DESCRIPTION

The FDB2 fire dampers are type-approved class A0 (A60) fire and gas dampers for use in offshore, marine and navy ventilation systems. The unit can be installed in rectangular or circular ducts. All fire dampers have a fusible link and they prevent the spread of fire and gases within the ventilation ductwork. When the blades are 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. Fire dampers with non-standard dimensions can be supplied on request.
Blades contain silicone (effective up to 300°C) for low leakage in normal conditions and thermal expansion graphite seals (effective from 150°C) to increase tightness even up to 50% in a case of fire. Nominal fuse release temperature is 50°C, 74°C or 100°C. The unit has low weight due to double skin blade structure. Maximum duct pressure for damper construction is 5000Pa and maximum air velocity is 15m/s. FBD2 fire dampers meet international standards for both rectangular (width B 100-1200mm and height H 100-1600mm, 1mm division) and circular ducts (Ø100-1250mm). Standard flange width is 27mm. Flanges and drilling are also available according to ISO 15138 standards. Modular construction sizes up to 2400x3200mm are available. Standard frame material thickness is 3mm. Frame thickness 3-5mm according to SOLAS are available on request.

TECHNICAL SPECIFICATION & DIMENSIONS

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

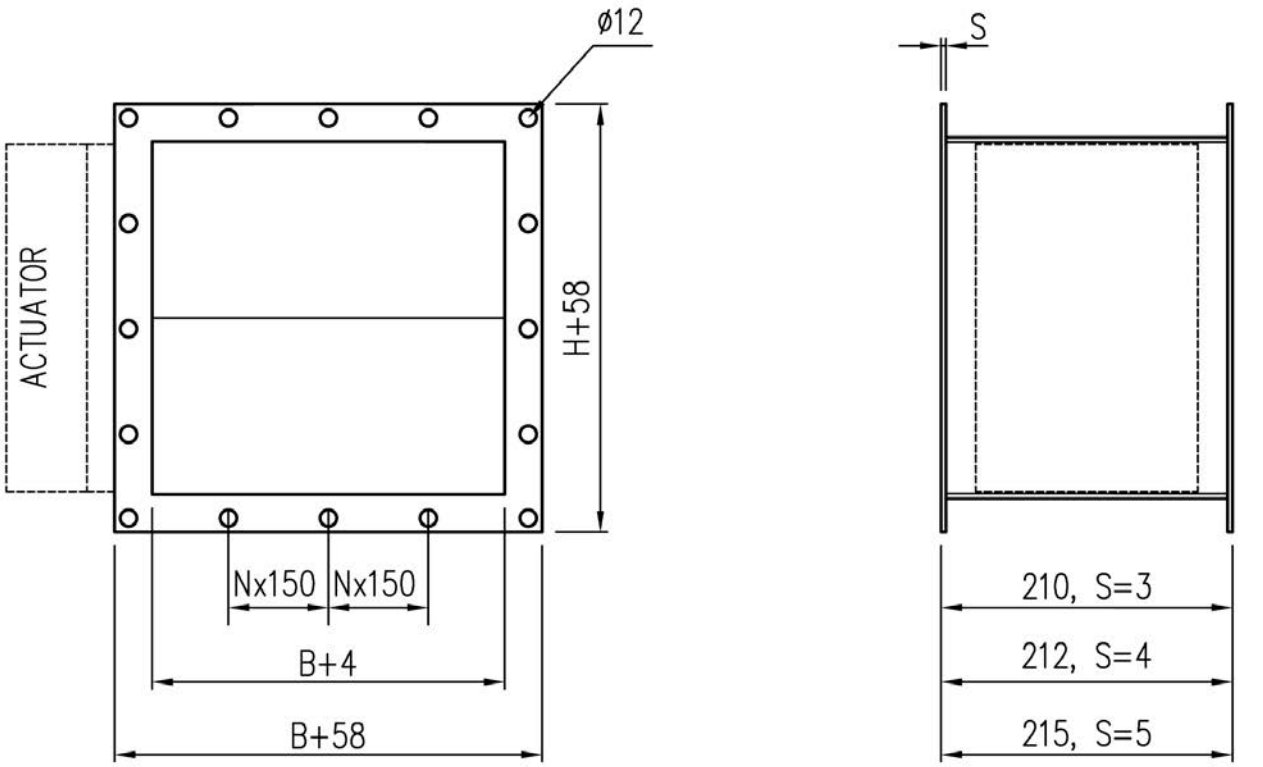
Dimensions	S [mm]	L [mm] rectangular connection	K [mm] circular connection
If B or H ≥ 100, but ≤ 449	3	210	361
If B or H ≥ 450, but ≤ 649	4	212	365
If B or H ≥ 650	5	215	370

Weights [kg] of standard FBD2 dampers without an actuator

H [mm]	B [mm]											
	100	200	300	400	500	600	700	800	900	1000	1100	1200
100	5 (5)	7 (7)	9 (9)	10 (10)	12 (13)	14 (15)	15 (22)	17 (25)	19 (27)	20 (30)	22 (32)	24 (35)
200	7 (7)	9 (9)	11 (11)	12 (12)	14 (16)	16 (18)	18 (26)	20 (28)	22 (31)	23 (34)	25 (36)	27 (39)
300	9 (9)	11 (11)	13 (13)	15 (15)	17 (19)	19 (21)	21 (30)	23 (32)	25 (35)	27 (38)	29 (41)	31 (43)
400	11 (11)	13 (13)	15 (15)	17 (17)	20 (22)	22 (24)	24 (33)	26 (36)	28 (39)	30 (42)	32 (45)	34 (48)
500	13 (16)	16 (19)	18 (22)	21 (25)	23 (27)	25 (30)	28 (38)	30 (41)	32 (44)	35 (47)	37 (50)	39 (54)
600	15 (18)	18 (21)	20 (24)	23 (27)	25 (30)	28 (33)	30 (41)	33 (45)	35 (48)	38 (51)	40 (55)	43 (58)
700	18 (25)	21 (28)	23 (32)	26 (35)	29 (39)	32 (42)	34 (46)	37 (50)	40 (53)	42 (57)	45 (60)	48 (64)
800	20 (27)	23 (31)	25 (35)	28 (38)	31 (42)	34 (46)	37 (50)	40 (53)	43 (57)	46 (61)	49 (64)	51 (68)
900	22 (31)	25 (35)	28 (39)	32 (42)	35 (46)	38 (50)	41 (54)	44 (58)	47 (62)	50 (66)	53 (70)	56 (74)
1000	24 (33)	27 (37)	31 (41)	34 (45)	37 (50)	40 (54)	44 (58)	47 (62)	50 (66)	53 (70)	57 (74)	60 (78)
1100	26 (36)	30 (41)	33 (45)	37 (49)	40 (54)	44 (58)	47 (62)	51 (67)	54 (71)	58 (75)	61 (79)	65 (84)
1200	28 (39)	32 (44)	36 (48)	39 (52)	43 (57)	46 (61)	50 (66)	54 (70)	57 (75)	61 (79)	65 (84)	68 (88)
1300	31 (42)	35 (47)	38 (52)	42 (56)	46 (61)	50 (66)	54 (70)	58 (75)	62 (80)	65 (84)	69 (89)	73 (94)
1400	32 (45)	37 (50)	41 (55)	45 (59)	49 (64)	53 (69)	57 (74)	61 (79)	65 (84)	69 (88)	73 (93)	77 (98)
1500	35 (48)	39 (53)	43 (58)	48 (63)	52 (68)	56 (73)	60 (78)	65 (83)	69 (89)	73 (94)	77 (99)	82(104)
1600	36 (51)	41 (56)	45 (61)	50 (66)	54 (72)	59 (77)	63 (82)	67 (87)	72 (92)	76 (98)	81(103)	85(108)

(Frame thickness according to SOLAS)

Rectangular, S – according to SOLAS



ØD [mm]	Weight [kg]	ØD [mm]	Weight [kg]
100	8 (8)	400	27 (27)
125	8 (8)	500	35 (43)
160	12 (12)	630	46 (62)
200	13 (13)	800	62 (89)
250	19 (19)	1000	83 (118)
315	20 (20)	1250	113 (162)

Circular with connection flanges, S – according to SOLAS