Text for tender

Gastight Rectangular Shut-Off Damper, Type GD-R

in solid and maintenance-free design, provided for systems with high tightness requirements. The damper housing and seat meet by far the permissible leakage rates specified by DIN 25 496.

* The damper is designed to operate without any failure at an operating pressure of 1.1 time the admissible operating pressure
* The tightness of the damper blade’s seat is testable in built-in situation
* The position of the damper blade is visible from outside. The damper blade is secured by a special toggle lever system in the “Open” and “Close” position
* All media-touched parts are welded continuously and without gaps to ensure an easy decontamination

Design

* Robust damper housing made of stainless steel in gastight design according to the tightness requirements of DIN 25 496, table 3, with connection flanges on both sides
* Seat plate made of stainless steel with a round opening and two circular sealing rings made from silicone rubber, designed as a test groove to test the required tightness of the damper seat. In order to test the leak free seat of the damper blade, the test groove can be connected to an appropriate seal test device via a fast acting coupling positioned outside the damper housing
* Circular damper blade made of stainless steel, conveyed by a kinematical lever system. The specially designed lever system made of stainless steel secures the damper blade’s end positions “Open” and “Close” by means of special toggle levers
* To protect the elastic and aging resistant seal, the opening of the damper blade starts with a parallel travel before turning into a rotating movement later
* Transmission of force to damper blade for the opening or closing process by means of external actuator, shaft and lever system. Gastight shaft transition through housing. Shaft sealing made from Perbunan
* Actuator can be electrical, pneumatic, or manual. Electrical actuator also available with spring return (fail-safe)

Technical data

* Fabricate: Krantz
* Type: GD-R
* Dimensions B x H x T: see table “Nominal sizes“ page 5
* Actuator: electrical / pneumatic / manual
* Adm. operating temperature for damper: – 40 °C to + 100 °C1)
* Adm. operating temperature for actuator: – 5 °C to + 70 °C1)
* Adm. operating pressure: 10 000 Pa
* Adm. pressure difference for damper blade in closing direction: 10 000 Pa
* Adm. leakage rate for housing including shaft transition acc. to DIN 25 496: 10 l / (h · m2)   
  at 1 bar, 20 °C and ∆p = 2 000 Pa
* Resistance to radiation: ≤ 105 Gy

1) Wider range of operating temperatures available on request.

Subject to technical alterations.

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