PRESSURE RELIEF DAMPER

Halton BRD for offshore applications

Halton BRD pressure relief dampers are used in offshore and marine applications to prevent backflow through ventilation ductwork system. The Halton pressure relief dampers do not need an actuator or motor. The BRD dampers can be installed in rectangular or circular ducts horizontally or vertically. Opening pressure can easily be set by adjusting weight of each damper/installation. Weights are included in the delivery. Pressure relief dampers can be supplied with non-standard dimensions on request.

Features

- Fixed frame in painted, galvanized or stainless steel. Blades of galvanized or stainless steel. Maintenance-free stainless steel bearings and shafts. Bronze bearings available as an option
- Models for horizontal or vertical installation
- Blades contain silicone seal to lower the leakage through blades
- Blades linked together and open in parallel
- Opening pressure adjusted by changing the position of counterweight(s)
- Opening pressure range between 30 Pa and 150 Pa (up to 300 Pa optional)
- Counterweights included
- Standard construction places weights on the right hand side, weights on the left hand side available as an option
- Final adjustment of counterweights carried out during commissioning
- Maximum duct pressure 2000 Pa, maximun air velocity 20 m/s

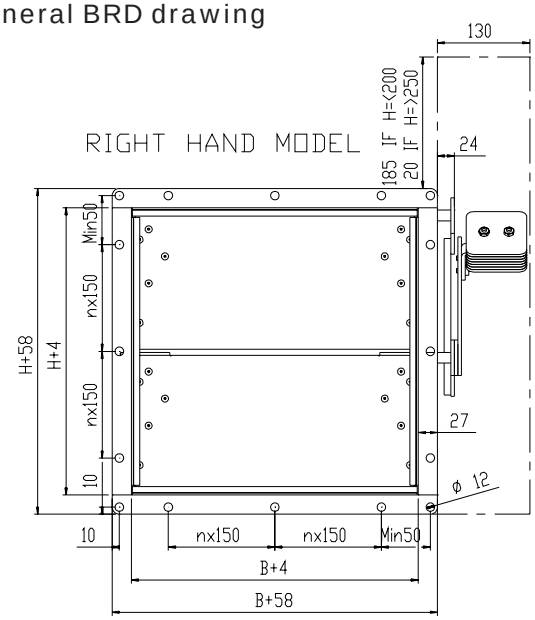
BRD dimensions and material thickness

BRD pressure relief dampers meet international standards for both rectangular (width B 200-1200 and height H 200-1400 mm, 50 mm division) and circular ducts (Ø100 - 1250 mm). Special non-standard dimensions are available on request. Modular construction sizes up to 2400x2800 mm are available. Standard thickness of frame material is 3 mm. Blades are made of two sheets, each being 0.8 mm thick.

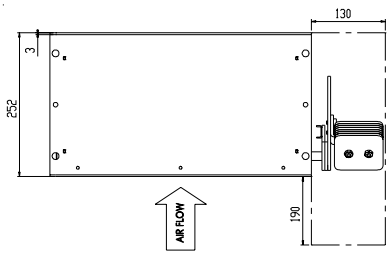
Weights, BRD including standard counterweights (kg)

	B / Width(mm)										
H / Height (mm)	200	300	400	500	600	700	800	900	1000	1100	1200
200	12	12	14	16	19	20	22	24	26	28	29
300	13	15	18	20	21	24	26	29	31	34	35
400	15	18	20	23	25	28	30	33	36	37	40
500	17	21	24	27	29	32	35	37	40	43	45
600	20	24	26	29	32	36	39	42	45	47	51
700	23	26	30	33	37	40	43	47	50	53	57
800	25	24	33	36	40	43	47	51	54	58	62
900	28	32	36	39	44	48	52	56	60	63	67
1000	30	34	39	43	48	51	55	60	64	68	72
1100	33	38	42	47	51	56	60	65	70	72	78
1200	35	40	45	50	54	59	64	69	74	78	84
1300	38	44	48	53	58	64	69	74	79	83	89
1400	40	46	51	56	62	67	73	78	83	88	94

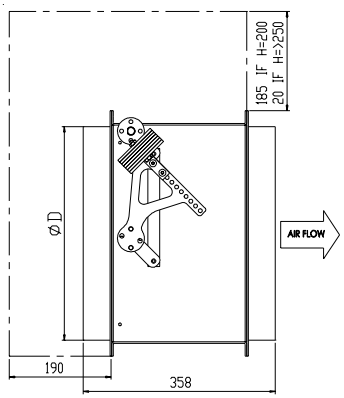
General BRD drawing



General BRD drawing, top



General BRD drawing, circular connections



Halton Marine