







Stopper cylinder — TWH、TWG、TWQ、TWM Series

Installation and application

- 1、 When load changes in the work, the cylinder with abundant output capacity shall be selected;
- 2、 Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion;
- 3、 Necessary protection measure shall be taken in the environment with larger humidity, much dust or water drops, oil dust and welding dregs;
- 4、 Dirty substances in the pipe must be cleared away before cylinder is connected with pipeline. Sundries must be prevented from entering the cylinder;
- 5、 The medium used by cylinder shall be filtered by the filter core of above 40um;
- 6、 The lateral load of the cylinder shall not exceed the allowable value in operation so as to maintain its normal operation and extend its service life;
- 7、 Anti-freezing measure shall be adopted under low temperature environment to prevent the water freezing in cylinder;
- 8、 If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust cap shall be added in air intake and outlet orifices.

Product series

| Series | Acting type | Bore size | Collocation of sensor switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  TWH | Double acting Single acting - Pull type | 20 25 32 40 50 63 80 | <table border="1"> <thead> <tr> <th>CS1-J</th> <th>CS1-JX</th> <th>CS1-JN</th> <th>CS1-JP</th> <th>CS1-G</th> <th>CS1-GX</th> <th>CS1-GN</th> <th>CS1-GP</th> </tr> </thead> <tbody> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </tbody> </table> | | | | | | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  TWG | Double acting Single acting - Pull type | 32 40 50 | <table border="1"> <thead> <tr> <th>CS1-T</th> <th>CS1-TX</th> <th>CS1-TN</th> <th>CS1-TP</th> </tr> </thead> <tbody> <tr><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td></tr> </tbody> </table> | | | | CS1-T | CS1-TX | CS1-TN | CS1-TP | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CS1-T | CS1-TX | CS1-TN | CS1-TP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  TWQ | Double acting Single acting - Pull type | 20 25 32 40 50 | <table border="1"> <thead> <tr> <th>CS1-J</th> <th>CS1-JX</th> <th>CS1-JN</th> <th>CS1-JP</th> <th>CS1-G</th> <th>CS1-GX</th> <th>CS1-GN</th> <th>CS1-GP</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </tbody> </table> | | | | | | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | | | | | ● | ● | ● | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  TWM | Double acting Single acting - Pull type | 50 | <table border="1"> <thead> <tr> <th>CS1-J</th> <th>CS1-JX</th> <th>CS1-JN</th> <th>CS1-JP</th> <th>CS1-G</th> <th>CS1-GX</th> <th>CS1-GN</th> <th>CS1-GP</th> </tr> </thead> <tbody> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </tbody> </table> | | | | | | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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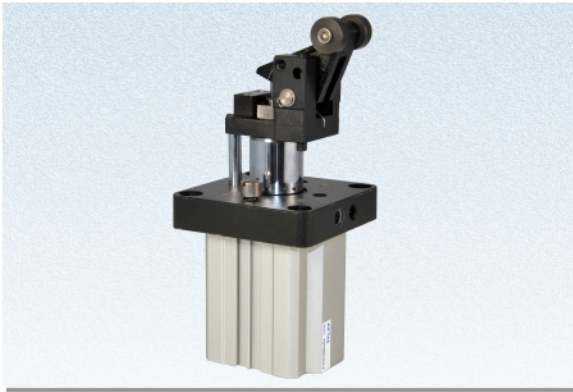
IV-31

IV-39

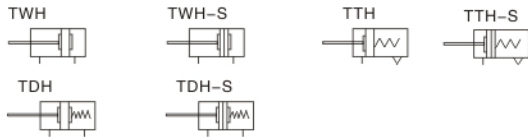


Stopper cylinder

TWH Series



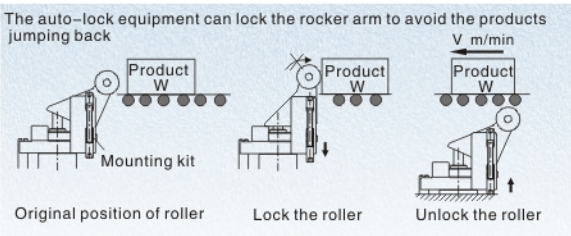
Symbol



Product feature

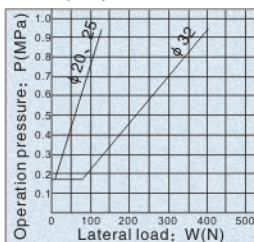
1. JIS standard is implemented;
2. Widening the piston rod can effectively improve the impact resistance ability of the cylinder;
3. Heavy type stopper cylinder has shock absorber adjustable shock absorber, which can reliably absorb the impact energy;
4. Shockless stopper cylinder is equipped with self-lock device, which can prevent the returning of rebound of rocker caused by bar objects;
5. Several series and specifications for stopper cylinders can be selected.

Auto-lock equipment

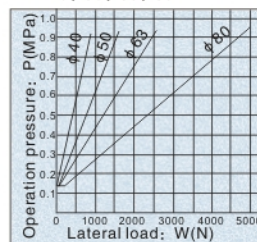


Lateral Load and Operation pressure

TWH20, 25, 32



TWH40, 50, 63, 80



Specification

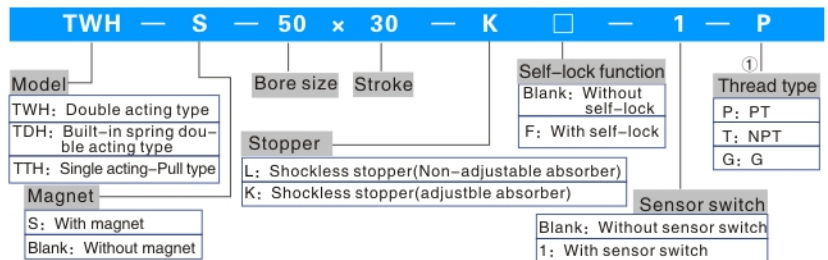
| Bore size (mm) | 20 | 25 | 32 | 40 | 50 | 63 | 80 |
|---------------------------|---|----------------------------|------|---|------|----|----|
| Action | Double acting type, Single acting-pull type | | | | | | |
| Fluid | Air | | | | | | |
| Operating pressure | Double acting type | 0.15~1.0MPa(23~145Psi) | | | | | |
| | Single acting-pull type | 20: 0.25~1.0MPa(35~145Psi) | | Other: 0.2~1.0MPa(28~145Psi) | | | |
| Proof pressure | 1.5MPa(215Psi) | | | | | | |
| Temperature °C | -20~80 | | | | | | |
| Range of stroke tolerance | +1.0 0 | | | | | | |
| Cushion type | Bumper | | | | | | |
| Lubrication | Non required | | | | | | |
| Mounting type | Flange | | | | | | |
| Stopper type | Shock less stopper (With non adjustable absorber) | | | Shock less stopper (With adjustable absorber) | | | |
| Port size ① | M5 x 0.8 | | 1/8" | | 1/4" | | |
| Sensor's thread | M5 x 0.5 | | | M8 x 1.0 | | | |

① PT thread, NPT thread and G thread are available;
Add: Refer to PVI-39-VI-50 for detail of sensor switch.

Stroke

| Bore size (mm) | 20 | 25 | 32 | 40 | 50 | 63 | 80 |
|----------------------|----|----|----|----|----|----|----|
| Standard stroke (mm) | 15 | 15 | 20 | 30 | 30 | 30 | 40 |

Ordering code



① When it is M5 thread, it is blank here.
Note: The buffer is not adjustable if the bore size is 20 and 25. It is adjustable if the bore is over 32.

How to select

Drawing I
Bore size φ20, φ25, φ32
Friction index μ=0.1

Speed v [m/min]

Note:
When the speed is the same, the friction index more higher, the Load more lighter, so the rubbing surface is smoother is better.

Drawing II
Bore size φ40, φ50, φ63, φ80
Friction index μ=0.1

Selection way:

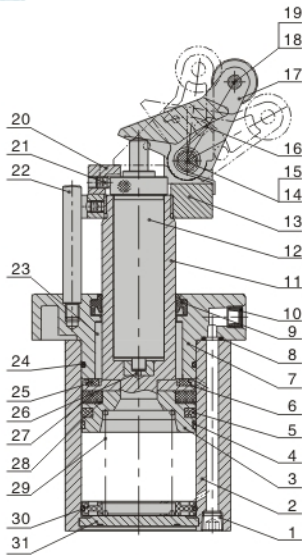
When load is 300kg, speed is 15m/min, and friction factor is 0.1, draw a horizontal line in the 300 position of Y axis in Table 3 to join with X axis' .15m/min φ63 cylinder used in this application will be selected.

Stopper cylinder

TWH Series

Inner structure and material of major parts

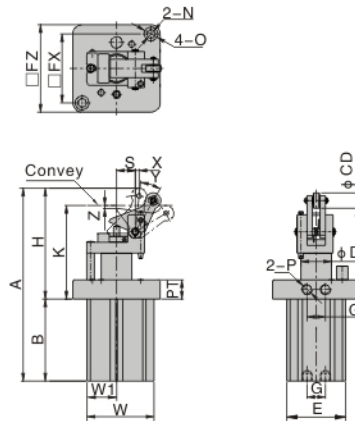
TTH-K



| NO. | Item | Material |
|-----|------------------------------|--------------------------------------|
| 1 | Countersink screw | Carbon steel |
| 2 | Body | Aluminum alloy |
| 3 | Piston | Aluminum alloy |
| 4 | Wear ring | Wear resistant material |
| 5 | Piston O-ring | NBR |
| 6 | Magnet washer | Aluminum alloy |
| 7 | Front cover | Aluminum alloy |
| 8 | O-ring | NBR |
| 9 | Packing | NBR |
| 10 | Silencer | Sintered bronze particle |
| 11 | Piston rod | Carbon steel with 20um chrome plated |
| 12 | Shock absorber | |
| 13 | Fixed seat | Nodular Cast iron |
| 14 | PIN | S45C grinding rod |
| 15 | Clip | Spring steel |
| 16 | Torsion spring | Spring steel |
| 17 | Rocker | Cast steel |
| 18 | PIN | S45C grinding rod |
| 19 | PIN gasket | S45C grinding rod |
| 20 | Obstruct block | Powder metallurgy |
| 21 | Countersink screw | Carbon steel |
| 22 | Leader | Carbon steel with 20um chrome plated |
| 23 | Sliding bushing | Wear resistant material |
| 24 | O-ring | NBR |
| 25 | Bumper | TPU |
| 26 | Absorber fix and adjust seat | POM |
| 27 | Magnet | Plastic |
| 28 | Magnet washer | NBR |
| 29 | Spring | Spring steel |
| 30 | Cushion | POM |
| 31 | Back cover | Aluminum alloy |

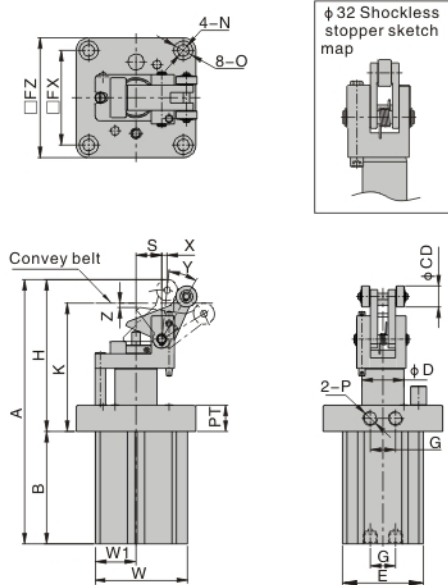
Dimensions

Non-adjustable absorber (TWH-L(F), TDH-L(F), TTH-L(F))



| Item\Bore size | 20 | 25 | Item\Bore size | 20 | 25 |
|----------------|-----|-------|----------------|------|------|
| A | 129 | 135.5 | K | 59.8 | 63.8 |
| B | 55 | 57.5 | N | 4.5 | 6.6 |
| CD | 12 | 12 | O | - | - |
| D | 16 | 16 | P | M5 | M5 |
| E | 36 | 40 | S | 12 | 12 |
| PT | 8 | 12 | X | 4 | 4 |
| FX | 40 | 47 | Y | 28 | 28 |
| FZ | 48 | 58 | W | 40 | 45 |
| G | 12 | 16 | Z | 2.4 | 2.4 |
| H | 74 | 78 | W1 | 18 | 20 |

Adjustable absorber (TWH-K(F), TDH-K(F), TTH-K(F))



| Item\Bore size | 32 | 40 | 50 | 63 | 80 |
|----------------|-------|------|-------|-------|-------|
| A | 152.5 | 191 | 211 | 245.5 | 299.5 |
| B | 65.5 | 79 | 83 | 101 | 128 |
| CD | 12 | 20 | 20 | 20 | 25 |
| D | 20 | 25 | 32 | 40 | 50 |
| E | 46 | 53 | 64 | 77 | 98 |
| PT | 16 | 16 | 20 | 25 | 25 |
| FX | 53 | 65 | 73 | 90 | 110 |
| FZ | 67 | 82 | 93 | 114 | 138 |
| G | 16 | 16 | 18 | 24 | 30 |
| H | 87 | 112 | 128 | 144.5 | 171.5 |
| K | 73.4 | 92.3 | 107.4 | 122 | 145.4 |
| N | 6.6 | 6.6 | 9 | 11 | 13 |
| O | 11 | 11 | 14 | 18 | 20 |
| p | 1/8" | 1/8" | 1/8" | 1/4" | 1/4" |
| S | 12 | 16 | 21 | 25 | 31 |
| X | 3.5 | 5 | 5 | 5 | 6 |
| Y | 28 | 26 | 24 | 24 | 23 |
| W | 51.5 | 62 | 72 | 87.5 | 109 |
| Z | 1.7 | 3.7 | 2.2 | 3.2 | 3.6 |
| W1 | 23 | 26.5 | 32 | 38.5 | 49 |

Note: The type with magnet and the type without magnet have the same dimension;
The type with self-lock and the type without selflock have the same dimension.







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- 1、When load changes in the work, the cylinder with abundant output capacity shall be selected;
- 2、Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion;
- 3、Necessary protection measure shall be taken in the environment with larger humidity, much dust or water drops, oil dust and welding dregs;
- 4、Dirty substances in the pipe must be cleared away before cylinder is connected with pipeline. Sundries must be prevented from entering the cylinder;
- 5、The medium used by cylinder shall be filtered by the filter core of above 40um;
- 6、The lateral load of the cylinder shall not exceed the allowable value in operation so as to maintain its normal operation and extend its service life;
- 7、Anti-freezing measure shall be adopted under low temperature environment to prevent the water freezing in cylinder;
- 8、If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface. Anti-dust cap shall be added in air intake and outlet orifices.

Product series

| Series | Acting type | Bore size | Collocation of sensor switch | | | | | | | | |
|--|---------------------------|--|------------------------------|--------|--------|--------|-------|--------|--------|--------|--|
| | | | CS1-J | CS1-JX | CS1-JN | CS1-JP | CS1-G | CS1-GX | CS1-GN | CS1-GP | |
|  TWH | Double acting | 20 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 25 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 32 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 40 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 50 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Single acting - Pull type | 63 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 80 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | CS1-T CS1-TX CS1-TN CS1-TP | | | | | | | | | |
| | | 32 | ● | ● | ● | ● | ● | ● | ● | | |
| | | 40 | ● | ● | ● | ● | ● | ● | ● | | |
| 50 | ● | ● | ● | ● | ● | ● | ● | | | | |
|  TWG | Double acting | 20 | | | | | ● | ● | ● | ● | |
| | | 25 | | | | | ● | ● | ● | ● | |
| | | 32 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 40 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 50 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Single acting - Pull type | 63 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 80 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | CS1-J CS1-JX CS1-JN CS1-JP CS1-G CS1-GX CS1-GN CS1-GP | | | | | | | | | |
| | | 20 | | | | | ● | ● | ● | ● | |
| | | 25 | | | | | ● | ● | ● | ● | |
|  TWQ | Double acting | 20 | | | | | ● | ● | ● | ● | |
| | | 25 | | | | | ● | ● | ● | ● | |
| | | 32 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 40 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 50 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Single acting - Pull type | 63 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | 80 | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | CS1-J CS1-JX CS1-JN CS1-JP CS1-G CS1-GX CS1-GN CS1-GP | | | | | | | | | |
| | | 20 | | | | | ● | ● | ● | ● | |
| | | 25 | | | | | ● | ● | ● | ● | |
|  TWM | Double acting | 20 | | | | | | | | | |
| | | 25 | | | | | | | | | |
| | | 32 | | | | | | | | | |
| | | 40 | | | | | | | | | |
| | | 50 | | | | | | | | | |
| | Single acting - Pull type | 63 | | | | | | | | | |
| | | 80 | | | | | | | | | |
| | | CS1-J CS1-JX CS1-JN CS1-JP CS1-G CS1-GX CS1-GN CS1-GP | | | | | | | | | |
| | | 20 | | | | | | | | | |
| | | 25 | | | | | | | | | |

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Stopper cylinder

TWM Series

Specification

| | | |
|---------------------------|---|------------------------|
| Bore size (mm) | 50 | |
| Action | Double acting type, Single acting-pull type | |
| Fluid | Air | |
| Pressure range | Double acting type | 0.15-1.0MPa(23-145Psi) |
| | Single acting-Pull type | 0.2-1.0MPa (28-145psi) |
| Proof pressure | 1.5MPa(215Psi) | |
| Temperature ℃ | -20-80 | |
| Range of stroke tolerance | +1.0 0 | |
| Cushion | Bumper | |
| Lubrication | Not required | |
| Mounting type | Flange | |
| Stopper type | Roller(with cushion) | |
| Port size ① | 1/8" | |
| Standard stroke mm | 30 | |
| Sensor switch thread | M8 x 1.0 | |

① PT thread, NPT thread and G thread are available;
Add: Refer to PVI-39-VI-50 for detail of sensor switch.

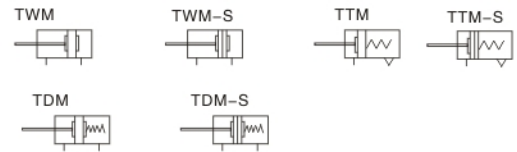
Ordering code

TWM S 50 x 30 K □ 1 P

| | | | | |
|---|---|--|---|-------------------------|
| Model | Bore size | Stroke | Self-lock function | Thread type |
| TWM: Double acting type TDM: Built-in spring double acting type TTM: Single acting type | 50 | 30 | Blank: Without self-lock F: With self-lock | P: PT T: NPT G: G |
| Magnet | Shockless stopper | Proximity sensor | | |
| S: With magnet Blank: Without magnet | K: Level roller type (with adjustable absorber) | Blank: Proximity sensor is not attached 1: Proximity sensor is attached | | |



Symbol



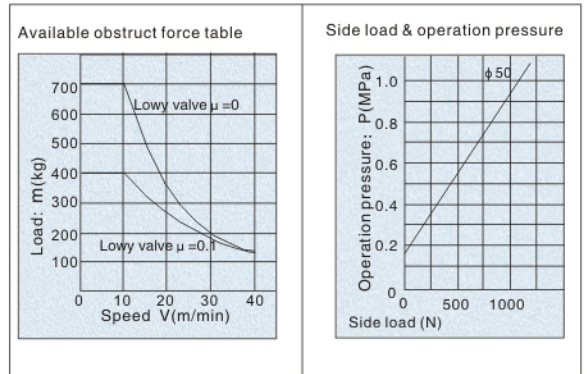
Product feature

1. JIS standard is implemented.
2. Widening the piston rod can effectively improve the impact resistance ability of the cylinder.
3. Heavy load type. The cushion effect of the stopper cylinder with shock absorber is better.
4. Shockless stopper cylinder is attached with self-lock device, which can prevent the returning of rebound of rocker caused by bar objects.

Inner structure and material of major parts

| NO. | Item | Material | NO. | Item | Material |
|-----|----------------|--------------------------------------|-----|------------------------------|--------------------------------------|
| 1 | Body | Aluminum alloy | 15 | Rocker | Cast steel |
| 2 | Piston | Aluminum alloy | 16 | Roller | Free cutting steel |
| 3 | Wear ring | Wear resistant material | 17 | Obstruct black | Powder metallurgy |
| 4 | Piston O-ring | NBR | 18 | Countersink screw | Carbon steel |
| 5 | Magnet washer | Aluminum alloy | 19 | Leader | Carbon steel with 20um chrome plated |
| 6 | Front cover | Aluminum alloy | 20 | Cancel cap | Aluminum alloy |
| 7 | O-ring | NBR | 21 | Sliding bushing | Bronze powder metallurgy |
| 8 | O-ring | NBR | 22 | Absorber fix and adjust seat | POM |
| 9 | Gasket | NBR | 23 | Bumper | TPU |
| 10 | Piston rod | Carbon steel with 20um chrome plated | 24 | Magnet | Plastic |
| 11 | Shock absorber | | 25 | Spring | Spring steel |
| 12 | Mounting seat | Nodular cast iron | 26 | Bumper | TPU |
| 13 | PIN | Carbon steel with 20um chrome plated | 27 | Back cover | Aluminum alloy |
| 14 | Torsion spring | Spring steel | | | |

How to select



Dimensions

