

Cambia utensile

- Cambio rapido dell'attrezzatura sul robot.
- Adatto anche per canalizzazioni in depressione.
- Evita errori nelle connessioni pneumatiche ed elettriche.
- 4, 8, 10 o 12 connessioni pneumatiche.
- 15 connessioni elettriche.
- Le due parti (lato robot e lato pinza) sono fornite separatamente.
- Il lato robot QCX può anche tagliare l'aria compressa con una valvola di sicurezza.

Quick changer

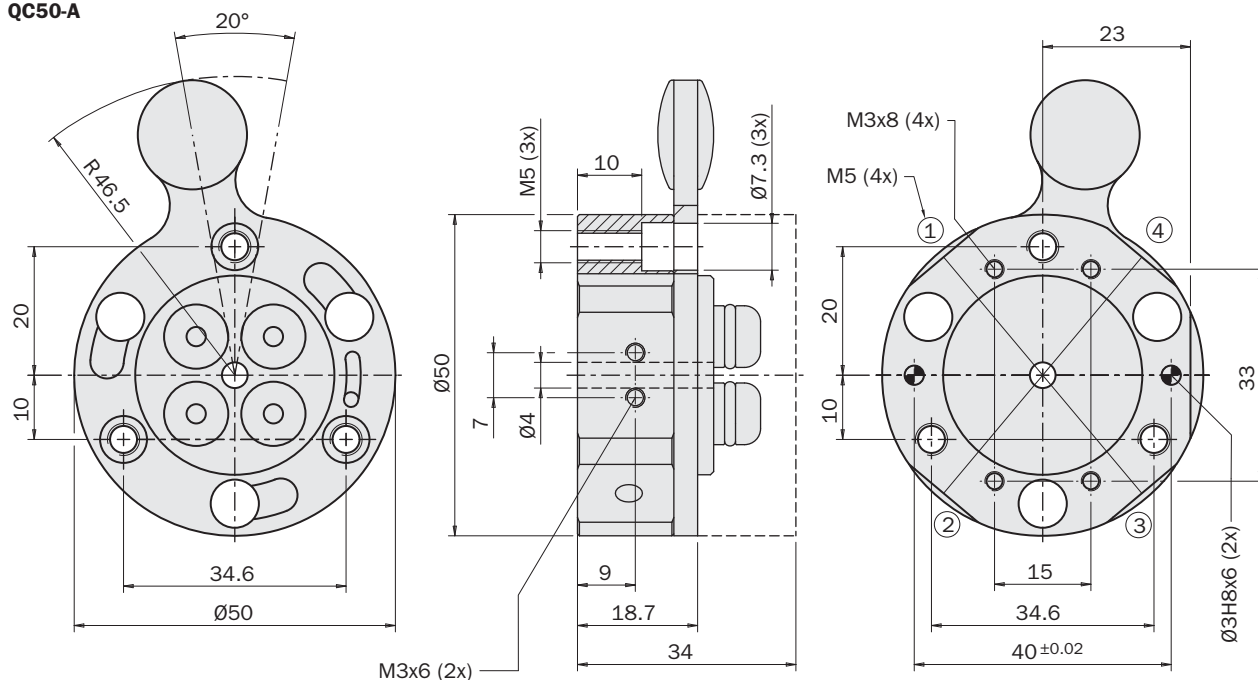
- Easy replacement of the EOAT on the robot.
- Suitable also with vacuum ports.
- Avoids mistakes in pneumatic and electrical connections.
- 4, 8, 10 or 12 pneumatic connections.
- 15 electrical connections.
- The two parts (robot side and gripper side) are supplied separately.
- The robot side QCX unit can also cut off the compressed air with a safety air valve.



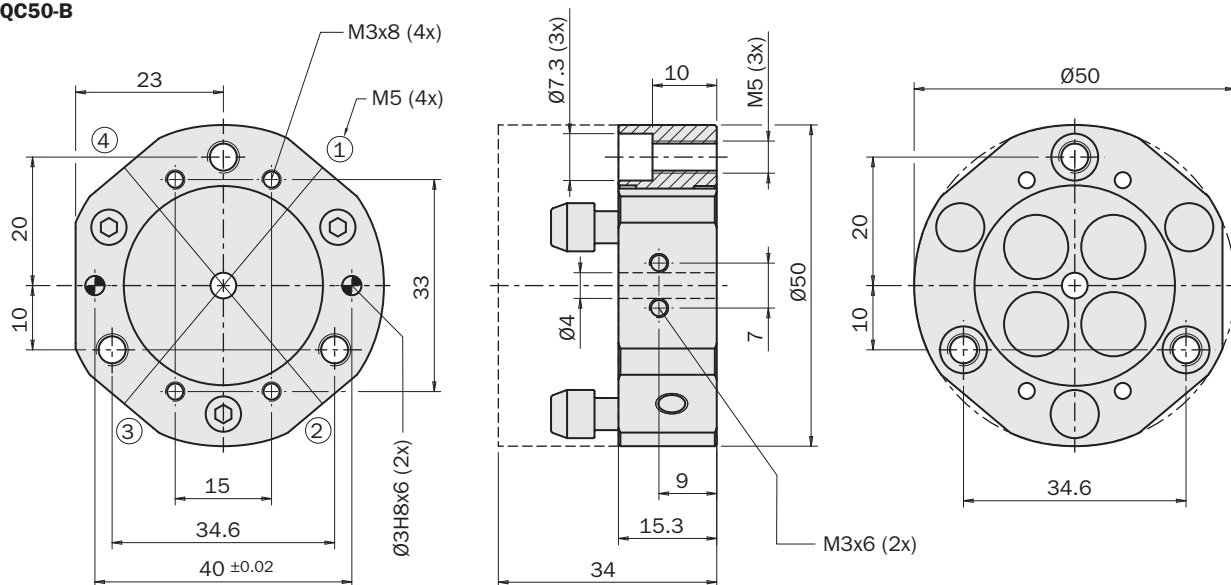
NEW

	QC50	QC90	QC150	QC160	QC200
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air				
Pressione di esercizio Pressure range	-1 ÷ 6 bar				
Temperatura di esercizio Temperature range	5 ÷ 60 °C				
Cambia utensile lato robot Robot side quick changer	103 g QC50-A	318 g QC90-A	1123 g QC150-A	1200 g QC160-A	2640 g QC200-A
Cambia utensile lato robot con valvola di sicurezza Robot side quick changer with safety valve	-	595 g QCX90-A	2200 g QCX150-A	2200 g QCX160-A	4900 g QCX200-A
Cambia utensile lato pinza Gripper side quick changer	65 g QC50-B	227 g QC90-B	827 g QC150-B	900 g QC160-B	1890 g QC200-B

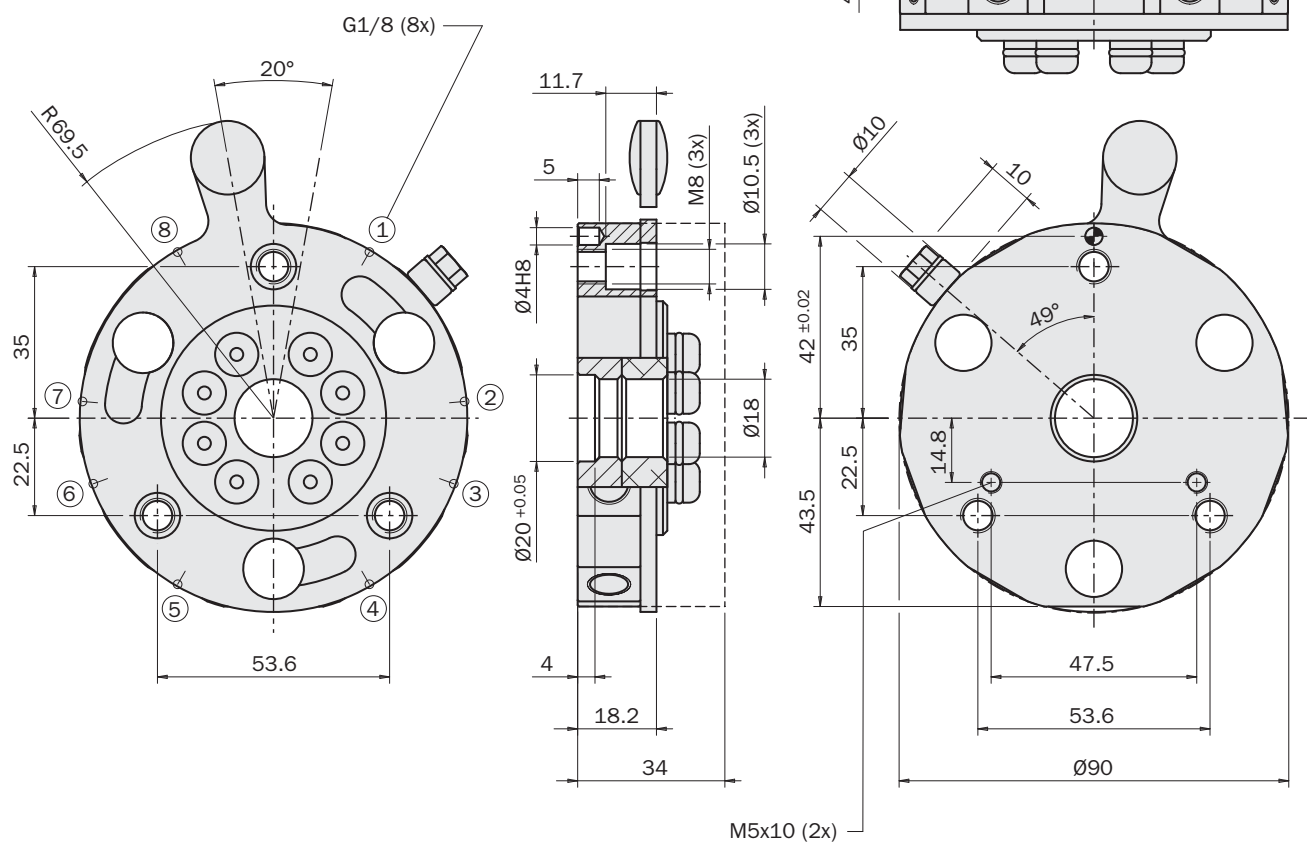
QC50-A



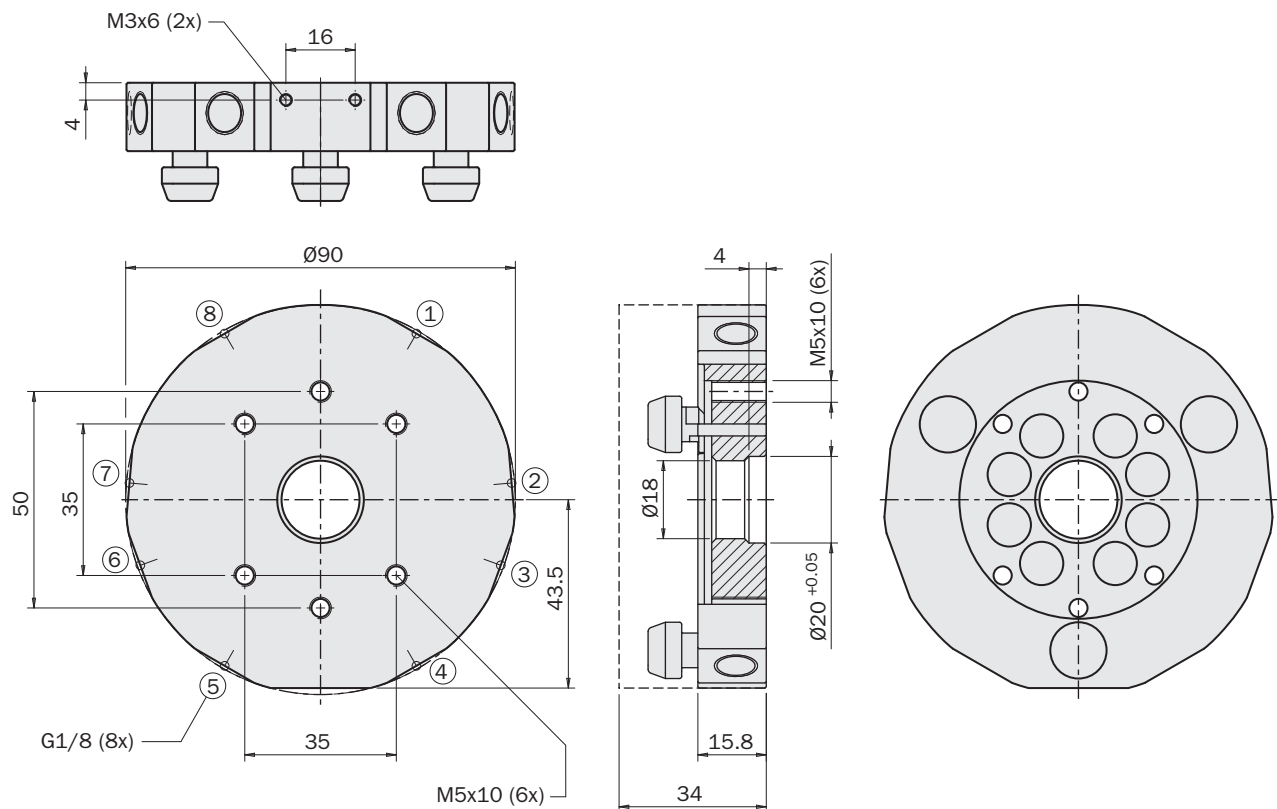
QC50-B



QC90-A

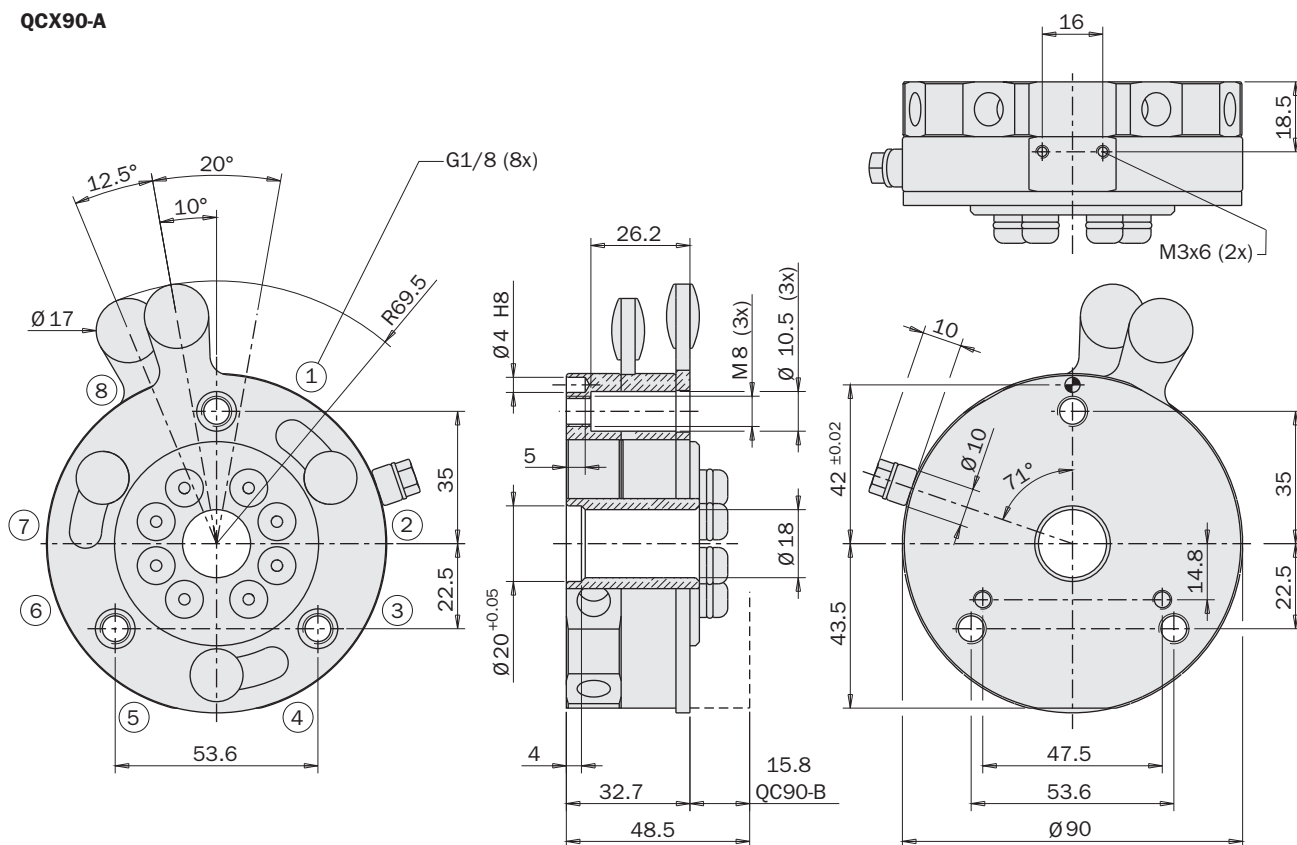


QC90-B



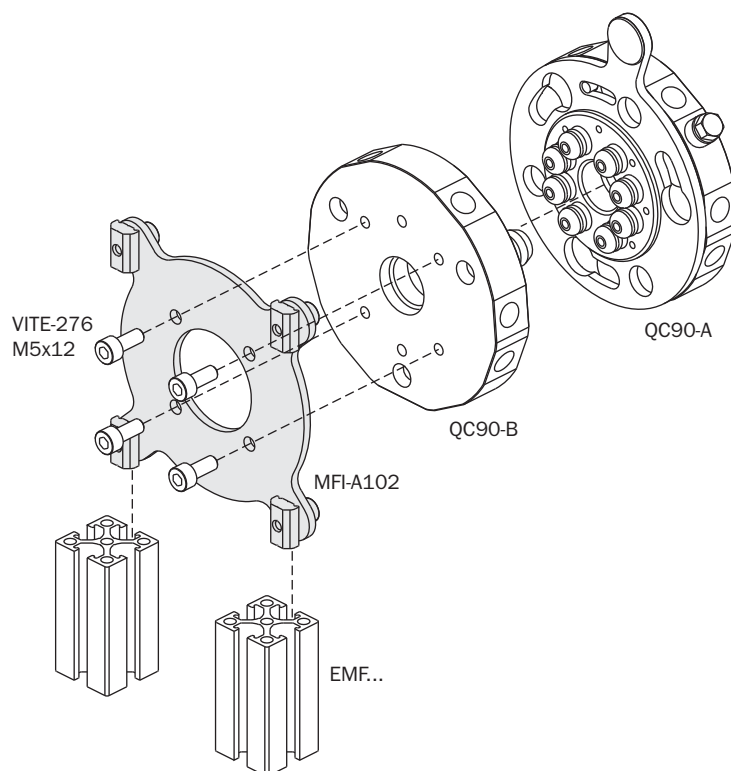
 **FIRST ANGLE
PROJECTION**

QCX90-A

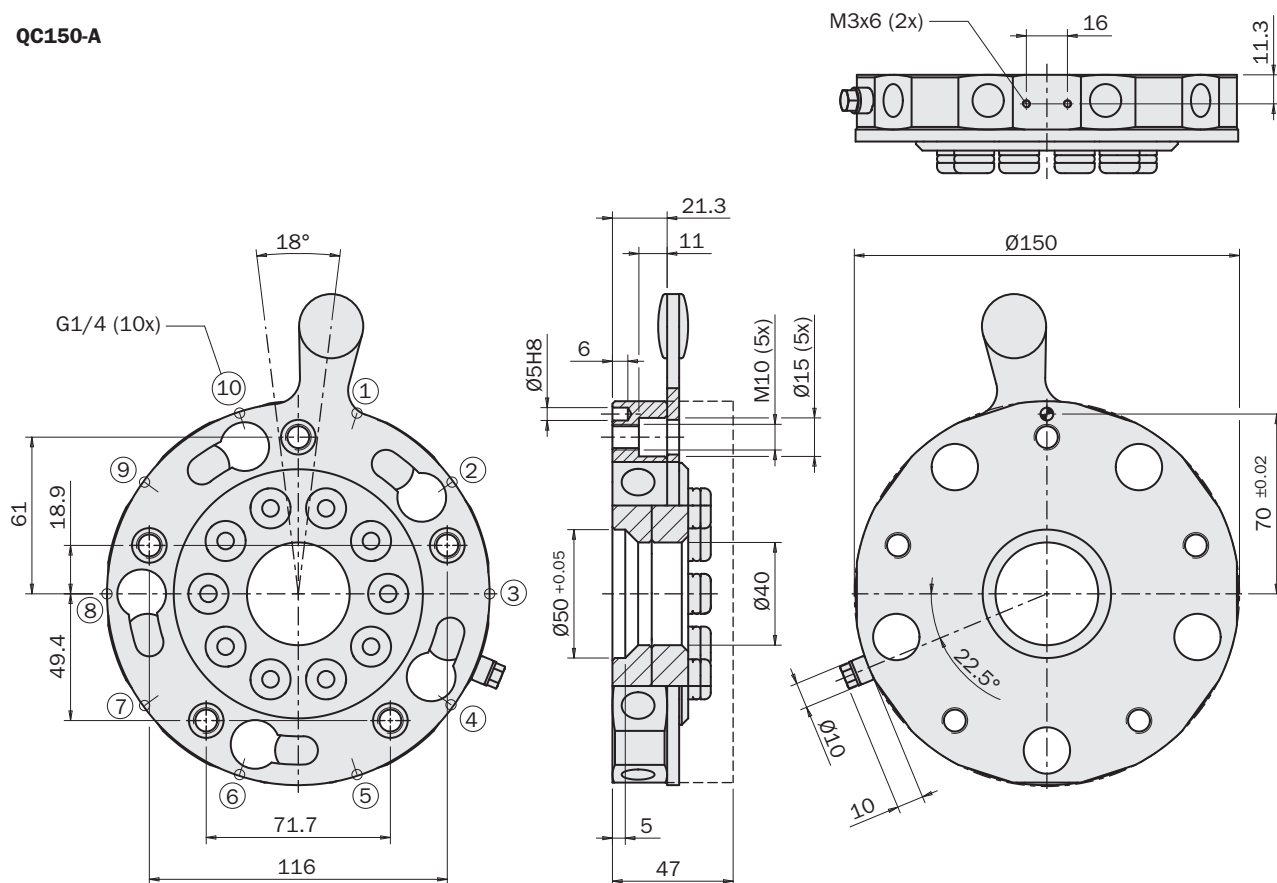


FIRST ANGLE
PROJECTION

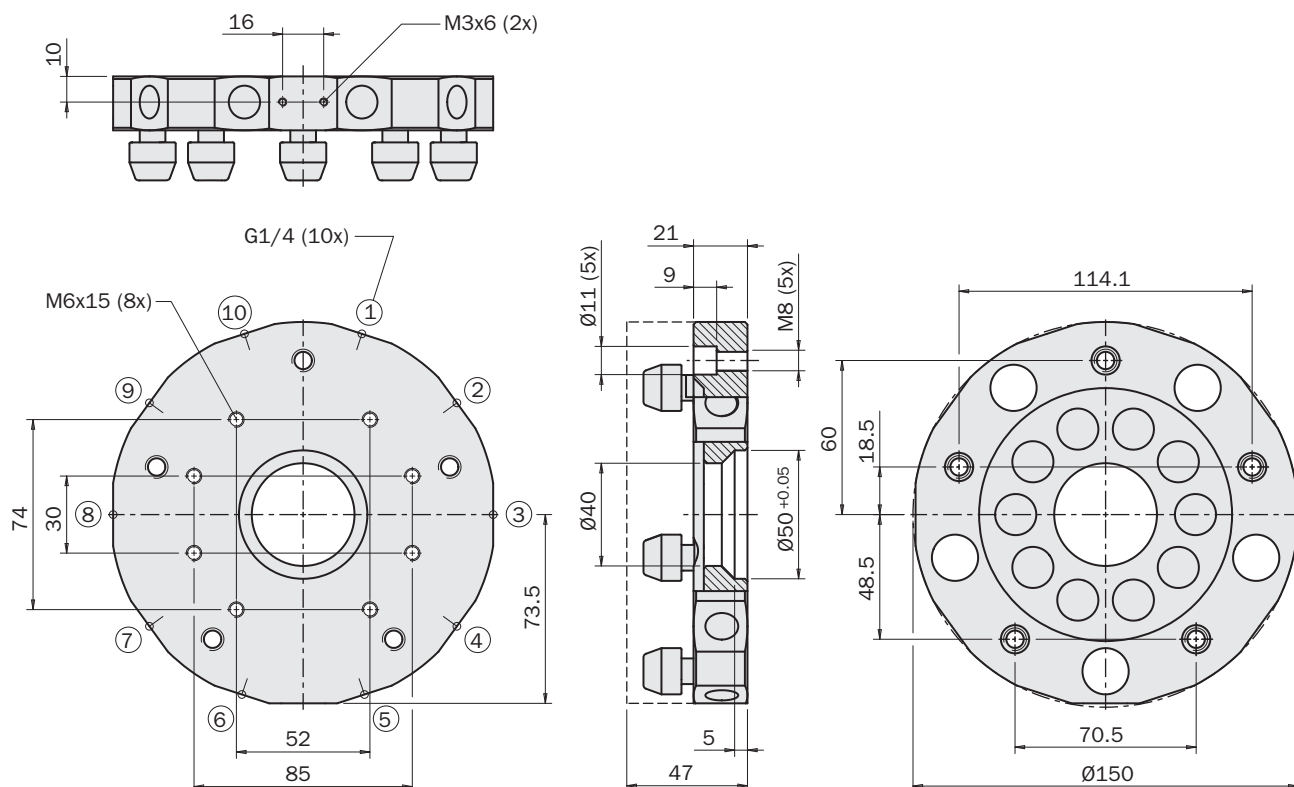
Esempio di utilizzo / Application example



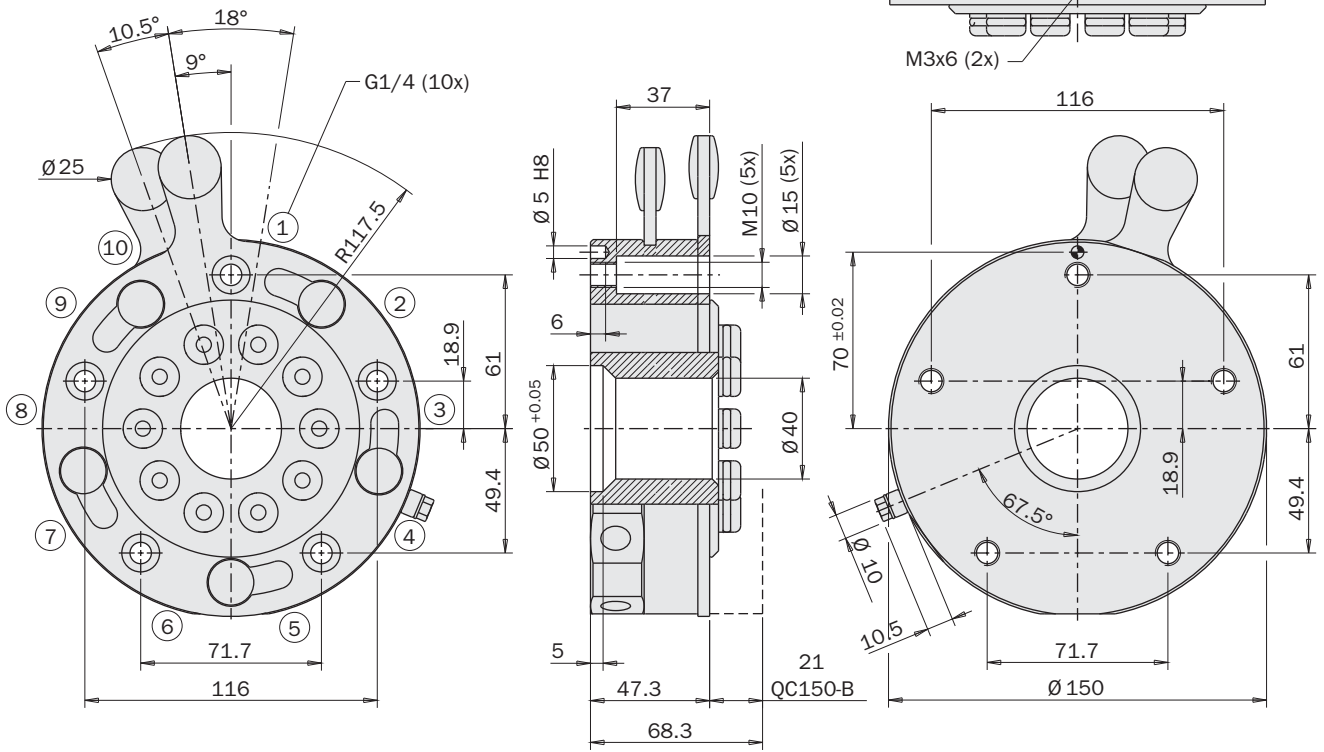
QC150-A



QC150-B

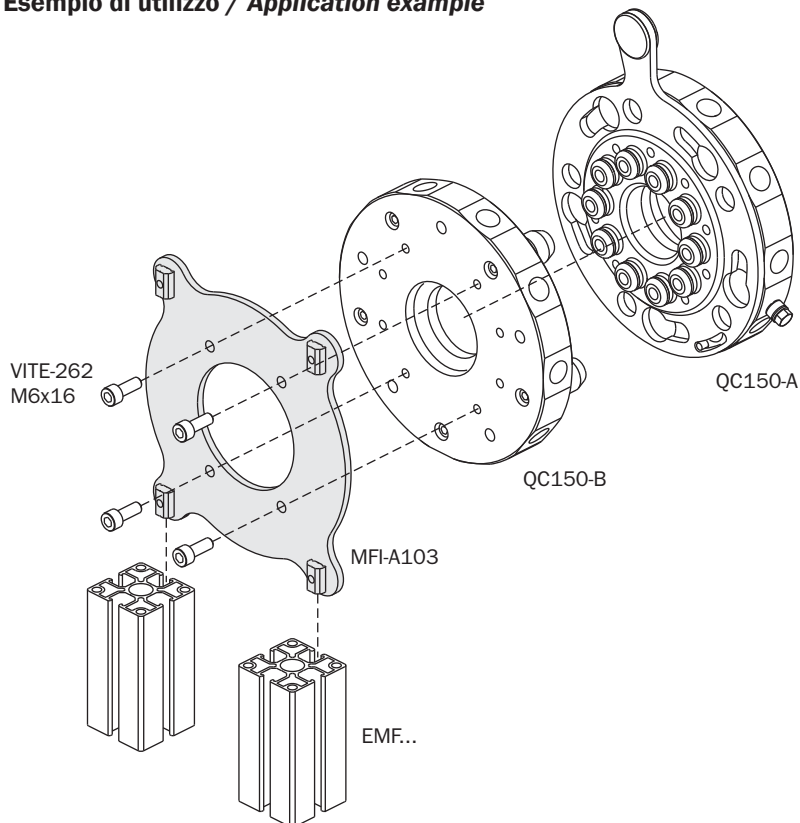


QCX150-A

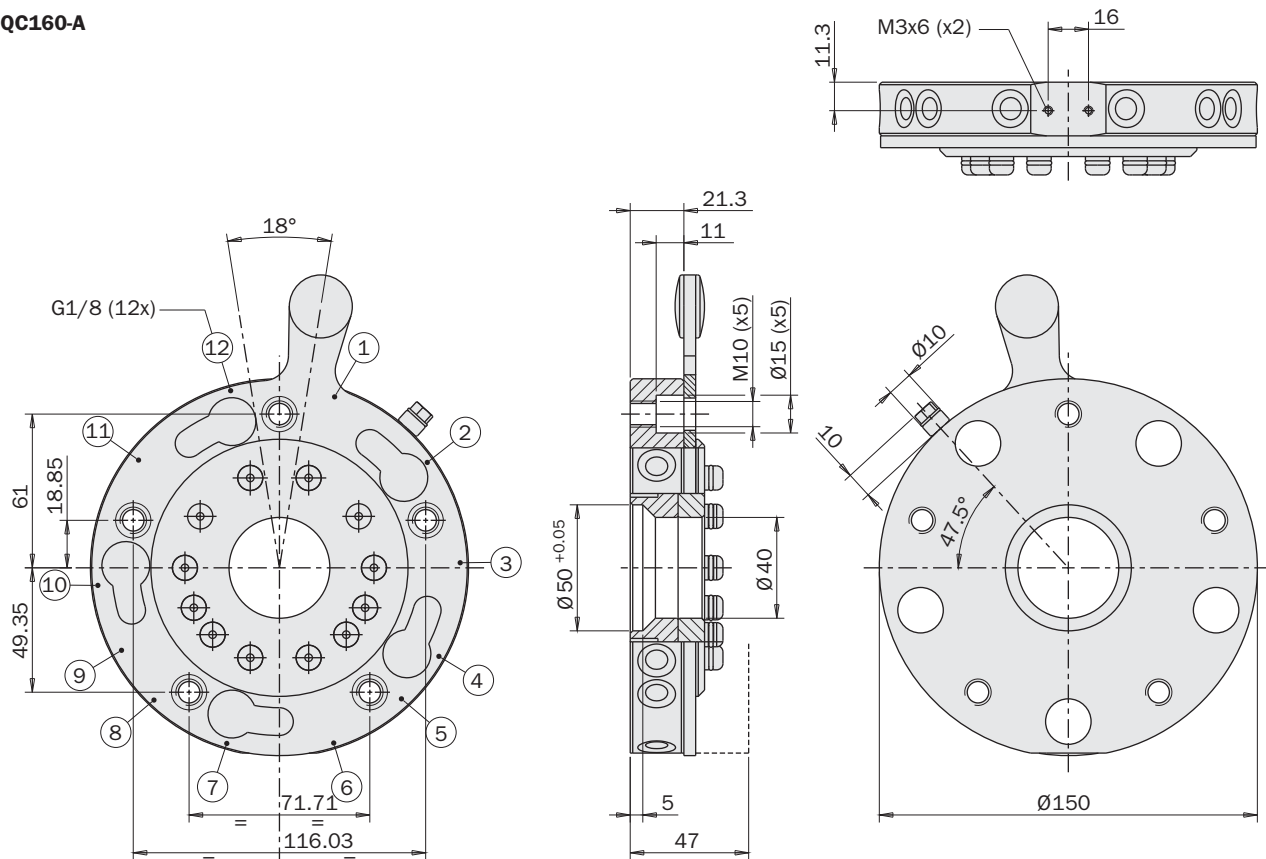


FIRST ANGLE
PROJECTION

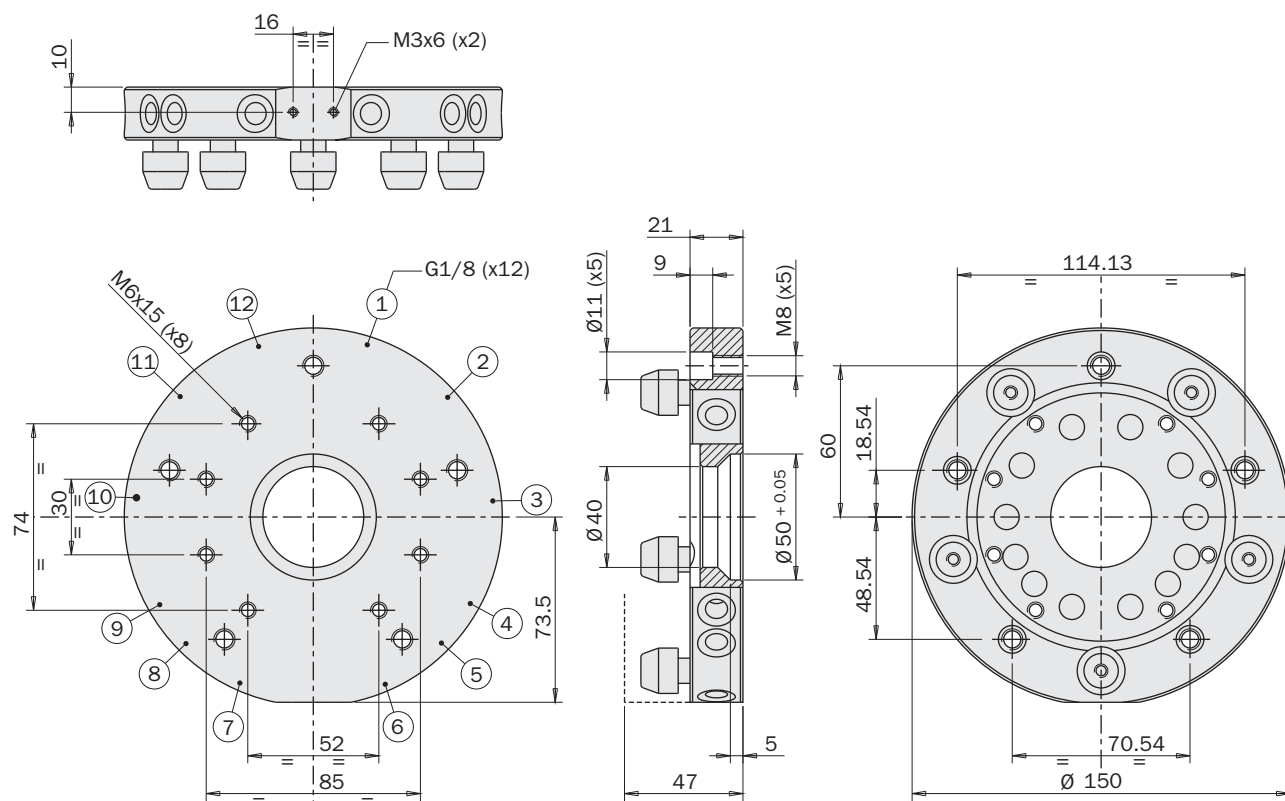
Esempio di utilizzo / Application example



QC160-A

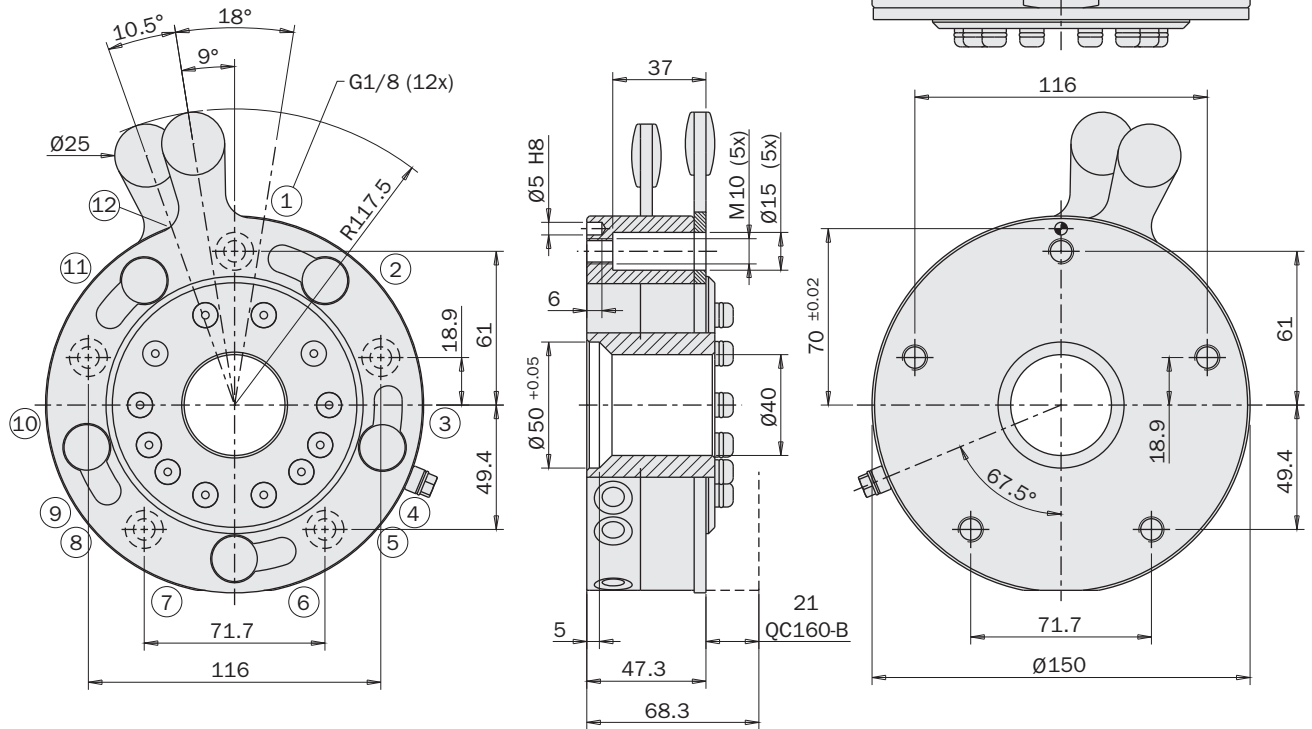


QC160-B



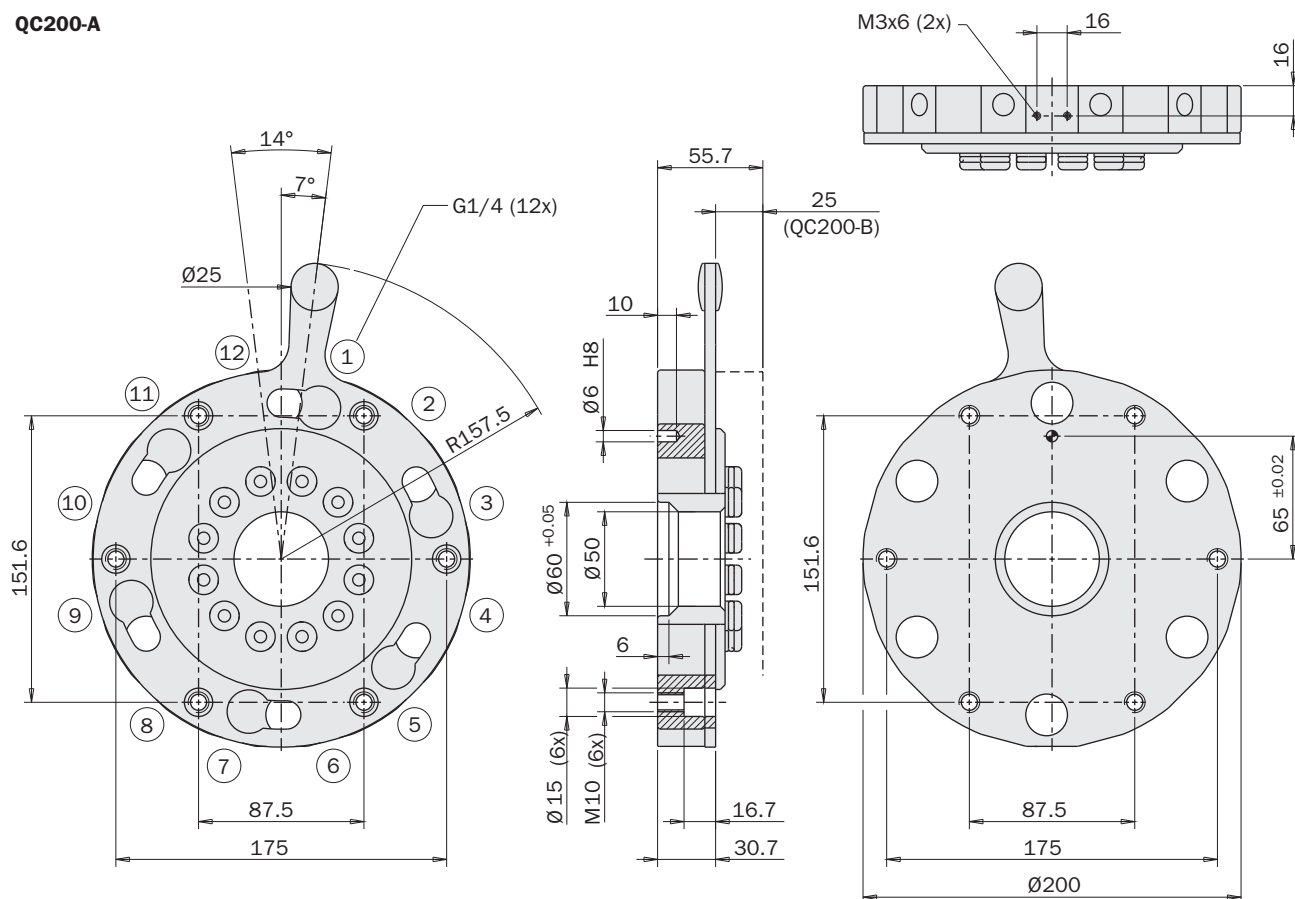
QCX160-A

NEW

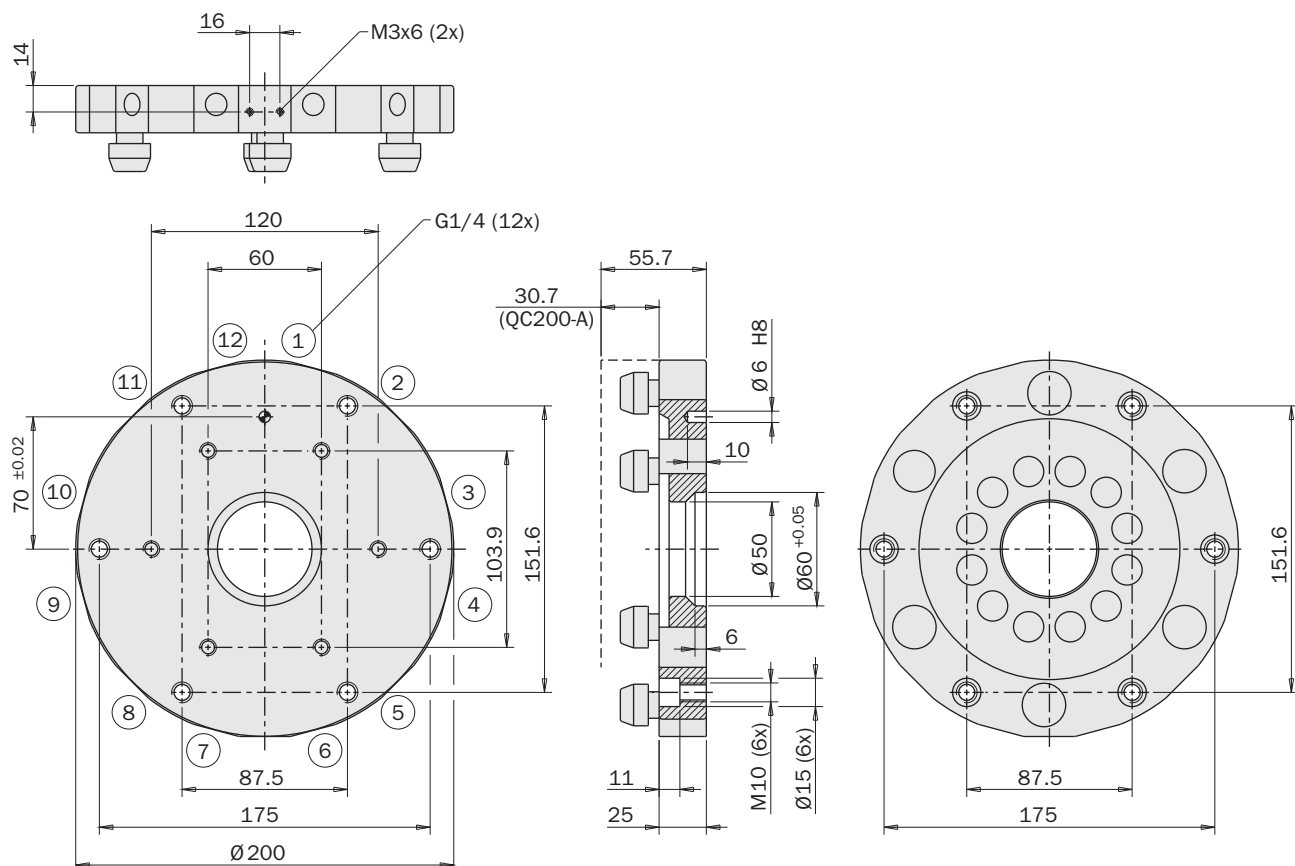


FIRST ANGLE PROJECTION

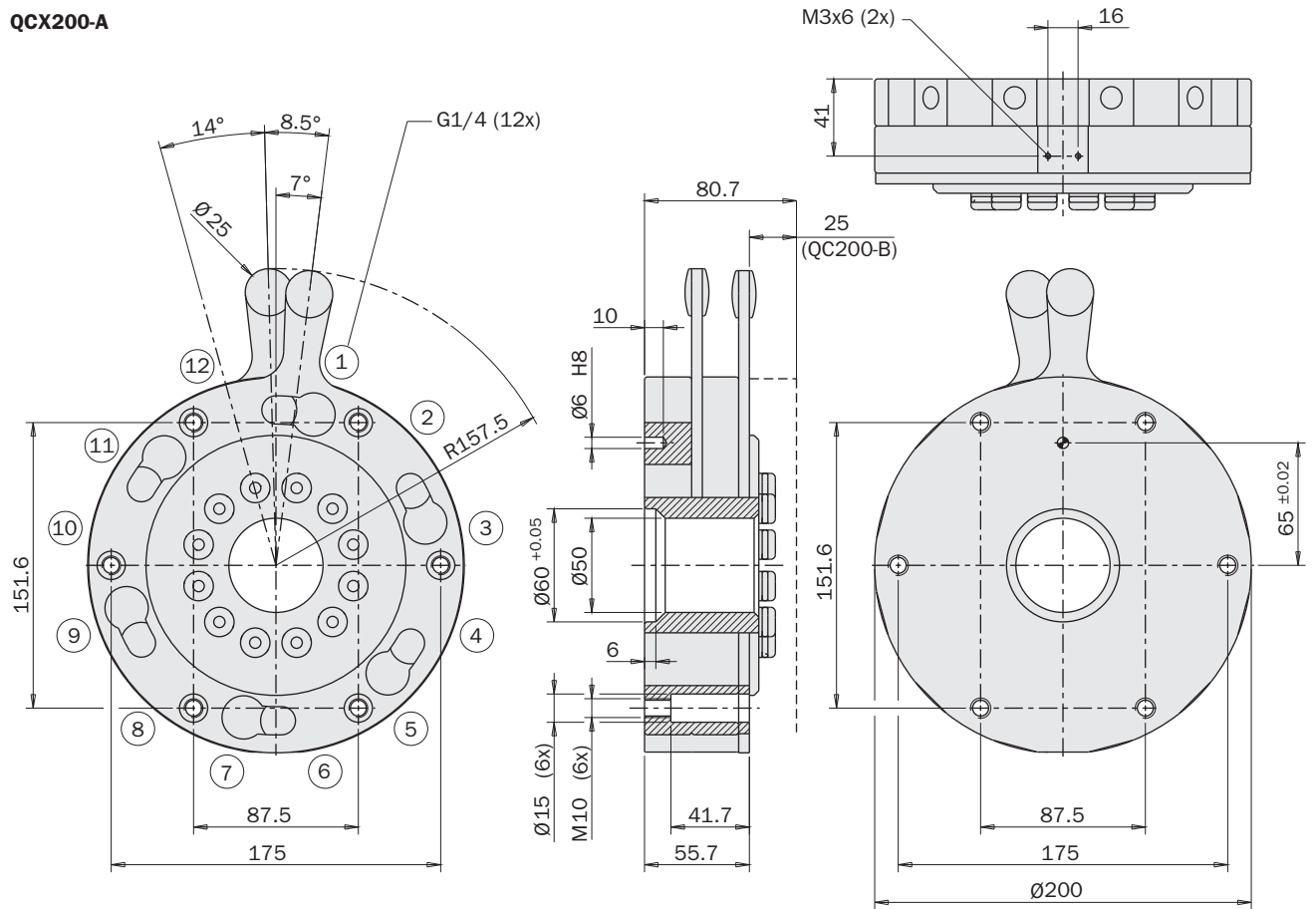
QC200-A



QC200-B



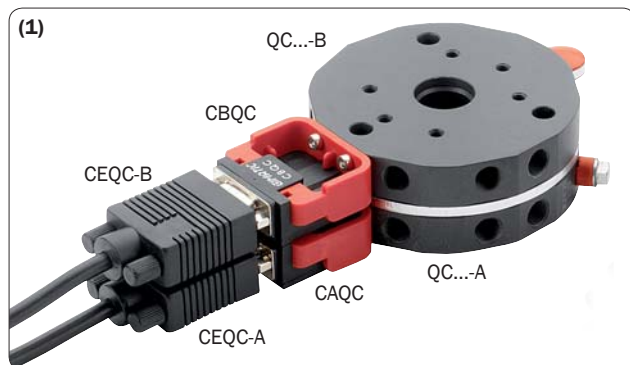
QCX200-A



FIRST ANGLE PROJECTION

Accessori

Per la connessione elettrica sono disponibili gli accessori opzionali CAQC e CBQC (1).
L'apertura e la chiusura manuale sono rapide e intuitive (2).



Dopo la chiusura si può agire sulla vite di bloccaggio conica (SET SCREW), per azzerare completamente il gioco fra le due parti (solo per QC90, QCX90, QC160, QCX160, QC150 e QCX150).



Accessories

The optional accessories CAQC and CBQC are available for the electrical connection (1).
Detachment and joining of the two parts are quick and easy (2).



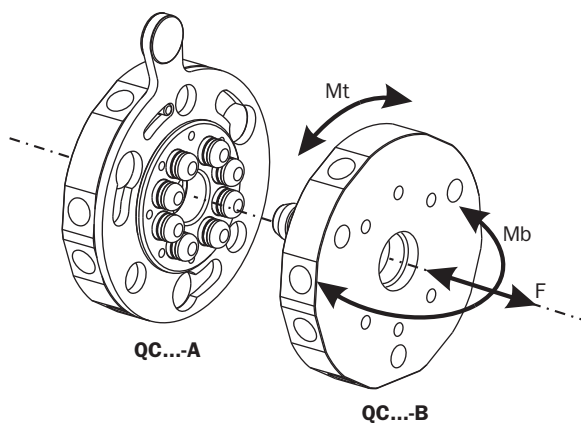
After joining it is possible to engage a conical set screw, to eliminate any play between the two sides, for "zero tolerance" applications (only for QC90, QCX90, QC160, QCX160, QC150 and QCX150).



Carichi di sicurezza

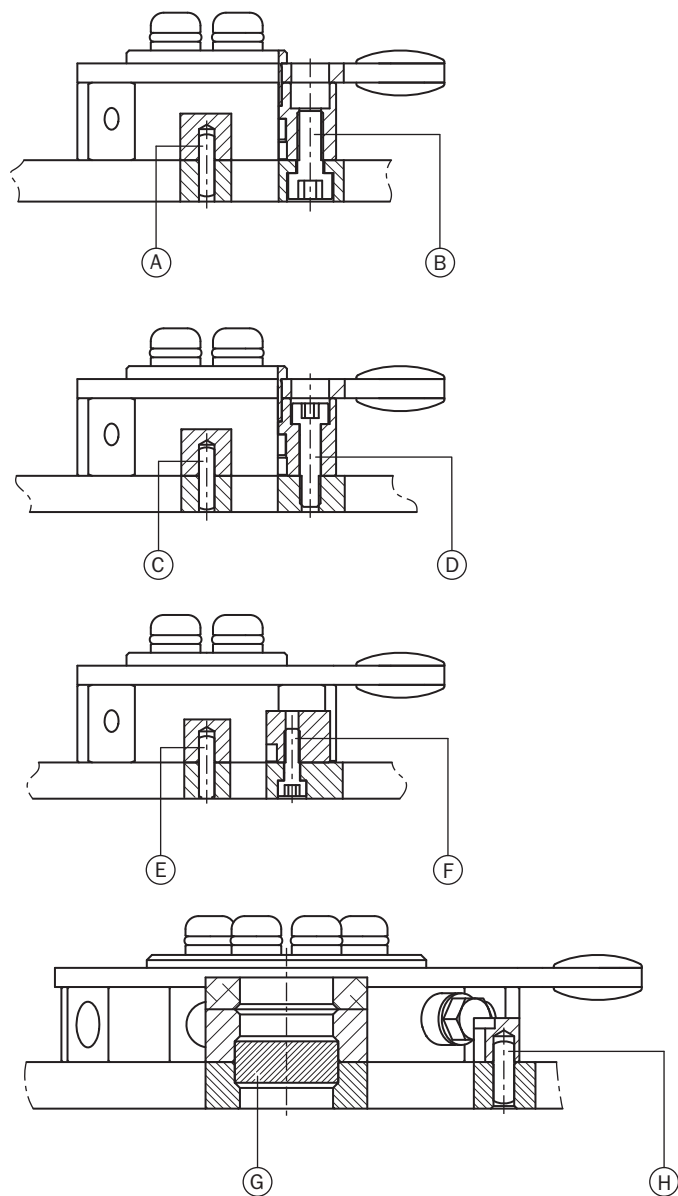
	QC50	QC90 QCX90	QC150 QCX150	QC160 QCX160	QC200 QCX200
F	150 N	400 N	1000 N	1000 N	2000 N
Mt	20 Nm	100 Nm	250 Nm	250 Nm	600 Nm
Mb	10 Nm	60 Nm	100 Nm	100 Nm	300 Nm

Safety loads



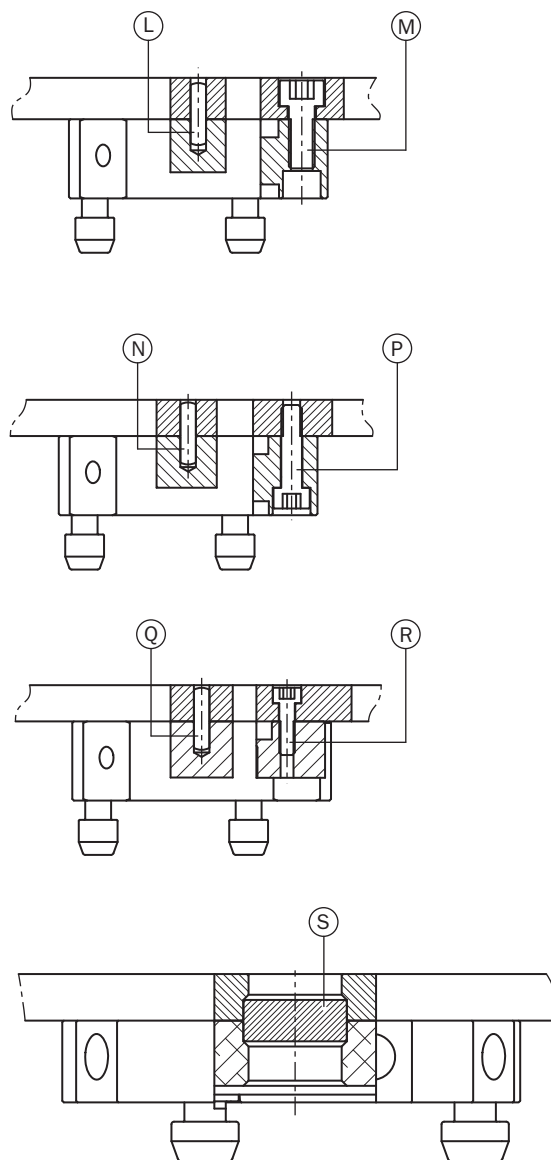
Fissaggio

Lato robot
Robot side



Fastening

Lato pinza
Gripper side



	QC50-A	QC90-A QCX90-A	QC150-A QCX150-A	QC160-A QCX160-A	QC200-A QCX200-A
A	Ø3 (2x)	-	-	-	-
B	M5 (3x)	M8 (3x)	M10 (5x)	M10 (5x)	M10 (6x)
C	Ø3 (2x)	-	-	-	-
D	M4 (3x)	M6 (3x)	M8 (5x)	M8 (5x)	M8 (6x)
E	Ø3 (2x)	-	-	-	-
F	M3 (4x)	M5 (2x)	-	-	-
G	-	Ø20	Ø50	Ø50	Ø60
H	-	Ø4 (1x)	Ø5 (1x)	-	Ø6 (1x)

	QC50-B	QC90-B	QC150-B	QC160-B	QC200-B
L	Ø3 (2x)	-	-	-	Ø6 (1x)
M	M5 (3x)	-	M10 (5x)	M10 (5x)	M10 (6x)
N	Ø3 (2x)	-	-	-	-
P	M4 (3x)	-	M8 (5x)	M8 (5x)	M8 (6x)
Q	Ø3 (2x)	-	-	-	-
R	M3 (4x)	M5 (6x)	M6 (8x)	M6 (8x)	-
S	-	Ø20	Ø50	Ø50	Ø60

QCX

QCX è equipaggiato con una valvola dell'aria integrata, che chiude automaticamente il flusso di aria compressa (o il vuoto) prima che il sistema sia completamente sganciato (4).

Non è possibile aprire il flusso d'aria, se la flangia non è agganciata (1).

La maniglia rossa sconnette la flangia, ma inoltre muove la maniglia blu tramite la spina nera, che chiude l'aria (2).

Quando il sistema è agganciato il flusso d'aria può essere controllato (on/off) con la maniglia blu (3).

Questa valvola a rubinetto rotante risolve tutti i problemi delle valvole di non ritorno a sfera: l'elevata forza di spinta necessaria per l'aggancio ed i movimenti incontrollati degli attuatori durante lo sganciamento.

QCX è perfettamente compatibile con QC...B ed ha gli stessi fissaggi di QC...A, ma con uno spessore maggiore.

QCX

QCX is equipped with an integrated air valve, which automatically closes the compressed air (or vacuum) flow before the system is completely disengaged (4).

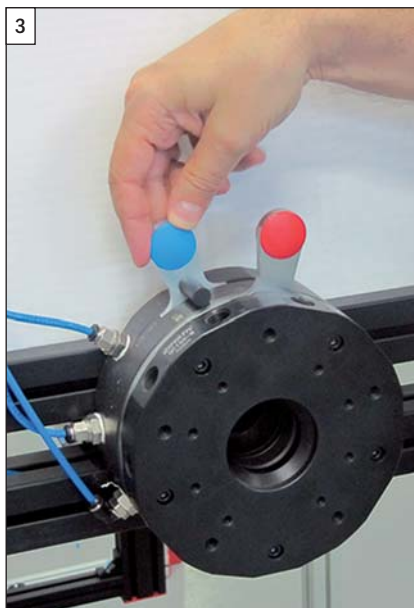
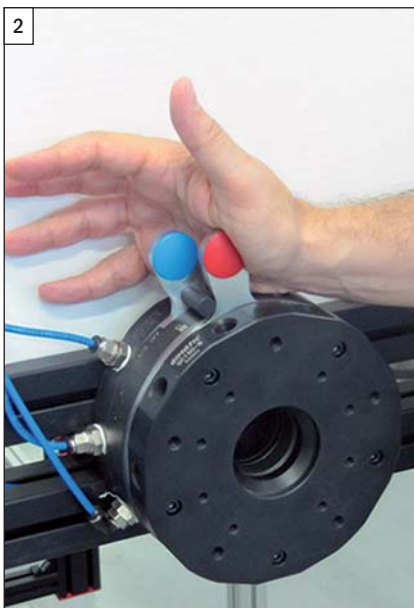
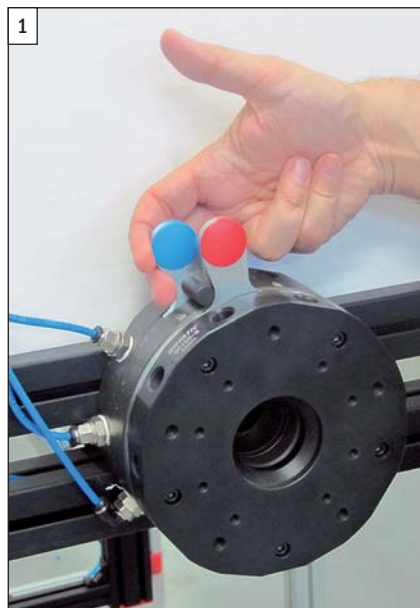
It is not possible to open the air flow, if the flange is not engaged (1).

The red handle disengages the flange, but also move the blue handle by the black pin which closes the air (2).

When engaged the air flow can be controlled (on/off) by the blue handle (3).

This rotating tap valve solves all the problems of ball valve systems: the high pushing force necessary for engaging and the uncontrolled movements of the actuators when disengaging.

QCX perfectly fit with QC...B and it has the same mounting pattern of a QC...A, but with a larger thickness.



Attuatore pneumatico per cambia utensile QC

- Sensori opzionali per la posizione del pistone (1) e per la prossimità del lato pinza QC...-B (2).
- Perfettamente compatibile con QC90-A e QC150-A esistenti (3), non con QCX90-A e QCX150-A.

Pneumatic actuator for quick changer QC

- Optional sensors to detect piston position (1) and proximity of the QC...-B gripper side (2).
- Perfectly compatible with the existing QC90-A and QC150-A units (3). Not compatible with the QCX90-A and QCX150-A units.

	AQC90	AQC150
Peso / Weight	560 g	1480 g



AQC90

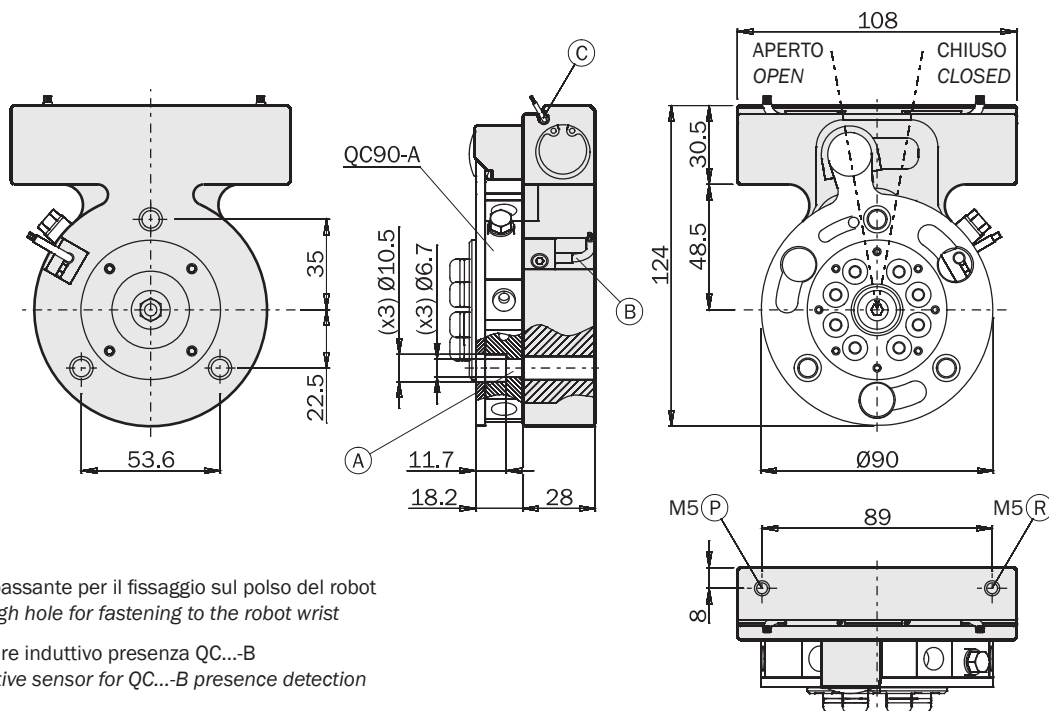


AQC150



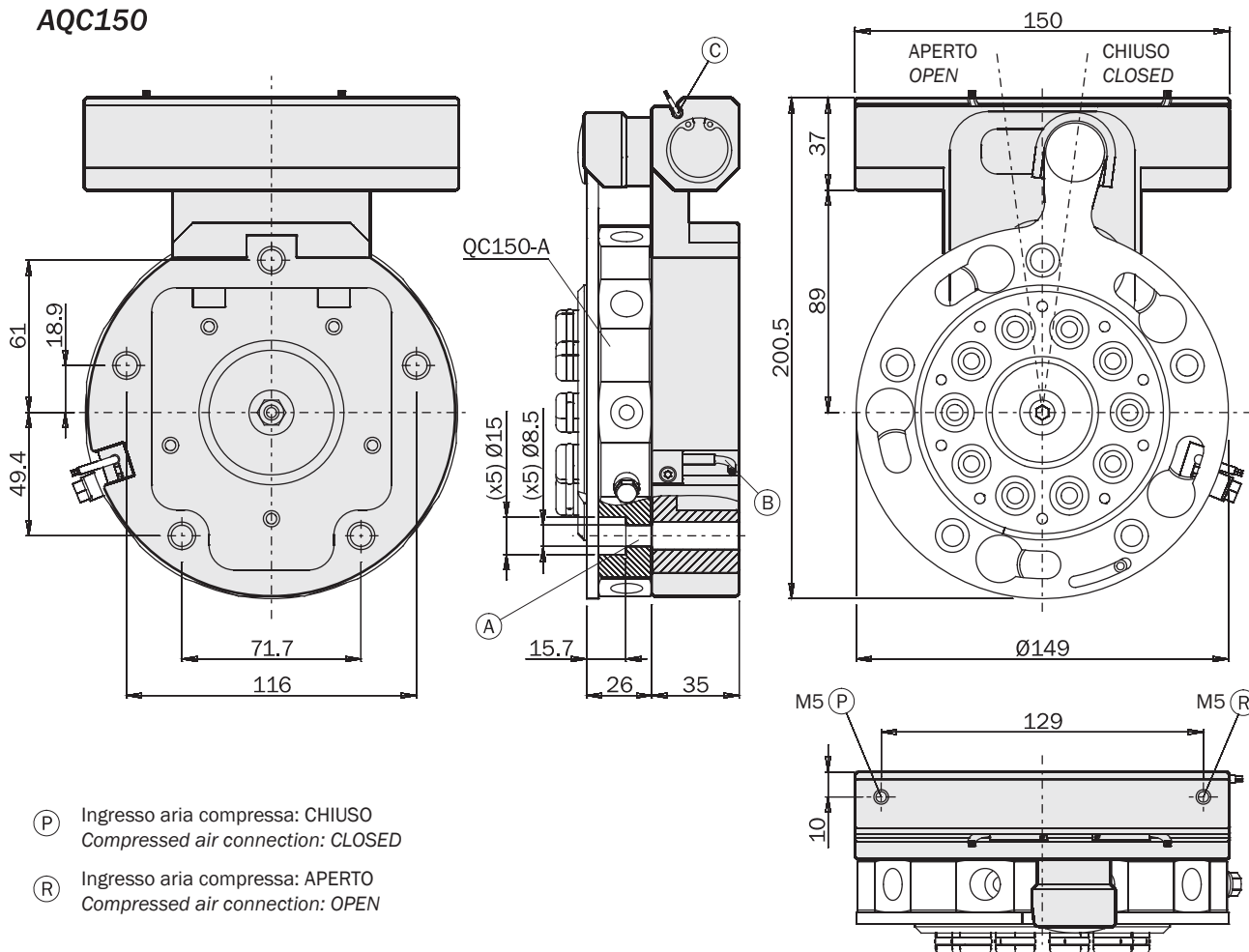
Dimensioni (mm) / Dimensions (mm)

AQC90



- (A) Foro passante per il fissaggio sul polso del robot
Through hole for fastening to the robot wrist
- (B) Sensore induttivo presenza QC...-B
Inductive sensor for QC...-B presence detection
- (C) Sede per sensori serie SS
Slot for SS series sensors

AQC150



- (P) Ingresso aria compressa: CHIUSO
Compressed air connection: CLOSED
- (R) Ingresso aria compressa: APERTO
Compressed air connection: OPEN

