



Flanged Orion control valve Type OR910 / USA-Type 9200



Features

- Control valve in sizes 1", 1,5" and 2"
- Globe cast body
- Maximum allowable pressure 50 bar
- Suitable for control of medium flow
- Flanges welded to the body
- Bonnet bolted with 4 screws

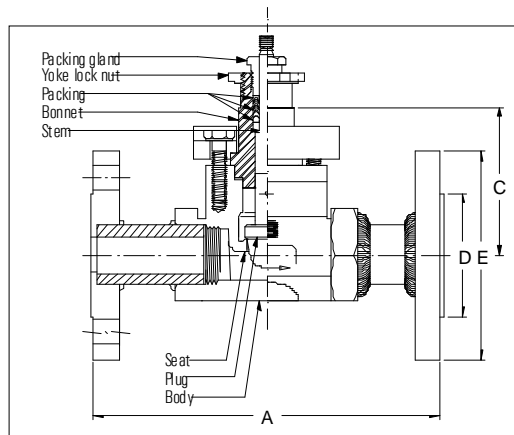
Applications

Suitable for control of liquids, gases or steam, in industrial applications. For any kind of precise control.

Options

- PTFE PFA soft seating
- Seat leakage Class 5 or 6
- Double packing
- Double packing with Purge Port
- Positioners, i/p-converters, filter regulators, limit switches, solenoid valves, gauges

Dimensions



Notes

- Below -29°C and above +260°C use optional 316 SS bonnet studs
- Maximum temperature for PTFE-Packing is 232°C
- Consider Grafoil packing or extended bonnet above 232°C
- Consider Stellite^{®(1)} above 316°C

Valve materials

| | |
|----------------|-------------|
| Body | Bonnet |
| 316 SS casting | 316 SS |
| Alloy C | Alloy C 276 |

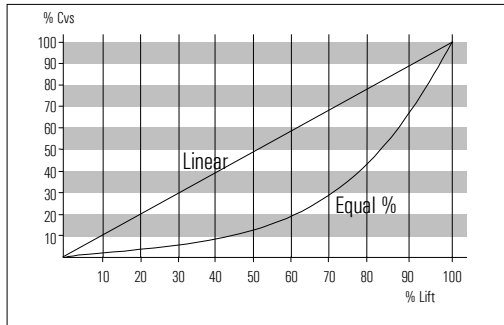
Innervalue materials

| | |
|--------------------------------|--------------------------------|
| Plug | Seat |
| 316 SS | 316 SS |
| Alloy C 276 | Alloy C 276 |
| 316 SS stellite ⁽¹⁾ | 316 SS stellite ⁽¹⁾ |

Gasket: Grafoil
Packing: PTFE- CV-rings, REK, Graphite

⁽¹⁾ Stellite[®] is a registered trademark of Deloro Stellite Holdings Corporation.

Innervalue characteristic



Pressure-temperature rating

| | 150# | 300# | PN16 | PN40 |
|------------------|----------------|----------------|----------------|----------------|
| Temperature (°C) | Pressure (bar) | Pressure (bar) | Pressure (bar) | Pressure (bar) |
| 20 | 19 | 50 | 16 | 40 |
| 100 | 16 | 42 | 14 | 37 |
| 200 | 13 | 36 | 13 | 33 |
| 300 | 10 | 32 | 12 | 29 |
| 400 | 6 | 29 | 11 | 28 |
| 500 | 2 | 26 | 10 | 27 |

Seat leakage

0.01% of Cvs

ANSI Class IV

Innervalue chart

Maximum allowable pressure drop (bar)

| Nennweite | Sitzdurchm. (mm) | Sitzfläche (cm ²) | Kvs (linear) | Kvs (= %) | Schliessdruck | Betriebsdruck |
|------------|------------------|-------------------------------|--------------|-----------|---------------|---------------|
| Valve size | Port dia. (mm) | Port area (cm ²) | Cvs (linear) | Cvs (= %) | Shut Off Δp | Operation Δp |
| 2" | 38,1 | 11,4 | 25 | 20 | 20 | 10 |
| 2" | 28,6 | 6,44 | 21 | 17 | 38 | 19 |
| 2" | 20,6 | 3,35 | 17 | 15 | 50 | 37 |
| 2" | 15,9 | 2 | 8,5 | 8,5 | 50 | 41 |
| 1,5" | 28,6 | 6,44 | 15 | 14 | 31 | 15,5 |
| 1,5" | 20,6 | 3,35 | 11 | 10 | 50 | 37 |
| 1,5" | 15,9 | 2 | 7 | 6,5 | 50 | 41 |
| 1,5" | 15,9 | 2 | 4 | 4,0 | 50 | 41 |
| 1" | 20,6 | 3,35 | 8,3 | 7,0 | 50 | 37 |
| 1" | 12,7 | 1,29 | 5,3 | 4,5 | 50 | 45,5 |
| 1" | 12,7 | 1,29 | 2,0 | 2,0 | 50 | 45,5 |
| 1" | 12,7 | 1,29 | 1,0 | 1,0 | 50 | 45,5 |
| 1" | 3,96 | 0,13 | 0,5 | 0,5 | 50 | 50 |
| 1" | 3,96 | 0,13 | 0,2 | 0,2 | 50 | 50 |
| 1" | 3,96 | 0,13 | 0,1 | 0,1 | 50 | 50 |
| 1" | 3,96 | 0,13 | 0,05 | 0,05 | 50 | 50 |
| 1" | 3,96 | 0,13 | 0,02 | - | 50 | 50 |

Integral seat

Rangeability: Linear 50:1, Equal percent: 60:1

| DN / PN | A | B | C | D | E | F |
|-------------|--------|-------|----|-------|------|-------|
| 2" x 150# | 254 | 76,2 | 92 | 152,4 | 28,7 | 19,02 |
| 2" x 300# | 266,7 | 82,55 | 92 | 165,1 | 28,7 | 19,02 |
| 50 / 16 | 230 | 82,5 | 92 | 165 | 28,7 | 19,02 |
| 50 / 40 | 230 | 82,5 | 92 | 165 | 28,7 | 19,02 |
| 1,5" x 150# | 222,25 | 63,5 | 88 | 127 | 28,7 | 19,02 |
| 1,5" x 300# | 234,95 | 77,7 | 88 | 155,4 | 28,7 | 19,02 |
| 40 / 16 | 200 | 75 | 88 | 150 | 28,7 | 19,02 |
| 40 / 40 | 200 | 75 | 88 | 150 | 28,7 | 19,02 |
| 1" x 150# | 184,15 | 54 | 82 | 108 | 28,7 | 19,02 |
| 1" x 300# | 196,85 | 61,95 | 82 | 123,9 | 28,7 | 19,02 |
| 25 / 16 | 160 | 57,5 | 82 | 115 | 28,7 | 19,02 |
| 25 / 40 | 160 | 57,5 | 82 | 115 | 28,7 | 19,02 |

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