

## ERHARD Diaphragm Valves, Full Bore Type “FD” to DIN 3359-H1 or H3<sup>4)</sup>

of ductile cast iron or rubber-coated ductile cast iron

### Range of application

| Size<br>DN | Pressure rating<br>PN | Hydrost. test pressure <sup>6)</sup><br>in bars for |               | Max. adm. working pressure in<br>bars at a working temperature<br>of max. + 120 °C <sup>5)</sup> |
|------------|-----------------------|---|---------------|--|
|            |                       | body<br>water                                       | seat<br>water |  |
| 15 - 40    | 10                    | 17  | 11            | 10   |
| 50 - 100   | 6                     | 12  | 6,6           | 6  |
| 125 - 200  | 4                     | 6   | 4,4           | 4  |

When placing the order, please specify flow medium, working pressure, and working temperature. Specify if vacuum service is required.

**Flanges B**, DN 15 - 150, PN 16, GI, type 21, connecting dimensions and thickness to EN 1092-2<sup>1)</sup>.

**Flanges B**, DN 200, PN 10, GI, type 21, connecting dimensions and thickness to EN 1092-2.

### Materials/Equipment

| Prod. No.            | 7310 0773   | 7310 1673   |
|----------------------|---|---|
| Body                 | Ductile cast iron EN-JS1030 <sup>7)</sup>   | Ductile cast iron EN-JS1030 <sup>7)</sup><br>with hard-rubber coating |
| Bonnet               | Ductile cast iron EN-JS1030 <sup>7)</sup>   | Ductile cast iron EN-JS1030 <sup>7)</sup>                             |
| Diaphragm            | Grade according to working<br>conditions <sup>2)</sup>  | Grade according to working<br>conditions <sup>2)</sup>                |
| Stem                 | Ferritic chrome steel   | Ferritic chrome steel   |
| Threaded bush        | Brass   | Brass   |
| Connecting bolts     | Steel   | Steel   |
| Handwheel            | Cast iron   | Cast iron   |
| Corrosion protection | Prime coat: chlorine-free caoutchouc derivative with modified alkyd resin<br>Additionally external: synthetic resin varnish, sky blue, RAL 5015 |   |

### Features

With straight full bore, without stuffing-box, absolutely leaktight, with rising stem and non-rising handwheel. The valve is closed by turning the handwheel in clockwise direction. The travel stop is also serving as indicating device. Provided with grease nipple for lubrication of threaded bush and stem. Diaphragm can be replaced without removing the valve from the pipeline.

### Dimensions

| Size<br>DN | Face-to-face<br>dimension<br>L <sup>8)</sup><br>mm | Height<br>(approx.)<br>H<br>mm | Flange dia.<br>D<br>mm | Handwheel<br>dia.<br>d<br>mm | Weight <sup>3)</sup><br>approx.<br>kg |
|------------|--|--------------------------------|------------------------|------------------------------|---------------------------------------|
| 15         | 130  | 105                            | 95                     | 80                           | 3,0                                   |
| 20         | 150  | 105                            | 105                    | 80                           | 4,0                                   |
| 25         | 160  | 140                            | 115                    | 120                          | 5,5                                   |
| 32         | 180  | 140                            | 140                    | 120                          | 8,0                                   |
| 40         | 200  | 140                            | 150                    | 120                          | 8,5                                   |
| 50         | 230  | 170                            | 165                    | 140                          | 16                                    |
| 65         | 290  | 235                            | 185                    | 200                          | 21                                    |
| 80         | 310  | 275                            | 200                    | 200                          | 23                                    |
| 100        | 350  | 295                            | 220                    | 250                          | 32                                    |
| 125        | 400  | 350                            | 250                    | 320                          | 55                                    |
| 150        | 480  | 440                            | 285                    | 320                          | 75                                    |
| 200        | 600  | 560                            | 340                    | 400                          | 125                                   |

<sup>1)</sup> Please specify for DN 80 if to be drilled with 4 or 8 holes

<sup>2)</sup> Diaphragm grade according to working pressure, flow medium, and working temperature.

<sup>3)</sup> Net weights (without obligation).

<sup>4)</sup> Only PN 10 and PN 6 to DIN 3359.

<sup>5)</sup> Rubber-coated valves up to max. 110 °C according to diaphragm grade.

<sup>6)</sup> According EN 12266 and 1074.

<sup>7)</sup> Corresponding to former DIN description 0.7040 (GGG-40).

<sup>8)</sup> According EN 558, FTF, basic serie 1.

