

Gas Tight Damper - Electric

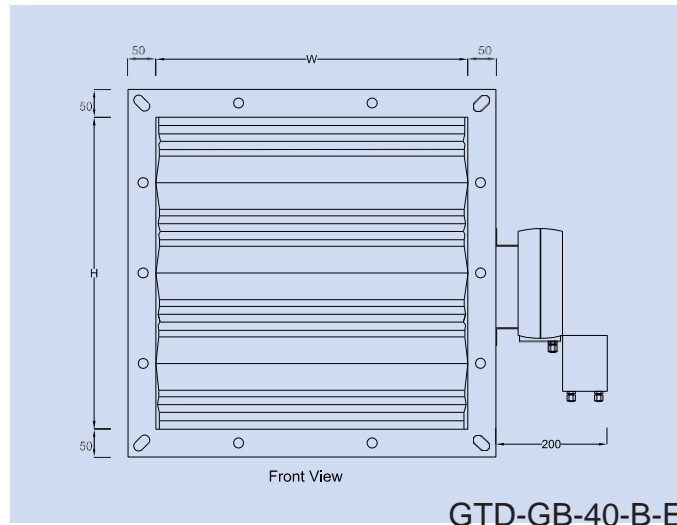
B-40 Series

Type : Gas Tight Damper

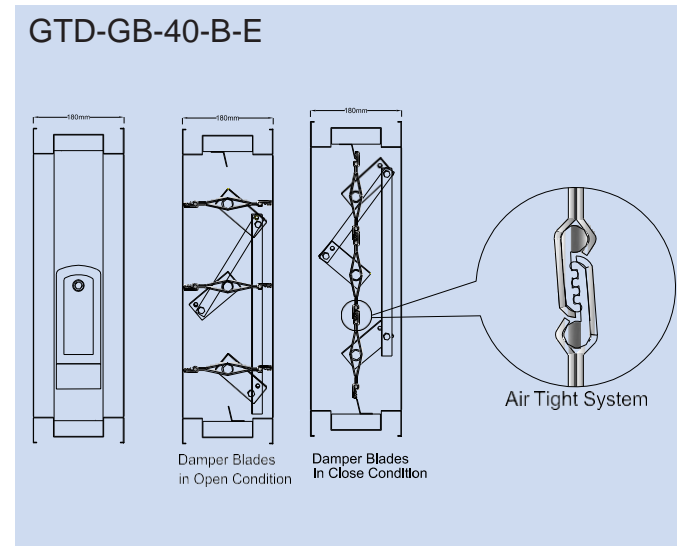
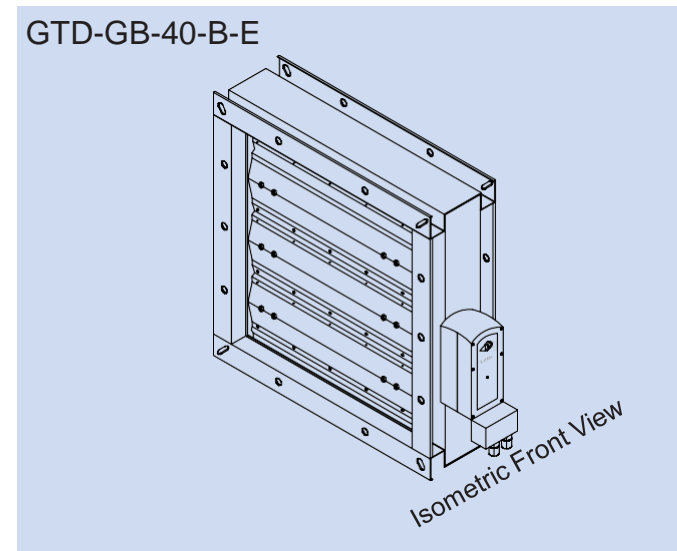
Model : For Electric Drive : GTD-GB-40-B-E

Blade : Aerofoil Type

Construction : Galvanized Steel (GI)
Stainless Steel (SS)



GTD-GB-40-B-E



Gas tight dampers are designed such that they can isolate sections of a ventilation system with a very high level of sealing (gas tight). This can be required for safety reasons in certain operational conditions.

GTD-GB-40-B-E shut of dampers are designed so that after closure, even with failure of power supply to the actuator, the damper maintains the sealed closure in accordance with KTA 3601 (Guidelines for Nuclear Plant) and A0 A60 (type approved) for Marine, Oil & Gas applications. The compact design and robust actuator mechanisms of these shut-off dampers enable them to be installed in any orientation.

Damper Ratings

Max Leakage Rating : As per Standards KTA 3601 (0.01 m³/h x m² at 2000 Pa)

Operational Rating : Actual ratings are size dependent

Air Velocity: 3000 fpm (15 mt/sec) 2000 Pa

Pressure : 8" water gauge (2KPa).

Max . Holding Pressure: 20" W.g (5Kpa)
(in closed condition)

Explosion Proof Ratings

Installation Area : Zone 1,2,21,22

Ambient temperature : -40°...+40°C (at T6)

-40°...+50°C (at T5)

Certification for Gases : II 2(1) G Ex d [ia] IIC T6

II 3 (1)G Ex nC [ia] IIC T6

II 3 (1)G Ex nC [ia] IIC T6

Certification for dust : II 2(1) G Ex d [ia] IIC T6

II 3 D Ex tD A22 IP66T80°C

Standard Construction

Frame

14 gauge (2 mm) thick galvanized steel sheet with 2" (50 mm) external flanges.

Blade

Double Skin blades (Aerofoil) of 14 gauge (2 mm) thick roll formed galvanized steel.

Blade Seals

300°C High temp, resistant Silicon rubber blade seals.

Jamb Seals

Stainless Steel.

Bearings

High temperature resistant concealed ball bearings.

Axle

¾" (19 mm) Diameter axle.

Drive : Operation by electric actuator 24V / 230 V

Model : Exmax / RedMax

Note : * Standard Construction.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.

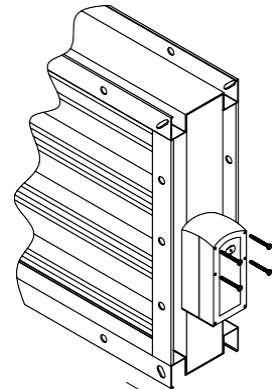


Gas Tight Damper - Electric

B-40 Series

Details Of Exposion Proof Actuators - ExMax Quarter turn Actuator For Zone -1,2,21, 22

Technical data	ExMax size S	ExMax size M
Torque*	5-30 Nm	30-150 Nm
Power supply, self adaptable	24-240 V AC / DC	24-240 V AC / DC
Frequency	50-60 HZ	50-60 HZ
Angle of rotation	95°	95°
Motor running time adjustable	3,15,30,60,120 sec/90°	40,60,90,120,150 sec/90°
Spring return*	1, 3, 10 sec/90° selectable	3, 20 sec/90° selectable
Control mode*	On-off, 3-pos, 0-10 V DC, 4-20 mA	On-off, 3-pos, 0-10 V DC, 4-20 mA
Feedback*	0-10 V DC, 4-20 mA	0-10 V DC, 4-20 mA
Squared shaft connection	12 x 12 mm Squared shaft	12 x 12 mm Squared shaft
Housing protection	IP66	IP66
Ambient temperature	-40°...+40°C (at T6) / -40°...+50°C (at T5)	-40°...+40°C (at T6) / -40°...+50°C (at T5)
Power supply	Cable ca. 1 m	Cable ca. 1 m
Weight	Alu ca. 3,5 kg, VA ca. 7 kg	Alu ca. 9,5 kg
Explosion proof for all	gases, mists, vapours, dust	gases, mists, vapours, dust
Installation area	zone 1, 2, 21, 22	zone 1, 2, 21, 22
Certification for gases	II 2(1) G Ex d [ia] IIC T6	II 2(1) G Ex d [ia] IIC T6
Certification for dust	II 2(1) G Ex d [ia] IIC T6	II 2(1) G Ex d [ia] IIC T6
*dependent by Type		

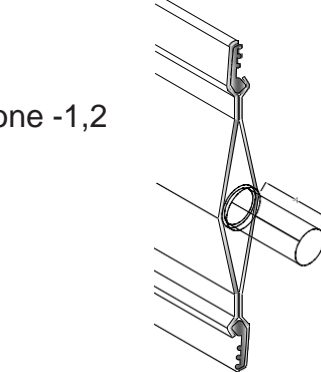


Accessories For ExMax

Type	Technical data
ExBox-Y/S	Ex-e terminal box connectable to ExMax-.. actuators with 2 cable, for modulating operation or 3-pos + integr, switches (HS)
MK<S	Mounting bracket for ...Sox-terminal boxes for direct coupling to ...Max.. actuators size „S“
KBS	Mounting clamp for round damper shaft Ø10 to 20 mm and squared shafts 10 to 16 mm, incl. bracket, connectable to all ExMax-... size „S“

Details Of Exposion Proof Actuators - RedMax Quarter turn Actuator For Zone -1,2

Technical data	RedMax size S	RedMax size M
Torque*	5-30 Nm	30-150 Nm
Power supply, self adaptable	24-240 V AC / DC	24-240 V AC / DC
Frequency	50-60 HZ	50-60 HZ
Angle of rotation	95°	95°
Motor running time adjustable	3,15,30,60,120 sec/90°	40,60,90,120,150 sec/90°
Spring return*	1, 3, 10 sec/90° selectable	3, 20 sec/90° selectable
Control mode*	On-off, 3-pos, 0-10 V DC, 4-20 mA	On-off, 3-pos, 0-10 V DC, 4-20 mA
Feedback*	0-10 V DC, 4-20 mA	0-10 V DC, 4-20 mA
Squared shaft connection	12 x 12 mm Squared shaft	12 x 12 mm Squared shaft
Housing protection	IP66	IP66
Ambient temperature	-40°...+40°C (at T6) / -40°...+50°C (at T5)	-40°...+40°C (at T6) / -40°...+50°C (at T5)
Power supply	Cable ca. 1 m	Cable ca. 1 m
Weight	Alu ca. 3,5 kg, VA ca. 7 kg	Alu ca. 9,5 kg
Explosion proof for all	gases, mists, vapours, dust	gases, mists, vapours, dust
Installation area	zone 2, 22	zone 2, 22
Certification for gases	II 3(1) G Ex nC [ia] IIC T6, II 3 G Ex nC II T6	II 3(1) G Ex nC [ia] IIC T6, II 3 G Ex nC II T6
Certification for dust	II 3 D Ex tD A22 IP66 T80 °C	II 3 D Ex tD A22 IP66 T80 °C
*dependent by Type		



Accessories For RedMax

Type	Technical data
RedBox-Y/S	Ex-e terminal box connectable to ExMax-.. actuators with 2 cable, for modulating operation or 3-pos + integr, switches (HS)
MK<S	Mounting bracket for ...Sox-terminal boxes for direct coupling to ...Max.. actuators size „S“
KBS	Mounting clamp for round damper shaft Ø10 to 20 mm and squared shafts 10 to 16 mm, incl. bracket, connectable to all ExMax-... size „S“

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