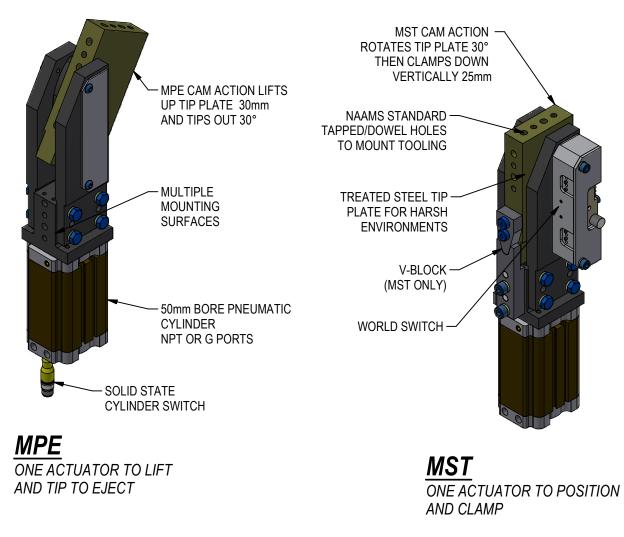


MPE PART EJECTOR MST PART POSITIONER



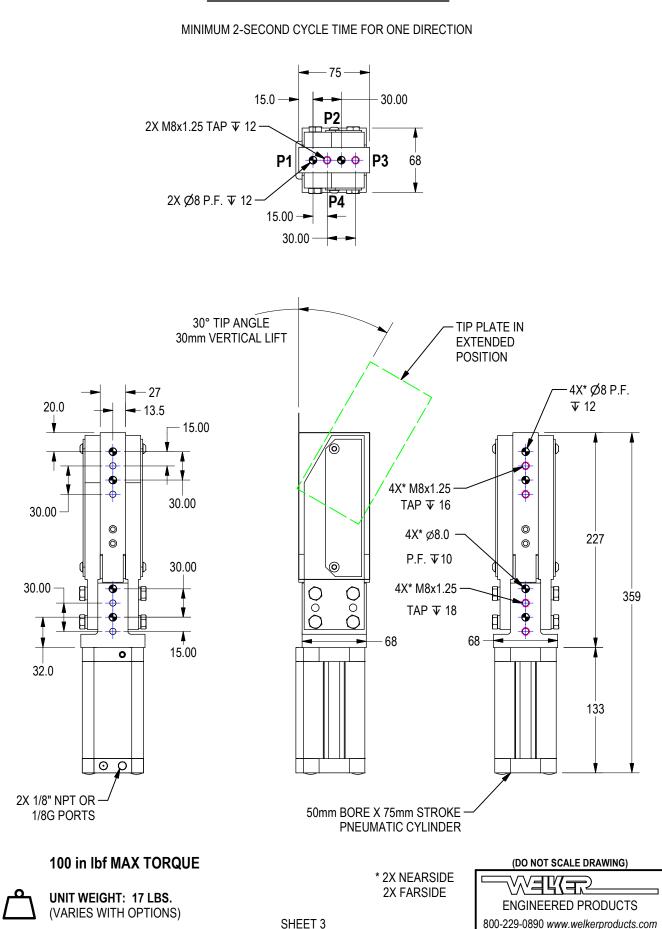
V-BLOCK ASSURES REPEATABILITY

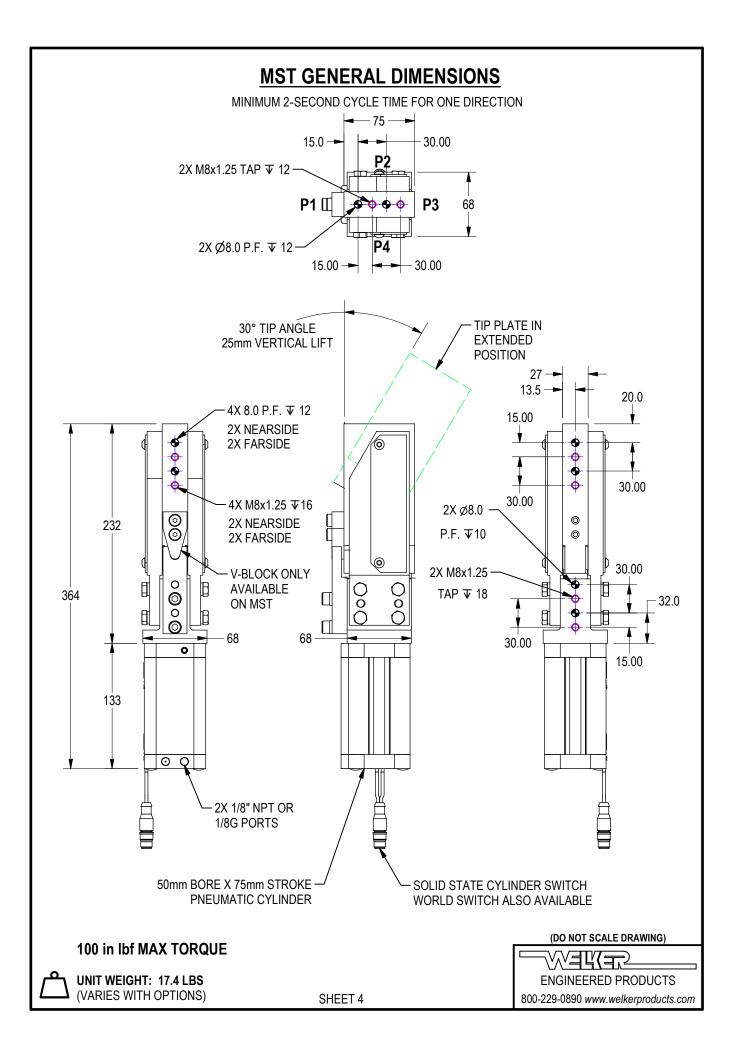
U.S. Patent 6918280 B2

RELEASED 10/31/22

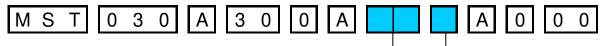
ORDERING INFORMATION
NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER
MINIMUM 2-SECOND CYCLE TIME FOR ONE DIRECTION
M P E 0 3 0 A 0 A 0 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0
<u>Series</u>
Actuator
31 50mm Bore with G Ports
Switch Options - See Sheet 5
World Switch Position 1 No World Switch (when selecting Solid State Cylinder Switch)
 2 Switch @ Position 2 4 Switch @ Position 4
Port Position
A Port @ Position 1 B Port @ Position 2
C Port @ Position 3 D Port @ Position 4
Actuator
30 50mm Bore with NPT Ports 31 50mm Bore with G Ports
V-Block Mount (on MST ONLY)
A Shown below
B V-Block mounted on opposite side of MST Switch Options - See Sheet 5
World Switch Position —
 No World Switch (when selecting Solid State Cylinder Switch) Switch @ Position 2 Switch @ Position 4
Port Position
A Port @ Position 1
 B Port @ Position 2 C Port @ Position 3
D Port @ Position 4
V-BLOCK (MST ONLY)
MPE 16.5 LBS
PORTS IN - PORTS IN - AND VARY WITH OPTIONS
POSITION "A" WORLD SWITCH OR
SOLID STATE (DO NOT SCALE DRAWING)
SHEET 2 800-229-0890 www.welkerproducts.com

MPE GENERAL DIMENSIONS





SWITCH OPTIONS



Switch Options

- L3 Solid State Cylinder Switch see chart below
- **ZE** World Switch see chart below

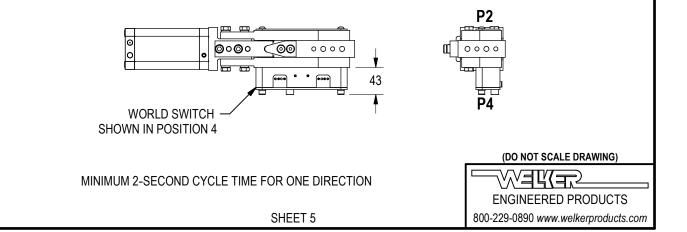
World Switch Position

- 1 No World Switch (when selecting Cylinder Switch)
- 2 Switch @ Position 2
- 4 Switch @ Position 4

	Order Number SO1 (E)XTEND or SO1 (R)ETRACT	Part Number	Manufacturer	Description All switches are Quick Disconnect	
	99	Sw itch Ready		Customer Supplied Switch. Prepared for switches below :	
	ZE or ZR	WWS001A	Welker	4-Wire, 4-Pin, DC M12 X 1 (PNP)	
hes	Non-stocked switches (effective 1-2-2023):				
Switches	AE or AR	Ni2-Q6.5-AP6-0.1-FS 4.4X3/S304	Turck	4-Wire, 4-Pin, DC M12 X 1 (PNP)	
l Sv	BE or BR	Ni2-Q6.5-ADZ32-0.1-FSB 5.4X4/S304	Turck	4-Wire, 5-Pin, AC/DC 1/2-20 (N.O.)	
World	CE or CR	NI2-Q6.5-AN6-0.1-FS 4.4X3/S304	Turck	4-Wire, 4-Pin, DC M12 X 1 (NPN)	
	DE or DR	NBN2-F581-100S6-E8-V1	Pepperl & Fuchs	4-Wire, 4-Pin, DC M12 X 1 (PNP)	
	EE or ER	BES-Z02KR2-PSC20F-P100-S04-V	Balluff	3-Wire, 4-Pin, DC M12 X 1 (PNP)	
	JE or JR	IN5374	Efector	3-Wire, 4-Pin, DC M12 X 1 (PNP)	
	Order Number	Part Number	Manufacturer	Description	
Cylinder Switches	L3	SWITCH L3 ~ Weld field immune, comparable to World Switches	Welker	4-Wire, 4-Pin, DC M12 X 1 (PNP)	
	L5	MK5113 (single sensor sw itch: 2 sw itches are installed per cylinder)	if m Efector	3-Wire, 4-Pin, DC M12 X 1 (NPN)	

Standard Switch Option - All other options may affect price and delivery

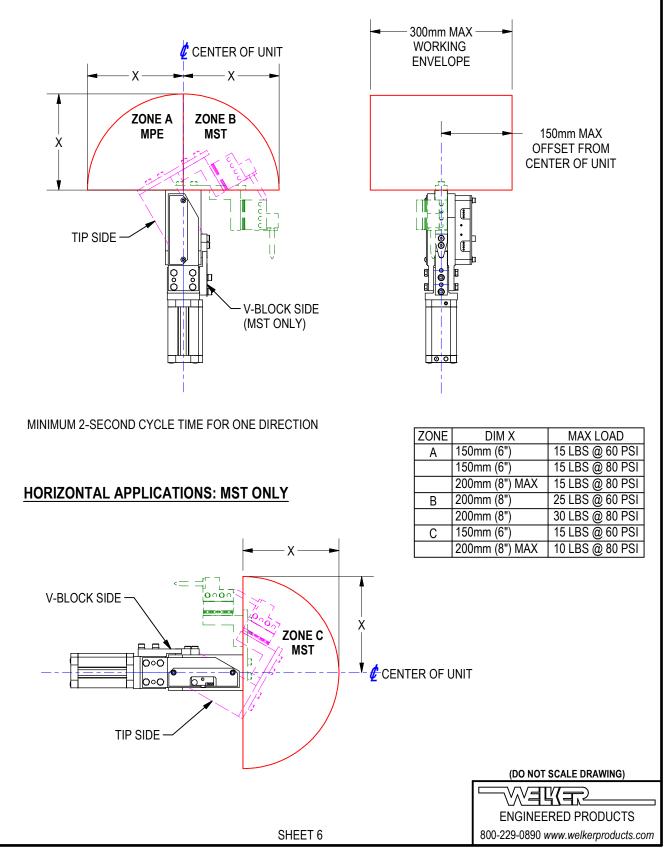
*Note that some mid and low frequency DC resistance applications (i.e. aluminum resistance welding applications) may cause a fault. In these applications, it is recommended that the sensor be ignored/bypassed during the welding cycle.



MPE PART EJECTOR & MST PART POSITIONER APPLICATION DATA

VERTICAL APPLICATIONS: MPE & MST

NOTE: CENTER OF GRAVITY AND PART CONTACT TOOLING MUST BE WITHIN DESIGNATED ZONE MAXIMUMS.



MPE PART EJECTOR & MST PART POSITIONER: REQUIRED CRITERIA FOR APPLICATION APPROVAL

APPLICATION DATA MUST BE SUBMITTED FOR WELKER APPROVAL WITH THE FOLLOWING CRITERIA FOR ALL PART EJECTOR AND PART POSITIONER APPLICATIONS. PLEASE ATTACH THIS WORKSHEET TO YOUR BUY OFF AND INCLUDE A MINIMUM OF TWO SCREEN SHOTS OF YOUR APPLICATION WITH UNIT TIP PLATE IN EXTENDED POSITION.

FLOW CONTROLS ARE <u>REQUIRED</u> FOR ALL APPLICATIONS.

REF	DESCRIPTION	VALUE
	WELKER UNIT PART NUMBER	
	WEIGHT/MASS OF LOAD (TOOLING PLUS PARTS)	lbf
С	DISTANCE FROM PIVOT POINT TO LOAD CENTER OF GRAVITY	mm
D	DISTANCE FROM PIVOT POINT TO LOAD CENTER OF GRAVITY	mm
E	DISTANCE FROM CENTER OF UNIT TO LOAD CENTER OF GRAVITY	mm
F	ORIENTATION OF UNIT TO FLOOR	٥



