

Standard Orion valve Type OR900 / USA-Type 9000



Features

- Control valve in size 1", 1,5" and 2"
- Globe cast body
- Maximum allowable pressure 50 bar
- Suitable for control of medium flow
- Bellows sealed model as option

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

Valve materials

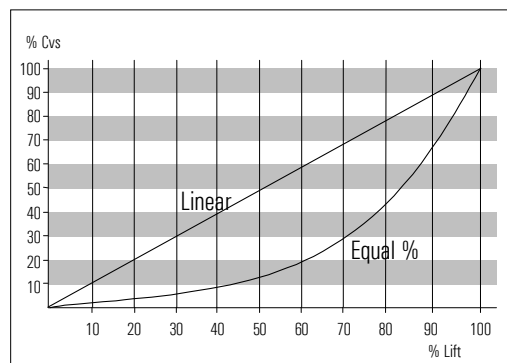
Body	Bonnet
316 SS casting	316 SS
Alloy C	Alloy C 276

Innervalue materials

Plug	Seat
316 SS	316 SS
Alloy C 276	Alloy C 276
316 SS stellited ⁽¹⁾	316 SS stellited ⁽¹⁾

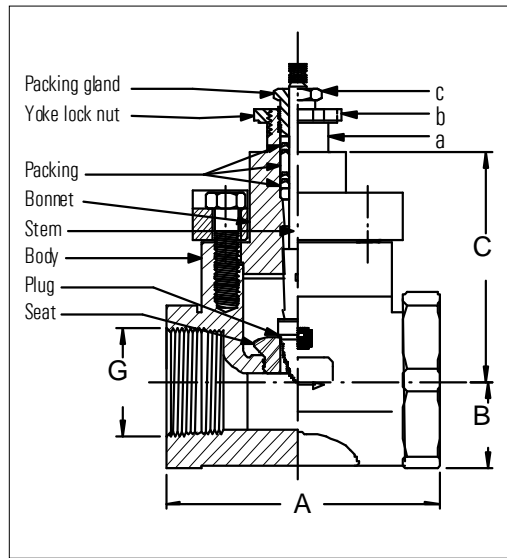
Gasket: Graphoil
 Packing: PTFE- CV-rings, REK, Graphite

Innervalue characteristic



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

Dimensions



G	A	B	C	D	E	F
2"	124	45	92	92,075	28,7	19,05
1,5"	115	38	88	73,025	28,7	19,05
1"	102	25,4	82	50,8	28,7	19,05

Seat leakage

0,01% of Cvs

ANSI Class IV

Pressure-temperature rating

Temperature (°C)	Pressure (bar)
38	49,6
93	42,7
149	38,6
204	35,5
260	33,1
316	31
371	29,6
427	28,6
482	27,2
538	25,1

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 above 232°C
- Consider Stellite^{®(1)} above 316° C

Connections

NPT-threads or wafer

Bonnet bolted with 4 screws

Innervalve chart

Valve size	Port dia. (mm)	Port area (cm ²)	Cvs (linear)	Cvs (= %)	Maximum allowable pressure drop (bar)		FL
					Shut Off Δp	Operation Δp	
2"	38,1	11,4	25	20	20	10	0,85
2"	28,6	6,44	21	17	38	19	0,86
2"	20,6	3,35	17	15	50	37	0,88
2"	15,9	2	8,5	8,5	50	41	0,9
1,5"	28,6	6,44	15	14	31	15,5	0,85
1,5"	20,6	3,35	11	10	50	37	0,87
1,5"	15,9	2	7	6,5	50	41	0,9
1,5"	15,9	2	4	4,0	50	41	0,92
1"	20,6	3,35	8,3	7,0	50	37	0,85
1"	12,7	1,29	5,3	4,5	50	45,5	0,87
1"	12,7	1,29	2,0	2,0	50	45,5	0,89
1"	12,7	1,29	1,0	1,0	50	45,5	0,91
1"	3,96	0,13	0,5	0,5	50	50	0,93
1"	3,96	0,13	0,2	0,2	50	50	0,94
1"	3,96	0,13	0,1	0,1	50	50	0,95
1"	3,96	0,13	0,05	0,05	50	50	0,96
1"	3,96	0,13	0,02	-	50	50	0,97

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

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