

PNEUMATIC – HORIZONTAL (STFRPCMTO)

Fire dampers are very important elements in industrial suction systems, they are the basis of the



protection of fires that can occur in silos, in separators filter and in all those structures that contain air/ dust, air/ gas etc. Aircom's guillotine dampers have been studied and designed for

installation in industrial suction systems where it is necessary to have the entire surface of the duct (pipe) free during the processing phase in the company. Leaving the pipe free during the processing of materials allows the passage of waste materials without damaging the insulation diaphragm against the fire of the damper and totally avoids the problems of clogging in the pipe. The particular structural construction of the electropneumatic model, with the control of closing the diaphragm by means of pistons controlled by solenoid valve, allows instant closing at the arrival of the spark or fire signal with the total closure of the air flow, and, with the installation of a micro-switch (on request) it is possible to stop the suction system instantly so as not to allow damage caused by overpressure in the system itself. The closing time is very short, it needs signal from spark detector or fire, the rearmament or opening occurs automatically to the restoration of the fire or spark control unit.

In the installation it is very important to respect the distance between the fire damper and the fire control unit.

TECHNICAL DATA

- Maximum air speed: ~35 m/s
- Working temperatures: -20°C ÷ 70°C
- DC available voltage: 24 V
- AC available voltages:
 - 24V
 - 110V
 - 220V

Specifics pneumatic cylinder				
Shutter's dimension	Ø100÷450	Ø500÷750	Ø800÷1000	Ø1050÷1200
Closing time	1s	1,5s	2s	2,5s
Solenoid Valve	1/4"	1/4"	1/2"	1/2"
Cylinders power tubes	Ø8 mm	Ø10 mm	Ø12 mm	Ø14 mm
Air power tubes	Min. Ø12 mm	Ø16 mm	Ø20 mm	Ø20 mm

PLEASE NOTE: If the air line length exceeds 10m, it is necessary to get near the damper with a line with the indicated diameter and connect it to the damper with a short section of smaller

diameter. Alternatively, if necessary, replace the coupling mounted on the solenoid valve with one compatible with the line pipe.

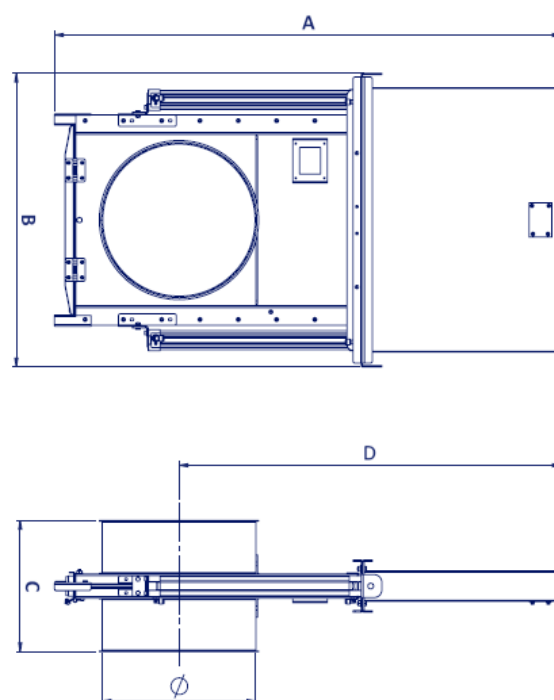
CERTIFICATE

EN-1366-2 / EN1363-1 REI120/RE120 CERTIFICATED

Certificate: 0497/CPR/5925

DIMENSIONS

Ø [mm]	Weight [kg]	A [mm]	B [mm]	C [mm]	D [mm]	Body Thickness [mm]	Pipes Thickness [mm]
100	22	555	454	335	430	3,0	2,0
150	31	610	504	335	457	3,0	2,0
180	35	760	555	335	590	3,0	2,0
200	48	830	555	335	605	3,0	2,0
250	55	980	605	335	730	3,0	2,0
300	60	1030	655	335	755	3,0	2,0
350	68	1180	705	335	880	3,0	2,0
400	75	1230	769	335	905	3,0	2,0
450	88	1480	819	335	1130	3,0	2,0
500	95	1530	900	335	1155	3,0	2,0
550	110	1680	950	335	1280	3,0	2,0
600	130	1730	1021	335	1305	3,0	2,0
650	150	1880	1071	335	1430	3,0	2,0
700	180	1930	1121	335	1455	3,0	2,0
750	205	2080	1171	335	1580	3,0	2,0
800	230	2215	1206	540	1620	4,0	3,0
850	255	2365	1256	540	1745	4,0	3,0
900	285	2415	1306	540	1770	4,0	3,0
950	305	2565	1356	540	1895	4,0	3,0
1000	320	2615	1420	540	1920	4,0	3,0
1050	345	2765	1470	540	2045	4,0	3,0
1100	370	2815	1520	540	2070	4,0	3,0
1150	395	2965	1570	540	2195	4,0	3,0
1200	420	3015	1620	540	2220	4,0	3,0



ACCESSORIES ON REQUEST

- ⊙ Other Version: ATEX
- ⊙ Other material: Stainless Steel AISI 304 or AISI 316
- ⊙ Other edges: Smooth edges
- ⊙ Additional supply: Smooth flanges
- ⊙ RAL3020 painting
- ⊙ **Available upgrades:**
 - Micro switch for feedback on shutter status

Characteristics	MIC1	MIC 1Q	MIC 1Q 21
Number of contacts	1 NO + 1 NC	1 NO + 1 NC	1 NO + 1 NC
Working Voltage [V]	400	400 Vac \ Vdc	250 Vac \ Vdc
Current [A]	3	10	6
Number of wires	4+1	4 +1	4+1
Degree of protection	IP67	IP67	IP66

- Copper pipes in case you want to preserve the compressed air pipes from an aggressive environment, and safety air to ensure the pneumatic supply to the cylinders in case you need a closure with non-active air line.
- Green light position microswitch (MIC GL).