



NYBORG – MAWENT

FIRE DAMPER TYPE BSS - A30

CIRCULAR FIRE DAMPER

Damper BSS 250-1400 R-LD, R-LD-SK Class: A-0, A-15, A-30 is offered in range of nominal diameter from $\varnothing 250$ mm to $\varnothing 1400$ mm; length from 280 mm to 1400 mm. Fire damper is equipped with: Limit Switches Open/Close sensor, manual closing switch, thermoelectric fuse, pneumatic spring return actuator and thermal/sound insulation around. The advantage of BSS fire damper is sound damping feature. Bolting is acc. to **NORSOK H-003 / ISO 15138 annex E**.

1. DESTINATION

The places where fire dampers KPP are intended to be used are ventilation and air-conditioning ducts where passing A class divisions. They are designed to prevent the spread of fire within the ventilation ductwork. Allowable mounting positions are both vertical and horizontal (deck or bulkhead).

2. APPLICATION

Fire dampers BSS have been fire tested in accordance with FTP Code 2010. Fire class divisions are up to A-30. **Achieved certificate is MED 1463**. Fire dampers are to be installed at deck or bulkhead by means of penetration. Penetration to be produced in accordance to A-0 class as minimum. Gasket between damper and penetration must be of non-combustible material. As option **Promaglaf 5 mm** gasket could be delivered by producer of fire damper BSS.



3. OPERATION

Automatic fire dampers are manufactured with pneumatic actuator, single-acting, spring-return. Pneumatic actuator is supplied with nominal air pressure 6 bar. Allowed operating pressure is 3-8 bar. Fire damper BSS requires 24V AC/DC power supply for operation of solenoid valve. Damper release and reset time (open/close) is around 2 seconds each way.

4. EXECUTION / CONSTRUCTION

Fire damper consist of **barrel casing**, **rotating blade unit** and **automatic release unit**.

Casing is made of hot dip galvanized steel and equipped with insulation material.

Rotating blade unit is made of stainless steel.

Circular fire dampers are made **in series from $\varnothing 250$ mm to $\varnothing 1400$ mm**.

Bolting of flanges is done according to **ISO 15138**.

Fail-safe mechanism is based on thermal release device. Shift to safe position (closed) is executed automatically. Thermoelectric tripping device works when the temperature rises **above the level of 72 °C**, inside or outside the damper.

After melting of thermoelectric tripping device, damper is found used.

Damper may be closed by cut of electric power supply or manually by pushing a button on thermoelectric tripping device.

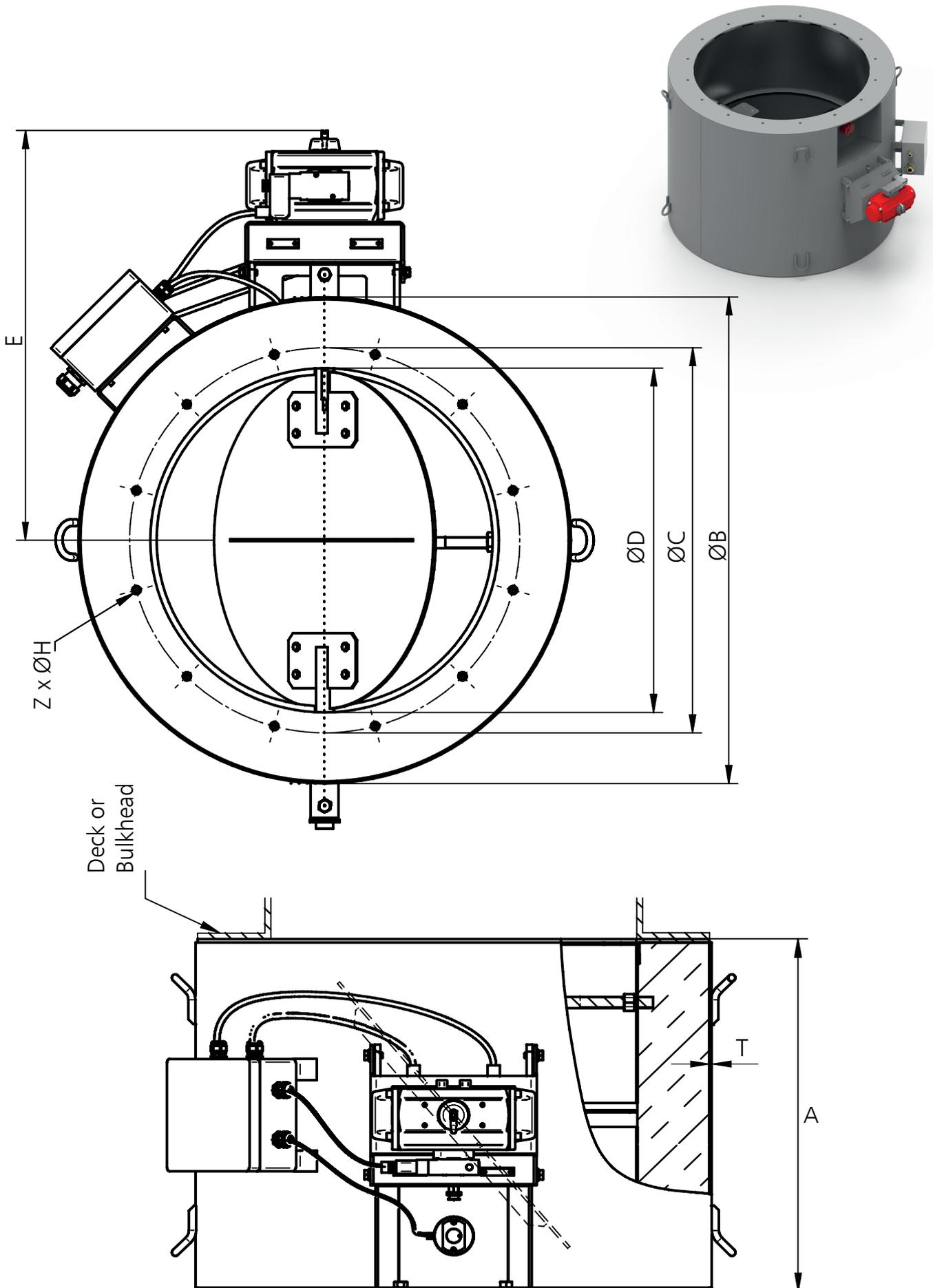
5. SIZES / DIMENSIONS

ØD [mm]	A [mm]	ØB [mm]	ØC [mm]	E [mm]	T [mm]	Z [pcs]	ØH [mm]	Mass [kg]
250	280	456	295	480	4	8	M10	50
315	315	521	360	520				60
400	400	606	459	560	5	12		80
450	450	656	509	590				90
500	500	706	559	610				100
560	560	766	619	630	6	16		110
630	630	838	689	670				150
710	710	918	769	710				175
800	800	1008	859	750				210
900	900	1108	959	800	8	24		250
1000	7000	1212	1059	860			395	
1120	1120	1332	1209	920			480	
1250	1250	1462	1339	980	8	32	M12	570
1400	1400	1612	1489	1060			680	

Certificates:

Marine Equipment Directive 2014/90/EU EC Type Examination held by Polish Ship Registry
Mark of Conformity 1463 (MED).

BSS – A-30



6. MARKING

An example of marking for fire damper:

- **mounting on deck:** BSS size R-LD,
- **mounting on bulkhead:** BSS size R-LD-SK.

Order Example:

- BSS 710 R-LD / A-30,
- 710 – Diameter / Length,
- R-LD – Mounted on a deck,
- R-LD-SK – Mounted on a bulkhead,
- A-30 – Class acc. To FTP Code.

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