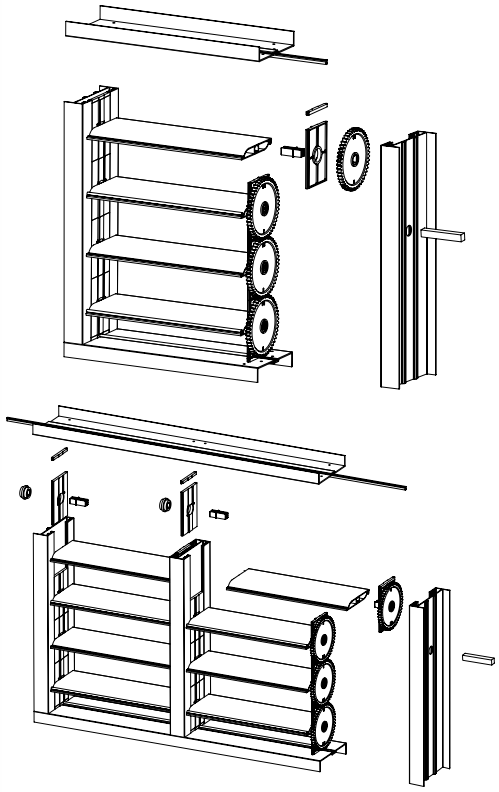
CLASS 2 damper UNI EN 1751:2003

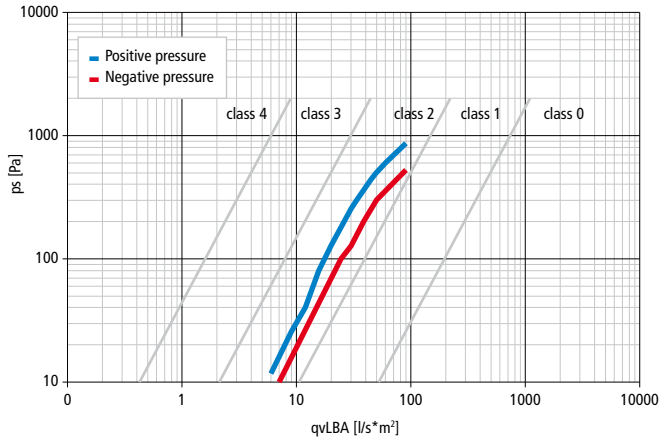


The standard damper is the base product for adjusting the air flow.
Designed with extruded aluminum blades and frame, it can be supplied with handle, motor or just support bracket for the modulation of the flow. The nylon gear system is installed inside the shoulder profiles. Its connection with the frames and the panels is always simple and fast, thus shortening the installation times.

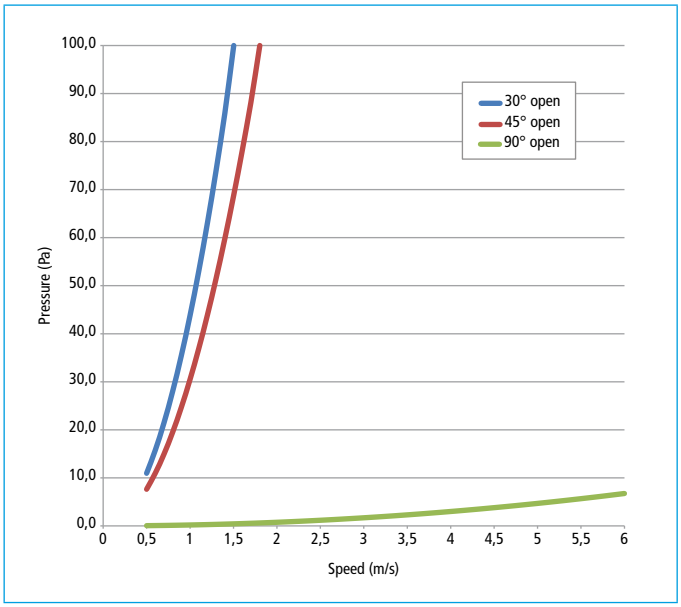
Test

Test report No. 268614 dated 22.04.2010

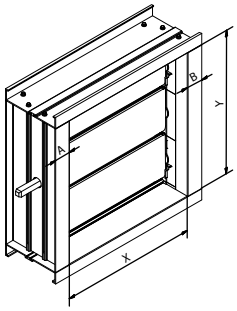
ISTITUTO GIORDANO



Characteristic leakage “qvLBA” / Static pressure “ps” curve for assembled damper 1200x810



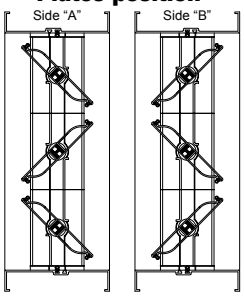
Assembly Instructions

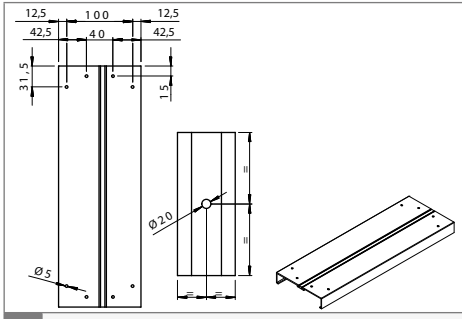


Cutting table	
Blade profile PS10000000	= X - 2.5 mm
Base/cover profile PS11000000	= Y + 70 mm [1 light]
	= X1 + X2 + 105 mm [2 lights]
	= X1 + X2 + X3 + 140 mm [3 lights]
Shoulder profile PS12000000	= no. of blades x 100 mm + 10 mm + tolerance

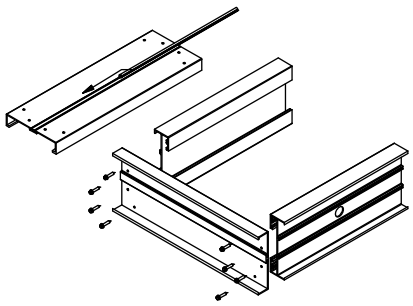
Tolerance		
from	**to**	**tolerance**
< 210 mm / 8.27'	< 610 mm / 23.02'	1 mm / 0.039'
< 610 mm / 23.02'	< 1410 mm / 55.51'	1.5 mm / 0.059'
< 1410 mm / 55.51'	< 2210 mm / 87'	2 mm / 0.078'
< 2210 mm / 87'		2.5 mm / 0.098'

Plates position

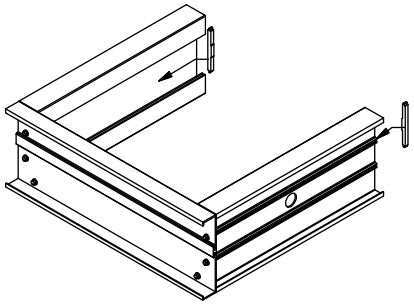




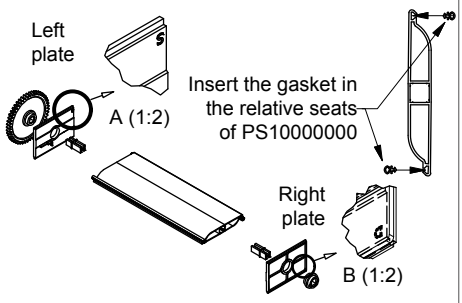
1 Cut the profiles following the above table. Set out the holes on profiles PS11000000 and on profile PS12000000 control pin side



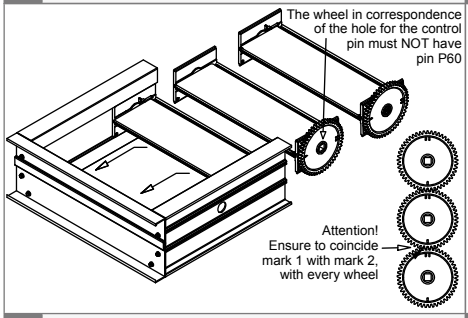
2 Insert the gasket in the relative seat of PS11000000 and fix profiles PS12000000



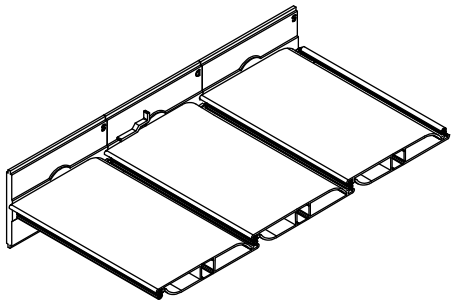
3 Insert the thicknesses S.060000000 in the seats of PS12000000



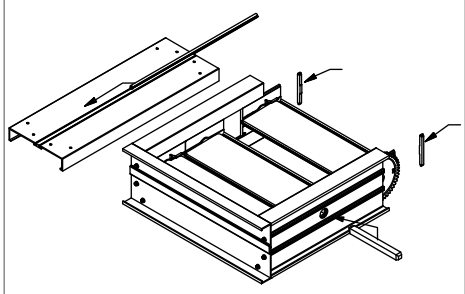
4 Assemble blades PS10000000



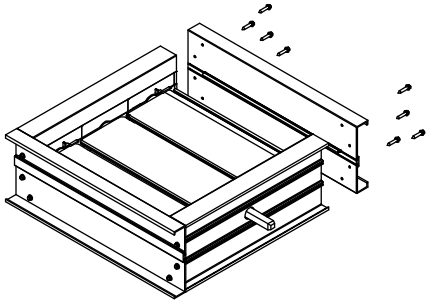
5 Insert the assembled blades in the seats of PS12000000



6 Insert the blades PS10000000 alternating the RH and LH plates

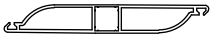


7 Insert the control pin to fix the blade, place the thicknesses above the last blade and insert gasket in PS11000000



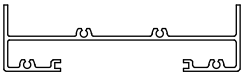
8 Complete assembly by fixing PS11000000

Aluminium profiles

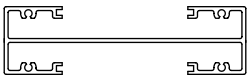


PS10000000

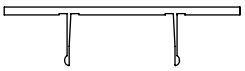
PS11000000



PS12000000



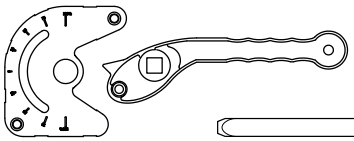
PS13000000



P.M.S80000

PUNCHING MACHINE TK281APS00

Handle and shaft



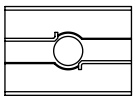
MPS2012000

PFE1200000

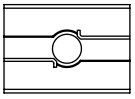
CPS93PP000

SHAFT

THICKNESS

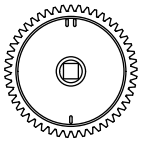


RH PLATE



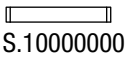
LH PLATE

BUSH

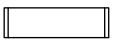


GEAR

THICKNESSES



S.10000000

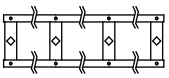


S.20000000

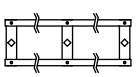
Gaskets

Screw

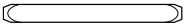
Leverages and shaft



LEV.LUNG00



LEV.1820.4



PFE120.F80

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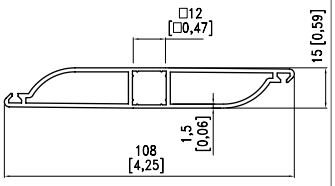
tel. +39 0295380017/8 - fax Italy +39 0295780766 - fax export + 39 0295780762 www.apsarosio.com

Aluminium profiles

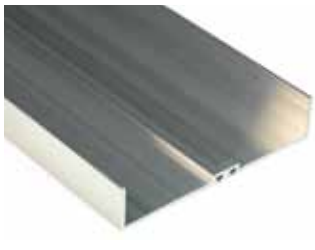
TECHNICAL DATA	
Max profile lenght	6000 mm / 234”
Material	EN AW 6060
Finish	Natural / Painted / Oxidized
Treatment	T6
Color	RAL

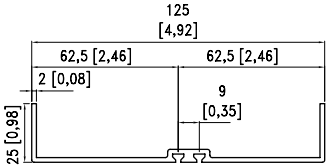
PS10000000 Blade profile



Weight: **1.019 kg/m**

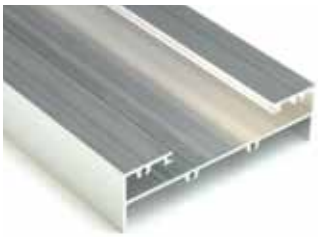
PS11000000 Top-bottom profile

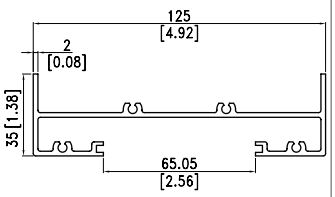




Weight: **1.063 kg/m**

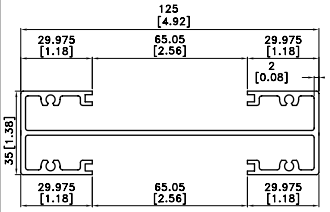
PS12000000 Shoulder profile





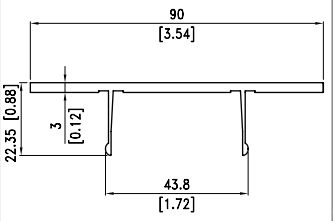
Weight: 1.662 kg/m

PS13000000 Intermediate profile



Weight: **2.028 kg/m**

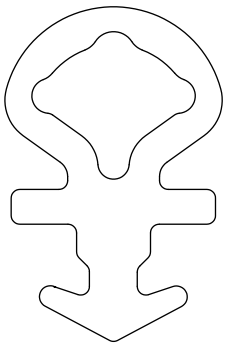
P.M.S80000 Profile for motor



Weight: **0.832 kg/m**

Gaskets

GUAR.00005 Tubular gasket

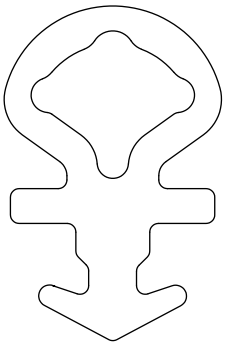


Material: **EPDM**

Working temp.: **-20°C / +70°C**
Peak temp.: **-25°C / +85°C**

Color: **Black**

GUAR.TPE05 Tubular gasket

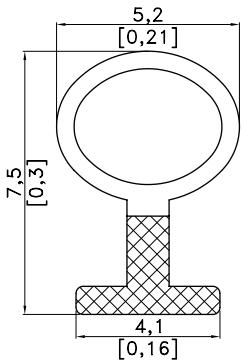


Material: **TPE-V**

Working temp.: **-30°C / +120°C**
Peak temp.: **-40°C / +135°C**

Color: **Black**

GA.1000000 Tubular gasket

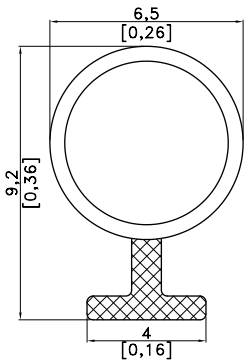


Material: **Co-extruded soft and hard PVC**

Working temp.: **-5°C / +70°C**
Peak temp.: **-10°C / +80°C**

Color: **Black**

GA.1200000 Tubular gasket



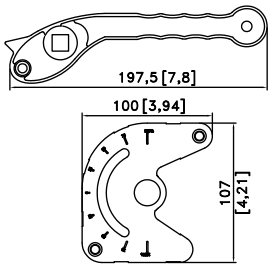
Material: **TPE-V and PP**

Working temp.: **-30°C / +120°C**
Peak temp.: **-40°C / +135°C**

Color: **Black**

Accessories

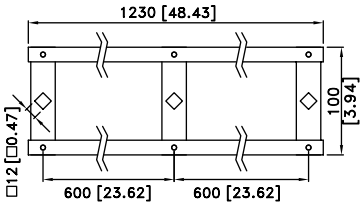
MPS2012000 Handle



Material: **EN AB 46100**

Color: **RAL**

LEV.LUNGO0 Leverage for dual control

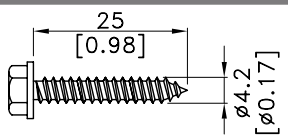


Material: **Steel**

Weight: **1400 g**

Finish: **Galvanized**

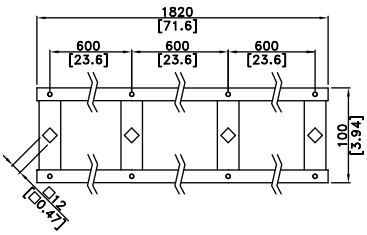
VTE1000000 Screw



Material: **Steel**

Finish: **Galvanized**

LEV.1820.4 Leverage for dual control

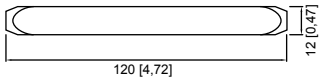


Material: **Steel**

Weight: **2000 g**

Finish: **Galvanized**

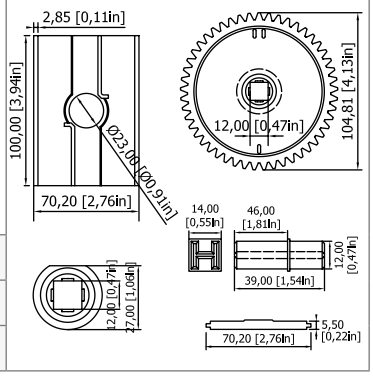
PFE1200000 Control / Transmission shaft



Material: **Steel**

Finish: **Galvanized**

CPS93.PP00 Blades mechanism

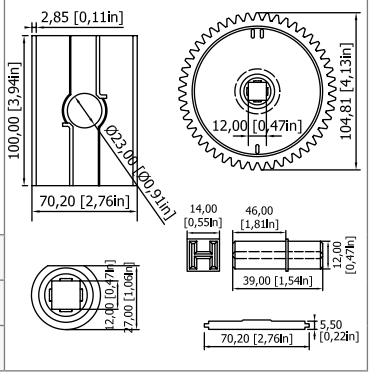


Material: **PP**

Temperature: **+80°C / -15°C**

Color: **Black**

CPS2007000 Blades mechanism for low temperatures

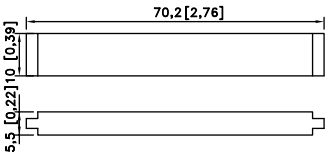


Material: **Zytel 80G14 Dupont**

Temperature: **+80°C / -40°C**

Color: **Grey**

S.10000000 10 mm thickness

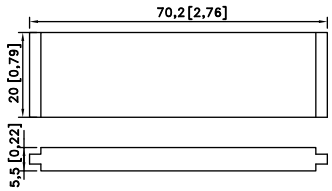


Material: **PA6 + GF 20%**

Temperature: **+90°C / -20°C**

Color: **Black**

S.20000000 20 mm thickness



Material: **PA6 + GF 20%**

Temperature: **+90°C / -20°C**

Color: **Black**

1. Before starting damper assembly, please read the assembly instructions carefully.
2. Working operating conditions

   -15° + 80° standard

   -40° + 80° on request
3. The “APS AROSIO DAMPERS” are designed to be used in Air Handling Units and Ducts systems. For other applications please contact us.
4. APS AROSIO SRL can guarantee full functionality only if you purchase already assembled damper from us.

   If only individual parts are purchased, APS AROSIO SRL will be responsible for the components quality, dimensions and tolerances only.
5. Pay close attention to the fixation/installation of the damper. Otherwise APS AROSIO SRL will not be responsible for the functionality.
6. When screws are fixed or the shoulder profile is drilled, pay close attention to the mechanisms inside.
7. APS AROSIO strongly advised against the use of aggressive solvents or acid solutions.

   For information we ask you to consult your contact person in our sales department.
8. All APS AROSIO SRL products are guaranteed against defects in manufacturing for a period of one year from the date of shipment. If a defect should develop within this period, the customer must contact his referent in the APS AROSIO SRL agreeing before the return of the assembled product or parts of it, with transport at his charge with destination to our factory in Gessate, to be checked and then repaired or replaced up to our judgement. No responsibility is taken by APS AROSIO SRL in case of damages caused by corrosion, improper use of the products or use of aggressive solvents and acid solutions. No warranty is given in case of wrong installation or use of original parts together with not original parts.
9. Patent: please be reminded that the “APS AROSIO DAMPERS SYSTEM” is protected by international patent. Any attempt to reproduce the components will be prosecuted according to law.

A.P.S. AROSIO S.R.L.
Arosio Claudio
The Sole Director