

OIL&GAS / TUNNEL BACKDRAUGHT DAMPER

AP - Low pressure

The **AP** low pressure relief damper is used to control the pressure level in a duct or a room.

When the pressure in the duct drops below the pressure setpoint, the dampers closes, isolating the duct from air return and minimizing leaks. When the pressure increases, the pressure relief damper opens to stabilize the pressure in the room.

CODIFICATION

- A** —> Pressure relief damper - Tunnel, Oil&Gas, industry application
X —> **P** - Low pressure

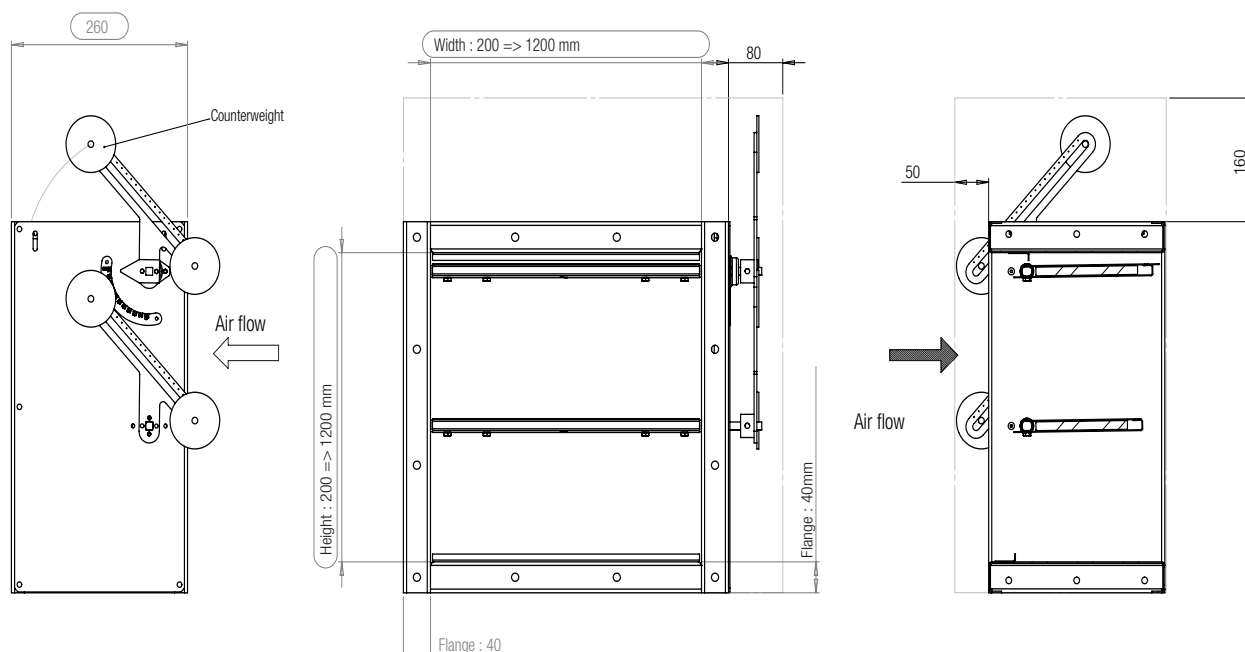
CONSTRUCTION

		Characteristic
Frame	Width	260 mm
	Thickness	2 or 3 mm
	Material	Galvanized/stainless steel : 316 L or 304 L
	Flanges	40 mm / 50 mm
	Axes	Zinc plated / stainless steel Ø12 mm
Blades	Material	Galvanized/stainless steel : 316 L or 304 L
	Thickness	2 x 0,8 mm
	Bearings	Bronze Ø12mm
	Pitch	50 mm
Seals		EPDM / Silicone
Air tightness		Class 1A according to EN 1751
Maximum operating pressure		3000 Pa for L < 700 mm 2000 Pa for L > 700 mm
Operating temperature		From -50°C to +200°C
Air velocity range		0-4 m/s

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DIMENSIONS



Width W from 200 to 1200 mm with a 50 mm pitch
Height H from 200 to 1200 mm with a 50 mm pitch

WEIGHT

L H	200	300	400	500	600	700	800	900	1000	1100	1200
200	14	17	19	21	24	26	28	31	33	35	37
300	18	20	23	25	28	30	33	35	38	40	43
400	21	23	26	28	31	34	37	39	41	44	47
500	25	28	31	34	37	39	42	45	48	50	53
600	28	31	34	37	40	43	46	48	51	54	57
700	32	35	38	41	44	47	50	53	56	59	62
800	34	38	41	44	47	50	54	57	60	63	66
900	38	41	45	48	51	55	58	61	65	68	72
1000	41	44	48	51	55	58	62	65	69	72	76
1100	45	49	53	56	60	64	67	71	75	79	82
1200	48	52	56	59	63	67	71	75	79	82	86

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OPERATING PRESSURE

L H	200	300	400	500	600	700	800	900	1000	1100	1200
200	Recommended range for back pressure: 3000 Pa						Recommended range for back pressure: 2000 Pa				
300											
400											
500											
600											
700											
800											
900											
1000											
1100											
1200											

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OIL&GAS / TUNNEL PRESSURE RELIEF DAMPER

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PRESSURE LOSSES

The curves below are given for an AP 500x500 low pressure relief damper with an opening pressure of 50, 80 and 100 Pa (at +/- 5 Pa) up to 4m/s.

The pressure losses (Pa) of the AP low pressure relief damper are given as a function of the air velocity (m/s).

