

DESCRIPTION

The FDD fire dampers are type-approved class A0 (A60) for use in marine and offshore ventilation systems. The FDD can be installed in circular ducts. All fire dampers have a fusible link and they prevent the spread of fire and gasses within the ventilation ductwork. When the blade is in the open position, the device does not cause significant pressure loss, noise or flow disturbance. Fire dampers are set from outside and can be installed in any position. An open-closed indicator is visible on the outside of the damper. The FDD dampers are type-approved by most recognized classification societies. Blade contains glass fibre seals (effective up to 300°C) and thermal expansion graphite seals (effective from 150°C). Nominal release temperatures of fuses are 50°C, 74°C and 100°C. Automatic, electrical, pneumatic or spring operation system is available. Maximum duct pressure for damper construction is 5000Pa and maximum air velocity is 15m/s.

The FDD fire dampers meet international standards for circular ducts (Ø100-315mm). Sizes Ø100 and Ø125 are not available of stainless steel. Standard flange width is 27mm. Frame material thickness is minimum 3mm.

The FDD unit is available with following actuators:

- FDD-EL: electrical spring return motor, standard actuators being 24V or 230V or 120V. The motor contains built-in open-closed limit switches. Separate junction box included in the EL-model. A wide-range of ex-proof actuators are available, including a one second closing time function as an option;
- FDD-PNL: pneumatic linear actuator, material AISI 316;
- FDD-PNR: pneumatic rotating actuator;
- FDD-SP: manual spring-actuated damper with fusible link.

TECHNICAL SPECIFICATION & DIMENSIONS

- material frame: carbon steel (painted or galvanized) or stainless steel
- material blades: galvanized steel or stainless steel
- material maintenance-free bearings: stainless steel (bronze bearings optional)
- shafts: stainless steel

FDD dimensions [mm] without flanges (standard)

D	L	FDD-EL	FDD-PNL	FDD-PNR	FDD-SP
		R	R	R	R
100	200	317	317	-	-
125	200	317	317	-	-
160	200	317	317	-	-
200	320	362	362	-	-
250	320	362	362	-	-
315	320	362	362	-	-

FDD dimensions [mm] with flanges (option)

D	S	K	T	N	L	FDD-EL			FDD-PNL			FDD-PNR			FDD-SP		
						H	A	R	H	A	R	H	A	R	H	A	R
100	200	120	7	4	206	295	300	320	295	500	520	340	300	-	295	200	-
125	225	150	7	4	206	310	315	320	310	515	520	355	315	-	310	225	-
160	260	185	7	4	206	350	330	320	350	530	520	395	330	-	350	260	-
200	300	225	7	4	326	390	350	365	390	550	565	435	350	-	390	300	-
250	350	280	10	4	326	440	375	365	440	575	565	485	375	-	440	350	-
315	415	355	10	8	326	505	410	365	505	610	565	550	410	-	505	415	-

