

MINIVAL

BY KDV

KDV's range of bi directional Weir Type diaphragm valves offer exceptional durability and reliability. The clean design completely isolates line media from the mechanical components of the valve. Bubble tight shutoff (class VI) and in-line serviceability (top entry) maximise plant efficiency and productivity.

Weir Type diaphragm valves are suited to on-off and control applications and can be custom specified to suit a wide variety of applications.



Key Features

Designed and Manufactured by KDV

KDV Diaphragm valves are manufactured to international standards. Precision machining and strict quality control ensure consistency, reliability and durability.

Common Applications

- Water and waste water
- Gases (e.g. compressed air)
- Lubricating oil
- Chemical
- Oxygen

In house manufacture and stock holdings allow KDV to deliver quickly, and reliably facilitate fast-track projects. Visit our website for more information on the full range of KDV Valves.



FEATURES AND BENEFITS

- Bubble-tight shut off
- Easy/low maintenance
- Readily available spare parts
- In-line serviceable (top entry)
- Excellent control characteristics
- Low fugitive emissions
- No stem leakage
- Line media isolated from valve mechanicals



Contact your KDV technical sales representative to ascertain correct valve and lining options for your specific application.

MATERIALS OF CONSTRUCTION

| PART | MATERIAL |
|-------------------|-------------------------------|
| 1. Body | Stainless Steel, CF8M (SS316) |
| 2. Bonnet Shell | Aluminium Alloy |
| 3. Hand Wheel | Powder Coated Aluminium Alloy |
| 4. Spindle | SS304, SS316 |
| 5. Diaphragm | See Table 1 |
| 6. Compressor | Aluminium Alloy |
| 7. Fasteners | 304, Stainless Steel |
| 8. Hand Wheel Pin | Spring Steel |

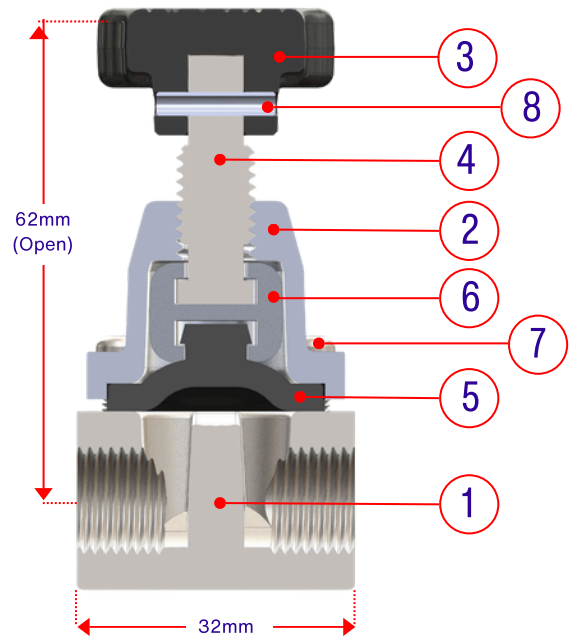


TABLE 1 - DIAPHRAGM GRADE AND MATERIALS

| GRADE | MATERIALS |
|-------|-----------------------------------------------------------------|
| 10 | Natural Rubber NR |
| 20 | EPDM/Black Ethylene Propylene Rubber |
| 22 | EPDM/Food Grade (FDA) |
| 30 | Butyl Rubber IIR Chlorobutyl - Isobutylene Isoprene Halogenated |
| 40 | Nitrile Rubber NBR Acrylonitrile Butadiene Rubber |
| 50 | Neoprene CR Chloroprene Rubber |
| 60 | Hypalon CSM Chlorosulfonated Polyethylene |
| 70 | FKM/Viton FPM Fluorinated Elastomer |



PRESSURE RATING

ELASTOMER DIAPHRAGMS

1/4" (DN8) - 3/8" (DN10) 16 Bar (1600 kPa | 232 PSI)

MATERIAL SPECIFICATIONS

- Stainless Steel (ASTM A351 Gr CF8M)
- Aluminium Standard (JIS-H5302)

TESTING STANDARDS

EN12266-2 2002 (BS6755 Part 1)

THREAD STANDARDS

- ANSI B2.1 NPT
- AS1722.1 Part 1 BSPP

DESIGN STANDARDS

EN13397-2001 (BS5156:1985)

ALSO AVAILABLE IN 3/8" (DN10)

KDV offers both 1/4" (DN8) and 3/8" (DN10) valves, the latter being a universal fit for many pipelines.

The 3/8" size provides better flow capacity and minimal pressure drop, ideal for operations requiring higher throughput without sacrificing cleanliness or reliability.



3/8" (10mm)



1/4" (8mm)

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