

Technical features

| | |
|------------------|--|
| Design | Polyethylene cylinder |
| Face to face | Acc. to below mentioned dimension table |
| Flange Dimension | DIN Flange acc. to EN 1092-2/B (DIN 2501) |
| Flange Options | Special flange drilling acc. to ANSI or JIS |



Ductile Iron

Double Chamber

Dikkan figure 27.KP

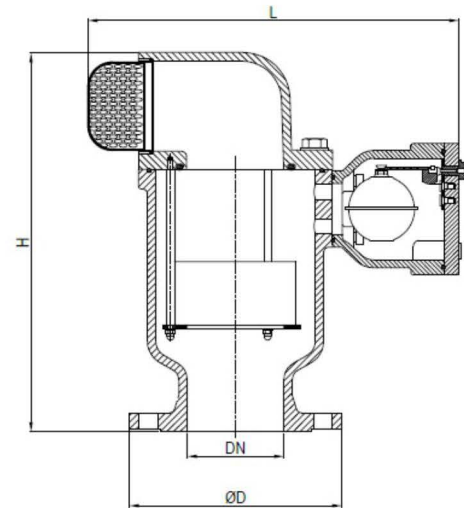


• Ductile Iron Dikkan double air valves release the air automatically from the pipe line and prevent the capacity decrease due to air in the pipe.

• Application: Water, warm and cold water, oil, water systems, sewage and tse.

Pressure & temperature ranges

| Bore | Pressure rating | Hydro test pressure [bar] | |
|----------------|-----------------|---------------------------|---------|
| | | Casing | Closure |
| DN 50 - DN 300 | PN16 | 24 | 17.6 |



Material specifications

| Part No. | Component | Material | | |
|----------|-----------|-----------------|--------------|--------------|
| 1 | Body | EN-GJS400-15 | EN-JS 1030 | GGG40 |
| 2 | Bonnet | EN-GJS400-15 | EN-JS 1030 | GGG40 |
| 3 | Float | Polyethylene | Polyethylene | Polyethylene |
| 4 | Float2 | X5CrNiMo17-12-2 | 1.4401 | AISI316 |
| 5 | Sealring | EPDM | EPDM | EPDM |
| 6 | Bolts | AISI316 | AISI316 | AISI316 |

Dikkan figure options

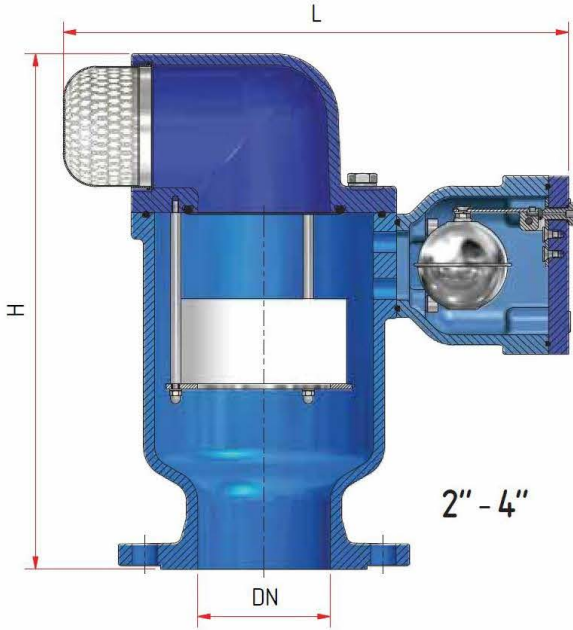
GGG50 body 27.EP

GSC25 body 27.2P

Dimensions & ordering codes

| DN [mm] | Flange Connection | ØD [mm] | L [mm] | H [mm] | Weight [kg] | Dikkan ordering code |
|---------|-------------------|---------|--------|--------|-------------|--------------------------|
| 50 | PN16 | 165 | 390 | 280 | 18 | D0027KPXXXPPP18400500000 |
| 80 | PN16 | 200 | 600 | 340 | 24 | D0027KPXXXPPP18400800000 |
| 100 | PN16 | 220 | 600 | 390 | 33 | D0027KPXXXPPP18401000000 |
| 150 | PN16 | 285 | 752 | 415 | 61 | D0027KPXXXPPP18401500000 |
| 200 | PN16 | 340 | 870 | 530 | 106 | D0027KPXXXPPP18402000000 |
| 250 | PN16 | 405 | 870 | 655 | 136 | D0027KPXXXPPP18402500000 |
| 300 | PN16 | 460 | 870 | 740 | 196 | D0027KPXXXPPP18403000000 |

3 - EFFECT, KINETIC - AUTOMATIC COMBINATION (Air Discharge, Air Intake, Air Release)



This type of air valve is the new-generation design for the well-known "double chamber" air valve. The 3 functions of traditional double chamber design is conserved, combining thermo-plastic cylindrical shaped main float for air intake and air discharge functions with the stainless steel float for air-release function.

This gives an advantage on long-term corrosion resistance and longer operational lifetime compared to the competitors' designs in the market.

Functions:

1. Discharge of air in high volume in the pipe-line to atmosphere during pipe filling. (Atmospheric Function)
2. Intake of air in high volume into the pipe line during pipe-line emptying. (Atmospheric Function)
3. Discharge of low volumes of air preventing them to accumulate and form "air-pockets" during pipe-line operation. (Pressurized Function)
4. Suitable for sewage and TSE application.

SIZE, WEIGHT AND DIMENSIONS, CAPACITY

| DN (mm) | H (mm) | L (mm) | Weight (Kg.) | Capacity (nl/s)* |
|---------|--------|--------|--------------|------------------|
| 50 | 280 | 295 | 18 | 60 |
| 80 | 340 | 350 | 24 | 160 |
| 100 | 390 | 380 | 33 | 250 |
| 150 | 415 | 415 | 61 | 520 |
| 200 | 530 | 495 | 106 | 1020 |
| 250 | 655 | 560 | 136 | 1570 |
| 300 | 740 | 680 | 196 | 2260 |

*Capacity is the limited flowrate with Anti-shock orifice for normal operation.

Technical Data:

Nominal Size : DN50 - DN300

Nominal Pressure: PN10 - 16 - 25

Flange Standard : TS ISO 7005-2 / TS EN 1092-2

Temperature : -10 °C ... +80 °C

Bolts and Nuts : AISI316

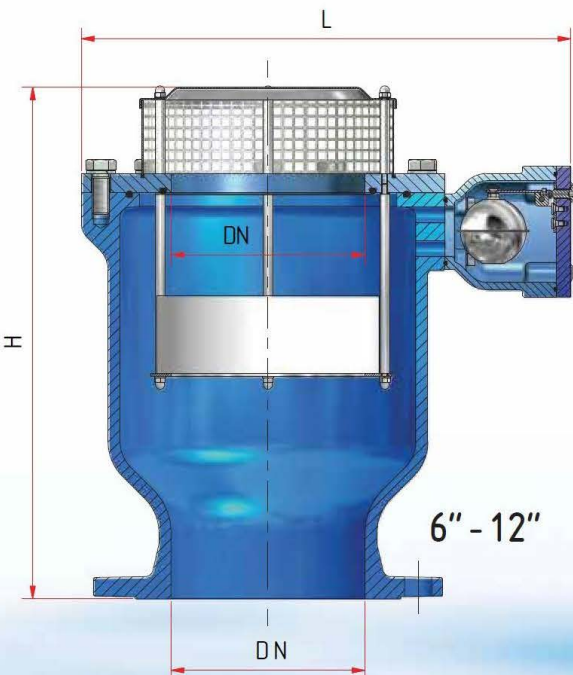
Coating : Electro-static Epoxy Powder RAL5010

Option : As per order; Body and Cover GSC25,

AISI304, AISI316 Floats AISI304

Materials:

| BODY AND COVER | EN | ASTM | UNS | DIN | |
|---|----------------------------|---------------|---------|--------------|---------|
| GREY CAST IRON GGG25 | EN GJL-250 | A48-40B | F 12801 | 1691 | |
| DUCTILE CAST IRON GGG40 | EN GJS-400-15 | A536/60-40-18 | F 32800 | 1693 | |
| DUCTILE CAST IRON GGG50 | EN GJS-500-7 | A536/65-45-12 | F 33100 | 1693 | |
| STEEL CASTING GSC25 | - | A216-WCB | J 03002 | 10460 | |
| STAINLESS STEEL 304 | - | A351-CF8 | J 92600 | 1.4301 | |
| STAINLESS STEEL 316 | - | A351-CF8M | J 92900 | 1.4401 | |
| STAINLESS STEEL DUPLEX | - | DUPLEX 2205 | S 32205 | 1.4462 | |
| STAINLESS STEEL SM0254 | - | SMO 254 | S 31254 | 1.4547 | |
| NIAl Bronze | - | B148 | C95800 | 2.0976 | |
| FLOATS : | AISI304, AISI316, HDPE, PP | | | | |
| STANDARD MATERIALS | | | | | |
| PRESSURE CLASSES | | | | | |
| PN10/16 | PN25 | PN40 | ANSI150 | ANSI300 | ANSI600 |
| Body | GGG40 | GGG40 | GSC25 | GGG40 | GSC25 |
| Floats (Single Chamber) | HDPE | HDPE | HP | HDPE | PP |
| Floats (Double Chamber) | HDPE+AISI304 | HDPE+AISI304 | AISI304 | HDPE+AISI304 | AISI304 |
| FLANGE DRILLINGS : | | | | | |
| PN10, PN16, PN25, PN40, ANSI150, ANSI300, ANSI600 | | | | | |



**AIR RELEASE VALVE
USER MANUAL****INSTALLATION AND OPERATION
INSTRUCTIONS OF THE AIR RELEASE VALVE****MANUFACTURER**

Name : DIKKAN BORU VE TES. MALZ. SAN. VE TİC A.Ş.
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PRODUCT INFORMATION

Valve Name : AIR RELEASE VALVE
Trademark : DIKKAN
Nominal Diameter (DN) : 40 – 300 mm
Material : Cast –Ductile Iron, Bronze, Cast Steel
Nominal Pressure (PN) : PN16
Working Temperature : -10°C ...+120°C

SELLER

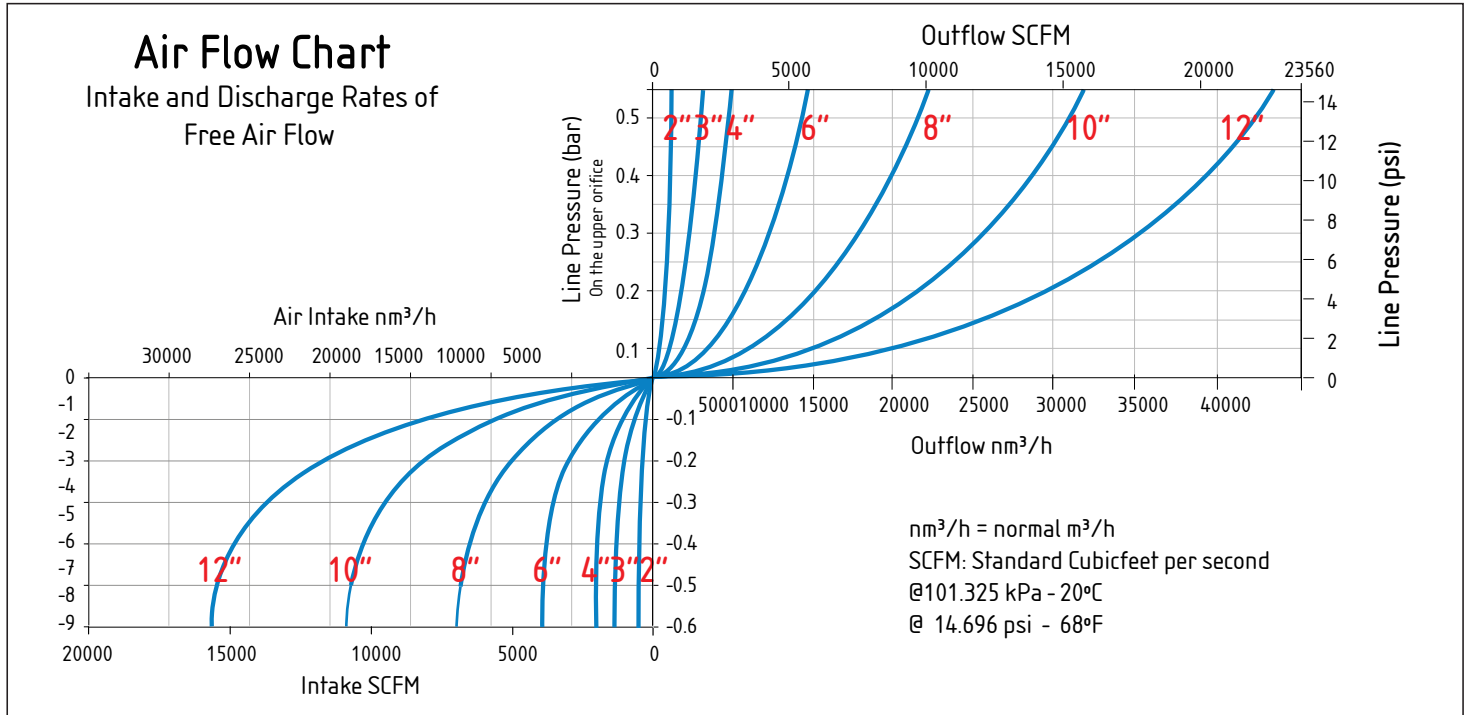
Name : DIKKAN DIS TICARET A.S.
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APPLICATION AREAS

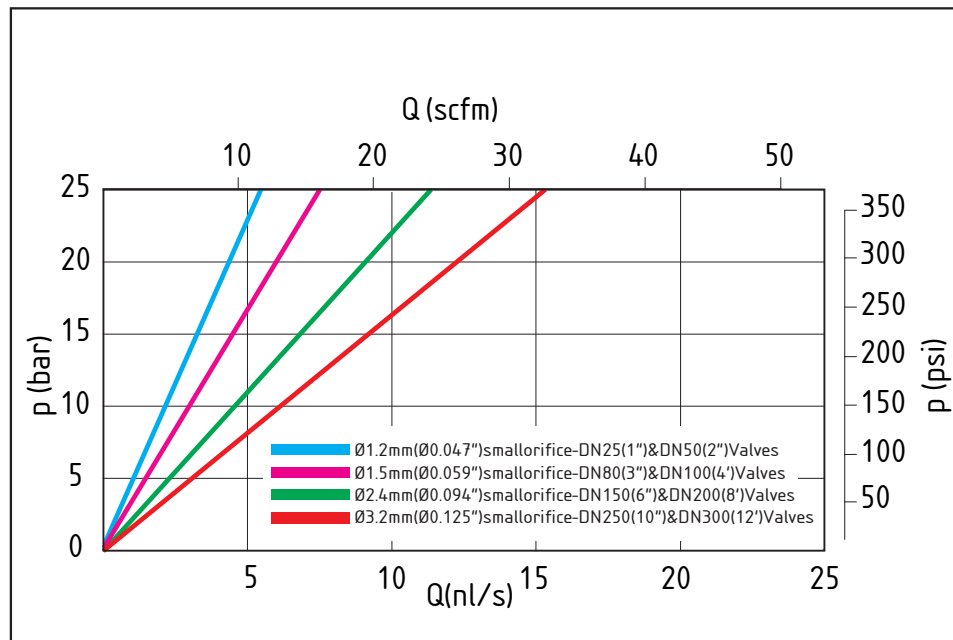
- Cold and hot water systems
- Drinking water and irrigation systems
- Fire fighting systems
- Pumping stations
- Storage tanks
- Sewage and TSE
- Pipe lines

- *Before installation, the pipeline must be cleaned off all dirt such as sand, dust, welding residues etc.
- *The pipeline should be free of tension before installation commences.
- *Use strainers, in suitable sections of the pipeline, for future protection of the valve from dirt and foreign substances.
- *Keep the air release valve in a clean environment and do not remove the protective caps until installation.
- *Verify the air release valve to be suitable for the specifications of medium, such as maximum operating pressure, temperature, corrosiveness and abrasiveness.
- * Suitable gasket material should be put between air release valve flanges and counter flanges.
- * The arrow, on the valve body, must be in the same direction of the liquid flow.
- *Mount one side of the air release valve. The flow direction is vertical flow up.
- * Do not apply extra pressure to the system more than nominal operation pressure of the valves.
- *After operating more than an hour, the valves should be controlled leaking or not. If there is a leakage from the gaskets, tighten the bolts or change the gaskets.
- *For detail information, please look at the DIKKAN catalogue of product or get in touch with our company.

Main Orifice Discharge Performance Chart



Air Release Orifice Discharge Performance Chart



Dikkan[®]
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