

# BRD 泄压阀



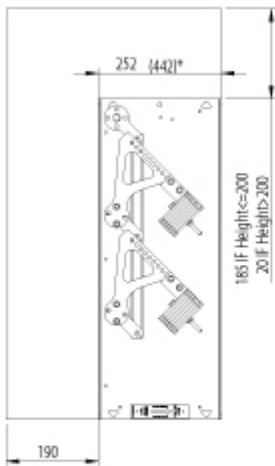
## 概述

- 焊连的外框可选材质为喷漆、镀锌或不锈钢。风叶为镀锌或不锈钢。
- 适合水平和垂直安装的型号
- 风叶包含硅胶密封，防止泄漏
- 可进行防爆认证
- 闭合的阀防泄漏等级符合 EN 1751 2 级。测试尺寸为 1000×1000 mm。
- 每片风叶相互连接且同时开闭
- 可通过改变重锤的位置调节开启压力
- 开启压力范围为 30 Pa 到 150 Pa（至多可选配 300 Pa）
- 重锤标配
- 重锤标配在右侧，也可选配左侧的重锤
- 调试时可对重锤进行最终调节
- 阀门结构可适应的最大管道压力为 5000 Pa，最大空气流速为 15 m/s。如果管道压力过高，请联系浩盾船舶寻求最佳解决方案。

## Dimensions and Material Thickness

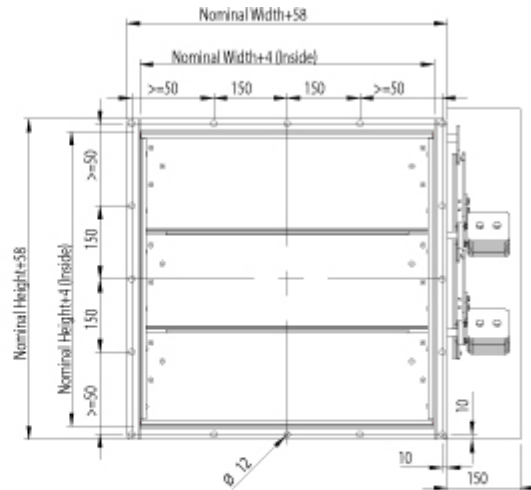
BRD pressure relief dampers meet international standards for both rectangular (width B 150-1200 mm and height H 150-1400 mm, 1 mm division) and circular ducts ( $\varnothing$ 100 – 1250 mm). Non-standard dimensions are available on request. Standard flange width 27 mm. Flanges and drilling also available according to ISO 15138 standards. Modular construction sizes up to 2400×2800 mm are available. Standard frame material thickness 3 mm. Blades are made of two sheets, each of being 0.8 mm thick (sandwich design)..

## BRD, general drawings

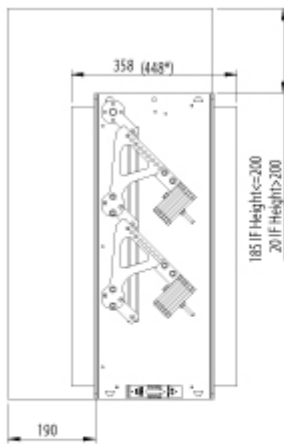


\*THIS DIMENSION IS OPTION  
WHEN ACTUATING MECHANISM  
NEEDS TO BE INSIDE DAMPER DEPTH

OPERATION AREA

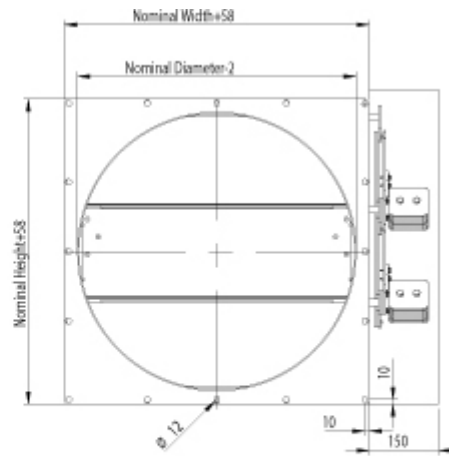


## With circular connections

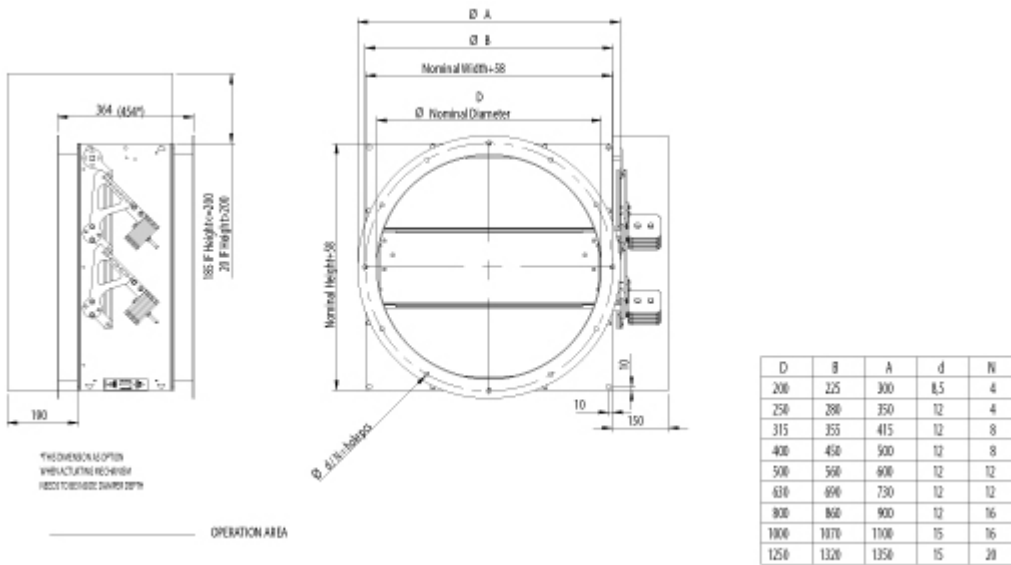


\*THIS DIMENSION IS OPTION  
WHEN ACTUATING MECHANISM  
NEEDS TO BE INSIDE DAMPER DEPTH

OPERATION AREA



## BRD circular, with connection flanges



## Material and Finishing

PART	MATERIAL	FINISHING
Frame	Carbon steel	Painted or galvanized
Frame	Stainless steel EN 1.4301 (AISI304), EN 1.4404 (AISI316L), EN 1.4432 (AISI316L)	–
Blades	Steel	Galvanized
Blades	Stainless steel EN 1.4301 (AISI304), EN 1.4404 (AISI316L), EN 1.4432 (AISI316L)	–
Maintenance-free bearings	Stainless steel EN 1.4404 (AISI316L) / Option: bronze bearings available	–
Shafts	Stainless steel EN 1.4404 (AISI316L)	–

Standard frame material thickness 3 mm.

Blades are made of two sheets, each of being 0.8 mm thick.

## Product Models and Accessories

- Models for horizontal and vertical installation available.
- Circular connection pieces are available.
- Standard construction places weights on the right hand side. Weights on the left hand side available as an option.

# Operation Principles

Pressure-relief damper will allow one-way pressure relief in the ductwork. This feature is based on imbalanced blades. When the pressure in the duct rises above selected value (from 30 Pa to 150 Pa, up to 300 Pa optionally) the damper blades open to allow pressure relief. For higher opening pressure, contact Halton Marine. The minimum opening force can be adjusted with weights. When the pressure in the ductwork drops below minimum opening force required, the blades close and seal the duct.

## Weights

Weights of standard Halton BRD dampers (kg). Frame thickness 3 mm.

H/HEIGHT	B / WIDTH (mm)											
(mm)	150	200	300	400	500	600	700	800	900	1000	1100	1200
150	8	9	11	13	15	16	18	20	22	24	25	27
200	10	12	12	14	16	19	20	22	24	26	28	29
300	12	13	15	18	20	21	24	26	29	31	34	35
400	14	15	18	20	23	25	28	30	33	36	37	40
500	17	17	21	24	27	29	32	35	37	40	43	45
600	19	20	24	26	29	32	36	39	42	45	47	51
700	21	23	26	30	33	37	40	43	47	50	53	57
800	22	24	27	33	36	40	43	47	51	54	58	62
900	26	28	32	36	39	44	48	52	56	60	63	67
1000	28	30	34	39	43	48	51	55	60	64	68	72
1100	31	33	38	42	47	51	56	60	65	70	72	78
1200	33	35	40	45	50	54	59	64	69	74	78	84
1300	36	38	44	48	53	58	64	69	74	79	83	89
1400	38	40	46	51	56	62	67	73	78	83	88	94

D2 ØD	WEIGHT
mm	kg
100	12
160	12
200	15
250	17
315	21
400	26
500	36
630	45
800	63
1000	87
1250	116

The above stated weights include counter weights.

## Installation

Installation and maintenance instructions are with each pressure-relief damper delivery. Copies of Operation and Maintenance manuals are available from Halton Marine Sales offices and distributors.

# Product Code

<b>(S)=Shape of Connection</b>			
(A) Circular (D1)			
(B) Circular (D1) outlet			
(C) Circular (D2)			
(R) Rectangular			
<b>(W)=Width</b>			
Min=150 mm			
Max=1200 mm			
<b>(H)=Height</b>			
Min=150 mm			
Max=1400 mm			
<b>(D)=Diameter</b>			
Min=100 mm			
Max=1250 mm			
<b>(SF)=Flange Option</b>			
(H0) Connection flange in circular connections			
(H1) Connection + loose flange in circular connections			
(HA) Flanges (2 sides)			
(HB) Counter flanges (2 sides)			
(HC) Counter flange (1 side)			
(N0) (N0) ISO 15138 flange drilling CO+CIR			
(N1) ISO 15138 flange drilling CO+LO+CIR			
(NA) Not Assigned (circular connection)			
(NR) ISO 15138 flange drilling			
<b>(DF)=Deep Frame Model</b>			
(N) No			
(Y) Yes			
<b>(LM)=Left Hand Model</b>			
(N) No			
(Y) Yes			

<b>(CW)=Counter Weights Included</b>					
(Y) Yes					
<b>(MA)=Material Blades</b>					
(AS) Stainless steel 0.8 mm EN1.4404					
(CS) Carbon steel 0.75 mm					
(LS) Stainless steel 0.8 mm EN1.4432					
(SS) Stainless steel 0.8 mm EN1.4301					
<b>(FM)=Frame Material</b>					
(A3) Stainless steel 3 mm EN1.4404					
(C3) Carbon steel 3 mm EN1.4404					
(L3) Stainless steel 3 mm EN1.4432					
(S3) Stainless steel 3 mm EN1.4301					
<b>(FI)=Finishing</b>					
(HG) Hot galvanized					
(NA) Not Assigned (acid treatment)					
(PN) Painting					
<b>(BM)=Bearing Material</b>					
(BR) Bronze					
(AS) Stainless steel EN1.4404					
<b>Code example</b>					
BRD/R-150-150,SF=HA,DF=N,LM=N,MA=CS,FM=C3,FI=HG,BM=AS,ZT=N					