VEP AUTOMATION
Clamping technologies made in Italy since 1966

Chiusura pneumatica CPR50/63
Pneumatic clamp CPR50/63

Caratteristiche principali:

- Fianchetti in acciaio
- Dispositivo a ginocchiera
- Angolo di apertura facilmente modificabile
- Perno di controllo della posizione finale
- Tassello fermo leva esterno
- Leve versatili in acciaio V1 e O1
- 4 possibilità di staffaggio (fronte, retro e sui lati)
- 2 differenti alesaggi del cilindro pneumatico: 50 e 63 mm
- 4 fori di connessione G1/4"
- Finecorsa induttivo (connessione M12x1)
- Comando manuale

Main characteristics:

- Steel flanks
- Toggle action mechanism
- Opening angle easily adjustable
- Checking pin for verifying the end position
- External Arm hard stop
- Versatile steel arms VC and OC
- 4 mounting areas (front, back, on the sides)
- 2 different pneumatic cylinder bores: 50 and 63 mm
- 4 feeding ports G1/4"
- Inductive proximity switch (connection M12x1)
- Hand lever

PDF 3D Step WEB

Indice.
Index.

Codice d'ordine.
Ordering example.

C50 – LA – V1C – I – 105

Modello ed alesaggio cilindro:
Model and cylinder bore

C50
chiusura standard CPR
standard clamp CPR

CM50
chiusura standard CPRM
standard clamp CPRM

CS50
chiusura standard con leva rovesciata (alesaggio cilindro 50 mm)
standard clamp with reverse clamp (cylinder bore 50 mm)

C63
chiusura standard CPR
standard clamp CPR

CM63
chiusura standard CPRM
standard clamp CPRM

CS63
chiusura standard con leva rovesciata (alesaggio cilindro 63 mm)
standard clamp with reverse clamp (cylinder bore 63 mm)

Posizione comando manuale
Hand lever position:

LX: predisposizione leva
arrangement lever
LA: leva sinistra
left lever
LB: leva destra
right lever

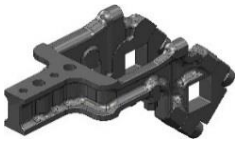
Finecorsa:
Proximity switch:

X: senza finecorsa
without proximity switch
I: finecorsa induttivo P+F
inductive proximity switch P+F

Angolo d'apertura regolabile:
Adjustable opening angle:

V1X	15°	30°	45°	60°	75°	90°	105°	120°
O1X	15°	30°	45°	60°	75°	90°	105°	---
V1XS	15°	---	---	---	---	---	---	---
O1XS	15°	30°	45°	60°	---	---	---	---

Tipologia leva:
Type of arm:

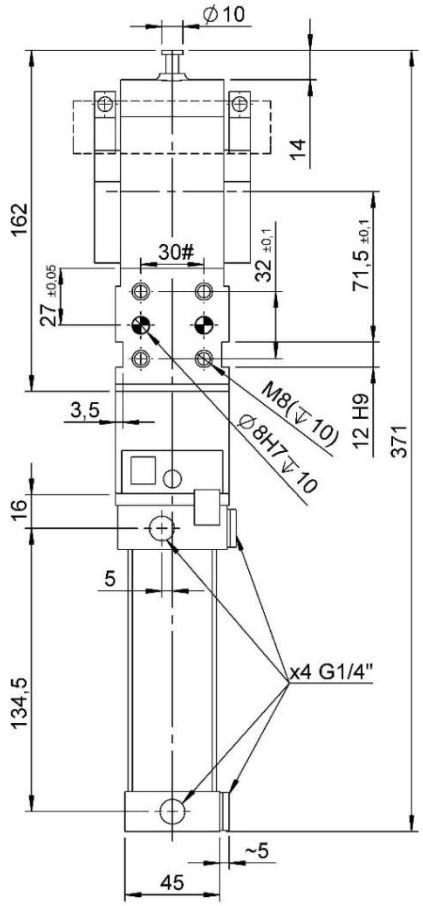


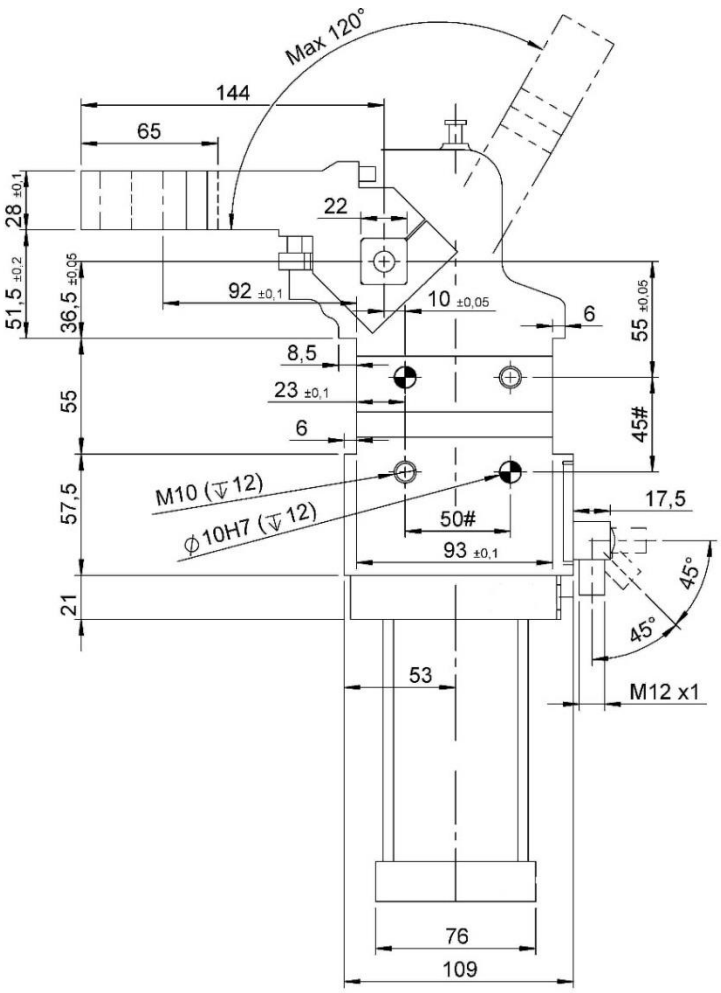
XXX: senza leva
without arm
V1C, V1D e V1S (vedere pag. 3)
V1C, V1D and V1S (see page 3)
O1C, O1D e O1S (vedere pag. 4)
O1C, O1D e O1S (see page 4)
V1CS, V1DS e V1SS (vedere pag. 5)
V1CS, V1DS e V1SS (see page 5)
O1CS, O1DS e O1SS (vedere pag. 6)
O1CS, O1DS e O1SS (see page 5)

N.B.: è possibile trasformare la chiusura tipo V1 nel tipo O1 semplicemente cambiando la posizione della leva.
NOTE: It's possible to transform the clamp type VC into the type OC simply changing the arm position.

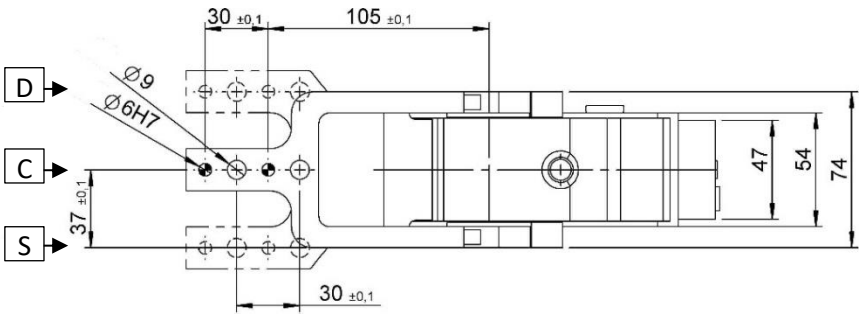
C50-V1...

Chiusura, D.50, Ang. Vario, Leva verticale, Offset 15
Clamp, D.50, Vario Op. Angle, Vertical arm, Offset 15





Angolo standard d'apertura = 120°, è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 120°, it's possible to set a lower angles with steps of 15°.

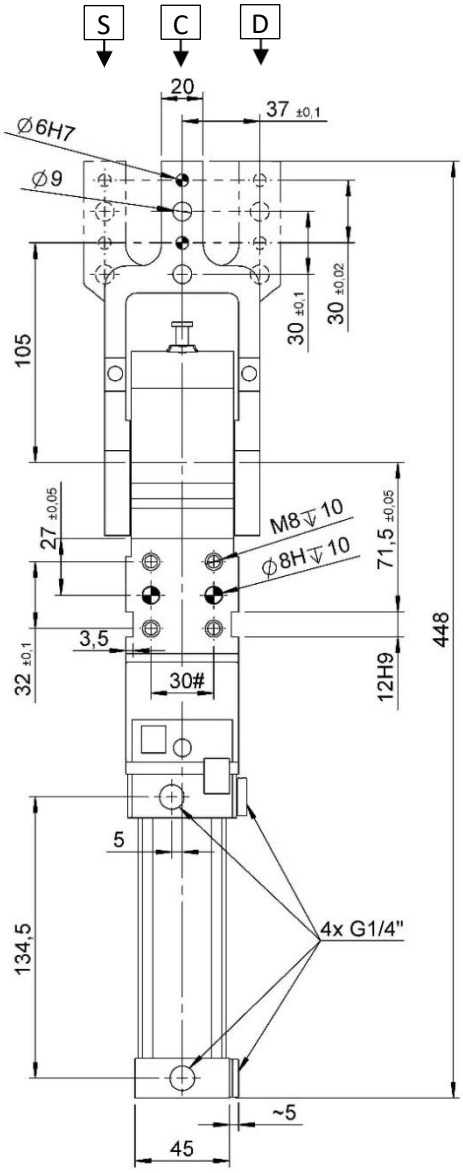


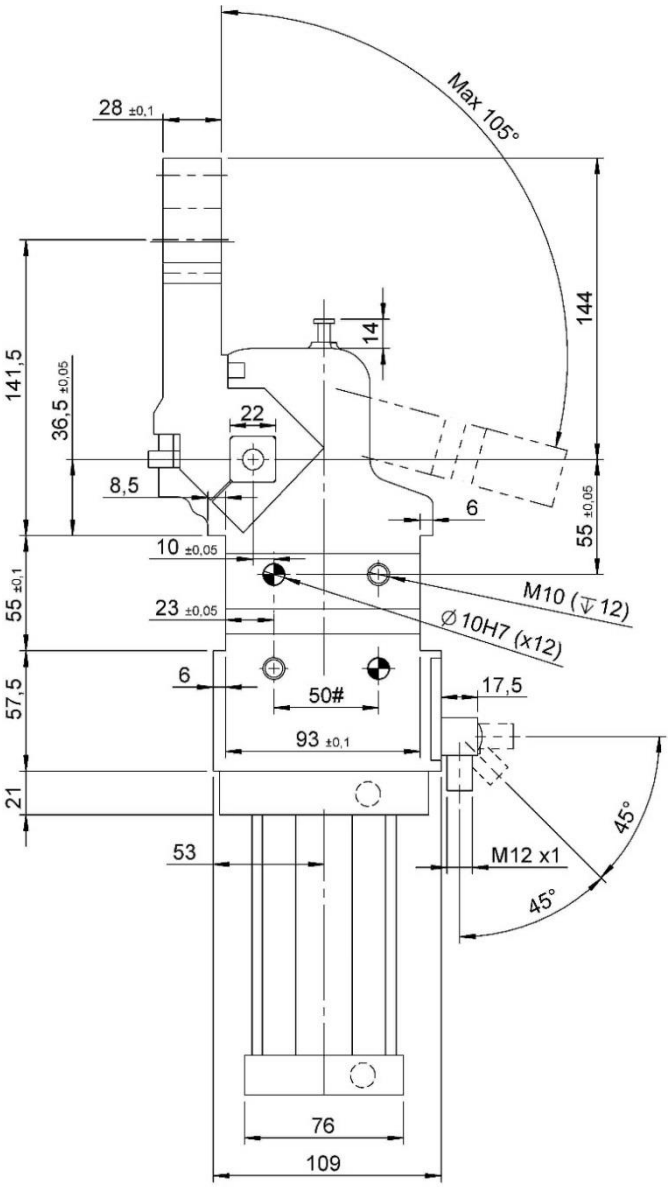
Tolleranze: fori spina ±0.02, fori filettati ±0.1
Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
C50-V1...	50	1000	~ 5,0	2 – 8	270	~ 1,9

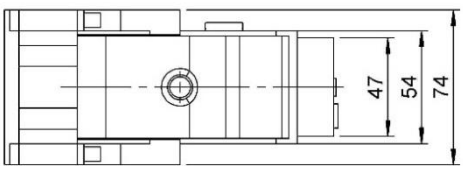
C50-O1…

Chiusura, D.50, Ang. Vario, Leva orizzontale, Offset 15
Clamp, D.50, Vario Op. Angle, Horizontal arm, Offset 15





Angolo standard d'apertura = 105°, è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 105°, it's possible to set a lower angles with steps of 15°.

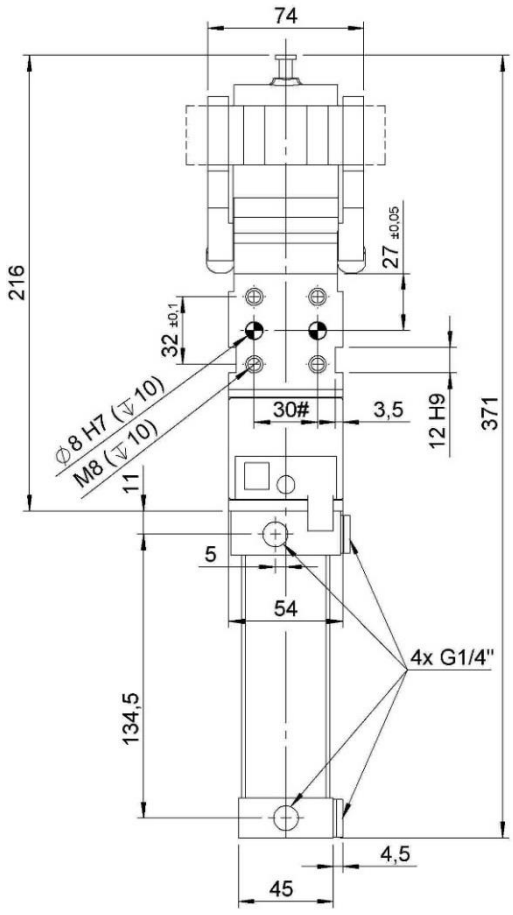


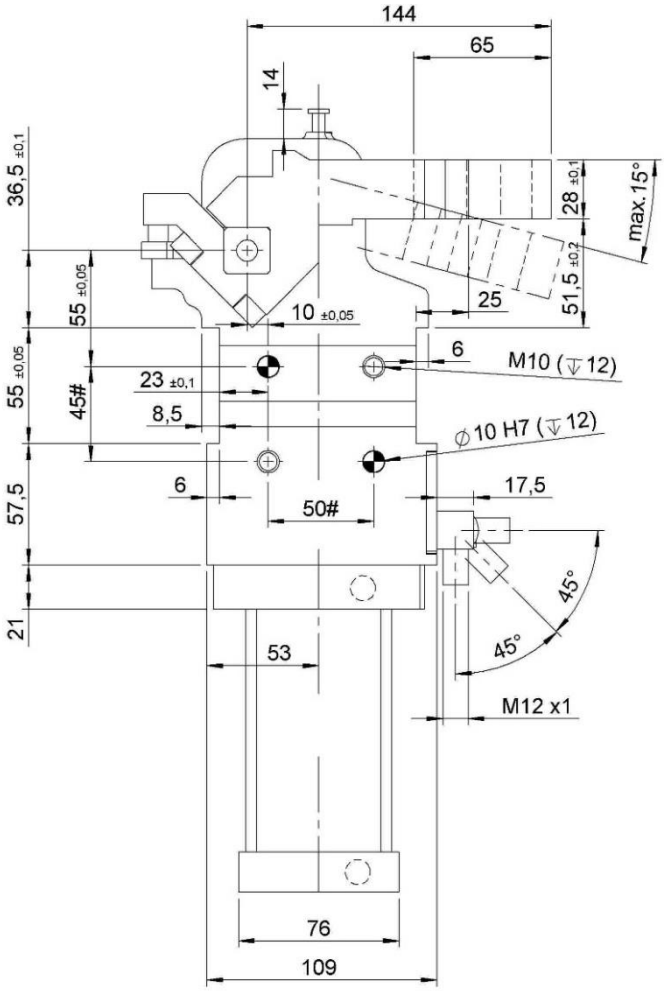
#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
C50-O1…	50	1000	~ 5	2 – 8	270	~ 1,9

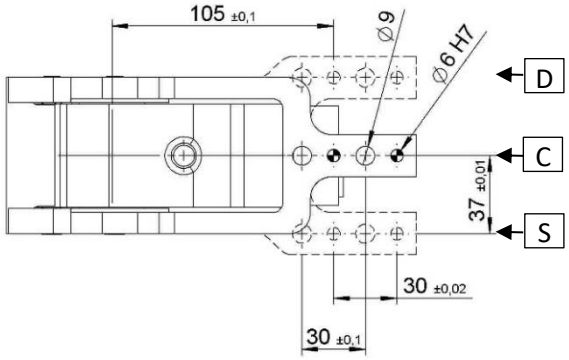
CS50-V1...

Chiusura, D.50, Ang. Vario, Leva verticale simmetrica, Offset 15
Clamp, D.50, Vario Op. Angle, Vertical symmetric arm, Offset 15





Angolo fisso d'apertura = 15°.
Fixed opening angle = 15°.

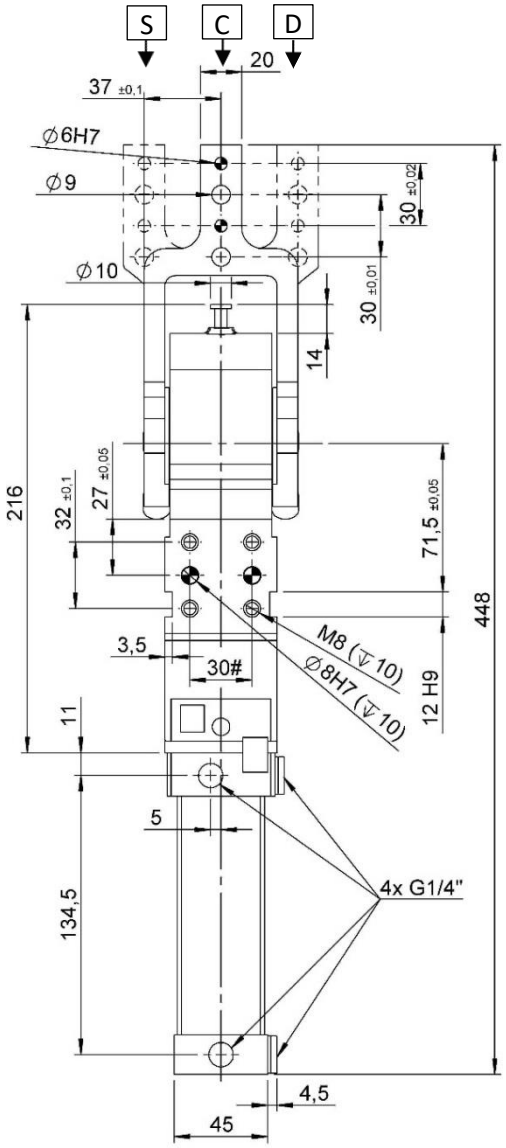


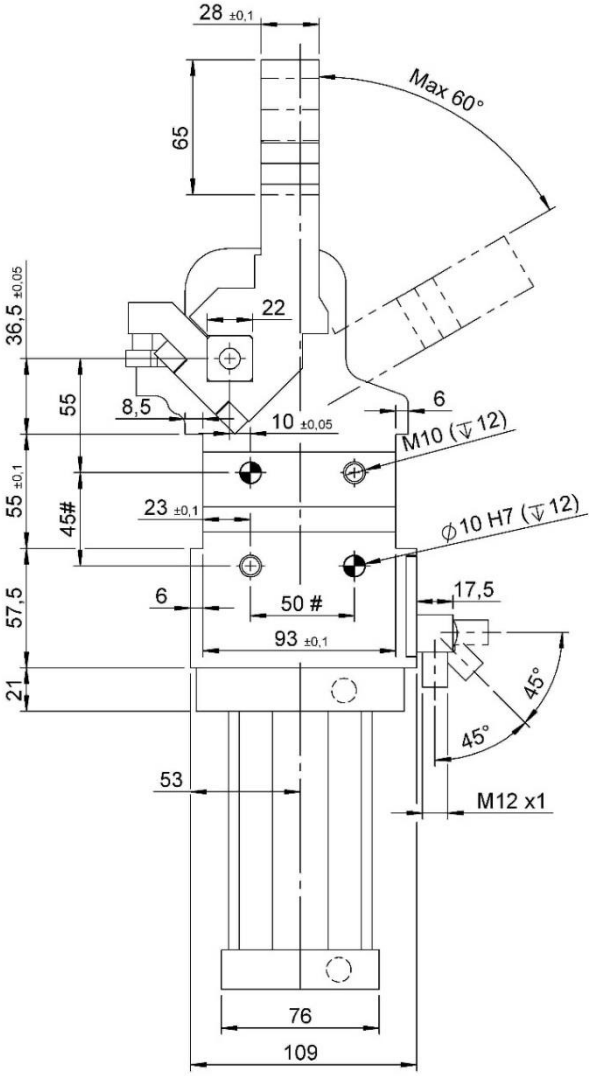
Tolleranze: fori spina: ±0.02 I fori filettati: ±0.1
#Tolerances: dowel holes: ±0.02 I screw holes: ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
CS50-V1...	50	1000	~ 5	2 – 8	270	3

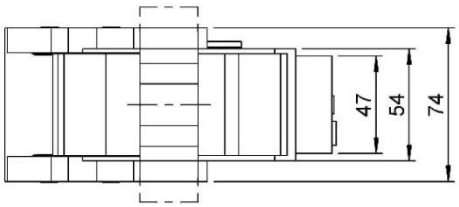
CS50-O1...

Chiusura, D.50, Ang. Vario, Leva orizzontale simmetrica, Offset 15
Clamp, D.50, Vario Op. Angle, Horizontal symmetric arm, Offset 15





Angolo standard d'apertura = 60°, è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 60°, it's possible to set a lower angles with steps of 15°.

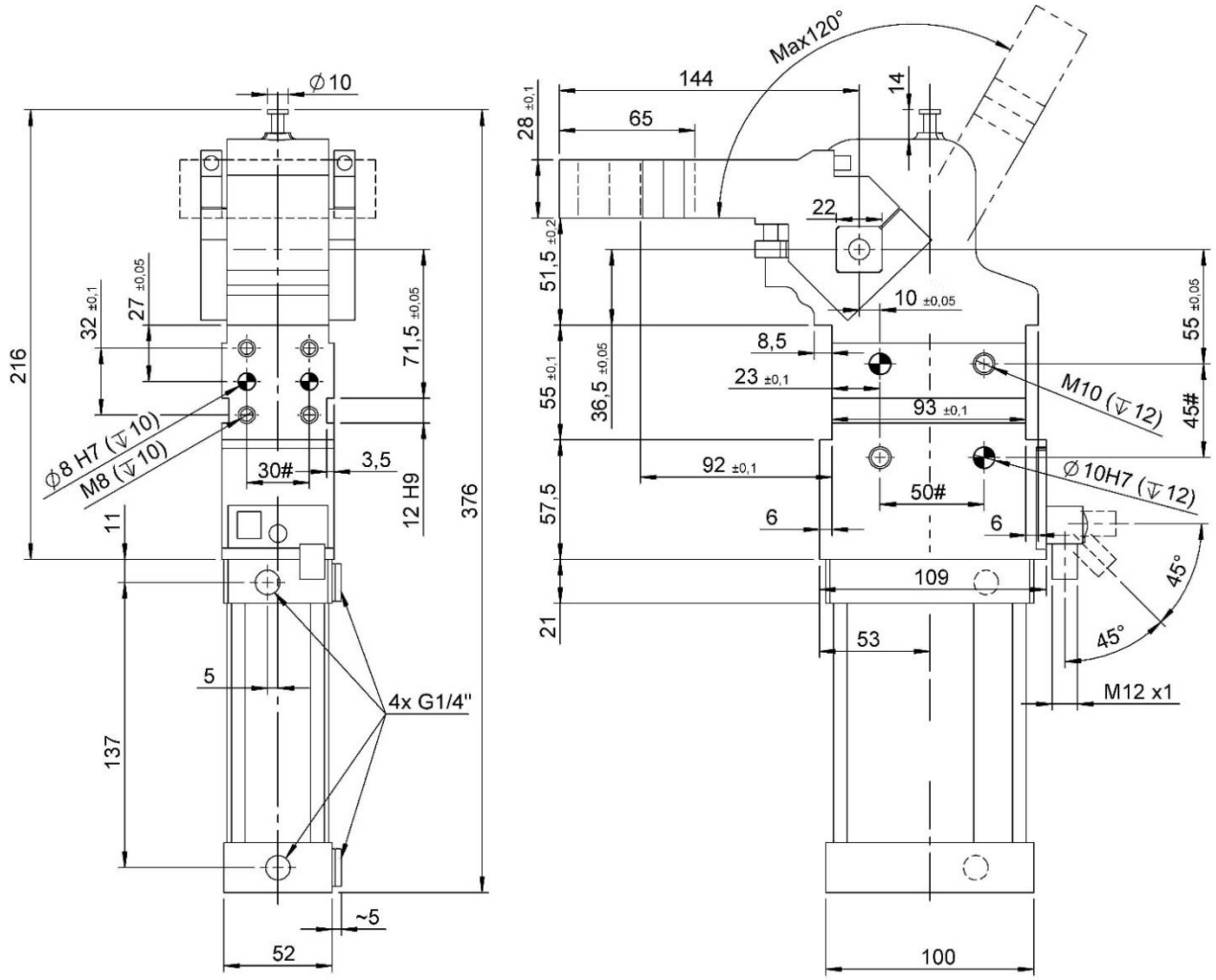


#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

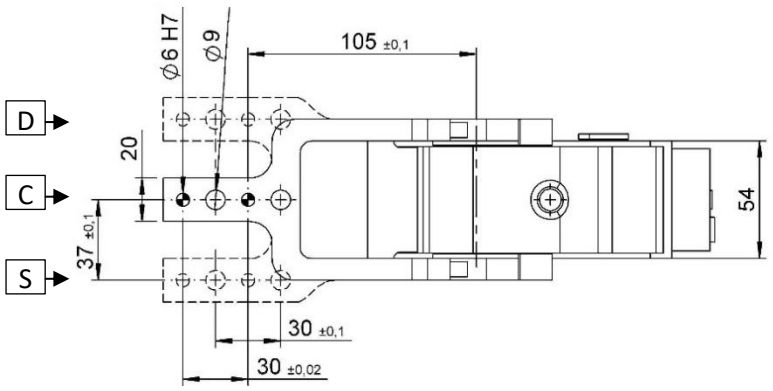
Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
CS50-O1...	50	1000	~ 5	2 – 8	270	~ 1,9

C63-V1...

Chiusura, D.63, Ang. Vario, Leva verticale, Offset 15
Clamp, D.63, Vario Op. Angle, Vertical arm, Offset 15



Angolo standard d'apertura = 120°, è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 120°, it's possible to set a lower angles with steps of 15°.

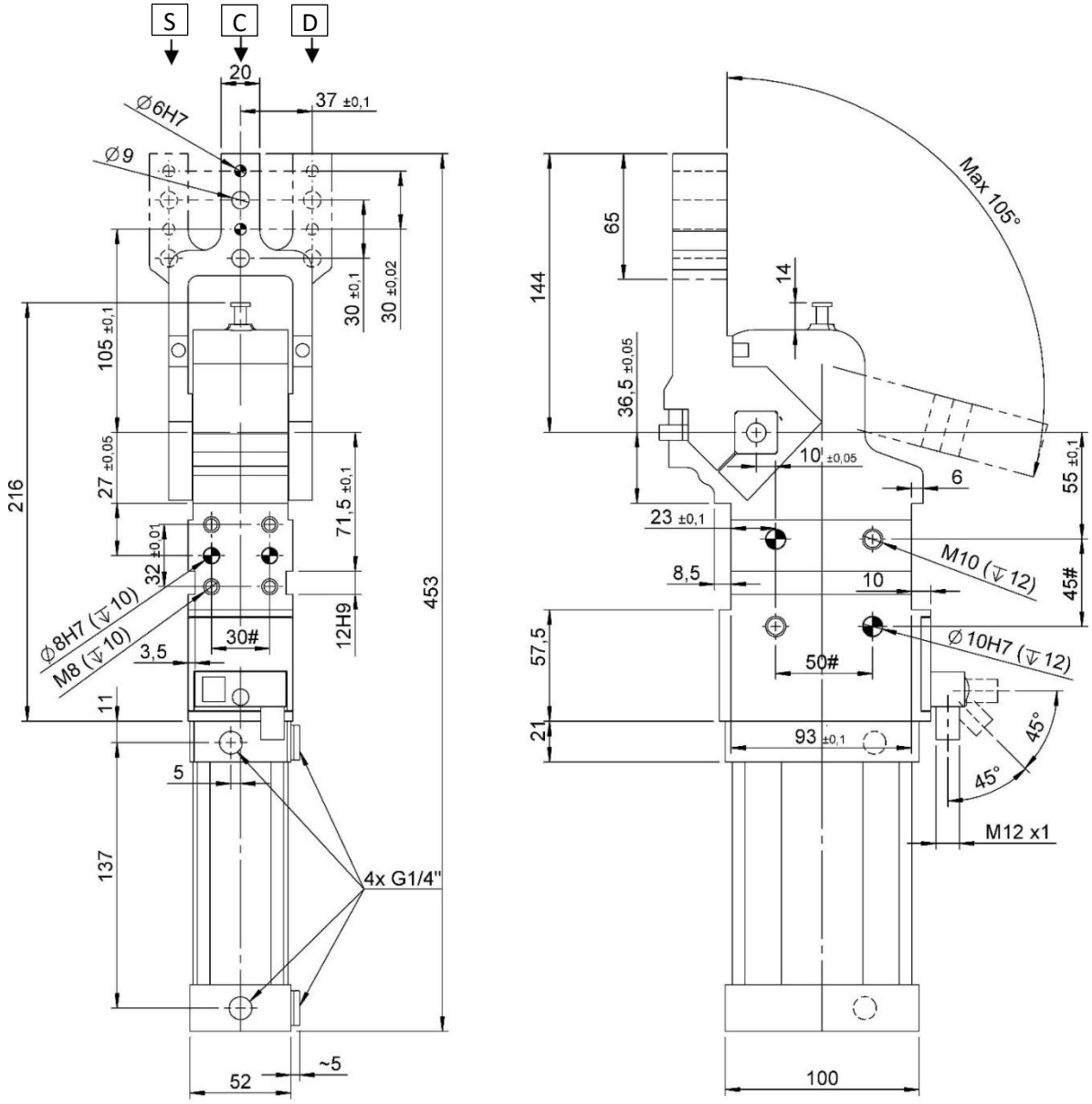


#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

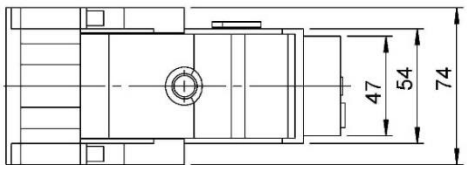
Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
C63-V1...	63	1000	~ 5,5	2 – 8	420	~ 3

C63-O1...

Chiusura, D.63, Ang. Vario, Leva orizzontale, Offset 15
Clamp, D.63, Vario Op. Angle, Horizontal arm, Offset 15



Angolo standard d'apertura = 105°,
è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 105°, it's possible to set a lower angles with steps of 15°.

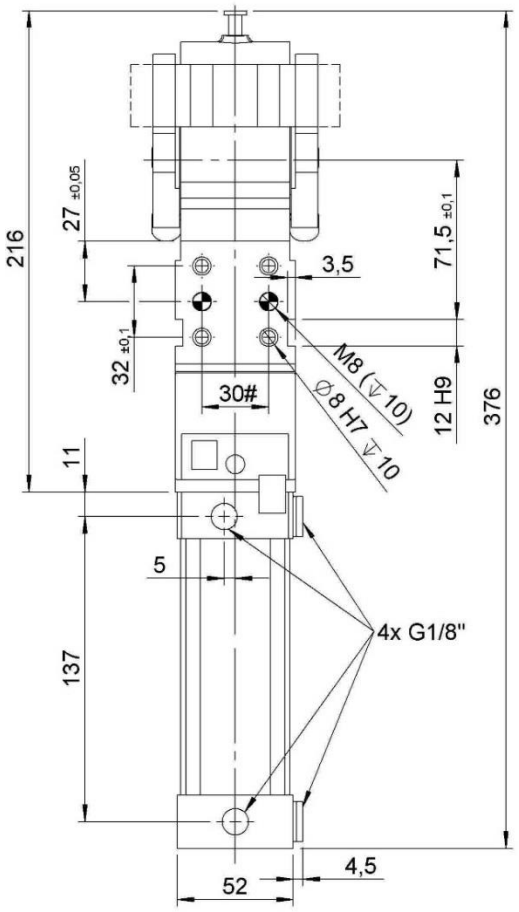


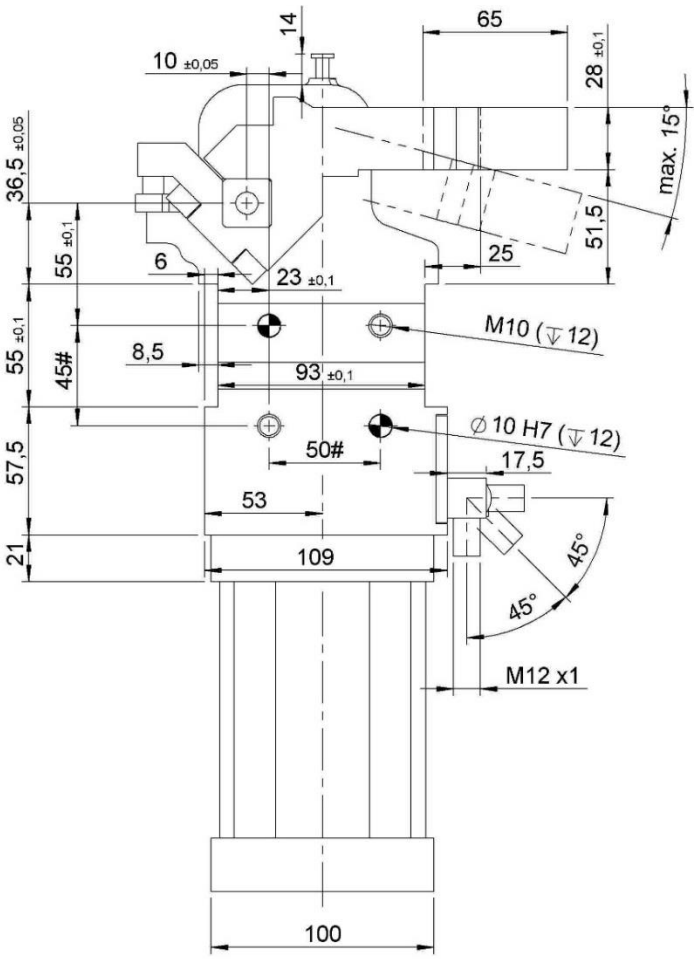
.. Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
C63-O1...	63	1000	~ 5,5	2 – 8	420	~ 3

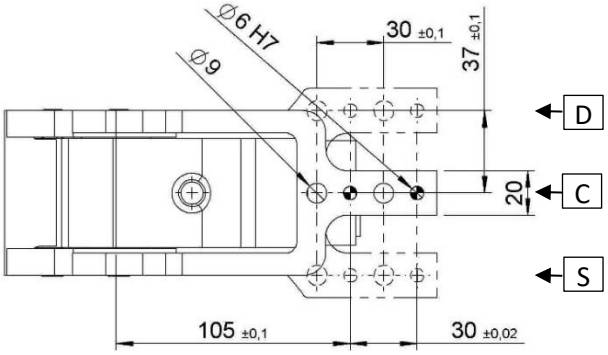
CS63-V1...

Chiusura, D.63, Ang. Vario, Leva verticale simmetrica, Offset 15
Clamp, D.63, Vario Op. Angle, Vertical symmetric arm, Offset 15





Angolo fisso d'apertura = 15°.
Fixed opening angle = 15°.

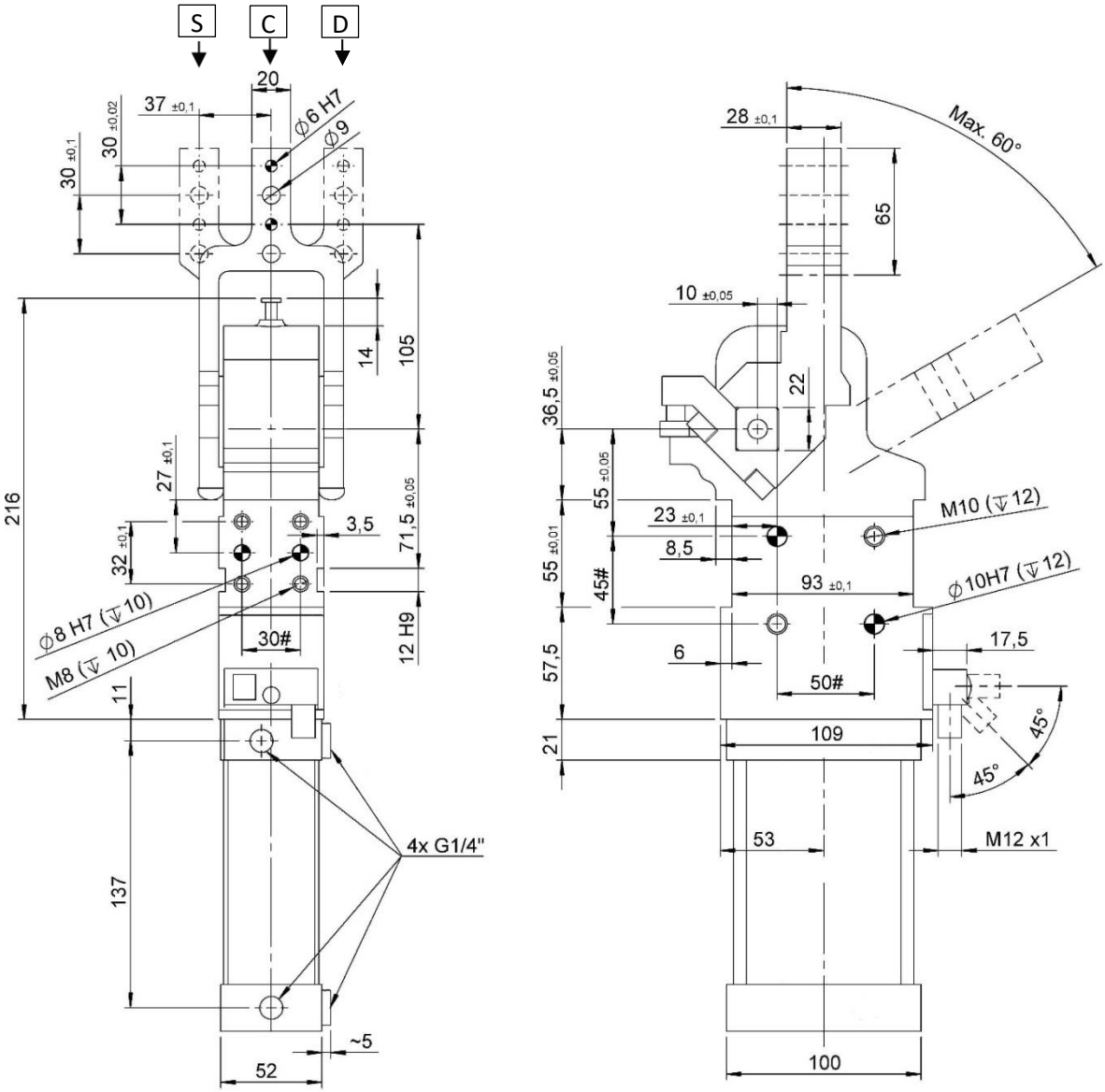


#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

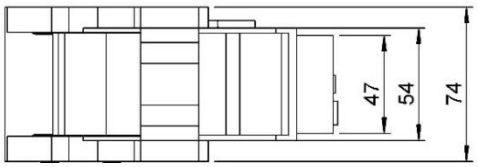
Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
CS63-V1...	63	1000	~ 5,5	2 – 8	420	~ 3

CS63-O1...

Chiusura, D.63, Ang. Vario, Leva orizzontale simmetrica, Offset 15
Clamp, D.63, Vario Op. Angle, Horizontal symmetric arm, Offset 15



Angolo standard d'apertura = 60°,
è possibile settare angoli inferiori ad intervalli di 15°.
Standard opening angle = 60°, it's possible to set a lower angles with steps of 15°.

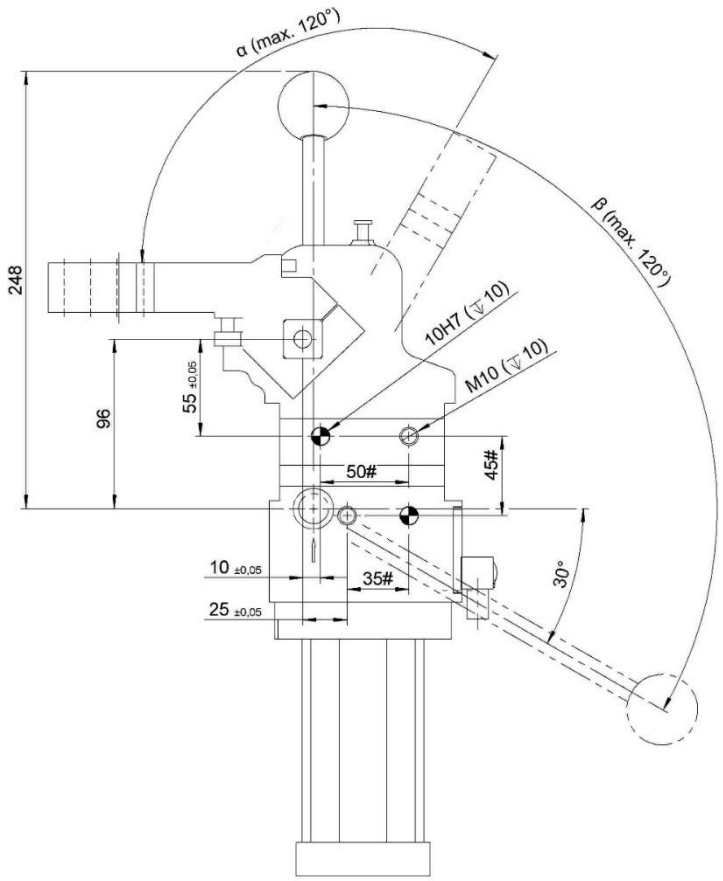


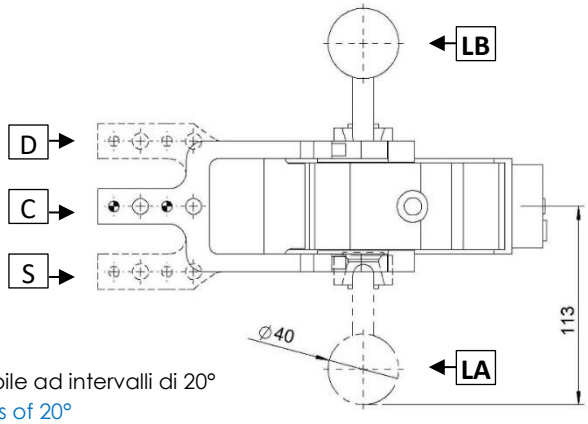
#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Coppia max. di bloccaggio (5 bar) Clamping max. torque (5 bar)	Consumo d'aria (5 bar) Air consumption (5 bar)
	[mm]	[Nm]	[Kg]	[bar]	[Nm]	[l]
CS63-O1...	63	1000	~ 5,5	2 – 8	420	~ 3

CM50L-V1... / CM63L-V1...

Chiusura, D.50/63, Ang. Vario, Cmd. Manuale, Leva Vert, Offset 15
Clamp, D.50/63, Vario Op. Angle, Hand Lever, Vert. arm, Offset 15





Leva comando manuale orientabile ad intervalli di 20°
Manual control adjustable in steps of 20°

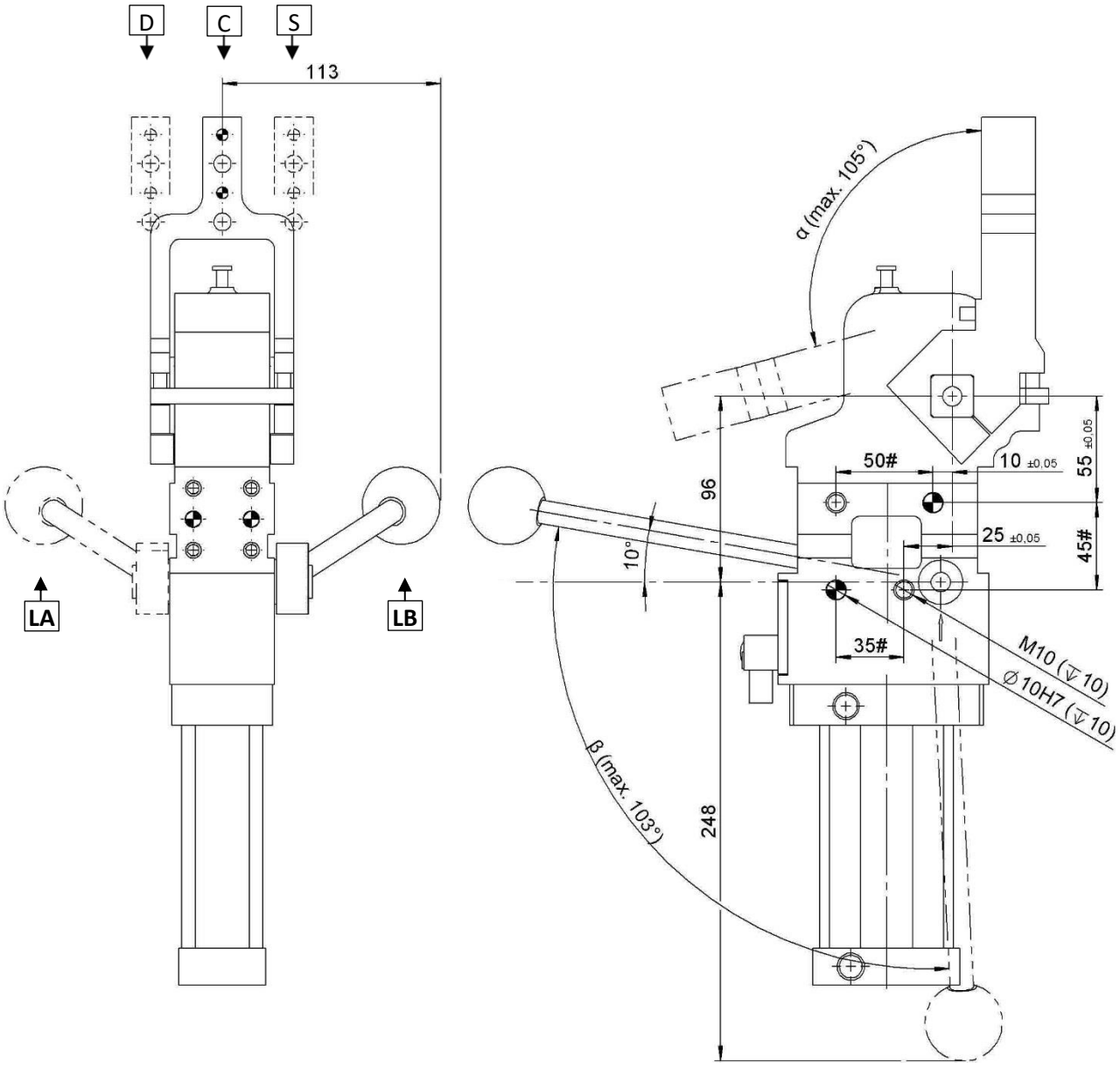
α	15°	30°	45°	60°	75°	90°	105°	120°
β	37°	48°	58°	68°	78°	90°	103°	120°

#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Max. forza manuale applicabile Max. manual force
	[mm]	[Nm]	[Kg]	[bar]	[N]
CM50 L .. V1	50	1000	~ 5,5	2 – 8	200
CM63 L .. V1	63		~ 6,0		

CM50L-O1... / CM63L-O1...

Chiusura, D.50/63, Ang. Vario, Cmd. Manuale, Leva Orizz., Offset 15
Clamp, D.50/63, Vario Op. Angle, Hand Lever, Horiz. Arm, Offset 15



Leva comando manuale orientabile ad intervalli di 20°
Manual control adjustable in steps of 20°

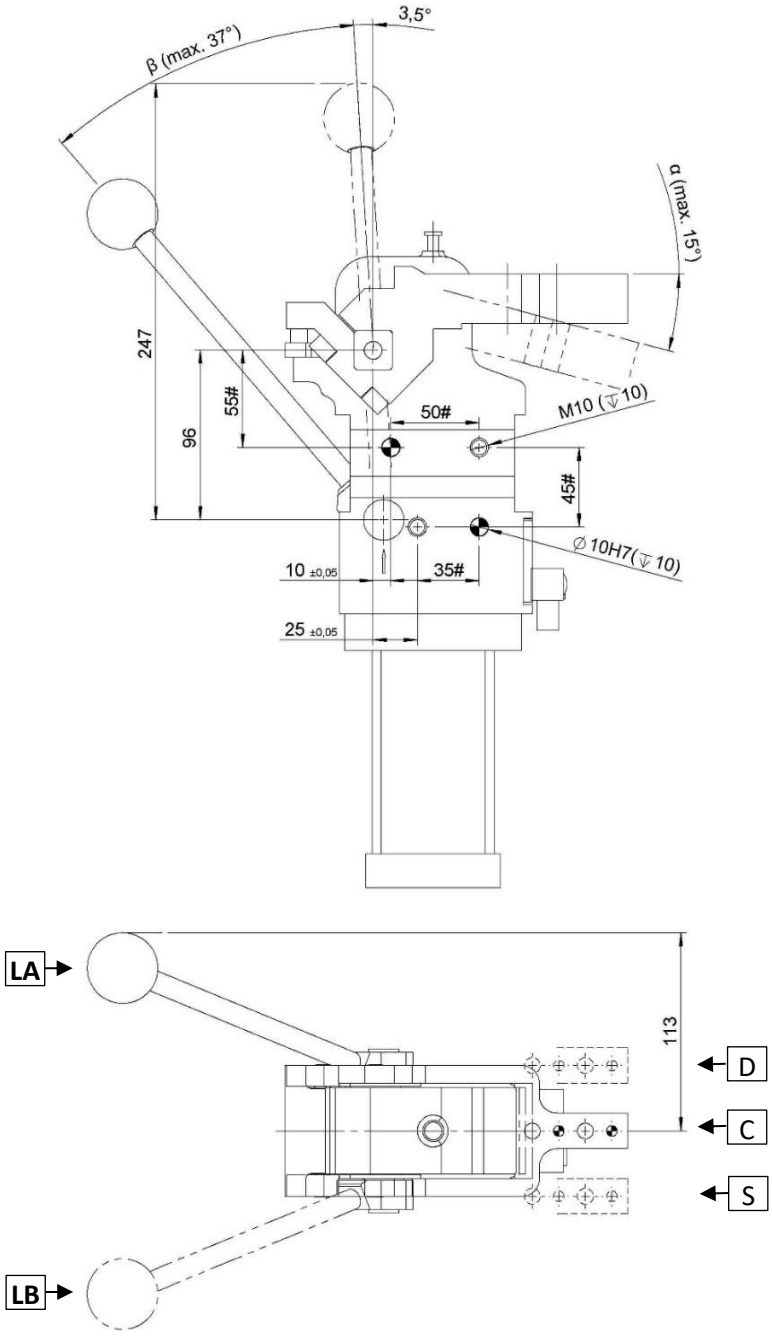
α	15°	30°	45°	60°	75°	90°	105°
β	37°	48°	58°	68°	78°	90°	103°

#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Max. forza manuale applicabile Max. manual force
	[mm]	[Nm]	[Kg]	[bar]	[N]
CM50 L .. O1	50	1000	~ 5,5	2 – 8	200
CM63 L .. O1	63		~ 6,0		

CSM50L-V1... / CSM63L-V1...

Chiusura, D.50/63, Ang. Vario, Cmd. Manuale, Vert. Sim., Offset 15
Clamp, D.50/63, Vario Op. Angle, Hand Lever, Vert. Sym., Offset 15



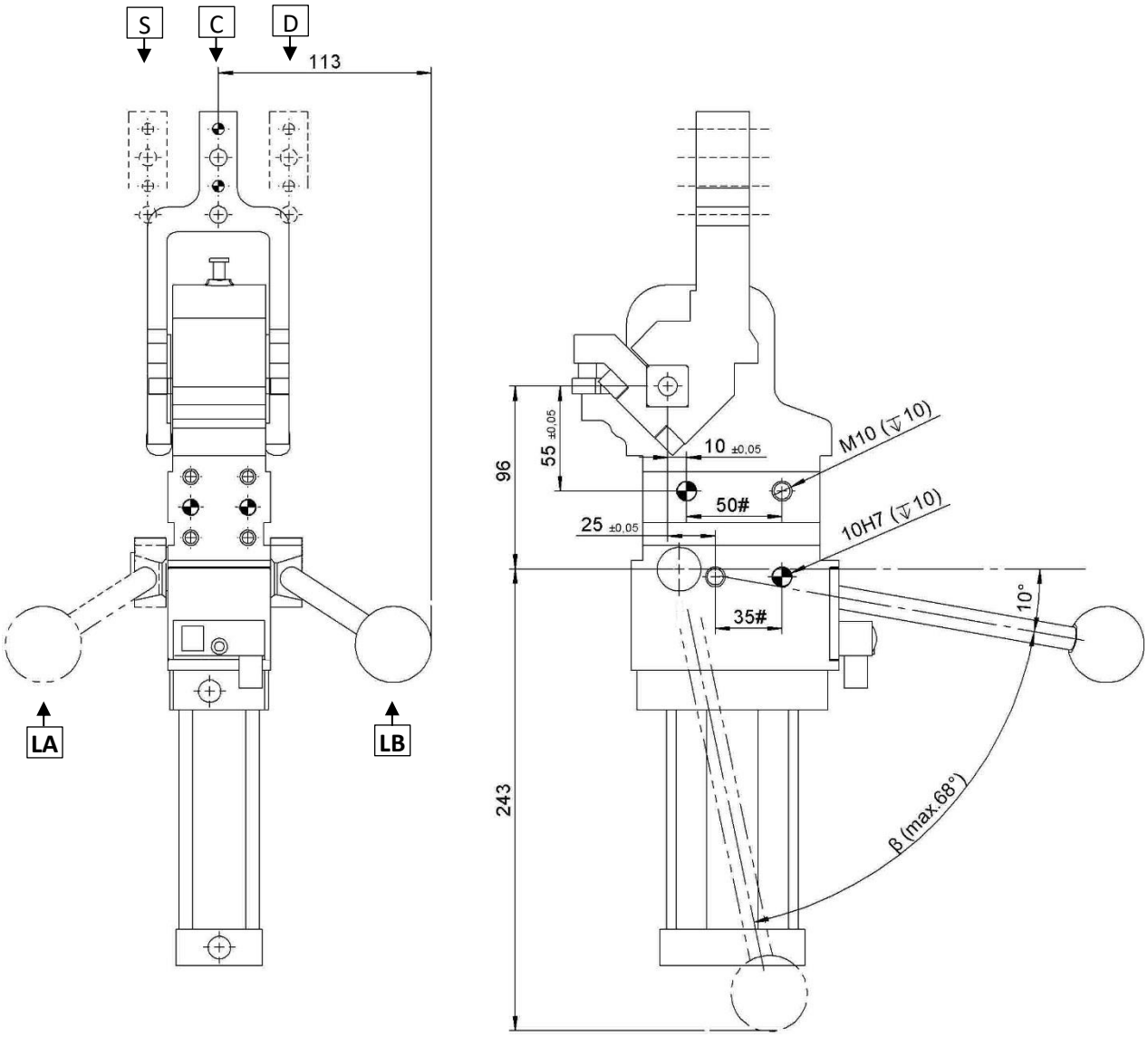
α	15°
β	37°

#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Max. forza manuale applicabile Max. manual force
	[mm]	[Nm]	[Kg]	[bar]	[N]
CSM50 L .. V1	50	1000	~ 5,5	2 – 8	200
CSM63 L .. V1	63		~ 6,0		

CSM50L-O1... / CSM63L-O1...

Chiusura, D.50/63, Ang. Vario, Cmd. Manuale, Orizz. Sim., Offset 15
Clamp, D.50/63, Vario Op. Angle, Hand Lever, Horiz. Sym., Offset 15



Leva comando manuale orientabile ad intervalli di 20°
Manual control adjustable in steps of 20°

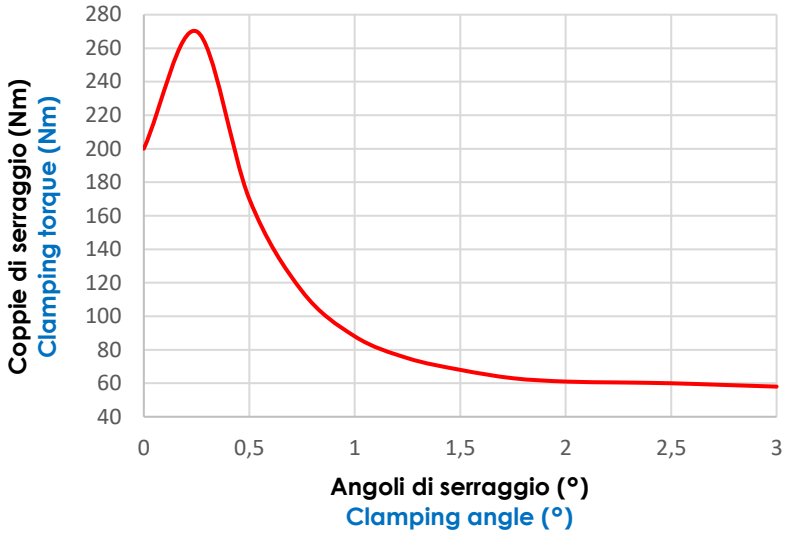
α	15°	30°	45°	60°
β	37°	48°	58°	68°

#Tolleranze: fori spina ±0.02, fori filettati ±0.1
#Tolerances: dowel holes ±0.02, screw holes ±0.1

Modello Type	Alesaggio cilindro Cylinder bore	Momento di ritegno Holding moment	Peso Weight	Pressione d'esercizio Working pressure	Max. forza manuale applicabile Max. manual force
	[mm]	[Nm]	[Kg]	[bar]	[N]
CSM50 L .. O1	50	1000	~ 5,5	2 – 8	200
CSM63 L .. O1	63		~ 6,0		

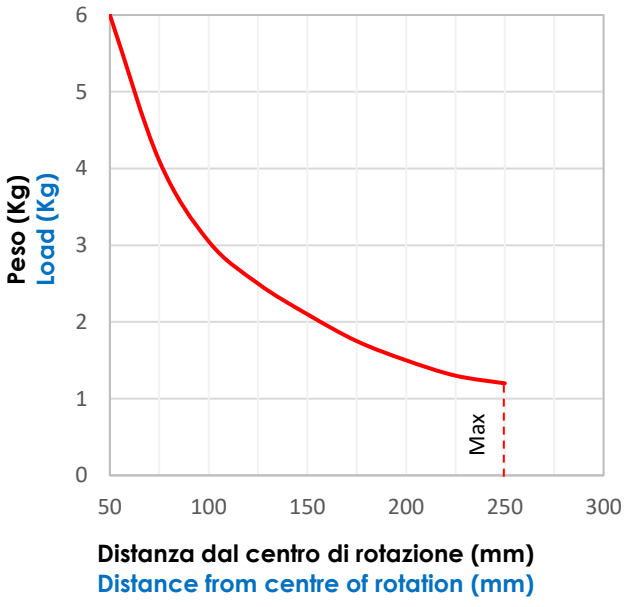
Diagrammi CPR50.
Diagrams CPR50.

Coppia di bloccaggio (Nm)
Clamping torque (Nm)



Coppia max. di bloccaggio (5 bar): **270 Nm**.
Max. clamping torque (5 bar): **270 Nm**.

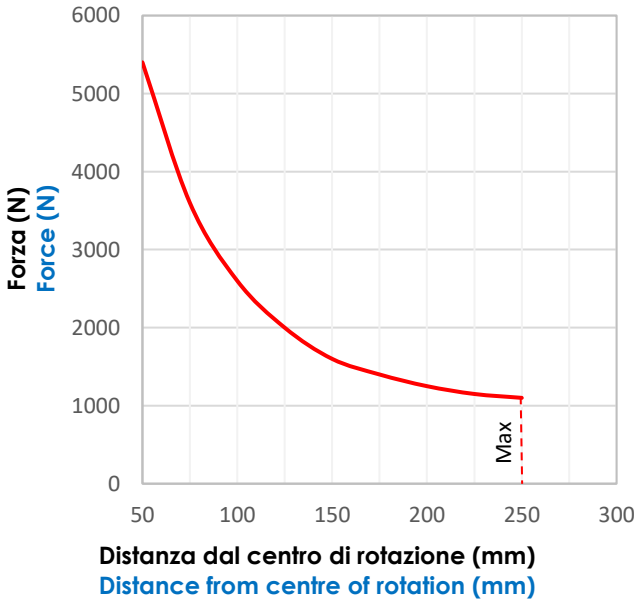
Carico max. applicabile alla leva (Kg).
Max. load applicable on the arm (Kg).



Coppia max. determinata dal peso (5 bar): **3 Nm**.
Max. torque by weight (5 bar): **3 Nm**.

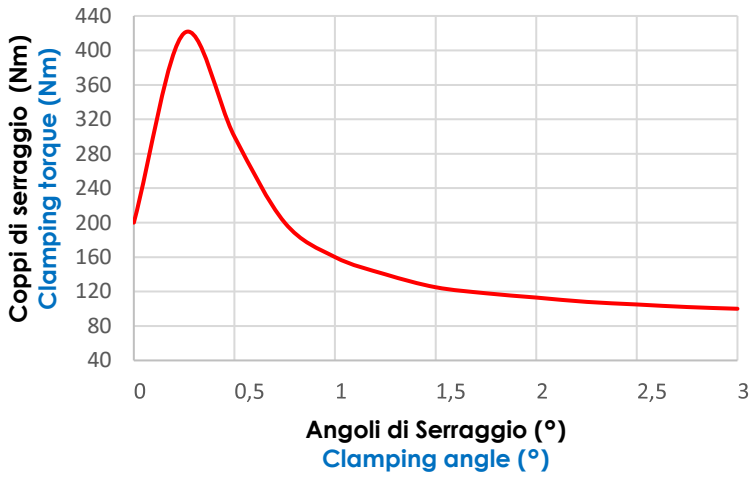
La coppia di carico max. per le applicazioni con il tassello fuori asse è pari a **2.5 Nm.**
The max, load by torque for the applications with block out of axis is **2.5 Nm**.

Forza max. esercitata (N).
Max. force applied (N).



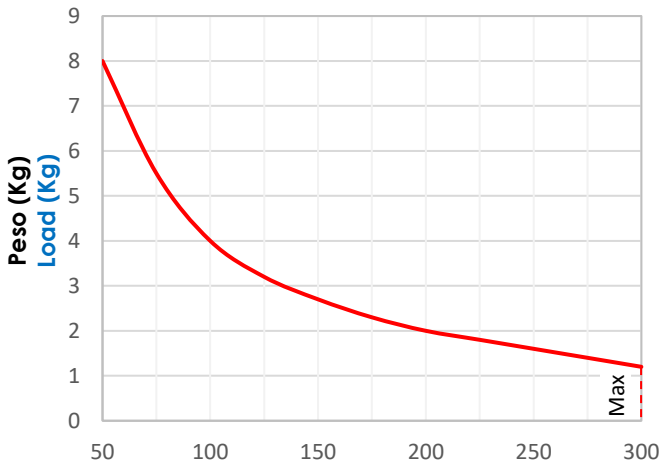
Diagrammi CPR63.
Diagrams CPR63.

Coppia di bloccaggio (Nm)
Clamping torque (Nm)

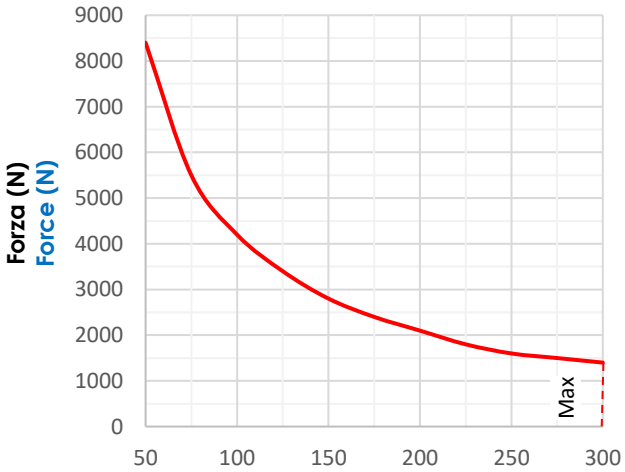


Coppia max. di bloccaggio (5 bar): **420 Nm**.
Max. clamping torque (5 bar): **420 Nm**.

Carico max. applicabile alla leva (Kg)
Max. load applicable on the arm (Kg)



Forza max. esercitata (N)
Max. force applied (N).



Coppia max. determinata dal peso (5 bar): **4 Nm**.
Max. torque by weight (5 bar): **4 Nm**

La coppia di carico max. per le applicazioni con il tassello fuori asse è pari a **3 Nm**
The max, load by torque for the applications with block out of axis is **3 Nm**

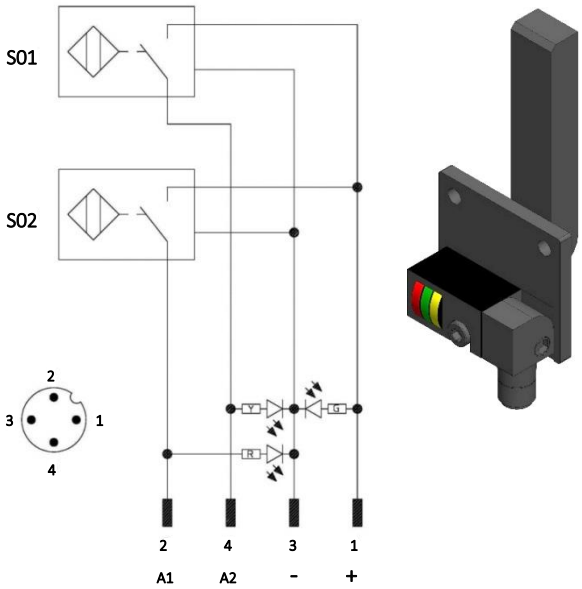
Schema Finecorsa induttivo (cod. 05688).
Diagram for Inductive proximity switch (cod. 05688).

Caratteristiche tecniche (P+F):

- Tipo di uscita: PNP;
- Tensione d'alimentazione: 10-30 VDC;
- Corrente max. di commutazione: 200 mA;
- Consumo di corrente: < 20 mA;
- Calo di tensione: <1,8 V
- Campo di temperatura: -25° / 70° C.

Technical data (P+F):

- Output type: PNP;
- Feeding voltage: 10-30 VDC;
- Max. commutating current: 200 mA;
- Power supply: < 20 mA;
- Voltage drop: < 1,8 V;
- Temperature range: -25° / 70° C.

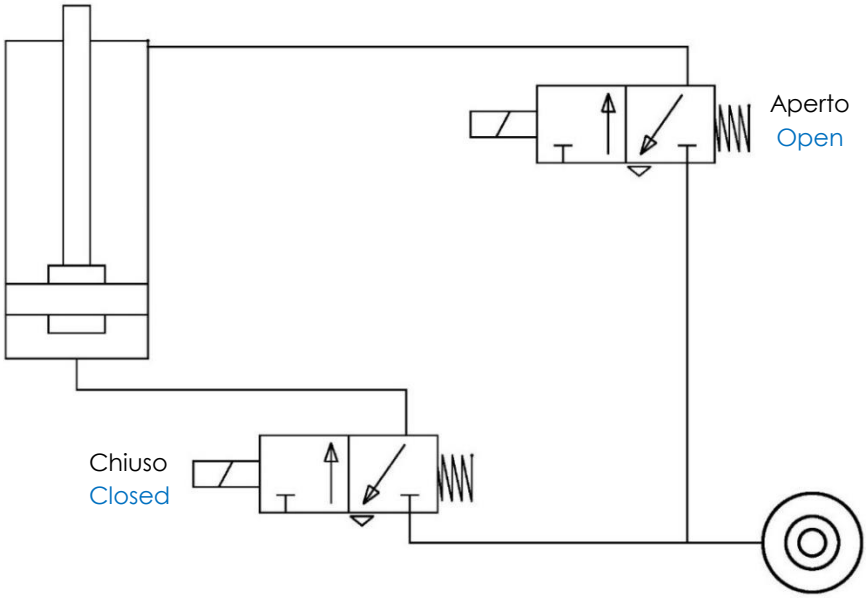


S01 = segnale d'apertura
S01 = opening signal
S02 = segnale di chiusura
S02 = closing signal

Y = LED giallo / yellow LED
G = LED verde / green LED
R = LED rosso / red LED

1 = filo marrone / brown wire
2 = filo nero / black wire
3 = filo blu / blue wire
4 = filo bianco /white wire

Schema pneumatico.
Pneumatic plan.



Pressione d'esercizio Working pressure	Consumo d'aria Air consumption (5 bar)
[bar]	[l]
2 – 8	~ 1,9

Istruzioni operative.
Operating instructions.

Modifica angolo d'apertura.

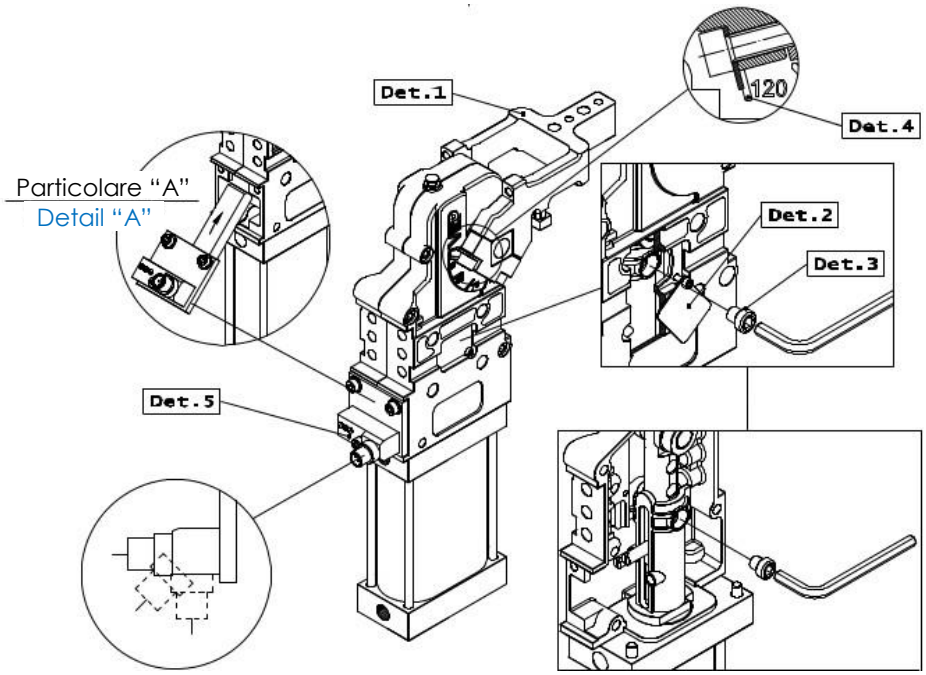
- Posizionare la leva (Det.1) in apertura;
- Togliere il riparo del vano (Det.2) per regolazione angolo e svitare il perno filettato (Det.3);
- Spostare la leva (Det.4) nella posizione angolare desiderata facendo riferimento all'indicatore angolo (Det.4);
- Riavvitare il perno filettato (coppia di serraggio = 30Nm) e reinserire il riparo all'interno del vano

N.B. per la regolarizzazione di angoli pari, operare sul lato sinistro e per gli angoli dispari, sul lato destro.
Il settaggio del sensore induttivo (Det.5) avviene in modo automatico senza effettuare alcuna operazione.

Opening angle change.

- Set the lever (Det.1) in opening position,
- Remove the protection (Det.2) from the angle adjustment compartment and unscrew the threaded pin (Det.3);
- Move the clamping arm (Det.4) to the required angular position referring to the angle indicator (Det.4);
- Tighten the threaded pin (clamping torque = 30 Nm) and refit the protection inside the compartment

NOTE: to adjust even angles operate on the left side and for add angles operate on the right side;
The setting of the inductive sensor switch (Det.5) is automatic and doesn't require any operation.



Montaggio sensore induttivo

- Posizionare la leva (Det.1) in d'apertura (min. 60°);
  Per chiusure registrate con angoli di d'apertura inferiori a 60° bisogna svitare il perno di regolazione angolo (Det.3);
- Inserire il sensore induttivo (Particolare "A") avvitando le 2 viti M5.

Come visto in precedenza il settaggio del sensore induttivo (Det.5) avviene in modo automatico.

Inductive sensor assembly

- Set the lever (Det.1) in opening position (min. 60°);
  For regulated clamps with opening angle less than 60° unscrew the angle adjustment pin (Det.3),
- Insert the inductive sensor (Detail "A") screwing 2 M5 screws.

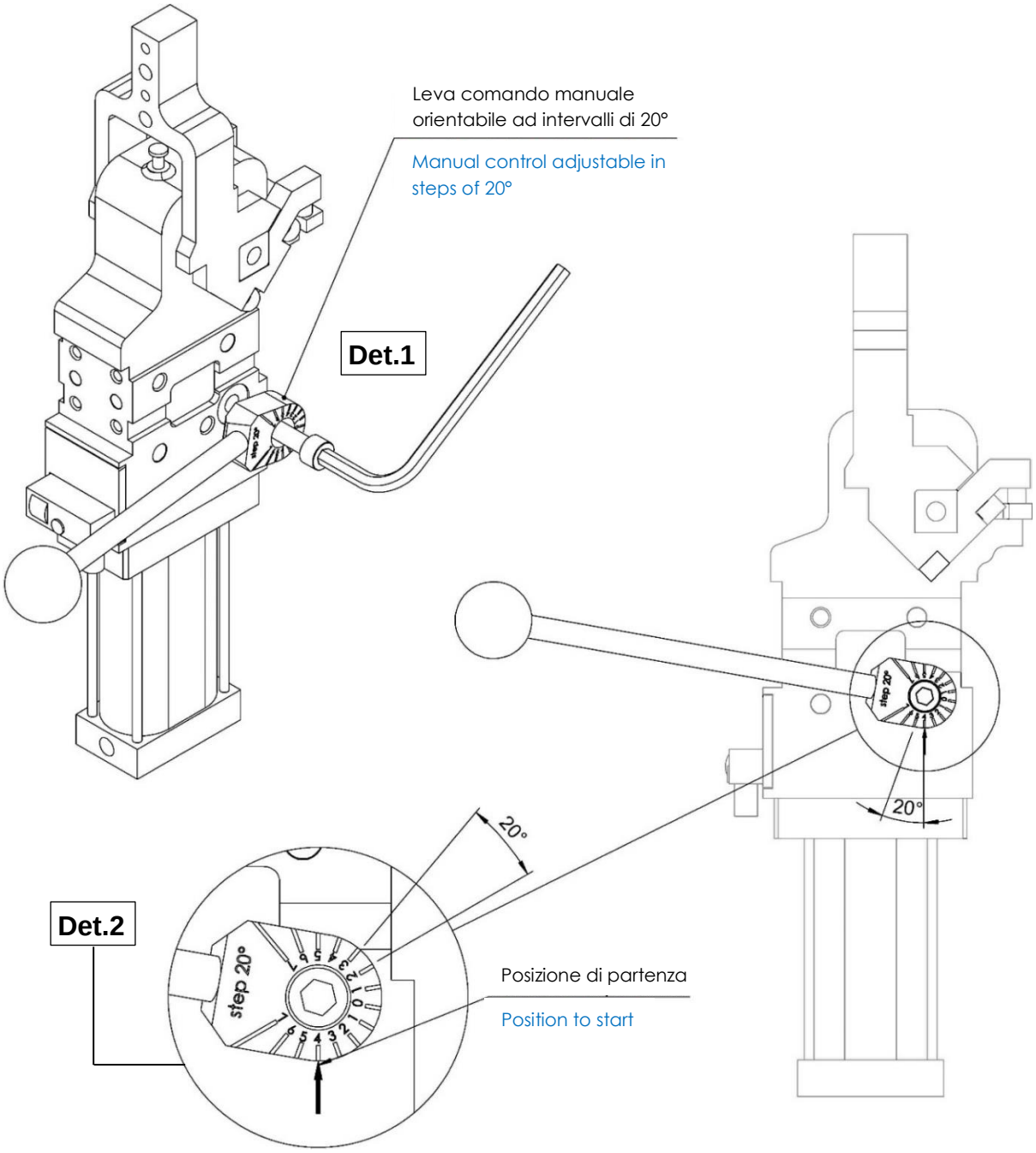
As view before the setting of inductive sensor (Det.5) is automatic and doesn't require any operation.

Modifica posizione comando manuale.

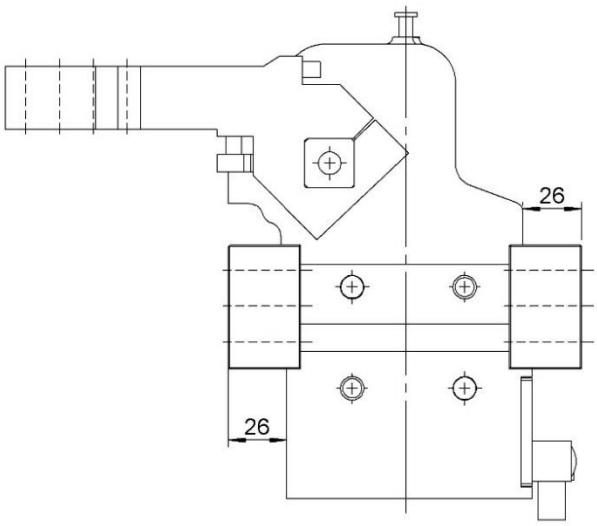
- Posizionare il dispositivo in sicurezza;
- Svitare il perno filettato con una chiave a inserto con impronta a brugola da 8 mm (Det.1);
- Spostare la leva nella posizione angolare desiderata facendo riferimento all'indicatore angolo (Det.2);
- Riavvitare il perno filettato.

Position change hand lever.

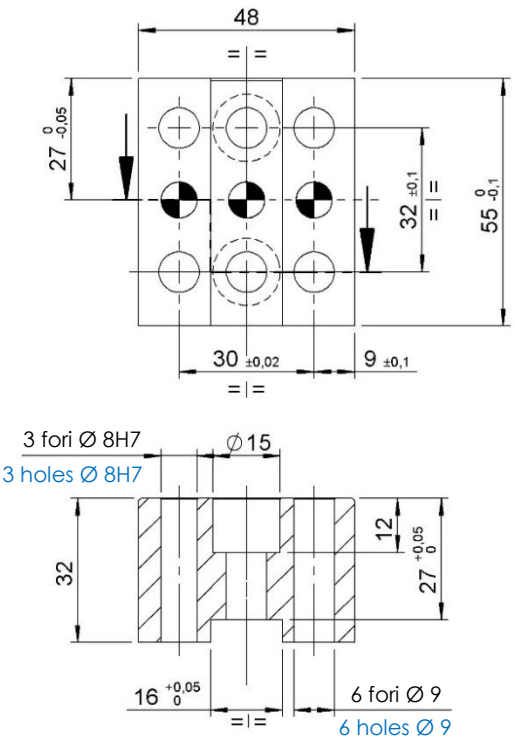
- Set the device in security;
- Unscrew the threaded pin with insert Keys and imprint from 8 mm (Det.1);
- Move the hand lever to the required angular position referring to the angle indicator (Det.2);
- Tighten the threaded pin.



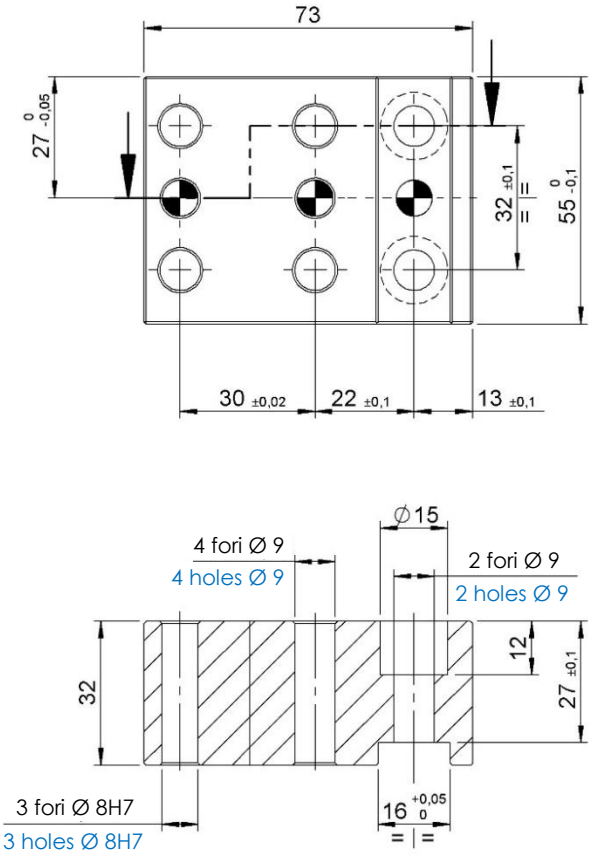
Blocchetti di attacco.
Fixing blocks.



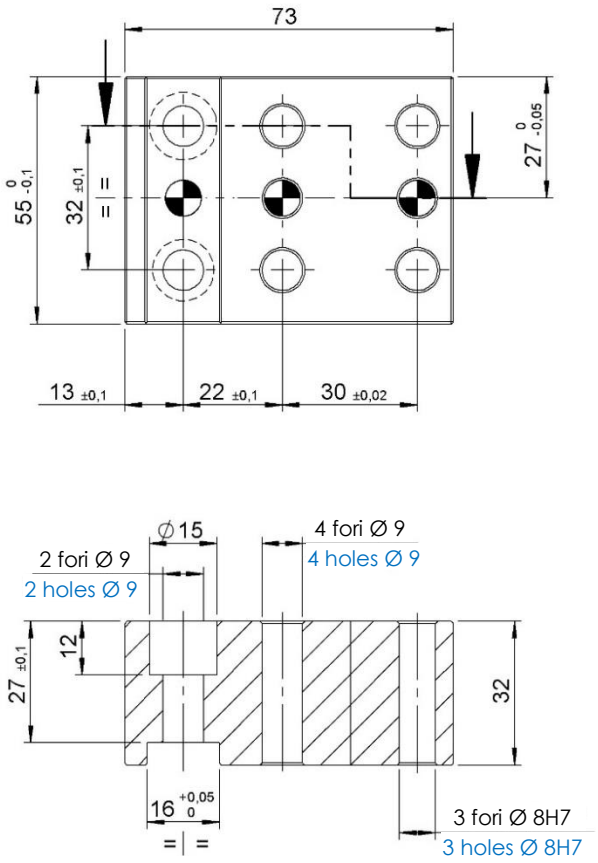
Cod. 04402



Cod. 05777



Cod. 05778



Gruppo aggancio leva.
Lever lathing group.

Questo dispositivo (particolare "A") applicato sul fianco della chiusura serve ad assicurare, in fase d'apertura della leva e in mancanza d'aria nella rete pneumatica, che il tassello di bloccaggio non cada per inerzia.
(N.B.: rispettare le coppie di carico max. applicabile alla leva).

This device (detail "A") applied on the side of the clamp ensure, during the lever opening and when there isn't air in the pneumatic circuit, that the applied clamping black doesn't fall due to inertia.
(NOTE: Not exceed the max, load torques applicable to the lever).

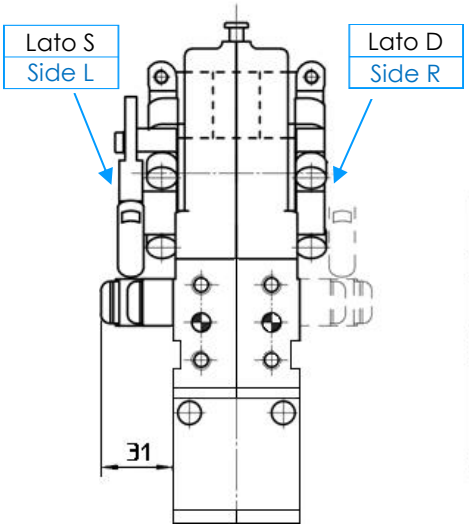
Codice d'ordine.
Ordering example.

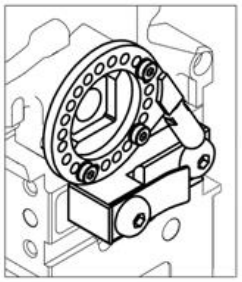
C - AL45 – D

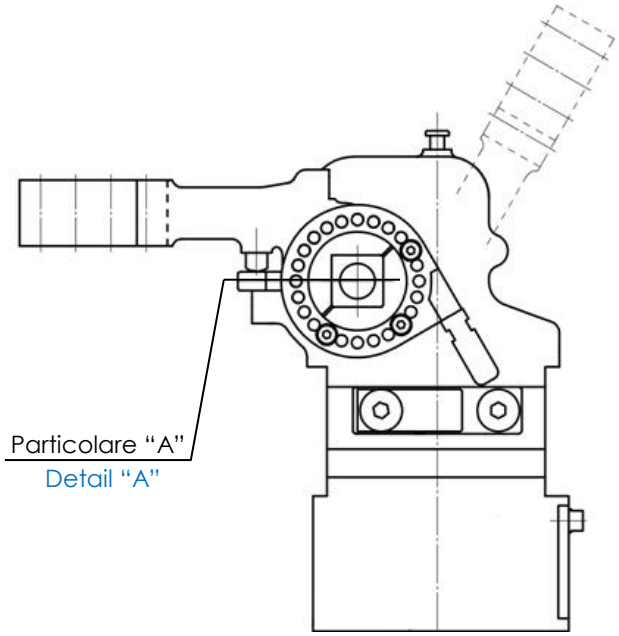
Angolo d'apertura della leva di bloccaggio.
Opening angle of clamping arm

Lato su cui applicare il dispositivo:
Side where apply the device:

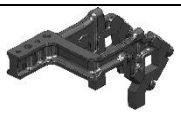
D = lato destro
right side
S = lato sinistro
left side







Ricambi.
Spare parts.

# Kit	Immagine Picture	Descrizione Description	Articolo Article
Gruppo leva Arm assebly		Leva tipo **V1C** e **O1C** Arm type **V1C** and **O1C**	**05625/C**
		Leva tipo **V1D** e **O1S** Arm type **V1D** and **O1S**	**05625/DX/C**
		Leva tipo **V1S** e **O1D** Arm type **V1S** and **O1D**	**05625/SX/C**
		Leva tipo **V1CS** e **O1CS** Arm type **V1CS** and **O1CS**	**05625/CPRS/C**
		Leva tipo **V1SS e O1DS** Arm type **V1SS** and **O1DS**	**05625/SX/CPRS/C**
		Leva tipo **V1DS e O1SS** Arm type **V1DS** and **O1SS**	**05625/DX/CPRS/C**
Finecorsa **Proximity switch**		Finecorsa induttivo P+F Inductive proximity switch P+F	**05688**
Kit guarnizioni **Seals kit**		Guarnizioni cilindro pneumatico CPR50 Seal components for pneumatic cylinder CPR50	**SCR-CIL50V**
Kit guarnizioni **Seals kit**		Guarnizioni cilindro pneumatico CPR63 Seal components for pneumatic cylinder CPR63	**SCR-CIL63V**
Cilindro pneumatico **Pneumatic cylinder**		Cilindro pneumatico alesaggio 50 mm completo Complete pneumatic cylinder bore 50 mm	**05841/C**
Cilindro pneumatico **Pneumatic cylinder**		Cilindro pneumatico alesaggio 63 mm completo Complete pneumatic cylinder bore 63 mm	**05842/C**
Leva comando manuale **Manual control lever**		Leva comando manuale chiusura CM... Lever manual control pneumatic clamp CM...	**07078/C**

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