UTP 平衡阀

概述

- 用于平衡进气和排气压力
- 可进行 ATEX 认证。通过冲击测试。
- 闭合的阀防泄漏等级 EN 1751 1 级相符。测试尺寸为 1000×1000 mm。
- 外框可以镀锌、喷漆或选用不锈钢。镀锌或不锈钢的风叶具有双层结构。免维护的不锈钢轴套和转轴。
- 电动、气动或手动执行器可供选择
- UTP 阀配有用于圆形管道安装的连接件
- 阀门结构可适应的最大管道压力为 5000Pa，最大空气流速为 15m/s。如果管道压力过高，请联系浩盾船舶寻求最佳解决方案。
- 特定风闸可提供SIL 2安全认证

Dimensions and Material Thickness

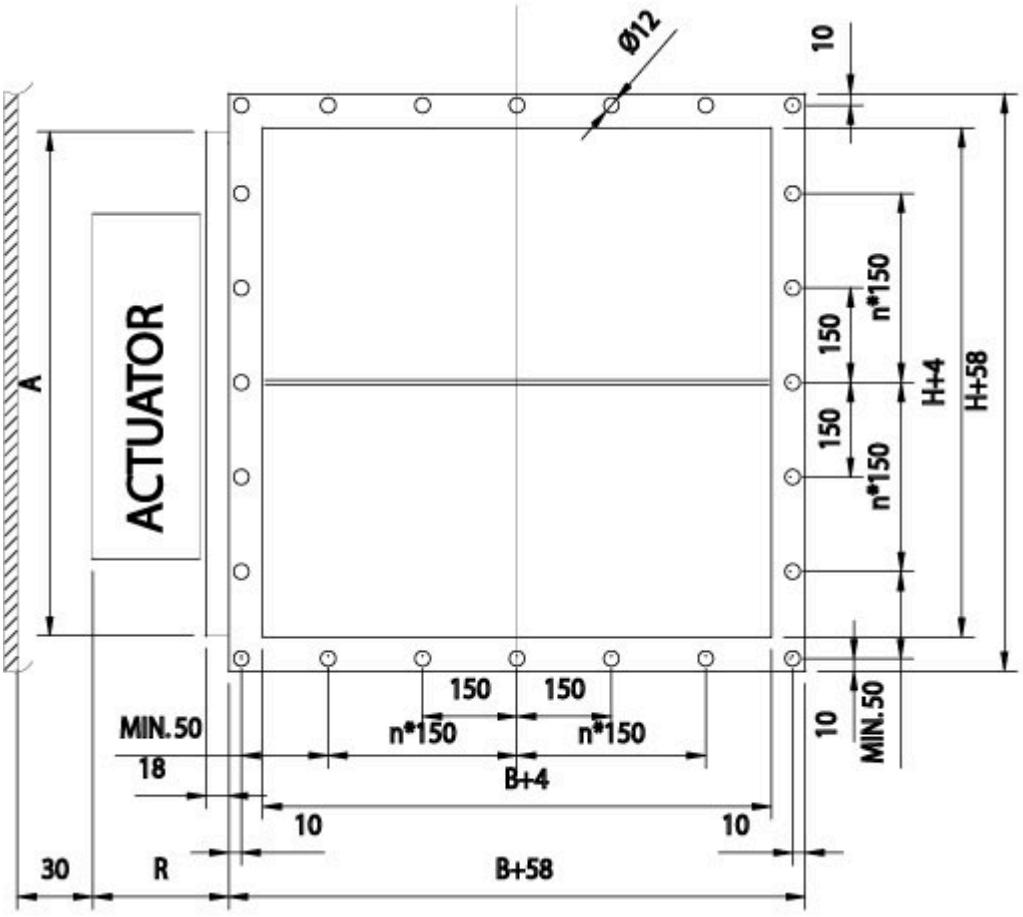
UTP balancing dampers are manufactured to international standards for both rectangular (width B 100-1200 mm and height H 100-1600 mm, 1 mm division) and circular ducts (Ø100-1250 mm). Non-standard dimensions available on request.
Standard flange width 27 mm. Flanges and drilling also available according to ISO 15138 standards.
Modular construction sizes available up to 2400×3200 mm. Frame thicknesses from 3 mm to 10 mm. Standard frame thickness is 3 mm.
Blades are made of two sheets, each of them being 1 mm thick (sandwich design).

Actuator effect on dimensions

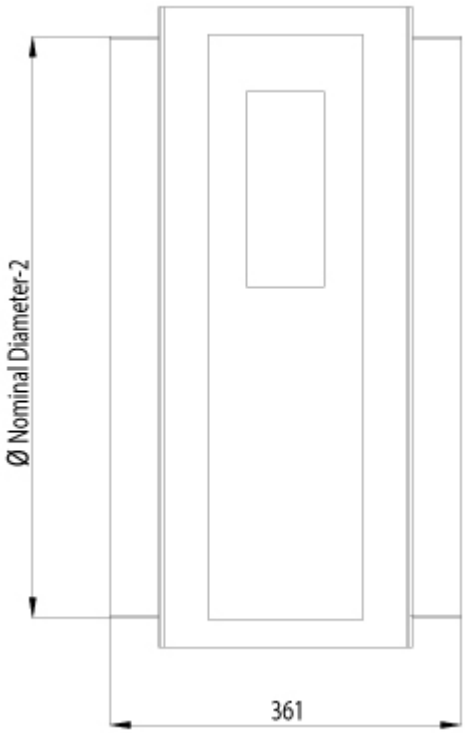
ACTUATOR		DIMENSIONS	
		R	A
Manual	Handle	95	H
Electrical	BF230, BF24, BF120	100	H≤300 = 300, H>300 =H
Pneumatic PNR	Pneumatic rotating actuator AT100	170	H≤300 = 300, H>300 =H

The above table contains only some examples of actuators and their effect on dimensions.

UTP, general drawings

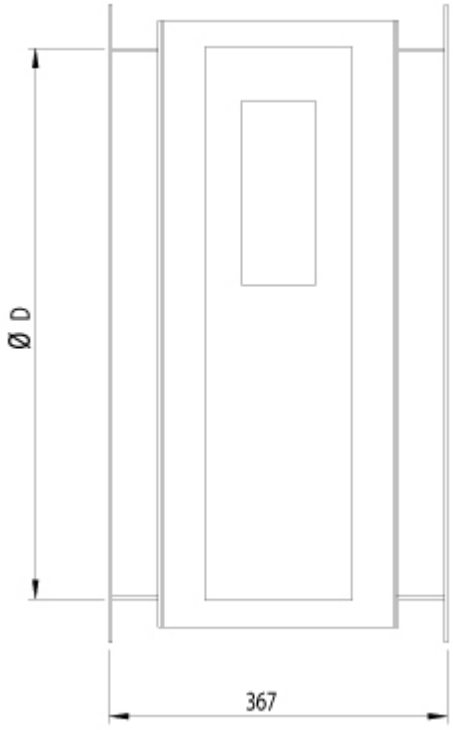


UTP circular connections



UTP, top

UTP circular, with connection flanges



DAMPER HEIGHT	TOTAL DEPTH WITH BLADES OPEN
< 350 mm	210 mm
≥ 350 mm	240 mm

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 and shafts	Stainless steel EN 1.4404 (AISI316L)	–
Shafts	Stainless steel EN 1.4404 (AISI316L)	–

Product Models

Halton UTP is available with following actuators:

- UTP-EL: Electrical spring return actuator; standard actuators being 24 VAC/DC or 230 VAC or 120 VAC. Depending on the choice of actuator, the actuator might contain built-in open-closed limit switches. A wide range of Ex actuators available, including a one second closing time function as an option (for limited sizes).
- UTP-PNR: Pneumatic rotating actuator
- UTP-MAN: Manual handle

HSO: Halton Smart Override function for HVAC damper black-start available for PNR and EL models. With automatic reset function when power and/or pneumatic air supply is reinstated. A wide range of accessories available.

Weights

Weights of standard Halton Marine UTP dampers without an actuator (kg)

H / HEIGHT (mm)	B / WIDTH (mm)											
	100	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**	**1100**	**1200**
100	4	6	7	9	10	12	13	15	16	17	19	20
200	6	8	9	11	13	14	16	17	19	21	22	24
300	8	10	12	14	15	17	19	21	22	24	26	28
400	10	12	14	16	18	20	22	23	25	27	29	31
500	13	15	17	19	21	23	25	28	30	32	34	36
600	15	17	19	21	24	26	28	30	33	35	37	39
700	17	20	22	25	27	29	32	34	37	39	42	44
800	19	22	24	27	29	32	35	37	40	43	45	48
900	21	24	27	30	33	36	38	41	44	47	50	53
1000	23	26	29	32	35	38	41	44	47	50	53	56
1100	26	29	32	35	38	42	45	48	51	55	58	61
1200	27	31	34	37	41	44	48	51	54	58	61	64
1300	30	33	37	41	44	48	51	55	58	62	66	69
1400	32	35	39	43	47	50	54	58	61	65	69	73
1500	34	38	42	46	50	54	58	62	66	70	74	77
1600	36	40	44	48	52	56	60	65	69	73	77	81

D2 ØD	WEIGHT
(mm)	kg
100	7
125	8
160	11
200	12
250	17
315	19
400	26
500	34
630	44
800	59
1000	80
1250	110

Product Code

(S)=Shape of Connection
(A) Circular on one side
(C) Circular on two sides
(R) Rectangular
(W)=Width
100-1200
(H)=Height
100-1600
(D)=Diameter
100-1250
(EX)=Atex Class
(NA) No
(X1) ATEX certified damper
(SF)=Flange Option
(H0) Eurovent flange in circular connections
(H1) Eurovent flange + loose flange in circular connections
(HA) Eurovent flanges
(HB) Eurovent flanges + counter flanges (2 sides)
(HC) Eurovent flanges + counter flange (1 side)
(N0) ISO15138 flange drilling in circular connection
(N1) ISO15138 flange drilling + Loose flange in circular connection
(NA) Circular connections without flanges
(NR) ISO15138 flange drilling
(MA)=Material Blades
(AS) Stainless steel 1 mm EN1.4404
(CS) Carbon steel 1 mm
(LS) Stainless steel 1 mm EN1.4432
(SS) Stainless steel 1 mm EN1.4301
(FM)=Frame Material

(A3) Stainless steel 3 mm EN1.4404
(A5) Stainless steel 5 mm EN1.4404
(C3) Carbon steel 3 mm
(C5) Carbon steel 5 mm
(L3) Stainless steel 3 mm EN1.4432
(L5) Stainless steel 5 mm EN1.4432
(S3) Stainless steel 3 mm EN1.4301
(S5) Stainless steel 5 mm EN1.4301
(FI)=Finishing
(HG) Hot galvanized
(NA) Acid treatment
(PN) Standard painting grey RAL7001
(PX) Special Painting C5-M ISO12944
(BR)=Bearing Material
(BR) Bronze JM5
(MS) Brass
(AS) Stainless steel EN1.4404
(RE)=Actuator
(E1) Electric – Belimo, BF24-2-HL
(E3) Electric – Belimo, BF230-2-HL
(E7) Electric – Belimo, BF120-HL
(I1) InMax – Schischek, 15-SF
(I2) InMax – Schischek, 15-SF VAS
(I3) InMax – Schischek, 15-SF1 VAS
(I4) InMax – Schischek, 8-SF-1
(I6) InMax – Schischek, 15-SF-1
(I9) InMax – Schischek, 5.10-SF
(I10) InMax – Schischek, 5.10-SF VAS
(I11) InMax – Schischek, 8-SF-1 VAS
(P0) Pneumatic – Air Torque, AT101, Aluminium
(P3) Pneumatic – Air Torque, AT104, AISI316

(Q1) Pneumatic – Air Torque, AT201, Aluminium
(Q2) Pneumatic – Air Torque, AT204, AISI316
(Z2) Electric (EX) – Schischek, ExMax 15-SF
(Z3) Electric (EX) – Schischek, ExMax 5-10SF
(Z4) Electric (EX), Schischek, ExMax 15-SF VAS
(Z5) Electric (EX) – Schischek, ExMax 15-SF1 VAS
(Z6) Electric (EX) – Schischek, ExMax 8-SF1
(Z7) Electric (EX) – Schischek, ExMax 15-SF1
(Z10) Electric (EX) – Schischek, ExMax 5.10-SF VAS
(Z11) Electric (EX) – Schischek, ExMax 8-SF1 VAS
(C1) Electric – Elodrive, CSQP-05A1E 24V
(C2) Electric – Elodrive, CSQP-05A2E 120/230V
(C3) Electric – Elodrive, CSQP-10A1E 24V
(C4) Electric – Elodrive, CSQP-10A2E 120/230V
(C5) Electric – Elodrive, CSQP-15A1E 24V – Blocked
(C6) Electric – Elodrive, CSQP-15A2E 120/230V – Blocked
(A7) Electric – Belimo, SF24A-S2
(A9) Electric – Belimo, SF230A-S2
(MA) Manual handle
(NA) Not Assigned
(AC)=Accessories
(BC) Belimo Casing
(E1) Junction box – Ensto, Plastic, IP66 & 67
(E2) EX junction box – Cooper, GRP, IP66, T6
(E5) Cable connectors – Wieland & Hensel (Shutoff)
(L2) Limit switch 2 pcs – Bernstein, Plastic, IP66, Mechanical
(L4) EX Limit switch 2 pcs – Bartec, Plastic, IP66, Mechanical
(L5) EX Limit switch 4 pcs – Bartec, Plastic, IP66, Mechanical
(L6) EX Magnetic switch 2 pcs – Elobau, AISI6118, Magnetic
(L7) EX Magnetic switch 4 pcs – Elobau, AISI6118, Magnetic
(L8) EX Magnetic switch 2 pcs – Pepperl & Fuchs, AISI303, Inductive
(L9) EX Magnetic switch 4 pcs – Pepperl & Fuchs, AISI303, Inductive

(M1) Solenoid valve – SMC, Aluminium, 24 VDC
(M2) Solenoid valve – SMC, Aluminium, 230 VAC
(M3) EX solenoid valve – ASCO, Brass, 24 VDC
(M4) EX solenoid valve – ASCO, Brass, 230 VAC
(M5) EX solenoid valve – Bifold, AISI316, 24 VDC
(P1) Manual pneumatic valve – SMC, Aluminium
(P2) Manual pneumatic valve – Bifold, AISI316
(S3) Limit switch open/Close – Belimo, SN2, Mechanical
(SC) Cover box – Stainless steel
(ST) Pneumatic tubing & fittings – AISI316
(ED) Manual over-ride handle – Halton DOT or HV-SKU
(O1) Smart override handle – Halton, HSO Schischek
(O2) Smart override handle – Halton, HSO Pneumatic
Code example
UTP/R-500-500,SF=HA,MA=CS,FM=C3,FI=HG,BM=AS,RE=MA,ZT=N,AC=E1