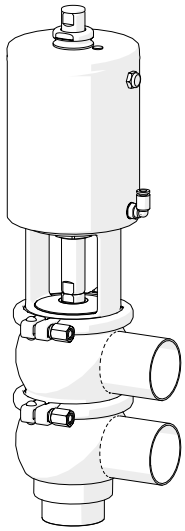
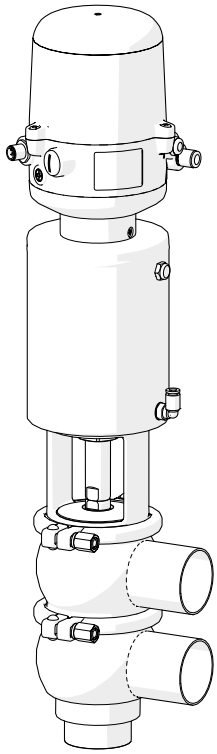
# INNOVA K

## Divert Single Seat Valve





## APPLICATION

The INNOVA K-type valve is a pneumatic divert seat valve designed for hygienic applications.

## DESIGN AND FEATURES

Hygienic design according to EHEDG.
Gasket with specific profile guarantees reliability under adverse working conditions.
Hygienic design of the gasket ensures optimal cleaning.
Single-acting pneumatic actuator.
The valve can be changed to normally open (NO) by simply reversing the position of the pneumatic actuator.
Easy assembly/disassembly of internal parts by loosening a clamp fastener.
Open lantern allows visual inspection of shaft sealing.
360º adjustable body.
The valve is authorized to carry 3-A symbol. Consult the options of the valves authorized to carry 3-A symbol.

## TECHNICAL SPECIFICATIONS

3-A®
Standard Number 53-07

**Materials**

| | |
|---|---|
| Parts in contact witht the product | 1.4404 (AISI 316L) |
| Other stainless steel parts | 1.4301 (AISI 304) |
| Gaskets in contact with the product | EPDM |

**Surface finish**

| | |
|---|---|
| Internal | Bright polish Ra ≤ 0,8 µm |
| External | Matt |

**Available sizes**

| | |
|---|---|
| DIN EN 10357 serie A<br>(previously DIN 11850 series 2) | DN 25 - DN 100 |
| ASTM A269/270<br>(corresponds to OD pipe) | OD 1” - OD 4” |

**Connections**

Weld

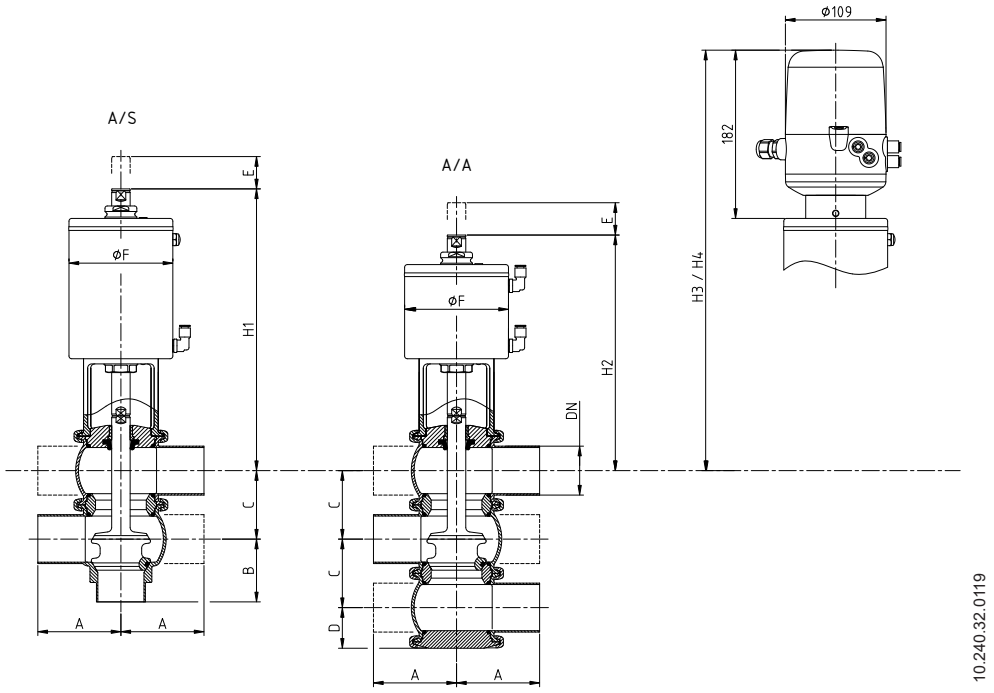
**Operating limits**

| | | |
|---|---|---|
| Temperature range | -10ºC to 121ºC | 14ºF to 250ºF |
| SIP temperature | 140ºC (maximum 30 minutes) | 284ºF |
| Maximum working pressure | 1000 kPa (10 bar) | 145 PSI |
| Minimum working pressure | Vacuum | Vacuum |
| Compresssed air pressure | 6 - 8 bar | 87 - 116 PSI |

## OPTIONS

Double-acting pneumatic actuator.
Gaskets: FPM, HNBR.
Other connection types.
Control unit.
External position sensors.
Surface finish: Ra < 0,5 µm.
Steam barrier.
Bodies with heating jacket.

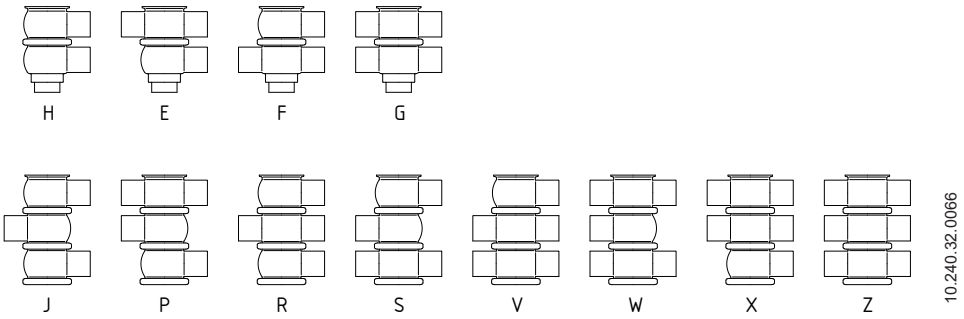
## DIMENSIONS




| | | | | | | | | | | | A/S | A/A | A/S | A/A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DN | Pipe | A | B | C | D | E | ØF | H1 | H2 | H3 | H4 | kg[1] | kg[1] |
| DIN | 25 | 29,0 x 1,50 | 50 | 50 | 50 | 32 | 18 | 87 | 267 | 237 | 399 | 369 | 4,7 | 4,0 |
| | 40 | 41,0 x 1,50 | 85 | 60 | 62 | 38 | 17 | 87 | 276 | 246 | 408 | 378 | 6,2 | 5,5 |
| | 50 | 53,0 x 1,50 | 90 | 68 | 74 | 44 | 26 | 113 | 334 | 284 | 457 | 407 | 9,7 | 8,1 |
| | 65 | 70,0 x 2,00 | 110 | 81 | 92 | 53 | 25 | 136 | 347 | 297 | 472 | 422 | 15,4 | 12,7 |
| | 80 | 85,0 x 2,00 | 125 | 90 | 107 | 60 | 22 | 136 | 352 | 302 | 479 | 429 | 17,8 | 15,1 |
| | 100 | 104 x 2,00 | 150 | 125 | 127 | 70 | 29 | 166 | 380 | 330 | 501 | 451 | 26,5 | 22,3 |
| OD | 1" | 25,4 x 1,65 | 50 | 50 | 46 | 30 | 14 | 87 | 269 | 239 | 397 | 367 | 4,7 | 4,0 |
| | 1½" | 38,1 x 1,65 | 85 | 60 | 59 | 36 | 14 | 87 | 277 | 247 | 407 | 377 | 6,1 | 5,4 |
| | 2" | 50,8 x 1,65 | 90 | 68 | 72 | 43 | 23 | 113 | 335 | 285 | 456 | 406 | 9,6 | 8,0 |
| | 2½" | 63,5 x 1,65 | 110 | 81 | 86 | 50 | 19 | 136 | 350 | 300 | 469 | 419 | 15,3 | 12,5 |
| | 3" | 76,2 x 1,65 | 125 | 90 | 99 | 56 | 14 | 136 | 356 | 306 | 475 | 425 | 17,6 | 14,8 |
| | 4" | 101,6 x 2,11 | 150 | 125 | 124 | 69 | 26 | 166 | 381 | 331 | 500 | 450 | 26,4 | 22,2 |

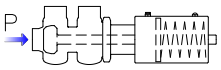
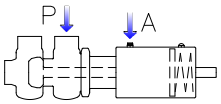
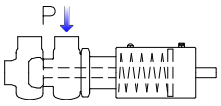
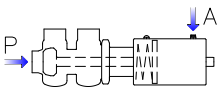
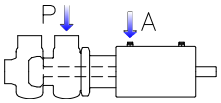
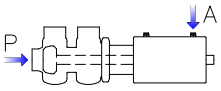
1) The weights correspond to the "H" housing combination

## HOUSING COMBINATIONS

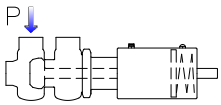


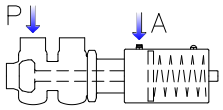
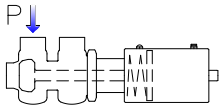
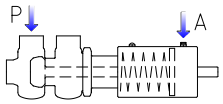

## MAXIMUM PRESSURES

Maximum pressure in bar / PSI without leakage at the valve seat

| Actuator/valve body combination and direction of pressure | Air pressure [bar] / [PSI] | Plug position | DN 25 OD 1” | DN 40 OD 1½” | DN 50 OD 2” | DN 65 OD 2½” | DN 80 OD 3” | DN 100 OD 4” |
|---|---|---|---|---|---|---|---|---|
| | | | [bar] / [PSI] | | | | | |
|  | 6 / 87 | NC | 10 / 145 | 5,5 / 80 | 5,4 / 79 | 4,5 / 66 | 3,9 / 57 | 4,4 / 64 |
|  | 6 / 87 | NC | 10 / 145 | 9 / 130 | 10 / 145 | 7,9 / 114 | 6,7 / 98 | 6 / 87 |
|  | 6 / 87 | NO | 10 / 145 | 6,2 / 89 | 6,1 / 89 | 4,8 / 70 | 4,2 / 60 | 4,5 / 66 |
|  | 6 / 87 | NO | 10 / 145 | 8 / 116 | 9,5 / 138 | 7,4 / 107 | 6,4 / 92 | 5,8 / 84 |
|  | 6 / 87 | A/A | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 |
|  | 6 / 87 | A/A | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 | 10 / 145 |

Maximum pressure in bar / PSI against which the valve can open

| Actuator/valve body combination and direction of pressure | Air pressure [bar] / [PSI] | Plug position | DN 25 OD 1” | DN 40 OD 1½” | DN 50 OD 2” | DN 65 OD 2½” | DN 80 OD 3” | DN 100 OD 4” |
|---|---|---|---|---|---|---|---|---|
| | | | [bar] / [PSI] | | | | | |
|  | 6 / 87 | NC | 10 / 145 | 7,4 / 108 | 7 / 102 | 5,9 / 86 | 5,1 / 74 | 5,7 / 83 |

| Actuator/valve body combination and direction of pressure | Air pressure | Plug position | DN 25 OD 1” | DN 40 OD 1½” | DN 50 OD 2” | DN 65 OD 2½” | DN 80 OD 3” | DN 100 OD 4” |
|---|---|---|---|---|---|---|---|---|
| | [bar] / [PSI] | | [bar] / [PSI] | | | | | |
|  | 6 / 87 | NC | 10 / 145 | 10 / 145 | 10 / 145 | 9,3 / 135 | 8 / 116 | 7,3 / 106 |
|  | 6 / 87 | NO | 10 / 145 | 8,3 / 121 | 8 / 116 | 6,3 / 91 | 5,4 / 78 | 5,9 / 86 |
|  | 6 / 87 | NO | 10 / 145 | 9,9 / 144 | 10 / 145 | 8,7 / 127 | 7,6 / 110 | 7,1 / 103 |

A ≡ air
P ≡ product pressure
NC ≡ normally closed valve
NO ≡ normally open valve
A/A ≡ double acting valve
Values for standard actuators
For other pressures, bigger actuators can be assembled