



DESIGN STANDARDS

- Coating Powder Epoxy Min. 250 micron
- Three Way Functioning:
 - Release of large volumes of air during pipeline fill.
 - Allows in flows of large volumes of air when pipe is emptied.
 - Release of air under pressure
- Low Maintenance
- Working pressure Min. 0.1 bar Max. 16 bar
- Hydraulic test performed under 1.5xPN pressure
- eko7100 corresponds to flanged single orifice
- eko7200 corresponds to threaded single orifice

REMARKS & APPLICATIONS

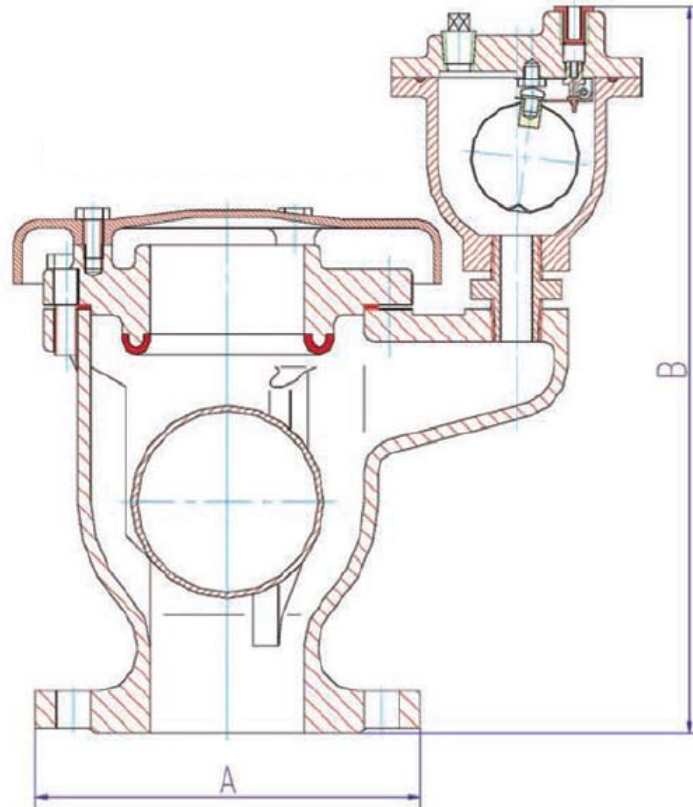
- For water (Not sewage) and neutral liquids.
- Nominal Pressure: PN 16/25 & PN 25/40
- Working Temperature: -10°C to 120°C



eko7200

eko7100

TECHNICAL DRAWING AND DIMENSIONS (eko7000)



PARTS AND MATERIALS

| No. | Part Name | Materials | ASTM Spec. | BS Spec. |
|-----|--------------|---------------------------------------|--------------|------------|
| 1 | Body | Ductile Iron | A126 Class B | EN -JL1040 |
| 2 | Cover | Ductile Iron | A126 Class B | EN -JL1040 |
| 3 | Larger Ball | SS304 or Aluminium with Rubber-Coated | | |
| 4 | Cap | Ductile Iron | A126 Class B | EN -JL1040 |
| 5 | Gasket | PTFE | Commercial | Commercial |
| 6 | Smaller Ball | Stainless Steel | AISI 304 | 970 304S15 |

DIMENSION TABLE

| Size | 2" (50) | 3" (80) | 4" (100) | 6" (150) | 8" (200) |
|------|-----------------|-------------------|------------------|------------------|-----------------|
| A | 6-1/2 (165) | 7-7/8 (200) | 8-11/16 (220) | 11-1/4 (285) | 13-3/8 (340) |
| B | 13-1/4 (337) | 14-13/16 (376) | 15-1/4 (388) | 16-9/16 (420) | 18-1/8 (460) |

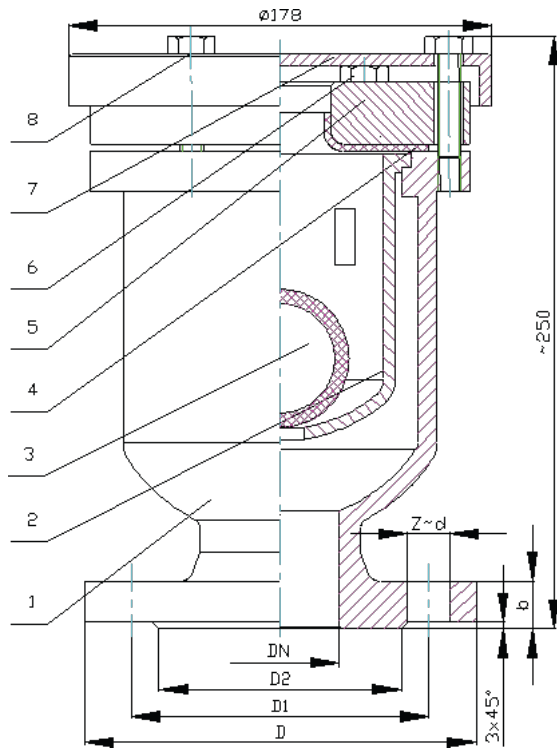
Note:

Flanges comply with EN1092-2 PN10/16. Other flange types are available.

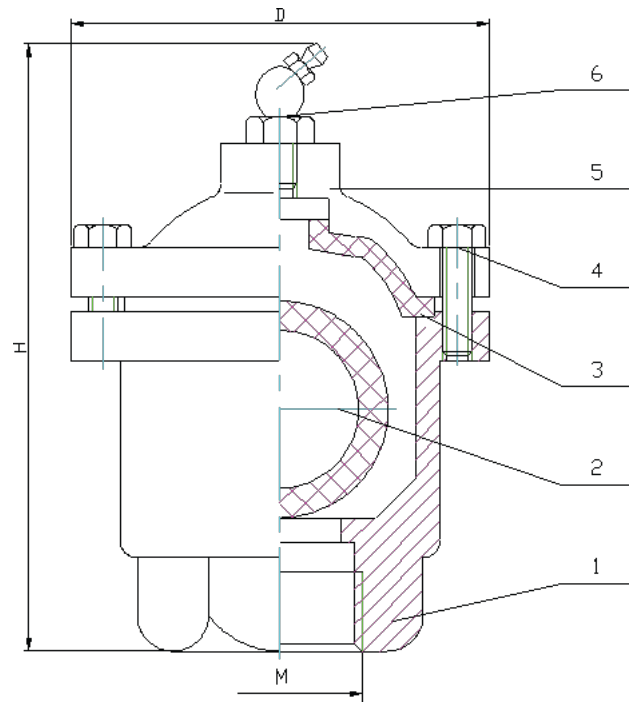


TECHNICAL DRAWING AND DIMENSIONS

eko7100



eko7200



PARTS AND MATERIALS

| No. | Part Name | Materials | Standard |
|-----|---------------|--------------|------------|
| 1 | Body | Cast Iron | BS1452.220 |
| 2 | Bucket | Cast Iron | BS1452.220 |
| 3 | Ball Float | ABS | |
| 4 | Gasket | NYL | |
| 5 | Inside Cover | Cast Iron | BS1452.220 |
| 6 | Bolt | Carbon Steel | BS1769 |
| 7 | Outside Cover | Cast iron | BS1452.220 |
| 8 | Bolt | Carbon Steel | BS1769 |

PARTS AND MATERIALS

| No. | Part Name | Materials | Standard |
|-----|--------------|----------------|-----------------|
| 1 | Body | Gary Cast Iron | BS1452.220 |
| 2 | Ball Float | ABS | |
| 3 | Gasket | NBR | BS2494 |
| 4 | Bolt | Carbon Steel | BS1769 |
| 5 | Bonnet | Gary Cast Iron | BS1452.220 |
| 6 | Glib Tongued | Brass | BS2874 CA104 |

DIMENSION TABLE (eko7100)

| DN | D | D1 | D2 | b | Z-d |
|-----|------|------|------|----|-------|
| Ø50 | Ø165 | Ø125 | Ø102 | 20 | 4-Ø18 |
| Ø65 | Ø185 | Ø145 | Ø122 | 20 | 4-Ø18 |
| Ø80 | Ø200 | Ø160 | Ø138 | 22 | 8-Ø18 |

DIMENSION TABLE (eko7200)

| M | D | H |
|-----------|------|-----|
| 1/2-3/4" | Ø88 | 125 |
| 1"-1 1/4" | Ø105 | 150 |
| 1 1/2-2" | Ø128 | 177 |



GENERAL INSTRUCTIONS AND INSTALLATION



Handle valve with precaution

Take care of the coatings and protections. Do not drag the valves, avoid shocks and frictions which may cause starters of corrosion.



Store the equipment under good conditions

The valves must be protected from;
Humidity and rain to avoid corrosion;

Wind, sand; to avoid the penetration of sold particles whose presense is catastrophic for the tightness;

Sunshine and heat; they damage the coatings, particularly harmful for plastic valves and fittings very sensitive to the ultraviolet.

Valves with rubber seat must always be stored half-opened.

The aparatuses with metal seat must be stored closed (except particular specifications) to avoid the penetration of the particles in internal volumes.

Ball valves must be stored in open position.

Preserve the aparatuses with their plastic caps which should be taken away when mounting the valves.

Clean the pipes

Rinsing the pipes is essential (water, air, steam if compatible) before testing and starting of the installations. It is critical to eliminate all the particles and several objects which could remain in the pipes and especially welding residues which could definitively damage the valve seat.

Clean the gasket seat

Be sure that the gasket seats are perfectly clean and free from stripes.



Align pipings

Control piping alignment. For correcting bad alignments do not rely on the valves: this may cause leakage and operating defect or even of breaking.

Avoide Water Hammers

A rise in pressure of extreme brutality can be generated by a water hammer. A water hammer can cause the damage: butterfly valve disc splits, destroyed various aparatus, axes deformed. There are very varied causes of the water hammers but generally: the starting of pump and the sudden closing of valve.



Respect assembly direction

Certain valves are one-way (non-return valve, knife gate valves, etc.)

Take care of an assembly in conformity with the arrow direction or of the instructions of assembly.

Use support for heavy valves

In certain cases, valves of large lenght, heavy servo-motor, it can be essential to provide for supports which will avoid tensions prejudicial with the operating risking the fast deterioration of the stem and of the tightness.



Maintenance and control

- Control the valves yearly.
- Change the gaskets after each disassembling.
- Any maintanance action must be carried out when the installation is in the atmospheric pressure.
- Respect the recommended positions of assembly.
- Respect the disassembling direction.
- Respect the correspondences of DN between the valves and piping.
- Respect the distances.

