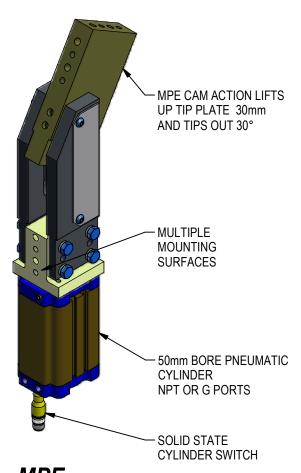
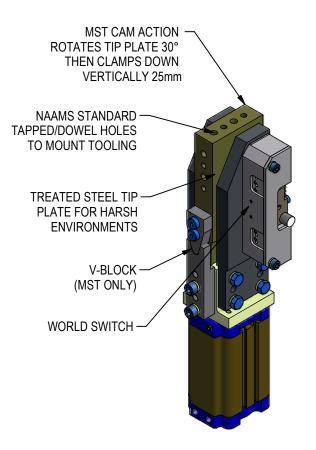


MPE PART EJECTOR MST PART POSITIONER





MPE
ONE ACTUATOR TO LIFT
AND TIP TO EJECT

U.S. Patent 6918280 B2

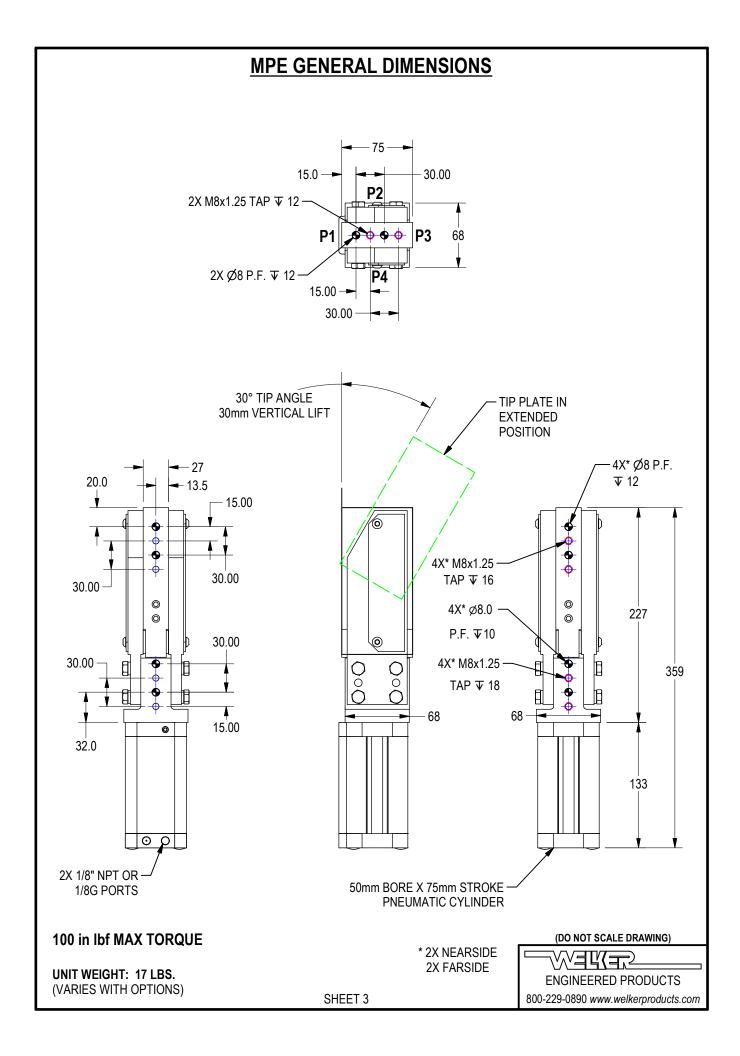
MST

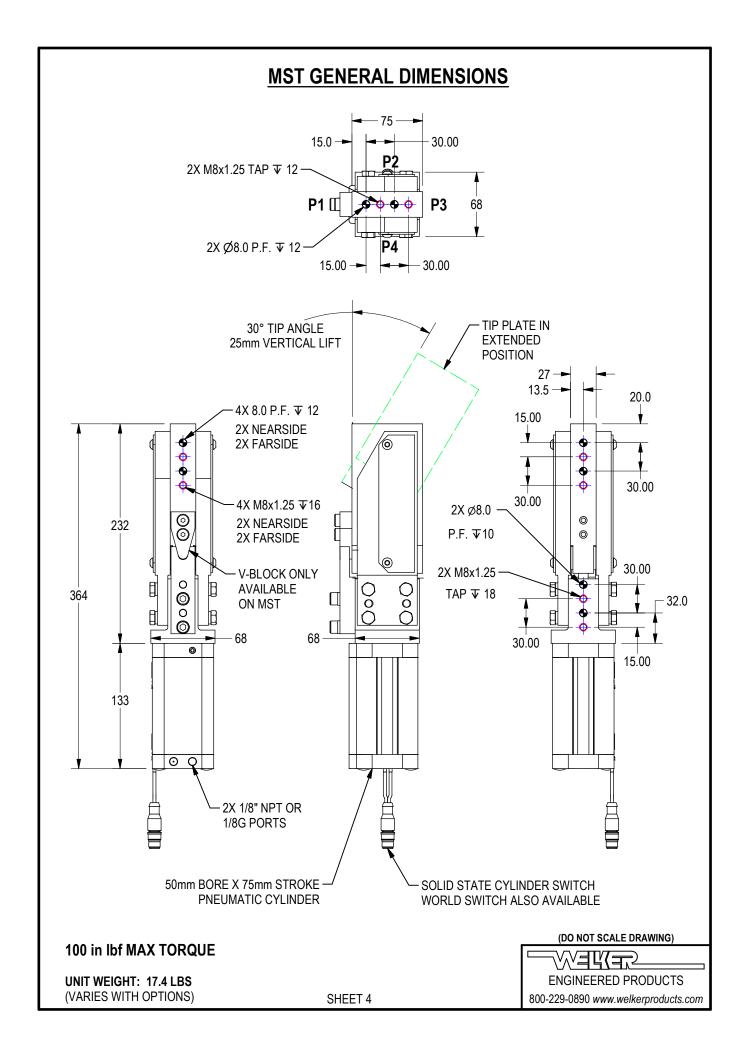
ONE ACTUATOR TO POSITION AND CLAMP

V-BLOCK ASSURES REPEATABILITY

RELEASED 5/5/16

ORDERING INFORMATION NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER M P 0 Ε 3 0 0 Series -**Actuator** 30 50mm Bore with NPT Ports 31 50mm Bore with G Ports 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 -Port @ Position 1 Port @ Position 2 С Port @ Position 3 D Port @ Position 4 0 0 Series -Actuator -30 50mm Bore with NPT Ports 31 50mm Bore with G Ports V-Block Mount (on MST ONLY) -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 **UNIT WEIGHTS** V-BLOCK -UNIT WEIGHT** (MST ONLY) MPE 16.5 LBS MST 17.4 LBS **WEIGHTS SHOW ARE APPROXIMATE AND VARY WITH OPTIONS PORTS IN-WORLD SWITCH POSITION "A" OR SOLID STATE (DO NOT SCALE DRAWING) CYLINDER SWITCH **ENGINEERED PRODUCTS** 800-229-0890 www.welkerproducts.com SHEET 2





SWITCH OPTIONS

MST3 0 0

Switch Options

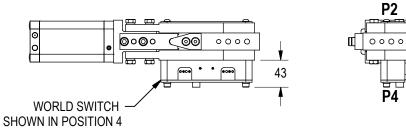
- L3 Solid State Cylinder Switch see chart below
- AE World Switch see chart below

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
	99	Sw itch Ready		Customer Supplied Switch. Prepared for switches below:
Switches	AE or AR	Ni2-Q6.5-AP6-0.1-FS 4.4X3/S304	Turck	3-Wire, 4-Pin, DC M12 X 1 (PNP) Quick Disconnect
	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.) Quick Disconnect
Swi	CE or CR	NI2-Q6.5-AN6-0.1-FS 4.4X3/S304	Turck	3-Wire, 4-Pin, DC M12 X 1 (NPN) Quick Disconnect
World	DE or DR	NBN2-F581-100S6-E8-V1	Pepperl & Fuchs	3-Wire, 4-Pin, DC M12 X 1 (PNP) Quick Disconnect
	EE or ER	BES-Z02KR2-PSC20F-P100-S04-V	Balluff	3-Wire, 4-Pin, DC M12 X 1 (PNP) Quick Disconnect
	JE or JR	IN5374	Efector	4-Wire, 4-Pin, DC M12 X 1 (PNP) Quick Disconnect
	Order Number	Part Number	Manufacturer	Description
Cylinder Switches	L3	SWITCH L3 L3 switch is weld field immune, comparable to World Switches	Welker	4-Wire, 4-Pin, DC M12 X 1 (PNP) Quick Disconnect
	L5	MK5113 (This is a single sensor switch: 2 switches are installed per cylinder)	ifm Efector	3-Wire, 4-Pin, DC M12 X 1 (NPN) Quick Disconnect

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



SHEET 5

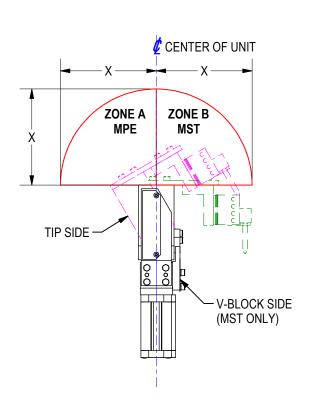
(DO NOT SCALE DRAWING)

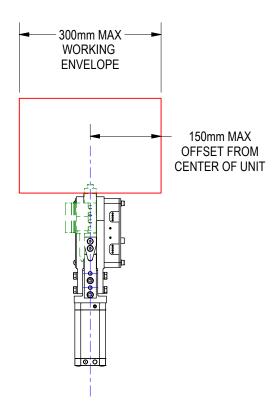


MPE PART EJECTOR & MST PART POSITIONER APPLICATION DATA

VERTICAL APPLICATIONS: MPE & MST

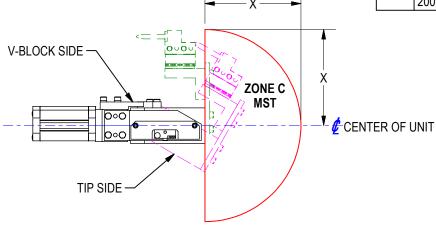
NOTE: CENTER OF GRAVITY AND PART CONTACT TOOLING MUST BE WITHIN DESIGNATED ZONE MAXIMUMS.





HORIZONTAL APPLICATIONS: MST ONLY

ZONE	DIM X	MAX LOAD
Α	150mm (6")	15 LBS @ 60 PSI
	150mm (6")	15 LBS @ 80 PSI
	200mm (8") MAX	15 LBS @ 80 PSI
В	200mm (8")	25 LBS @ 60 PSI
	200mm (8")	30 LBS @ 80 PSI
С	150mm (6")	15 LBS @ 60 PSI
	200mm (8") MAX	10 LBS @ 80 PSI



(DO NOT SCALE DRAWING)

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SHEET 6

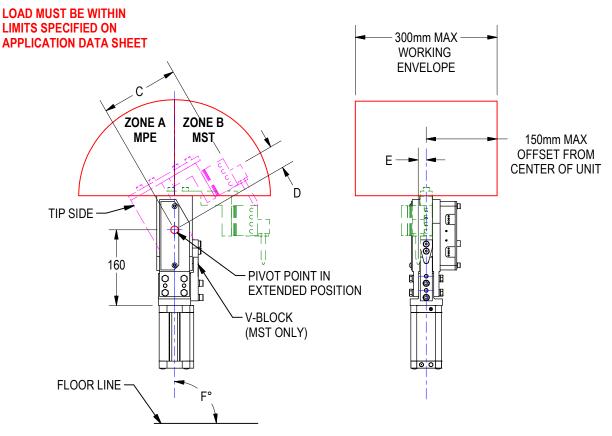
MPE PART EJECTOR & MST PART POSITIONER: REQUIRED CRITERIA FOR APPLICATION APPROVAL

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 REQUIRED 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
Е	DISTANCE FROM CENTER OF UNIT TO LOAD CENTER OF GRAVITY	mm
F	ORIENTATION OF UNIT TO FLOOR	0

PLEASE SUBMIT VIEWS BELOW FOR APPROVAL



WELKER APPROVAL				
SUBMITTED BY		DATE		
PHONE NUMBER(S)		EMAIL		
COMPANY NAME		PROGRAM		
WELKER APPROVAL BY		DATE		

EXTEND TORQUE	RETRACT TORQUE
100in-lbf	

(DO NOT SCALE DRAWING)

ENGINEERED PRODUCTS

800-229-0890 www.welkerproducts.com

SHEET 7