Designed for precise and high repeatability usage, Airwork parallel air grippers are the perfect compromise between compact size and gripping force.
Indeed, the roller system allows to reduce frictions at minimums and guarantees high precision of grip.
PS series permits the mounting in all available positions and the possibility to add a round magnetic switch on all four surfaces.

**Réalisées par une précision et fréquences élevées, les pinces pneumatiques parallèles d'Airwork sont le parfait compromis entre la compacité et la force de préhension.**
**En effet, le système aux rouleaux, permet de réduire au minimum les frictions et garantit une grande précision d'adhérence.**
**La série PS permit aussi le montage en toutes les positions disponibles et l'addition des capteurs magnétiques rond sur tous ces façades.**

*Destinate ad un utilizzo di precisione e elevata ripetibilità, le pinze pneumatiche parallele di Airwork, sono il perfetto compromesso tra compattezza e forza di presa. Infatti il sistema a rulli consente di ridurre al minimo gli attriti e garantisce grande precisione di presa.*
*La serie PS consente il montaggio in tutte le posizioni possibili e il montaggio dei sensori a scomparsa su tutte le facciate della pinza.*

## ORDERING CODE / **CODIFICATION** / *CHIAVE DI CODIFICA*

P S 3 0 0

Ø gripper / **Ø pince** / *Ø pinza*
10 - 16 - 20 - 25 mm

3= double acting / **double effet**/ *doppio effetto*
5= single acting rear spring / **simple effet ressort arrière** / *semplice effetto molla posteriore*
6= single acting front spring / **simple effet ressort avant** / *semplice effetto molla anteriore*

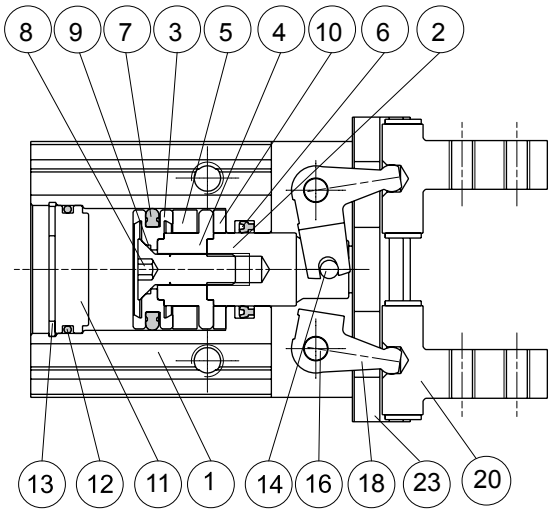
## STANDARD BORE / **TAILLE STANDARD** / *TAGLIE STANDARD*

| **Bore** | Opening / closing | External gripping force (0.5 MPa) | Internal grippng force (0.5 MPa) |
|---|---|---|---|
| **Ø10** | 4 mm | 11 N | 17 N |
| **Ø16** | 6 mm | 34 N | 45 N |
| **Ø20** | 10 mm | 42 N | 66 N |
| **Ø25** | 14 mm | 65 N | 104 N |

## TECHNICAL DATA / **DONNÉES TECHNIQUES** / *DATI TECNICI*

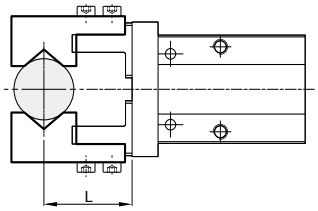
| | |
|---|---|
| Fluid / **Fluide** / Fluido | Lubricated or non lubricated air / **Air lubrifié ou non lubrifié** / Aria con o senza lubrificazione |
| Operating temperature range / **Température d'utilisation** / Temp. di esercizio | -20C° / +70C° |
| Pressure range / **Pression d'utilisation** / Pressione di utilizzo | 2 - 7 bar |
| Action tolerance / **Tolérance d'action** / Tolleranza d'azione | ± 0.01 mm |
| Max operating frequency / **Fréquence de fonctionnement max.** / Max frequenza operativa | 180 c.p.m. |

## COMPONENTS / **COMPOSANTS** / *COMPONENTI*

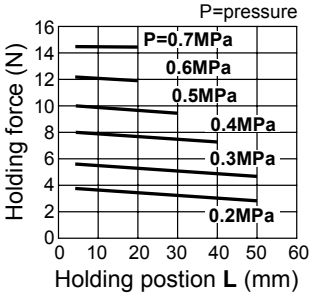



| pos. | description / **description** / *descrizione* | material / **matériel** / *materiale* |
|---|---|---|
| 1 | body / **corps** / *corpo* | aluminium / **aluminium** / *alluminio* |
| 2 | rod / **tige** / *stelo* | aluminium / **aluminium** / *alluminio* |
| 3 | piston / **piston** / *pistone* | aluminium / **aluminium** / *alluminio* |
| 4 | piston / **piston** / *pistone* | aluminium / **aluminium** / *alluminio* |
| 5 | magnet / **aimant** / *magnete* | synthetic rubber / **caoutchouc** / *gomma sintetica* |
| 6 | rod seals / **joint tige** / *guarn.stelo* | NBR |
| 7 | seal piston / **joints piston** / *guarnizione pist* | NBR |
| 8 | srew / **vis** / *vite* | steel alloy / **Alliage d'acier** / *acciaio* |
| 10 | bumper / **pare-chocs** / *paracolpi* | PU |
| 11 | rear cap / **fond postérieur** / *testata post.* | aluminium / **aluminium** / *alluminio* |
| 12 | seal / **joints** / *guarnizione* | NBR |
| 13 | snap ring / **anneau élastique** / seeger | steel alloy / **Alliage d'acier** / *acciaio* |
| 14 | driver pin / **pivot** / *perno* | steel / **acier** / *acciaio* |
| 16 | driver pin / **pivot** / *perno* | steel / **acier** / *acciaio* |
| 18 | lever / **levier** / *leva* | steel / **acier** / *acciaio* |
| 20 | finger / **doigts** / *dita* | stainless steel / **acier inox** / *acciaio inox* |
| 23 | guide / **guidage** / *guida* | steel / **acier** / *acciaio* |

External gripping force
**Force de préhension externe**
*Forza di presa esterna*




Ø10

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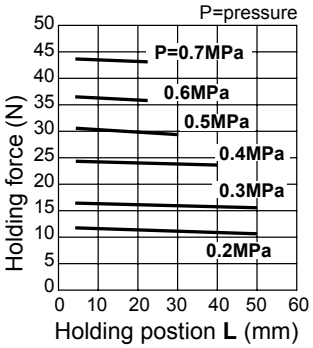


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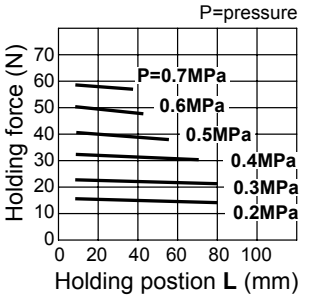
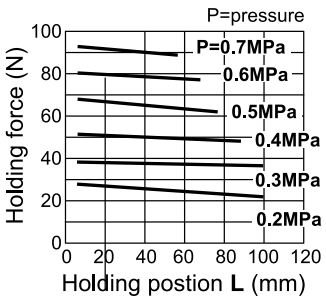
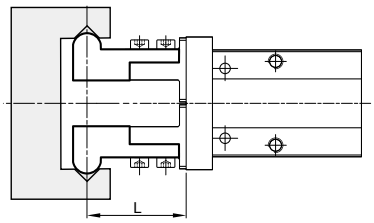



Ø25




Internal gripping force
**Force de préhension interne**
*Forza di presa interna*

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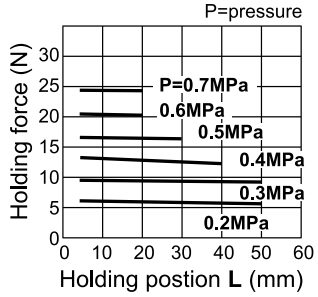


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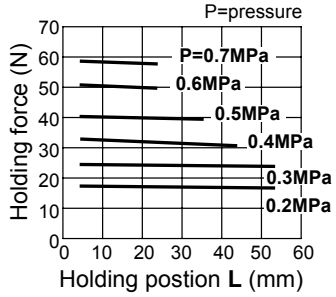


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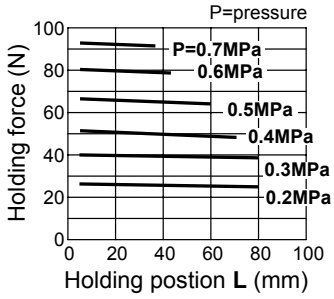


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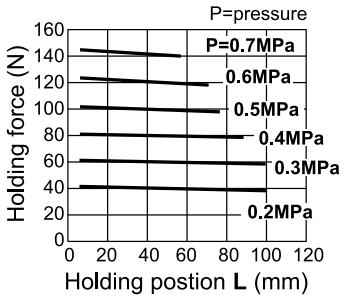
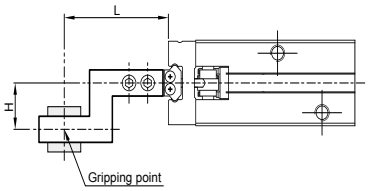


External gripping point
**Point de préhension externe**
*Punto di presa esterna*

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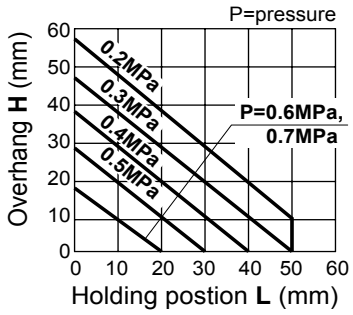


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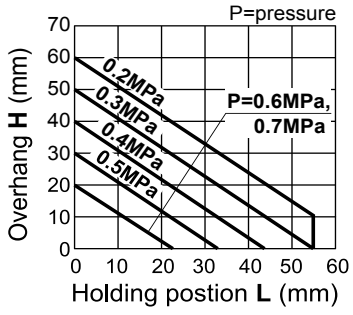


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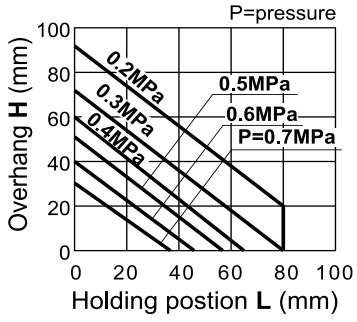


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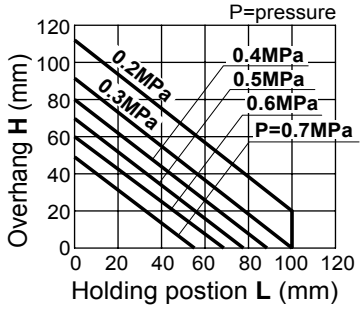
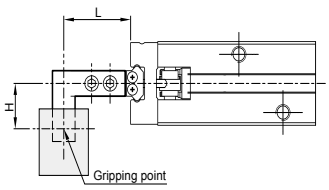



Internal gripping point
**Point de préhension interne**
*Punto di presa interna*

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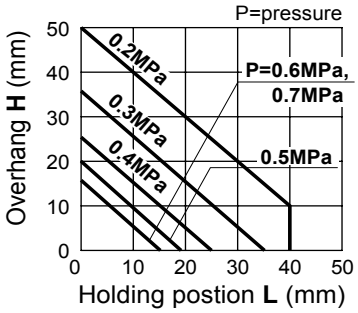


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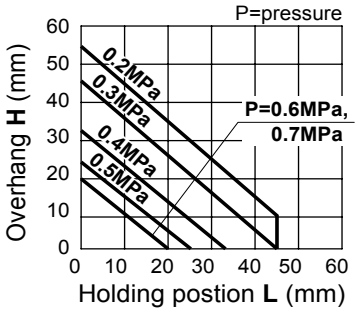


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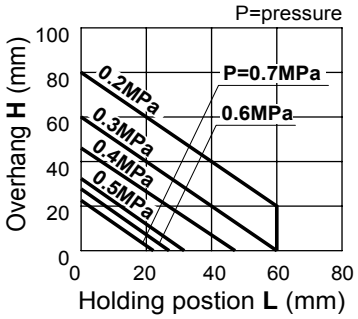


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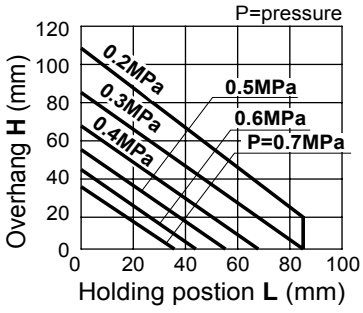
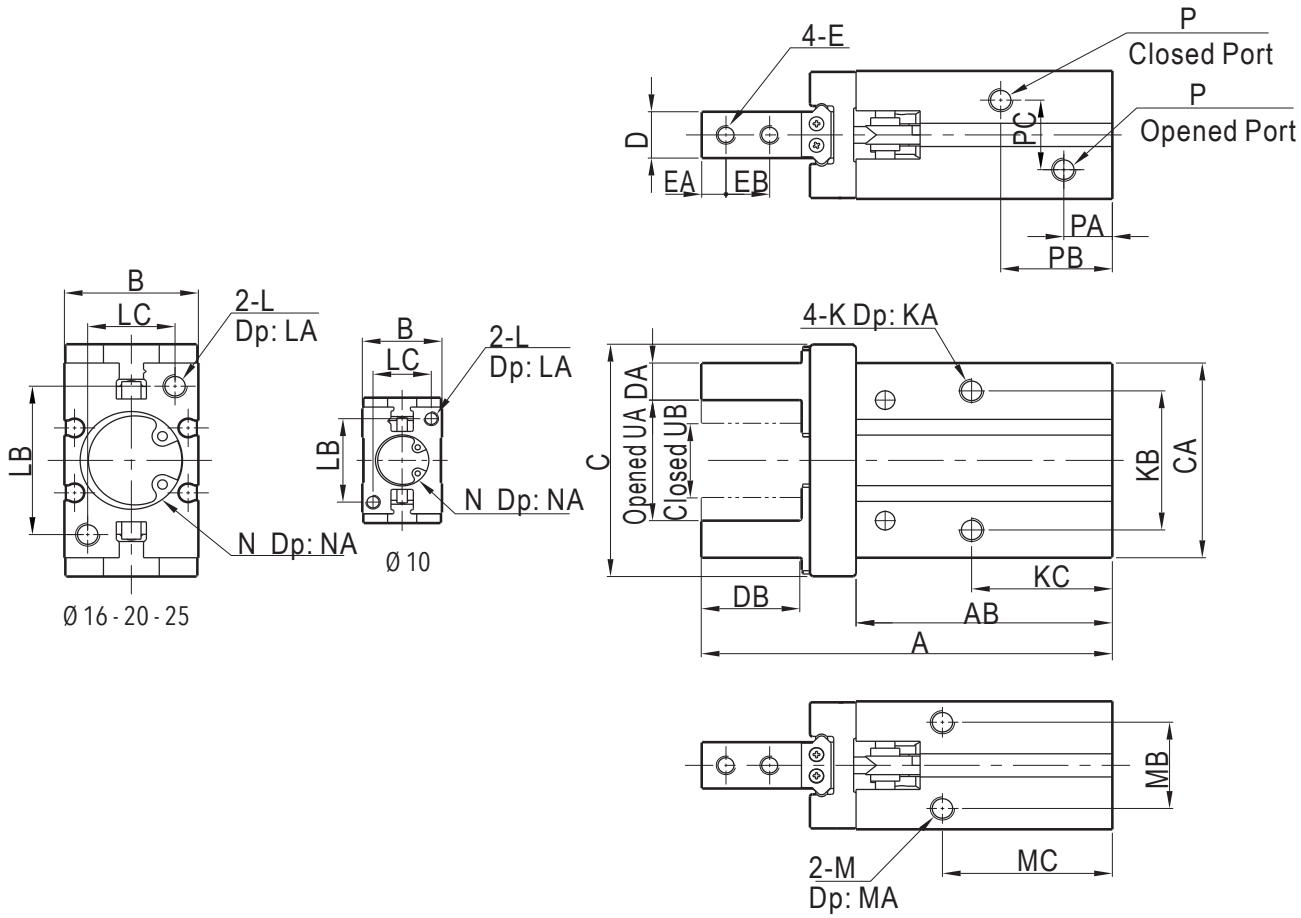
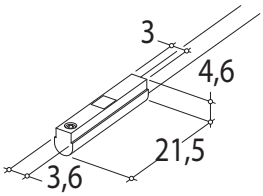
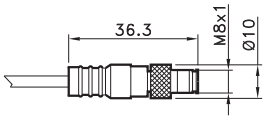





| Ø | A | AB | B | C | CA | D | DA | DB | E | EA | EB | K | KA | KB | KC | L | LA | LB | LC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **10** | 57 | 37.5 | 16.5 | 30 | 23 | 5 | 4 | 12 | M2.5x0.45 | 3 | 5.7 | M3x0.5 | 5 | 16 | 23 | M3x0.5 | 6 | 18 | 12 |
| **16** | 67.5 | 42.5 | 23.5 | 39 | 30.5 | 8 | 5 | 15 | M3x0.5 | 4 | 7 | M4x0.7 | 7 | 24 | 24.5 | M4x0.7 | 8 | 22 | 15 |
| **20** | 85 | 53 | 27.5 | 53 | 42 | 10 | 8 | 20 | M4x0.7 | 5 | 9 | M5x0.8 | 8 | 30 | 29 | M5x0.8 | 10 | 32 | 18 |
| **25** | 103 | 64 | 33.5 | 71 | 52 | 12 | 10 | 25 | M5x0.8 | 6 | 12 | M6x1.0 | 10 | 36 | 30 | M6x1.0 | 12 | 40 | 22 |

| Ø | M | MA | MB | MC | N | NA | P | PA | PB | PC | UA (opened) | UB (closed) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **10** | M3x0.5 | 6 | 11.5 | 27 | Ø11 | 1.5 | M3x0.5 | 7 | 19 | 10 | 15.5 | 11.5 |
| **16** | M4x0.7 | 4.5 | 16 | 30 | Ø17 | 1.5 | M5x0.8 | 7.5 | 19 | 13 | 21 | 15 |
| **20** | M5x0.8 | 8 | 18.5 | 35 | Ø21 | 2 | M5x0.8 | 9.5 | 23 | 15 | 26.5 | 16.5 |
| **25** | M6x1.0 | 10 | 22 | 36.5 | Ø26 | 2 | M5x0.8 | 9 | 24 | 20 | 33.5 | 19.5 |





4= black / **noire** / *nero*
1= brown / **brun** / *marrone*
3= blue / **bleu** / *azzurro*

ROUND SWITCH / **CAPTEUR ROUND** / *SENSORE TONDO*

| CODE | |
|---|---|
| **AR4018010** | REED (MT.2,5) / **REED (MT.2,5)** / *REED (MT.2,5)* |
| **AR4018020** | HALL (MT.2,5) / **HALL (MT.2,5)** / *HALL (MT.2,5)* |
| **AR4018110** | REED + M8 (CM 30) / **REED + M8** / *REED + M8 (CM 30)* |
| **AR4018120** | HALL + M8 (CM 30) / **HALL + M8** / *HALL + M8 (CM 30)* |

For technical data see page 1.58
**Pour les données techniques, voir page 1.58**
*Per i dati tecnici vedere pag. 1.58*