# KMD 402

## Pneumatically Operated Valve DN 15 - 50 mm (3/4" - 2 1/2")



Cf. 4, 5 & 6

### Features
- **Plastic piston actuator**
- Compact design
- Actuator high resistance to heat transfer
- Control air connection in flow direction
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm
- Smooth exterior design ideal for wash downs

### Optional
- Available with a wide range of control equipment and accessories see page 118 to 125, also for retrofitting
- Control air connection 90° to flow direction

### Technical Data

| | |
|---|---|
| Control function (Cf.): | Pneumatically operated |
| | Fail safe close (NC):  Cf. 1 & **4** |
| | Fail safe open (NO):  Cf. 2 & **5** |
| | Double acting  (DA):  Cf. 3 & **6** |
| Direction | |
| Control connection: | At Cf. 4, 5 & 6, in flow direction, standard |
| | At Cf. 1, 2 & 3, 90° to flow direction |
| Max. working pressure: | Unidirectional (delta p = 100%) |
| | EPDM Diaphragm   10 bar (150 psi) |
| | PTFE Diaphragm    8 bar (115 psi) |

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

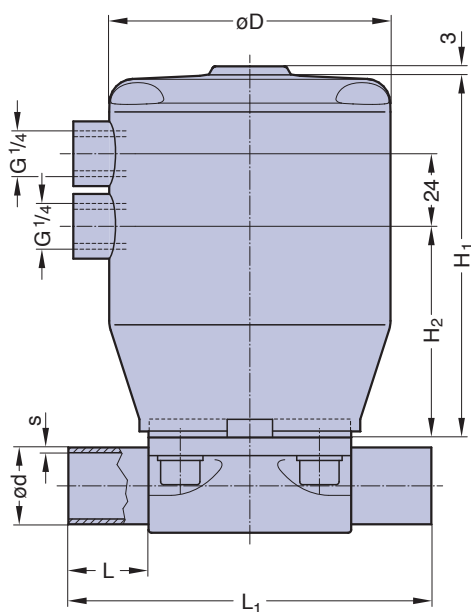| | |
|---|---|
| Max. working temperature: | HS-Version 150°C (300°F) |
| | dependent on application |
| Control pressure: | Cf. 1 & 4          4,5 - 7 bar (65 - 100 psi) |
| | Cf. 2, 3, 5 & 6      4 - 5 bar (60 - 72 psi) |
| Diaphragm material: | EPDM or PTFE |
| Valve body material: | Forged 1.4435/ 316 L  ASME/BPE |
| | Investment cast 1.4435/ 316 L |
| | Other alloys |
| End connection: | Butt weld ends see fold out page 21 |
| | Clamps and flanges see page 22 and 23 |
| | Special ends |
| Actuators suitable for: | Two-Way bodies |
| | Welded configurations |
| Flow rate: | Kv in m$^3$/h (Cv in GPM) see page 9 |
| Diaphragm size: | MA see table below |



Cf. 4, 5 & 6

Butt weld ends
MA 25 - 50
Fold out page 21

| DN | | Dimensions (mm) | | | | | Total weight ca. (kg) | | Filling volume (NL) | |
|---|---|---|---|---|---|---|---|---|---|---|
| (mm) | MA | L | L$_1$ | H$_1$ | H$_2$ | D | Investment cast | Forged | NC | NO/DA |
| 15-25 | 25 | 25 | 120 | 120 | 70 | 95 | 1,5 | 1,6 | 0,17 | 0,20 |
| 32-40 | 40 | 25 | 153 | 133 | 75 | 115 | 2,8 | 3,1 | 0,31 | 0,34 |
| 50 | 50 | 30 | 173 | 173 | 111 | 144 | 4,9 | 6,0 | 0,68 | 0,80 |