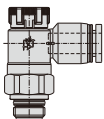
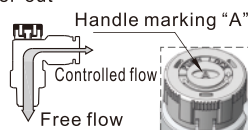



GPTL series

Ordering code

GPTL 6 01 A □

① ② ③ ④ ⑤

| ① Model | ② Port size | ③ Thread connection | ④ Control method | ⑤ Standard color | |
|--|-------------|--|--|------------------|--------------------------------------|
| GPTL: Speed controller (Push lock) (G Thread)  | 6: Φ6mm | 01: G1/8 02: G1/4 03: G3/8 | A: Meter-out  | Standard color | Specification |
| | 8: Φ8mm | 01: G1/8 02: G1/4 03: G3/8 04: G1/2 | | Blank: Gray | Release button: Gray Body: Gray |
| | 10: Φ10mm | 02: G1/4 03: G3/8 04: G1/2 | B: Meter-in  | D: Black | Release button: Black Body: Black |
| | 12: Φ12mm | 03: G3/8 04: G1/2 | | | |

Specification

| | |
|------------------------------------|---|
| Operating pressure range | 0~10kgf/cm²(0~1.0MPa) |
| Negative pressure | -750mmHg(10Torr) |
| Proof pressure | 1.5MPa |
| Ambient and fluid temperature (°C) | -20~70 |
| Applicable tubing | Soft nylon or polyurethane |
| Color | Gray/black |

Product feature

1. Compare with standard speed controller, smaller size, lighter weight, suitable for more occasions.
2. Effectively control the action speed and the pressure signal transmission from pneumatic device.
3. Simple push-lock, operation.
4. Adjust quickly, easily and accurately.
5. Excellent flow rate characteristic, high sensitivity and easy to adjust.
6. Options of Meter-out and meter-in, applicable for every type actuator.
7. Effectively prevent from corrosion and pollution by nickel plated copper.

Symbol



Table for interface port and tube O.D.

| Product series | Thread type | Port size | | | |
|----------------|-------------|-----------|----|-----|-----|
| | | Φ6 | Φ8 | Φ10 | Φ12 |
| GPTL | G1/8 | ● | ● | | |
| | G1/4 | ● | ● | ● | |
| | G3/8 | ● | ● | ● | ● |
| | G1/2 | | ● | ● | ● |

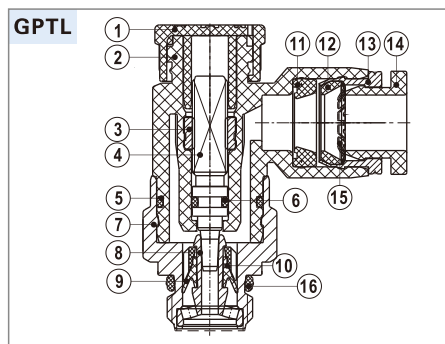
Selection, Installation and Operation

1. The rotation torque of the push-lock speed controller cap should not be too large to avoid damage.
It is recommended to use the torque below.

| Thread size | Recommended torque(N.m) |
|-------------|-------------------------|
| G1/8 | 0.08 |
| G1/4 | 0.16 |
| G3/8 | 0.24 |
| G1/2 | 0.32 |

2. Push-lock speed controller installation instructions is the same as general one. Please refer to general type for specific content.

Inner structure

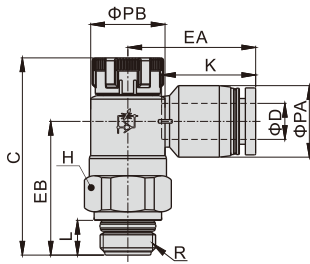


| NO. | Name | Material | NO. | Name | Material |
|-----|-------------------|----------------|-----|-------------------|-----------------|
| 1 | Adjusting cap | POM | 9 | Holder | PBT |
| 2 | Plastic body | PBT | 10 | O-ring | NBR |
| 3 | Locating ring | Aluminum alloy | 11 | O-ring | NBR |
| 4 | Throttling column | Aluminum alloy | 12 | Locating seat | POM |
| 5 | O-ring | NBR | 13 | Locating ring | Aluminum alloy |
| 6 | O-ring | NBR | 14 | Plastic interface | POM |
| 7 | Throttling body | Brass | 15 | Spring gasket | Stainless steel |
| 8 | Throttling sleeve | Aluminum alloy | 16 | O-ring | NBR |

GPTL series

Dimensions

GPTL Series

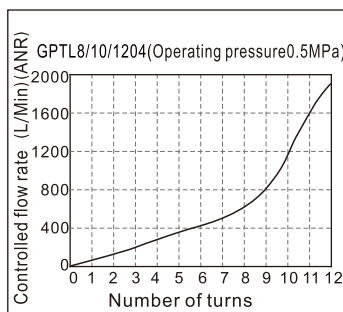
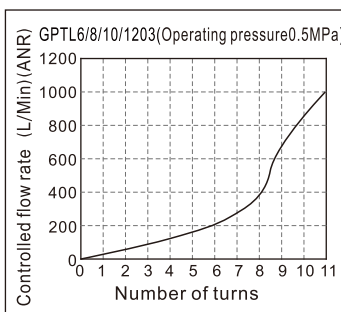
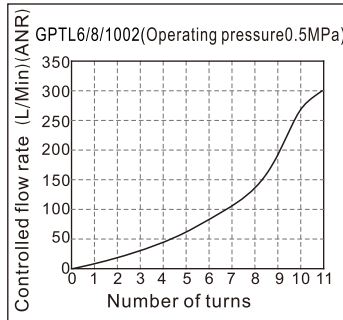
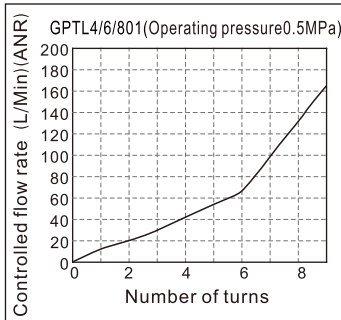
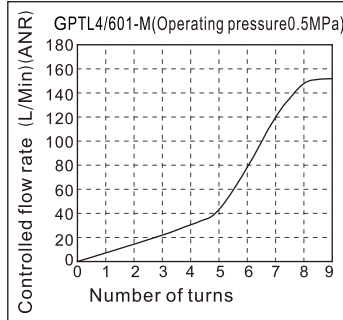
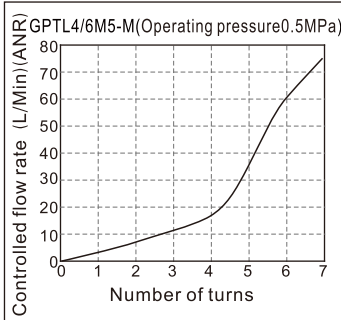


| Model\Item [Note1] | ΦD | R | ΦPA | ΦPB | L | C | | K | EA | EB | H | Weight (g) | PCS/bag |
|-----------------------|----|------|------|------|-----|------|------|------|------|------|----|---------------|---------|
| | | | | | | Pull | Push | | | | | | |
| GPTL601□ | 6 | G1/8 | 12.5 | 13 | 5.5 | 36 | 34.5 | 16.5 | 22.5 | 23.5 | 14 | 12.5 | 2 |
| GPTL602□ | | G1/4 | 12.5 | 16.5 | 6.5 | 40.5 | 39 | 16.5 | 24 | 28 | 17 | 19.5 | 2 |
| GPTL603□ | | G3/8 | 12.5 | 19 | 7 | 44 | 42.5 | 16.5 | 25.5 | 31 | 19 | 28.5 | 2 |
| GPTL801□ | 8 | G1/8 | 15 | 13 | 5.5 | 36 | 34.5 | 18.5 | 24.5 | 22.5 | 14 | 13 | 2 |
| GPTL802□ | | G1/4 | 15 | 16.5 | 6.5 | 40.5 | 39 | 18.5 | 26 | 27 | 17 | 20.5 | 2 |
| GPTL803□ | | G3/8 | 15 | 19 | 7 | 44 | 42.5 | 18.5 | 27 | 30 | 19 | 29 | 2 |
| GPTL804□ | 10 | G1/2 | 15 | 24 | 8.5 | 52.5 | 51 | 18.5 | 29.5 | 37.5 | 24 | 49 | 2 |
| GPTL1002□ | | G1/4 | 18 | 16.5 | 6.5 | 40.5 | 39 | 21 | 31 | 26 | 17 | 22 | 2 |
| GPTL1003□ | | G3/8 | 18 | 19 | 7 | 44 | 42.5 | 21 | 29 | 29 | 19 | 30.5 | 2 |
| GPTL1004□ | 12 | G1/2 | 18 | 24 | 8.5 | 52.5 | 51 | 21 | 31.5 | 36.5 | 24 | 50.5 | 2 |
| GPTL1203□ | | G3/8 | 21 | 19 | 7 | 44 | 42.5 | 23 | 34.5 | 28 | 19 | 32.5 | 2 |
| GPTL1204□ | | G1/2 | 21 | 24 | 8.5 | 52.5 | 51 | 23 | 34 | 28 | 24 | 53 | 2 |

[Note1] "□" stands for A or B. A indicates meter-out type while B indicates meter-in type. The two types are with the same overall dimension.

Flowrate characteristic

Controlled flow rate



Free flow rate

