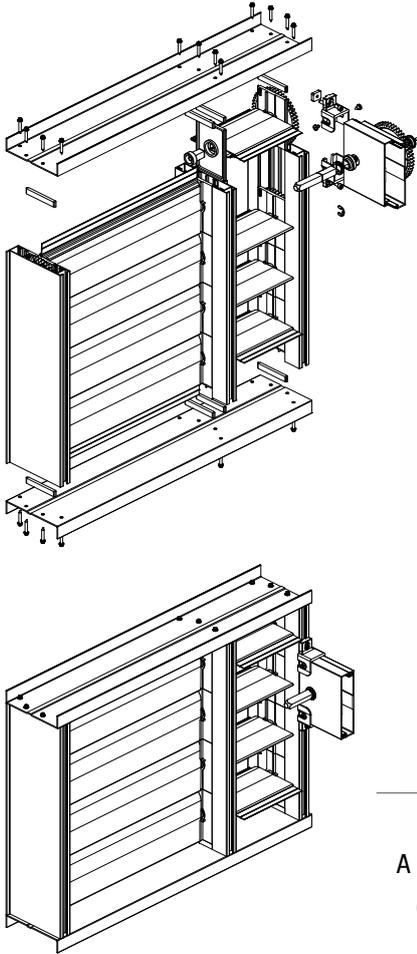


# CLASSE 2 damper with frontal motor fixation

## UNI EN 1751:2003



APS Arosio presents the new Class 2 damper with frontal motor fixation. A product that preserves the characteristics of sturdiness, reliability and tightness of the standard damper, introducing a new motor support with frontal fixation that placed on the shoulder profile allows to position the motor inside the frame.

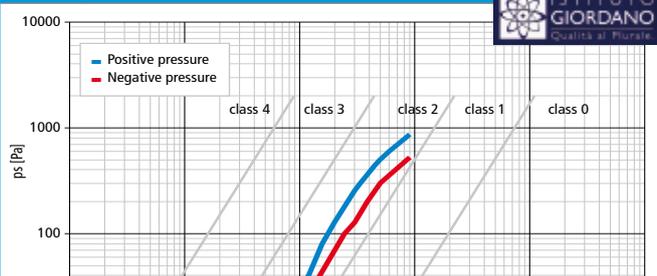
### Class 2

#### Torque values

Nm values	m <sup>2</sup>	1	2	4
	Nm	4	8	15

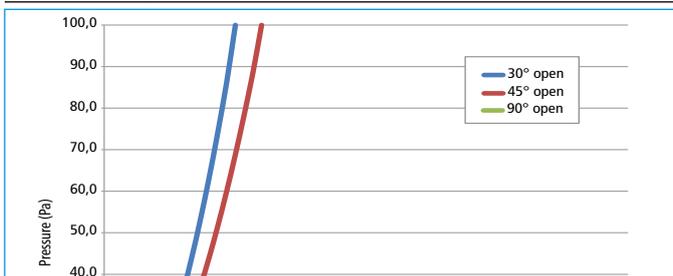
#### Leakage diagram tested in accordance to EN 1751 / ISTITUTO GIORDANO

Test report No. 268614 dated 22.04.2010



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

#### Pressure drop graph



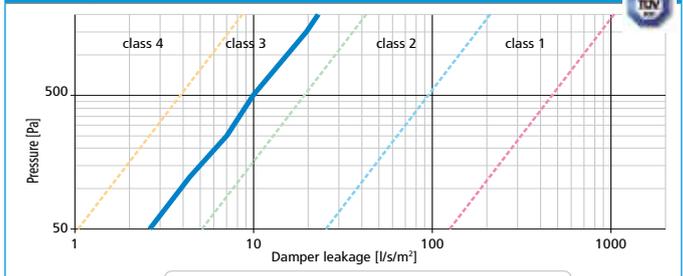
### Class 3

#### Torque values

Nm values	m <sup>2</sup>	1	2	4
	Nm	6	14	22

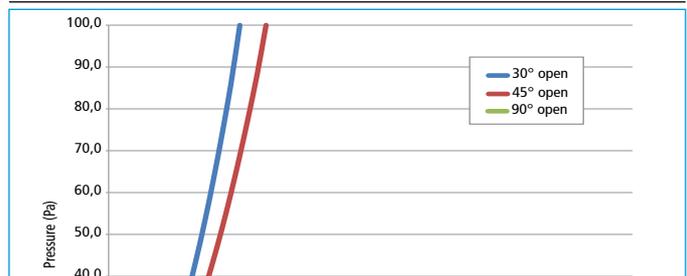
#### Leakage diagram tested in accordance to EN 1751 / TÜV SUD in Munich

Test report No. 268614 dated 22.04.2010

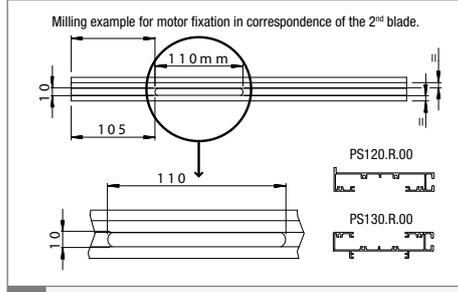
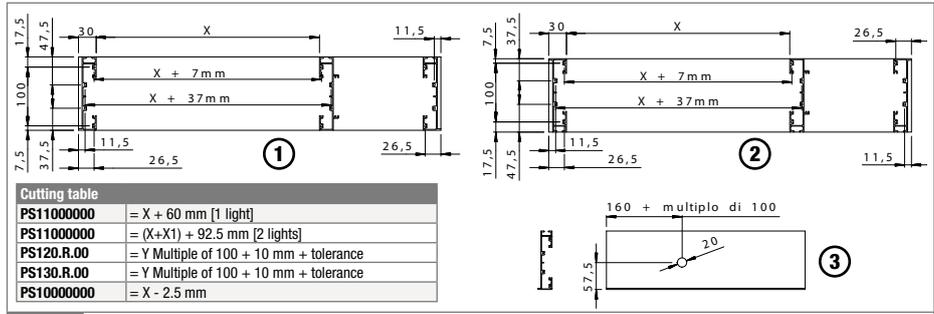
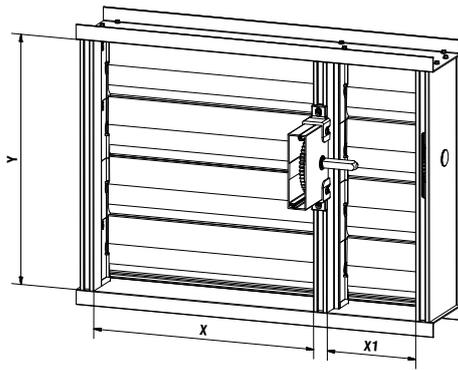


Characteristic leakage "qvLBA" / Static pressure "ps" curve for assembled damper 1200x810

#### Pressure drop graph

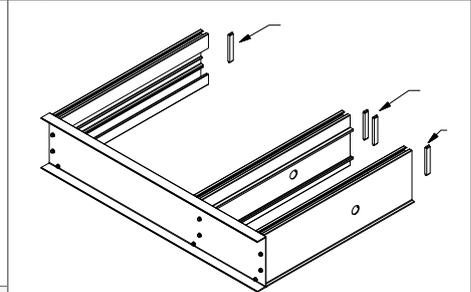
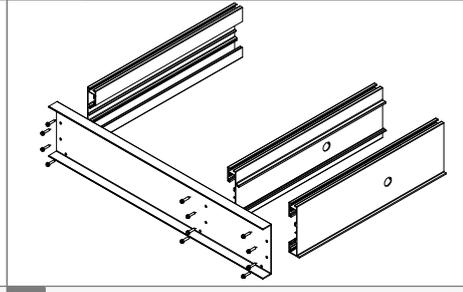


# Assembly Instructions



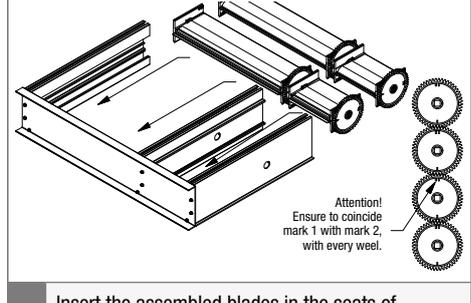
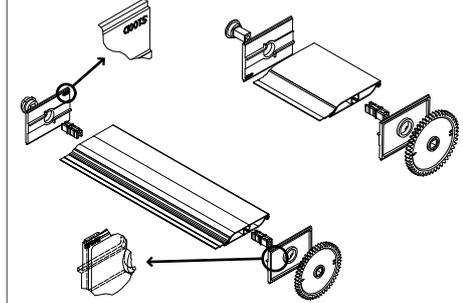
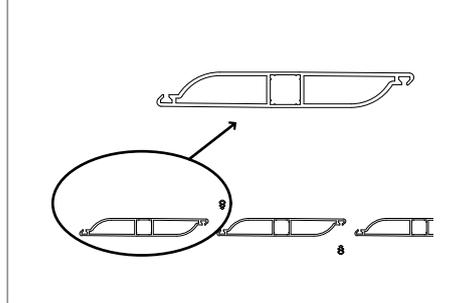
**1** Cutting the profiles following the above table. Set out the holes on profile (ref. 3) PS120.R.00 only side with control shaft or in case of 2 lights. Set out the holes on profiles PS11000000 up to the table (ref. 1 for top, ref. 2 for base).

**2** Set out the holes on profiles PS120.R.00 / PS130.R.00, in case of assembling of kit frontal motor. (Ø10)



**3** Fix the profiles PS120.R.00 and in case of 2 lights, the profile PS130.R.00 to the base profile PS110.C4.0 with the screws VTE10000000.

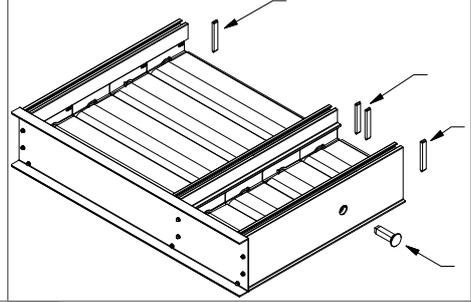
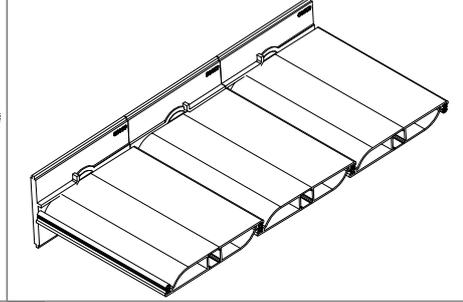
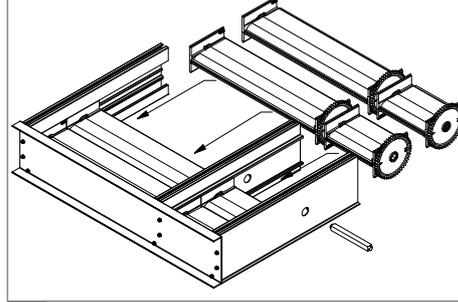
**4** Insert the thicknesses S.10000000 in the seats of the profiles PS120.R.00 / PS130.R.00.



**5** Insert the gaskets GUAR.00005 / GA.1200000 in the blade profiles PS10000000.

**6** Assembly the blade profiles PS10000000 as in the picture above.

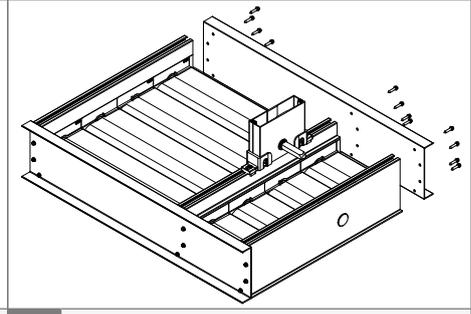
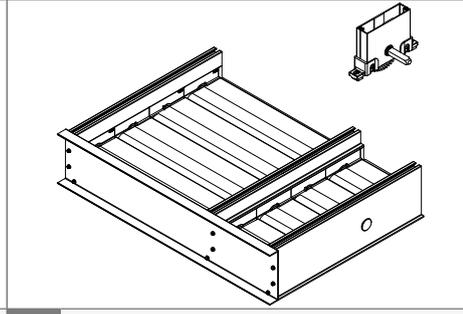
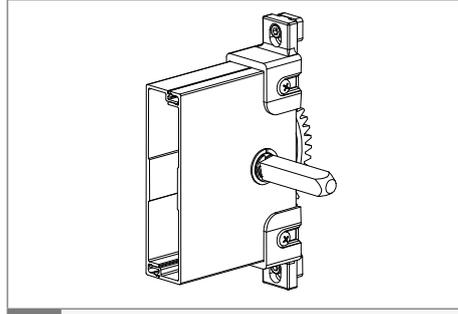
**7** Insert the assembled blades in the seats of PS120.R.00 and PS130.R.00. Pay attention to the signs of recognition!



**8** Insert the internal control shaft, using the hole provided on the profile PS130.R.00.

**9** Insert the blades PS10000000 alternating the RH and LH plates as in the picture.

**10** Complete the insertion with the thicknesses S.10000000, insert the cover pin P.40R00000 in the hole of profile PS120.R.00.



**11** Motor support with frontal fixation.

**12** Insert the kit motor support and fix it in correspondence of the prepared milling.

**13** Complete the assembly by fixing the profile PS11000000.

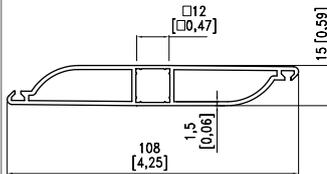
# Aluminium profile

## TECHNICAL DATA

Max profile lenght	6000 mm / 234"
Material	EN AW 6060

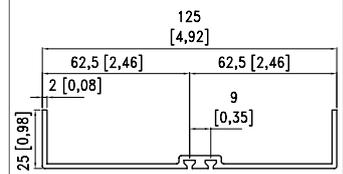
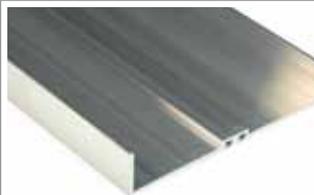
Finish	Natural / Painted / Oxidized
Treatment	T6
Color	RAL

### PS1000000 Blade profile



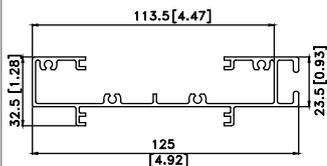
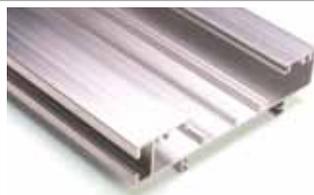
Weight: **1.019 kg/m**

### PS1100000 Top-bottom profile



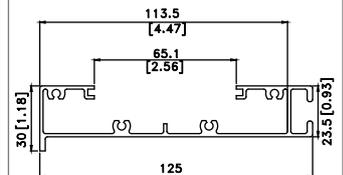
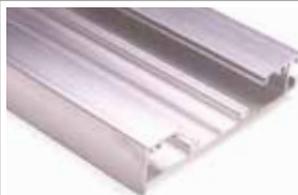
Weight: **1.063 kg/m**

### PS130.R.00 Intermediate profile



Weight: **1.435 kg/m**

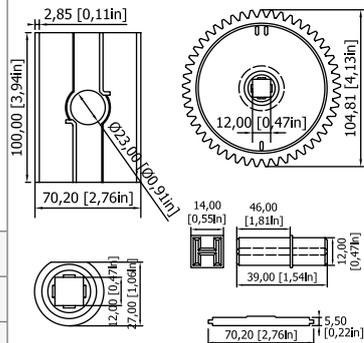
### PS120.R.00 Shoulder profile



Weight: **1.392 kg/m**

## Accessories

### CPS93PP000 Blades mechanism



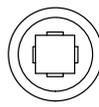
Material: **PP**

Temperature: **+80°C / -15°C**

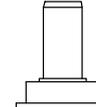
Color: **Black**

### To be used starting from two lights damper

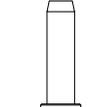
#### P.10R00000 Bush



#### P.33R00000 Shaft

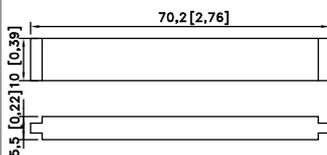


#### P.40R00000 Shaft



Material: **PA6+GF 20%** - Temperature: **+80°C / -15°C** - Color: **Black**

### S.10000000 10 mm thickness

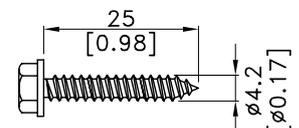


Material: **PA6 + GF 20%**

Temperature: **+90°C / -20°C**

Color: **Black**

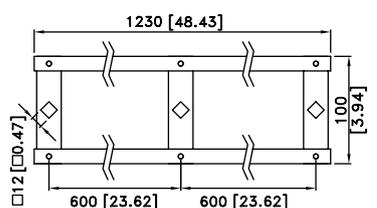
### VTE1000000 Screw



Material: **Steel**

Finish: **Galvanized**

### LEV.LUNG00 Leverage for dual control

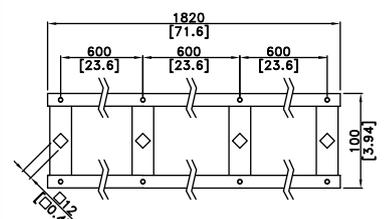


Material: **Steel**

Weight: **1400 g**

Finish: **Galvanized**

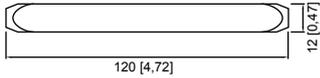
### LEV.1820.4 Leverage for dual control

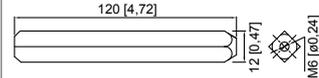


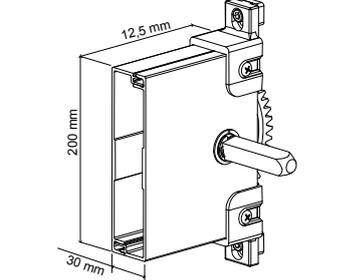
Material: **Steel**

Weight: **2000 g**

Finish: **Galvanized**

PFE1200000 Control / Transmission shaft	
	
Material: <b>Steel</b>	Finish: <b>Galvanized</b>

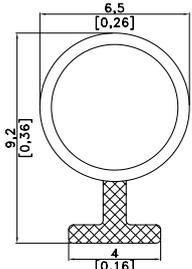
PFE120.F80 Leverage shaft	
	
Material: <b>Steel</b>	Finish: <b>Galvanized</b>

KITMOTOREC Motor support with frontal fixation	
	

## Gaskets

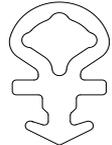
GUAR.00005 Tubular gasket	
	
Material: <b>EPDM</b> Color: <b>Black</b>	Working temp.: <b>-20°C / +70°C</b> Peak temp.: <b>-25°C / +85°C</b>

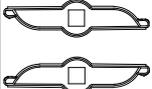
GUAR.TPE05 Tubular gasket	
	
Material: <b>TPE-V</b> Color: <b>Black</b>	Working temp.: <b>-30°C / +120°C</b> Peak temp.: <b>-40°C / +135°C</b>

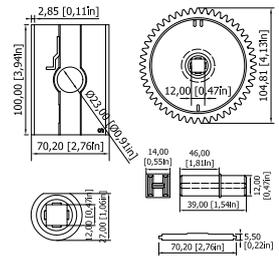
GA.1200000 Tubular gasket	
	
Material: <b>TPE-V and PP</b> Working temp.: <b>-30°C / +120°C</b> Peak temp.: <b>-40°C / +135°C</b> Color: <b>Black</b>	



## Special accessories (Class 3)

GUAR.C4005 Tubular gasket	
	
Material: <b>TPE-V</b> Color: <b>Black</b>	Working temp.: <b>-30°C / +120°C</b> Peak temp.: <b>-40°C / +135°C</b>

PS100TAPPI Right and left couple of covers for blade profile	
	
Material: <b>PA6 + GF 20%</b> Temperature: <b>-20°C / +90°C</b>	Color: <b>Black</b> Finish: <b>Flocked</b>

CPS2010PPO Blades mechanism	
	
Material: <b>PP</b> Temperature: <b>+80°C / -15°C</b> Color: <b>Black</b>	

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

