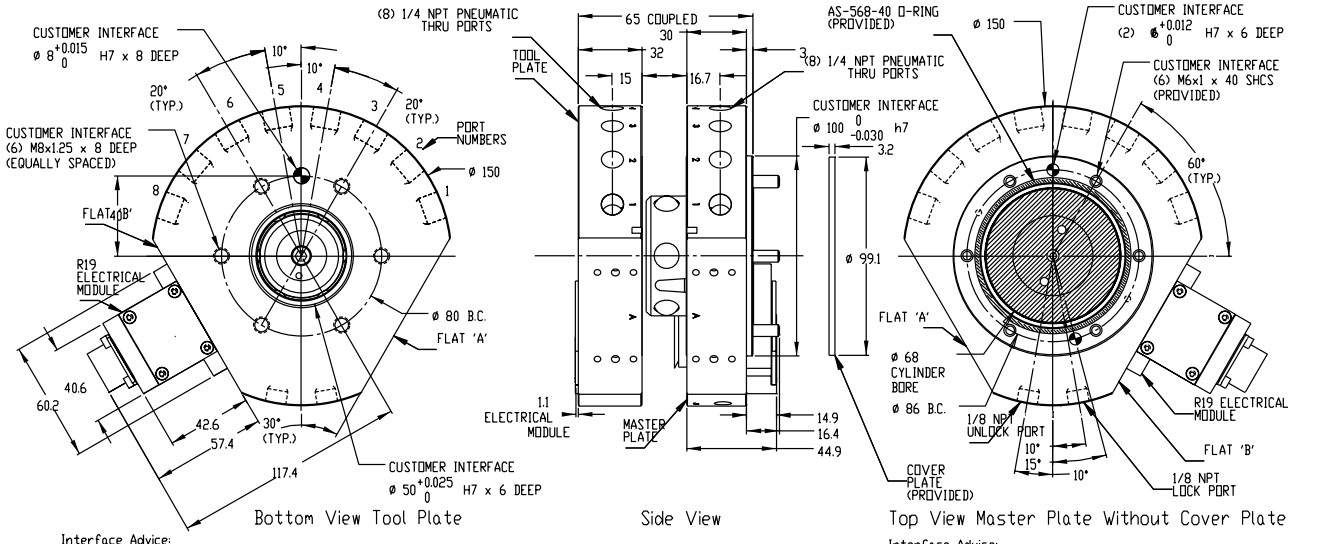
MODEL TC-71

Payload Capacity–*kg/lbs*. 79/175
Static Moment X, Y & Z Resistance†–*Nm/lb-in* 395/3500
Positional Repeatability X, Y & Z–*mm/in* 0.015/0.0006
Weight when Coupled–*kg/lb* 3.1/6.7
Locking Force @ 80 psi (5.5 bar)–*N/lb* 8075/1815
Diameter when Coupled–*mm/in* 150/5.9
Height when Coupled–*mm/in* 65/2.6
Pneumatic Port Type–Pass Through (8) . . . . . 1/4 NPT
Pneumatic Port–"Lock" & "Unlock" . . . . . 1/8 NPT
Max. Allowable Distance Between
Plates before Locking-*mm/in* 5.0/0.20

†Can handle a dynamic moment 3 times higher than the static moment capacity. Moment tests show failure point at 12 times static moment specifications.

Options

Option	# Pins	Electrical Rating	Description	Comments
MT8	8	20A/500V	MS cylindrical, threaded connector	Sealed, no-touch master pins
S19/S26	19/26	5A/250V	MS miniature quick-disconnect connector	Fluid resistant, untouchable master pins
R19/R26	19/26	5A/250V	MS miniature quick-disconnect connector	Fluid resistant, untouchable master pins
J16	16	5A/250V	MS miniature quick-disconnect connector	Serrated rhodium-plated contact pins
T19	19	5A/250V	MS cylindrical, threaded connector	Fluid resistant, untouchable master pins
F02/F04	—	—	(2) or (4) 3/8 G/NPT self-sealing ports	For fluid or pneumatic pass-through
P14	—	—	Additional (2) 1/4 NPT pneumatic ports	Provides a total of 10 pneumatic ports
P18	—	—	Additional (4) 1/8 NPT pneumatic ports	Provides a total of 12 pneumatic ports
P38	—	—	Additional (4) 3/8 NPT pneumatic ports	Provides a total of 12 pneumatic ports
V34	—	—	3/4 G vacuum port	Vacuum only
SIP	—	—	Lock/unlock sensing	See page 19



Interface Advice:
The tool interface plate should be designed to use M8x1.25 screws, Ø8 dowel pin and <MOD-DIAM>50 recess.

Warning:
Do not apply lock air pressure without master interface plate properly attached; otherwise, damage may occur to cover plate and o-ring.

Notes:
1. Optional electrical module shown; consult catalog for other options.
2. Mounting hardware is provided; cover plate, o-ring and master plate screws.
3. Cover plate is not necessary if robot interface plate provides sealing. The recommended interface plate bore depth without a cover plate is 2.5mm, with a cover plate is 5.6mm.
4. Orientation marks are provided to assist in robot teaching.
5. Misalignments allowed when coupling; consult specifications.
6. DXF, DWG and IGES images available upon request.

Interface Advice:
The robot interface plate should be designed to use M6x1 screws, Ø6 dowel pin and <MOD-DIAM>100 boss. Reference Note 3.