bronze	A 6 bar	DN 250-300	225°C
	B 10 bar	DN 150-200	225°C
	C 16 bar	DN 15-125	225°C



correspond to the pressure equipment directive 97/23/EC
marking CE for DN≥32

Features:

- closing tightness acc. EN -12334
- compact settlement
- environment-friendly
- no maintenance
- face-to-face dimension according to EN 558-1 series 1
- flanges drilled according to EN 1092-1 for type F
- flanges drilled according to EN 1092-2 for type A,C,E

Applications

- hot and cold water plants
- steam plants
- industrial technologies
- neutral fluids
- heat and refrigerating engineering,

CHECK VALVE



figure	288
ends form	flanged angle

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 15-300	300°C
C nodular cast iron	C 16 bar	DN 15-200	350°C
	D 25 bar	DN 15-80	350°C
E bronze	A 6 bar	DN 250-300	225°C
	B 10 bar	DN 150-200	225°C
	C 16 bar	DN 15-125	225°C



correspond to the pressure equipment directive 97/23/EC marking CE for DN≥32

Features:

- closing tightness acc. EN -12334
- compact settlement
- environment-friendly
- no maintenance
- face-to-face dimension according to EN 558 series 8
- flanges drilled according to EN 1092-2

Applications

- hot and cold water plants
- steam plants
- industrial technologies
- neutral fluids
- heat and refrigerating engineering,

CHECK VALVE



figure	302
ends form	flanged straight

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 40-300	300°C
	B 10 bar	DN 40-250	



correspond to the pressure equipment directive 97/23/EC

Features:

- closing tightness acc. EN -12334
- compact settlement
- environment-friendly
- no maintenance
- flanges drilled according to EN 1092-2
- face-to-face dimension according to EN 558-1 series 48

Applications

- hot and cold water plants
- steam plants
- industrial technologies
- neutral fluids
- heat and refrigerating engineering,

CHECK VALVE



figure	402
ends form	flanged straight

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 50-200	100°C
	B 10 bar	DN 250	



Features:

- allows installation in all positions
- low head losses
- no maintenance

Aplications

- hot and cold water plants
- low-pressure steam plants
- air conditioning systems

BACK FLOW PREVENTER

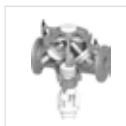


figure	405
ends form	flanged stright

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	B 10 bar	DN 65-150	65°C



Features:

- compact monobloc construction
- epoxy coating inside and outside
- silicon seal
- reduced pressure principle prevents potentially contaminated fluid polluting in the supply system
- easy to install and to maintain

Aplications

- water supply system

BACK FLOW PREVENTER



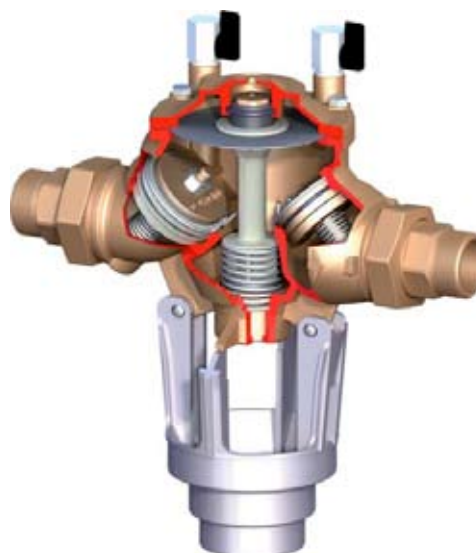
figure

406

ends
form

threaded
stright

body material	nominal pressure	nominal diameter	max. temperature
H brass	B 10 bar	DN 15	65°C
E bronze	B 10 bar	DN 20-50	65°C



Features:

- compact monobloc construction
- silicon seal
- reduced pressure principle prevents potentially contaminated fluid polluting in the supply system
- easy to install and to maintain

Applications

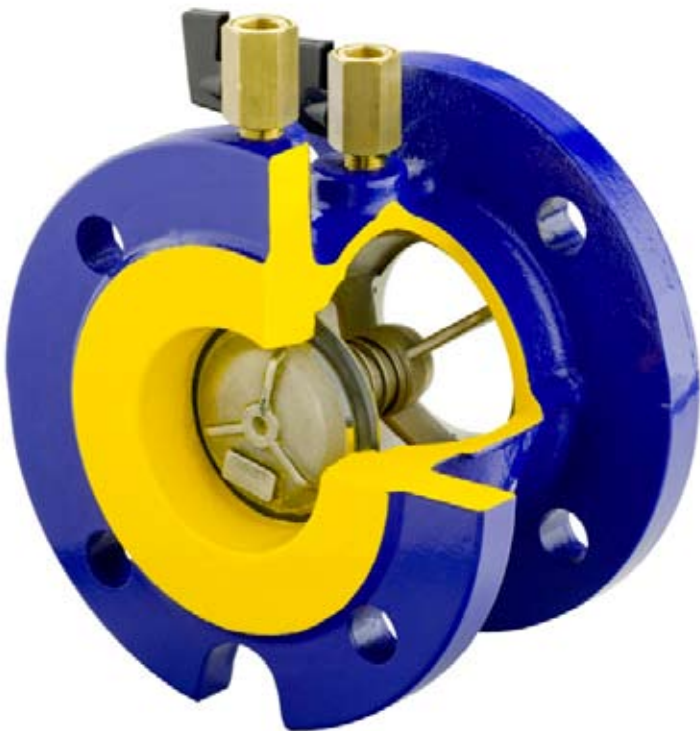
- water supply system

CHECK VALVE



figure	408
ends form	flanged straight

body material	nominal pressure	nominal diameter	max. temperature
A grey cast iron	C 16 bar	DN 50-250	70°C



Features:

- allows installation in all positions
- low head losses
- no maintenance
- prevents potentially contaminated fluid polluting in the supply system
- easy to install and to maintain
- valve has a back flow preventrer features class EA

Aplications

- water supply system

Fig. 6001, 6011

**BLACK CHECK VALVE
ELBOW**

Typ 6001



Typ 6011



Technical data:

working pressure - PS 6 bar
 medium temperature - max.40°C (temporarily 60°C)
 fitting lenght - according to the table
 flanges - EN 1092-2
 thread connections EN-ISO 228 -1
 requirements and investigations -
 EN 12050-4,EN 12050-1.

Design features:

- compact and simply construction - high durability
- easy inside acces and to ball,
- silent and unfailing operation,
- bonnet service position - on two spindels,
- full open valve for fluid speed from 0,7 m/s,
- perform conditions clearance for solid parts (EN 12050-4) without forced ball vibrations,
- paint - epoxide RAL 5015^o to build 200 µm.

Application:

- for sewage: with fecal matter, rain, industrial
- ball vulcanized with rubber NBR,
- pH between 4 and 8

Figure 6001 - threaded
 Figure 601 1 - flanged

Assembly:

Valve is a substitute for leg pipe and eliminate one flanged connection.
 Assembly on vertical/horizontal pipe lines as conection over the valve horizontal/vertical pipe lines under right angle.

*- another executions possibility

TYP	DN	PN
	[mm]	[bar]
6001	32	6
	40	6
	50	6
	50	6
6011	65	6
	80	6
	100	6
	125	6
	150	6
	200	6
	250	6
	300	6

No.	Part	Materials
1	Body	eliwo szare EN-GJL-250 PN-EN 1561:2012
2	Bonnet	eliwo szare EN-GJL-250 PN-EN 1561:2012
3	Ball	Guma, Rubber, Gummi NBR
4	Gasket	Guma, Rubber, Gummi NBR
5	Screw	Stal, Steel, Stahl - A2 PN-90/M-82131
6	Nut	Stal, Steel, Stahl - A2 PN-EN ISO 4032: 2004
7	Washer	Stal, Steel, Stahl - A2 PN-EN ISO 7091: 2002

Fig. 6516, 6526

**BLACK CHECK VALVE
FLANGED**



Photo DN500



Photo DN100

Technical data:

face to face lenght acc. EN 558-1: 2001
flanges acc. EN 1092-2: 1999
leakproofness class - A
working pressure PN16
medium temperature up to 120°C

Design features:

Total suface rubbered ball.
Drain plug execution possibility. .
All parts are protected against corrosion

Standard execution: PN16, 70 °C, NBR,
epoxide paint RAL5005 250 µm ^(*).

Hygienic attest by PZH
Certyficat CE

Application:

Water lines for sewage, industrial water or other
fluids (NBR max.+70°C), and potable water (EPDM
max.+120°C)

Figure 6516 for pump instalation
Figure 6526 for gravitation instalation

Assembly:

Valve can be assembled on pipe line in
horizontal or vertical position

^(*)- another executions possibility

DN	PN	L Szereg 48
[mm]		
50	PN16 ^(*)	200
65		240
80		260
100		300
125		350
150	PN10 ^(*)	400
200		500
250		600
300		700
350		800
400		900
500		1100
600		1300

No.	Part	Materials
1	Body	eliwo szare, żeliwo sferoidalne EN-GJL-250, PN-EN 1561:2012 EN-GJS-400-15, PN-EN 1563:2012
2	Bonnet	eliwo szare, żeliwo sferoidalne EN-GJL-250, PN-EN 1561:2012 EN-GJS-400-15, PN-EN 1563:2012
3	Ball	eliwo szare EN-GJL-250, PN-EN 1561:2012 Aluminium AISI PN-EN 1706: 2001 Guma NBR, EPDM PN-ISO 1629: 2005
4	Gasket	Guma NBR, EPDM PN-ISO 1629: 2005
5	Screw	stal Fe/Zn5, stal nierdzewna PN-EN ISO 4762: 2006
6	Screw stopper	Parafina

Fig. 6517, 6527

BALL CHECK VALVE

6517



6527



Technical data:

working pressure - PN16 (10)
medium temperature - 70°C
requirements and investigations -
EN 12050-1, EN 12050-4.

Design features:

- compact and simply construction - high durability,
- easy inside acces and to ball,
- silent and unfailing operation,
- close leakproofness at 0,05 MPa,
- full open valve for fluid speed from 1 m/s,
- perform conditions clearance for solid parts (EN 12050-4) without forced ball vibrations,
- epoxide paint to build 250 µm, RAL 5015 (other color)*;
- Hygienic Atest PZH

Application:

- for sewage: with fecal matter, rain, industrial - ball vulcanized with rubber NBR,
 - for potable water - ball vulcanized with rubber EPDM
 - for fluids with pH between 4 and 8
- Figure 6517 - straight assembly
Figure 6527 - angular assembly

Assembly:

Valve 6527 is a substitute for leg pipe.
Assembly for valve 6517 and 6527 is possible on vertical or horizontal pipe lines.

* for special order

No.	Part	Materials
1	Body	żeliwo sferoidalne EN-GJS-400-15 PN-EN-1563:2012
2	Bonnet	żeliwo sferoidalne EN-GJS-400-15 PN-EN-1563:2012
3	Ball	Guma, Rubber, Gummi NBR, EPDM
4	Force ring	żeliwo sferoidalne EN-GJS-400-15 PN-EN-1563:2012
5	Screw	Stal A2 PN-EN ISO 7984: 2001
6	Screw stopper	Parafina Paraffin
7	Screw	Stal A2 PN-EN ISO 4016: 2001
8	Nut	Stal A2 PN-EN ISO 4032: 2004
9	Washer	Stal A2 PN-EN ISO 7091: 2002
10	O-ring	Guma, Rubber, Gummi NBR, EPDM
11	O-ring	Guma, Rubber, Gummi NBR, EPDM
12	Pipe	PVC / PE

Fig. 6525

NON RETURN VALVE



Photo DN100

DN	PN10 (PN16)		D	L	d	Kv	Weight
	k	lxn					
	[mm]					[m ³ /h]	[kg]
DN50	125	4x19	165	106	98	100	5,7
DN65	145	4x19	185	126	118	160	8,7
DN80	160	8x19 (4x19)	200	146	132	230	10,8
DN100	180	8x19	220	176	156	390	13,5
DN125	210	8x19	250	206	184	625	21
DN150	240	8x23	285	236	211	900	30
DN200	295	12x23 (8x23)	340	306	260	1100	49
DN250	355 (350)	12x28 (12x23)	405	376	319	1250	73,3

Technical data:

flanges acc. EN 1092-2
leakproofness class - A
working pressure PN10, PN16
medium temperature up - to 120°C

Design features:

All parts are protected against corrosion.
Standard execution:
PN16, 70°C, epoxide paint
RAL5005 250µm.

Application:

Return valve prevents the liquid
in pump systems.

Assembly:

Installation in any position.

*- other executions on request

No.	Part	Materials
1.	Body	eliwo szare EN-GJL-250 PN-EN 1561: 2012
2.	valve head	eliwo szare EN-GJL-250 PN-EN 1561: 2012
3.	Fence	eliwo szare EN-GJL-250 PN-EN 1561: 2012
4.	Spindle	Stal nierdzewna X8CrNiS18-9 PN-EN 10088-1: 2007(1.4305)
5.	Sliding sleeve	DN50 - 80 mosi'dz DN100 - 150 stal nierdzewna DN200 - 250 br'z
6.	Spring	X10CrNi18-8 (1.4310) PN-EN 10088-1: 2007
7.	Seal	Guma NBR PN-ISO 1629: 2005