

- Special designed for damper or ball valve control in HVAC system
- Assembling: Easily connect damper or ball valve and actuator with allen screw
- Long life: The design makes the actuator get longer life
- Manual: It can be manual operated with the button
- Safety: The actuator has overload protection design and does not need any limit switch
- High-level protection and low noise: up to IP65

**Torque** : 4/10/16/25/40Nm  
**Direction of rotation** : set by switch  
**Position indicator** : mechanical  
**Manual override** : set by push button  
**Angle of rotation**: max. 95°

19.2-28.8V AC/DC  
power 3W, hold 1W  
protection: class III-low voltage safe  
**220VAC** :  
95-265V, 50/60Hz  
power 3.5W, hold 1W  
protection : class II-totally insulated

**Feedback Signal:** SPDT/250V, 3A  
0~10VDC (Max. 1mA)  
4~20mA (Max. 500Ω)

**Mode of operation:** Type1 to EN60730-1  
**Work temp.:** -30~+50°C, 95%RH, no condensing  
**Storage temp.:** -40~+80°C  
**Protection:** up to IP65(IP54 – DA05)  
**Approval:** CE

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A mais completa em soluções para HVAC e Automação.

#### Spindle Die :

| Torque | Circular axial diameter | Square axial dimension | Shortest axial length |
|--------|-------------------------|------------------------|-----------------------|
| 4Nm    | 6-18mm                  | 4.5-12.5mm             | 50mm                  |
| 10Nm   | 8-20mm                  | 5.8-14.0mm             | 54mm                  |
| 16Nm   | 8-20mm                  | 5.8-14.0mm             | 50mm                  |
| 25Nm   | 8-20mm                  | 5.8-14.0mm             | 50mm                  |
| 40Nm   | 14-26mm                 | 10.0-18.2mm            | 62mm                  |

#### General parameters:

| Torque | Weight | Noise level | Running time | Suggest damper area                         |
|--------|--------|-------------|--------------|---------------------------------------------|
| 4Nm    | 0.8kg  | < 30dB      | 120s         | < 0.8m <sup>2</sup> = 800mm <sup>2</sup>    |
| 10Nm   | 1.1kg  | < 40dB      | 120s         | < 1.5 m <sup>2</sup> = 1500mm <sup>2</sup>  |
| 16Nm   | 1.2kg  | < 40dB      | 150s         | < 2.5 m <sup>2</sup> = 2500mm <sup>2</sup>  |
| 25Nm   | 1.2kg  | < 40dB      | 150s         | < 3.5 m <sup>2</sup> = 3500 mm <sup>2</sup> |
| 40Nm   | 1.75kg | < 45dB      | 150s         | < 7.0 m <sup>2</sup> = 7000 mm <sup>2</sup> |

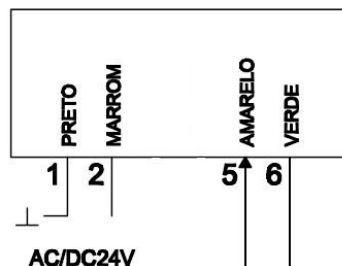
Re : Suggest damper area is for general application, Torque calculation should be different according to specific damper structure, installation and air flow condition.

#### Models

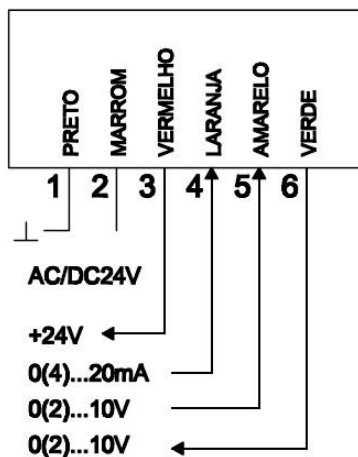
| Model           | RSA-D |                           |           |                  |                                                         |
|-----------------|-------|---------------------------|-----------|------------------|---------------------------------------------------------|
| Control signal  |       | F<br>P                    |           |                  | on/off, 3pos<br>0~10VDC / 4~20mA                        |
| Torque          |       | 4<br>10<br>16<br>25<br>40 |           |                  | 4Nm<br>10Nm<br>16Nm<br>25Nm<br>40Nm                     |
| Power           |       |                           | 24<br>220 |                  | 24VAC/DC<br>220VAC                                      |
| Feedback signal |       |                           |           | 1<br>2<br>3<br>4 | 0~10VDC<br>4~20mA<br>1 SPDT/250V, 3A<br>2 SPDT/250V, 3A |

Re: If control signal for P and torque is 10/16/25/40, Feedback signal should may be 1 or 2.  
If control signal for P and torque is 4, Feedback may be 1 (0~10VDC).

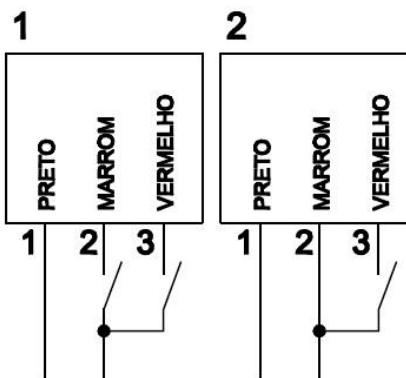
#### Wiring:



0(2)...10V  
0(2)...10V  
Control Signal: (0~10VDC)  
Torque (4Nm)



Control Signal: (0~10VDC / 4~20MA)  
Torque (10/16/25/40Nm)



POWER SUPPLY POWER SUPPLY

Control Signal: (on/off, 3pos)  
Torque (4/10/16/25/40Nm)