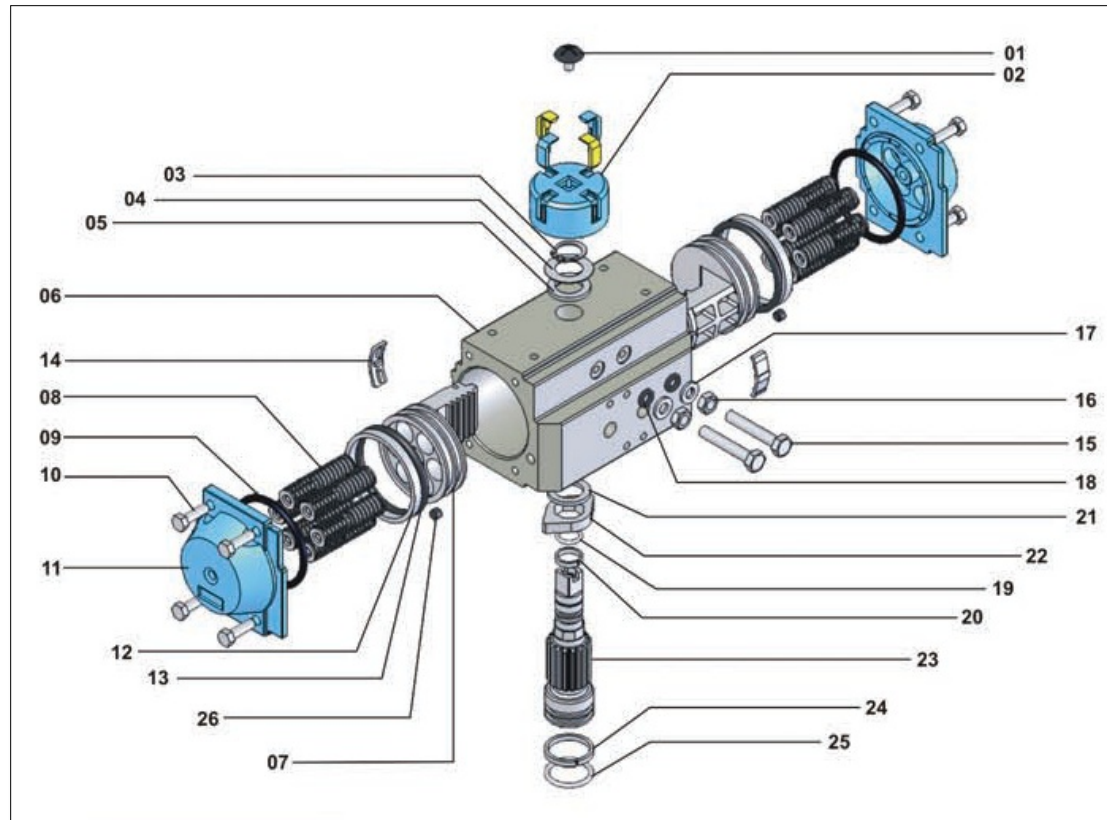




**T Series Pneumatic  
Actuator's Introduction**

## Structure of T Series Pneumatic Actuator



## Product's Information



- ◆ Rack & Pinion type
- ◆ Model **032- 400**
- ◆ The largest cylinder diameter is **400mm / 7000Nm**

## Cylinders



- ◆ Aluminum alloy stretch formed
- ◆ The center hole machined by CNC (deviation **0.03mm**)
- ◆ The surface finish after machined is **Ra1.0um**
- ◆ Hardness is **80HB**

## Cylinder Post Treatment

- ◆ Inner surface finish is **Ra0.6um-0.7um** after vibration grinding
- ◆ Cylinder surface hardness after hard anodized is **≥360HB**
- ◆ The thickness of oxidation film:  
Light color: **25um**  
Dark color: **45um**



## Actuator Spring

- ◆ The spring's material is imported piano wire
- ◆ Pre-pressed spring insured the safer assembly / disassembly
- ◆ Surface finished by cathachresis, corrosion proof
- ◆ The life cycle decay less than **8%** after **1,000,000** times



## Die Casting Piston



- ◆ New design pattern, tooth surface finish **0.02mm**
- ◆ Tooth bottom radians enhance it's strength
- ◆ Rib beside the tooth also increase it's strength
- ◆ Surface finished by catachresis, corrosion proof
- ◆ One clamping ensured the seal surface and supporting surface concentricity

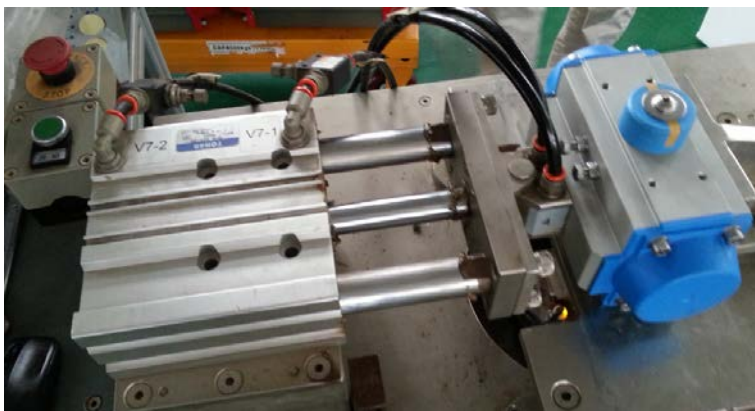
## Output Shaft



- ◆ Material is # 45 steel
- ◆ Cold stamping bottom hole, form tolerance is smaller than **0.06mm**



## Pre-shipment Test



- ◆ Minimum working pressure test
- ◆ Leakage test
- ◆ **100%** test
- ◆ Single series number

## Our Quality Standard

- ◆ Double acting cylinder  
For On & Off valve > **2,000,000 times**  
For control valve > **1,000,000 times**
- ◆ Spring life cycle > **1,000,000 times**
- ◆ Minimum acting pressure  $\leq 0.2\text{Bar}$



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Fax: +86 510 84088725  
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[pamela.pan@respongroup.com](mailto:pamela.pan@respongroup.com)

### CONTACT US FOR MORE INFORMATION

Skype: Respon\_flow.control

Tel: 86 510 85860615

Mobile: 86 1381 202 5434

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Email: [pamela.pan@respongroup.com](mailto:pamela.pan@respongroup.com)

Add: No.37, Liangxi Rd., Wuxi, China