

QC-41

"A well-built durable product that is easily integrated."
Tom Washburn, RPT



QC-41 Master & Tool plate w/ R19 electrical module.

BENEFITS AND FEATURES

Large 3/8 NPT Ports

No-Touch Locking™ technology allows up to 5.0 mm plate separation when locking.

Patented Fail-safe Locking Mechanism

- ♦ Locking mechanism design results in low force acting on the piston.
- ♦ Large piston diameter and outward ball travel increase moment capacity.
- ♦ All locking parts made of R_C 58 stainless steel.

Long-life Bushings for Pneumatic Pass-through

Specifications	Data	Comments
Suggested Payload Limit	110 lb (50 kg)	Higher payloads possible with low moment
Locking Force @ 80 psi (5.5 bar)	1020 lb (4540 N)	Fail-safe takes over when load exceeds locking force
Static Moment Capacity (X & Y)	1390 lb-in (157 Nm)	Dynamic moment capacity 3x higher than static moment capacity. Tests show failure point at 12x X & Y static moment specifications.
Static Moment Capacity (Z)	1910 lb-in (216 Nm)	
Positional Repeatability (X, Y, & Z)	0.0006 in (0.015 mm)	Repeatability tested at rated load for one million cycles.
Weight (when coupled)	4.8 lb (2.2 kg)	3.0 lb Master plate; 1.8 lb Tool plate
Maximum allowable distance between Master & Tool plate before locking.	0.20 in (5.0 mm)	No-Touch Locking™ technology allows Master & Tool plates to lock with the plate separation.
Pneumatic Pass-through Ports (qty) size	(6) 3/8 NPT, (4) 1/8 NPT	Max pressure of 100 psi (7 bar)

Option	# pins	Elec. rating	Description*	Comments
H10	10	13A/600V	MS cylindrical, threaded connector	Contact pins isolated from each other
S19/S26	19/26	3A/250VAC	MS miniature quick-disconnect connector	Fluid-resistant, untouchable master pins
R19/R26	19/26	3A/250VAC	MS miniature quick-disconnect connector	Fluid-resistant, untouchable master pins
J16	16	3A/250VAC	MS miniature quick-disconnect connector	Serrated rhodium-plated contact pins
T19	19	3A/250VAC	MS cylindrical, threaded connector	Fluid-resistant, untouchable master pins
F02	n/a	n/a	(2) 3/8 NPT self-sealing ports	For fluid or pneumatic pass-through
P18	n/a	n/a	Additional (4) 1/8 NPT pneumatic ports	Provides a total of 14 pneumatic ports
P14	n/a	n/a	Additional (2) 1/4 NPT pneumatic ports	Provides a total of 12 pneumatic ports
SIP	n/a	n/a	Lock/unlock sensing	See page 26

HOW TO ORDER THE QC-41:

9120-041 - -000

M: Master
T: Tool

OPTION
(000 = no option)

Example:

9120-041M-000-000: QC-41 Master plate, no options

9120-041T-R19-000: QC-41 Tool plate w/ R19 electrical module