



BURKERT Globe valve free-flow Type 31095 series 2000 stainless steel entry below the valve pneumatic internal thread

Characteristics

Function: Two-way valve
Construction type: Free-flow
Housing material: Stainless steel
Material quality: 1.4404
Process connection: Internal thread [BSPP]
Standard connection: DIN ISO 228-1
Face to Face norm: Manufacturer standard
Type of disc: Fixed disc
Actuation: Pressure below the valve
Type of actuator: Pneumatic piston
Function actuator: Spring closing
Position indicator: Yes
Stem seal type: Roof cuffs
Primary spindle seal material: PTFE
Material disk sealing: PTFE
Material disc: 1.4401
Spindle material: Stainless steel
Material bonnet: 1.4401
Bonnet gasket material: Graphite
Level of protection (IP value): IP67
Approvals: ATEX IECEx
Max. viscosity: 600 mm²/s
Medium temperature: -10 / 185 °C

Application

- Neutral and slightly aggressive liquids.
- Steam.

Technical Information

- Water hammer damping for applications of non-compressible media.
- High flow capacity.
- Spring closure.
- Sealing in 2 directions.
- Process pressure below the valve.
- Low control air consumption
- Easy fitting.
- Maintenance free.
- Long service life ± 3 million switching operations.

Options

- 3-way control valve for direct mounting, type 33060 and type 33061, or via a control valve cluster.
- Mechanical valve position indicator with or without built-in control valve.
- Manual emergency operation.
- Stroke limiter for opening and/or closing.
- Piston operation with NAMUR connection for control valves.
- Piston operation of PPS ø 53–101 mm: Ambient temperature 5–140°C.
- Piston operation of PPS ø 127–153mm: Ambient temperature 5–90°C.
- Briefly to 140°C and pilot pressure max. 7bar.
- Process connection in NPT.
- Short valve body with a built-in length similar to that of the old 0251/2002 series.
- Double-acting piston operation without return spring.

Size process connection	Pressure rating	Kv value m ³ /h	Closing pressure bar	Type coding actuator	Pilot pressure	Actuator material	Ex-class	ATEX Zone	Ambient temperature °C	Article
3/8" [10]	PN25	3.7	15	C40	4 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 30	12036227
1/2" [15]	PN25	3.8	15	C40	4 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 30	13417366
3/4" [20]	PN16	9	20	E63	4.5 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 55	11815027
3/4" [20]	PN25	8.5	11	D50	4.1 - 10 bar	PPS	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	5 / 130	13417367

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Size process connection	Pressure rating	Kv value m ³ /h	Closing pressure bar	Type coding actuator	Pilot pressure	Actuator material	Ex-class	ATEX Zone	Ambient temperature °C	Article
1" [25]	PN25	18	11	E63	4.5 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 55	12183784
1" [25]	PN25	18	25	F80	5 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	13417365
1.1/4" [32]	PN25	27	14	F80	5 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	12183783
1.1/2" [40]	PN25	38	9	F80	5 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	13391288
2" [50]	PN25	55	7	G100	4.4 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	11815020
2" [50]	PN25	55	20	H125	5.7 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	12036226
2.1/2" [65]	PN25	90	12	H125	5.7 - 10 bar	PA	II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135 °C Db	Zone 1 / 21	-10 / 60	12036229

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