

# AIR RELEASE VALVES

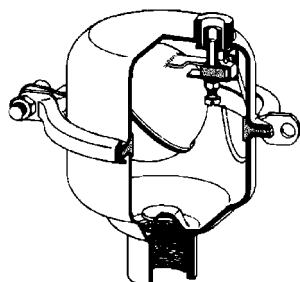
air release valves float actuated



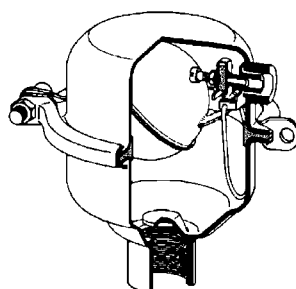
WIR REGELN DAS SCHÖN.

## Type 1.12 1.32

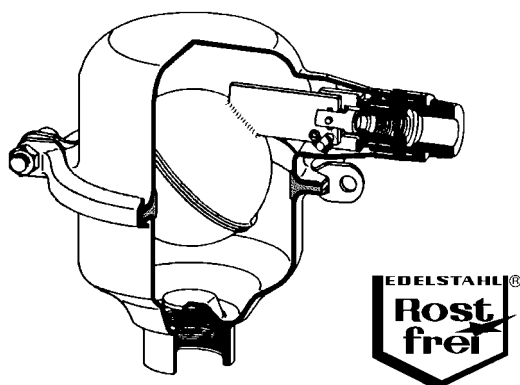
Type 1.32 G 3/4



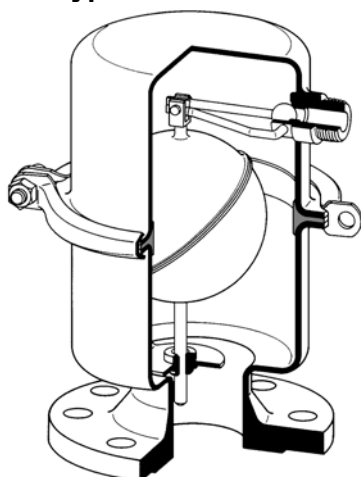
Type 1.12 G 3/4



Type 1.12 G 1 - 2, DN 25 - 50



Type 1.12 DN 65 - 100



## TECHNICAL DATA

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| MEDIUM           | liquids, air, gases                                               |
| NOMINAL PRESSURE | PN 16                                                             |
| CONNECTION       | G 3/4 - 2, DN 25 - 100                                            |
| PRESSURE RANGE   | G 3/4 up to 16 bar in 3 ranges<br>others up to 16 bar in 4 ranges |
| TEMPERATURE      | max. 130°C                                                        |
| FLOW RATE        | up to 248 Nm <sup>3</sup> /h                                      |
| DESIGN           | completely made of CrNiMo-steel                                   |

## DESCRIPTION

Air release valves are for automatic discharge of tanks, vessels and pipelines during filling and emptying. They are float actuated. The valve closes with rising level and opens with falling level. It is possible to prevent venting by installing a non return valve (only type 1.32).

Type 1.12 and 1.32 are completely made of deep drawn stainless steel parts. The soft sealing guaranties a tight closing of the valve during operating.

Special designs with different seal materials for aggressive mediums or higher temperatures are on request available.

Type 1.12 and 1.32 can also be supplied in ozon resistant version, for brine, aggressive mediums and higher temperatures.

When inquiring or ordering, please, state working pressure ranges.

Mankenberg reserves the right, to alter or improve the designs or specifications of the products described herein without notice.

Special designs on request.

| PRESSURE RANGES [bar]          |     |       |       |        |
|--------------------------------|-----|-------|-------|--------|
| Nominal diameter G 3/4 x 1/2 A |     |       |       |        |
| Pressure                       | bar | 0 - 2 | 0 - 6 | 0 - 16 |

| PRESSURE RANGES [bar]                 |     |       |       |        |        |
|---------------------------------------|-----|-------|-------|--------|--------|
| Nominal diameter G 1 - 2, DN 25 - 100 |     |       |       |        |        |
| Pressure                              | bar | 0 - 2 | 0 - 6 | 0 - 10 | 0 - 16 |

FLOW RATE in Nm<sup>3</sup>/h  
see sheet no. EB 1.12/2.1.991.2

# AIR RELEASE VALVES

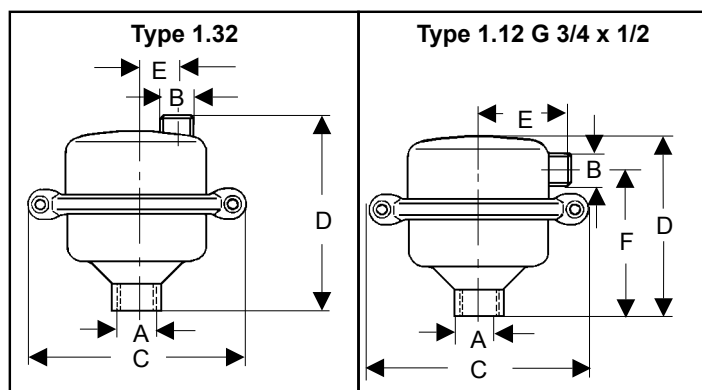
air release valves float actuated



WIR REGELN DAS SCHÖN.

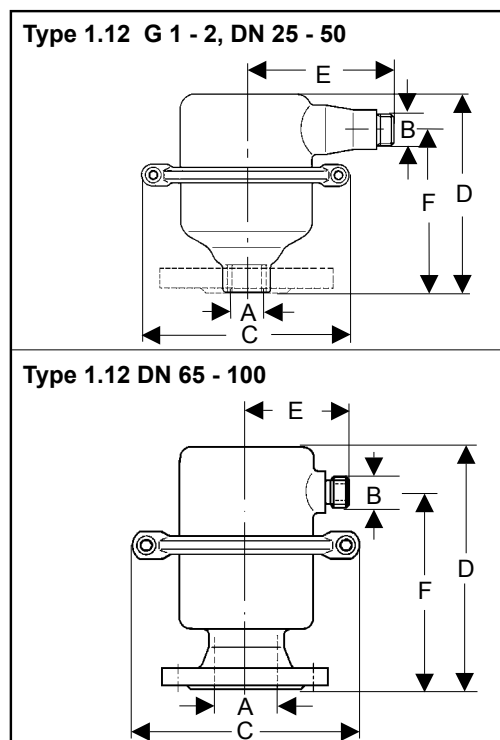
**Type 1.12**  
**1.32**

| MATERIALS     |                                |                |                  |                       |
|---------------|--------------------------------|----------------|------------------|-----------------------|
| DESIGN        | STANDARD                       |                | OZON RESISTANT   |                       |
| TYPE          | 1.32<br>1.12 G 3/4-2, DN 25-50 | 1.12 DN 65-100 | 1.32, 1.12 G 3/4 | 1.12 G 1-2, DN 25-100 |
| TEMPERATURE   | 130 °C                         |                | 100 °C           |                       |
| BODY          | CrNiMo-steel                   |                |                  |                       |
| BODY SEALING  | EPDM                           |                | FPM              |                       |
| INNER PARTS   | CrNiMo-steel                   |                |                  |                       |
| FLOAT         | CrNiMo-steel                   |                |                  |                       |
| VALVE SEAL    | FPM                            | metallic       | CSM              | metallic              |
| PROFILE CLAMP | CrNiMo-steel                   |                |                  |                       |



| DIMENSIONS [mm] Type 1.32 / 1.12 G 3/4 x 1/2 |                    |           |
|----------------------------------------------|--------------------|-----------|
| size                                         | Type 1.32          | Type 1.12 |
| A                                            | inlet female G 3/4 |           |
| B                                            | outlet male G 1/2A |           |
| C                                            | 140                |           |
| D                                            | 135                | 127       |
| E                                            | 27                 | 57        |
| F                                            | -                  | 109       |

| WEIGHTS [kg] |           |
|--------------|-----------|
| Type 1.32    | Type 1.12 |
| 0,8          |           |



| DIMENSIONS [mm] Type 1.12 G 1 - 2, DN 25 - 100 |                    |       |       |     |                     |     |     |     |      |     |     |  |
|------------------------------------------------|--------------------|-------|-------|-----|---------------------|-----|-----|-----|------|-----|-----|--|
| size                                           | inlet female G     |       |       |     | nominal diameter DN |     |     |     |      |     |     |  |
| A                                              | 1                  | 1 1/4 | 1 1/2 | 2   | 25                  | 32  | 40  | 50  | 65   | 80  | 100 |  |
| B                                              | outlet male G 3/4A |       |       |     |                     |     |     |     |      |     |     |  |
| C                                              | 200                |       |       |     |                     |     |     |     | 265  |     |     |  |
| D                                              | 185                | 190   | 190   | 185 | 200                 | 200 | 205 | 205 | 2095 | 300 | 305 |  |
| E                                              | 140                |       |       |     |                     |     |     |     | 113  |     |     |  |
| F                                              | 146                | 149   | 149   | 145 | 161                 | 163 | 165 | 166 | 250  | 255 | 257 |  |

| WEIGHTS [kg] Type 1.12 G 1 - 2, DN 25 - 100 |     |       |       |     |                     |     |     |    |      |    |     |
|---------------------------------------------|-----|-------|-------|-----|---------------------|-----|-----|----|------|----|-----|
| inlet female G                              |     |       |       |     | nominal diameter DN |     |     |    |      |    |     |
| 3/4                                         | 1   | 1 1/4 | 1 1/2 | 2   | 25                  | 32  | 40  | 50 | 65   | 80 | 100 |
| 0,8                                         | 2,6 | 2,6   | 2,7   | 3,1 | 3,5                 | 4,2 | 4,2 | 5  | 10,5 | 11 | 12  |

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