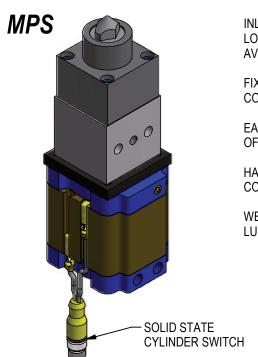


INLINE MINI PIN & OFFSET MINI PIN

COMPACT RETRACTABLE LOCATING PINS



INLINE & OFFSET RETRACT PINS FOR REPEATABLE, PRECISION PART LOCATION. THE SMALLEST, LIGHTEST, FULL-FEATURE LOCATING PINS AVAILABLE.

FIXED NET SURFACE & PRIMARY PIN LOCATOR ARE COMBINED INTO ONE COMPONENT. VERSATILE NAAMS MOUNTING ON TWO SIDES.

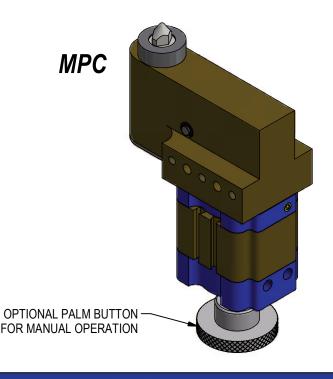
EASY PIN CHANGE-OUT. PINS ARE INTERCHANGEABLE BETWEEN INLINE AND OFFSET - LOWER SPARE PARTS STOCKING COSTS.

HARD ANODIZED ALUMINUM CONSTRUCTION, WELD SPATTER RESISTANT COATING.

WELKER ANTI-ROTATE TECHNOLOGY. RAP OR RIGID COUPLING. NO LUBRICATION NEEDED.

APPLICATIONS:

SEATING END EFFECTORS INSTRUMENT PANELS EXHAUST TRUNNIONS



RELEASED 4/12/17

INLINE MINI PIN MPS ORDERING INFORMATION NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER MPSPin Diameter-Pin Diameter 1589 4.85 - 25.00mm (15.89mm dia. shown) XXXX No Pin Pin Blank Max 19mm Dia. 000S Pin Blank Max 25mm Dia. 000L **Port Position** A P1 Position Pin Style & Orientation -B P2 Position 0 Pin Blank (Machined by Customer) C P3 Position X No Pin D P4 Position A 4-Way Round B 2-Way Diamond Switch C 2-Way Diamond (Rotated 90°) 00 No Switch LX See Cylinder Switch Chart Backup Size -S Small 30mm Diameter Backup **Actuator Options** L Large 35mm Diameter Backup 50mm Bore with NPT Port 32 33 50mm Bore with G Port 36 50mm Bore Double Rod with Coupler -A Rap NPT Port & Palm Button **B** Rigid 37 50mm Bore Double Rod with G Port & Palm Button To order replacement pins: MPPPINPin Diameter-Pin Diameter 1589 0008 For Pin Blank Max 19mm Dia. 000L For Pin Blank Max 25mm Dia. Pin Style & Orientation-O Pin Blank (Machined by Customer) A 4-Way Round B 2-Way Diamond C 2-Way Diamond (Rotated 90°) Backup Size -S Small 30mm Diameter Backup L Large 35mm Diameter Backup

	Switch Option	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 (PNP) M12 X 1 Quick Disconnect
	L5	MK5113 (This is a single sensor switch: 2 switches are installed per cylinder)	ifm Efector	3-Wire, 4-Pin, DC (NPN) M12 X 1 Quick Disconnect

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

(DO NOT SCALE DRAWING)

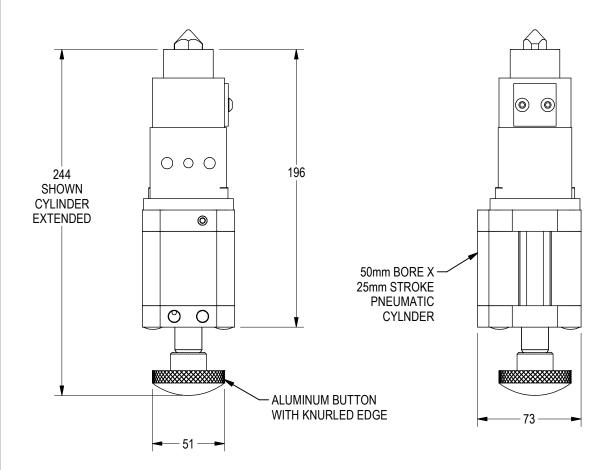
ENGINEERED PRODUCTS

800-229-0890 www.welkerproducts.com

GENERAL DIMENSIONS INLINE MINI PIN MPS 73 P2 2-WAY PIN ORIENTATION "B" SHOWN 0 SEE SHEET 8 FOR DETAILS **P1 P3** 65 Ø35 LARGE BACKUP: ANY SIZE PIN DIAMETER Ø30 SMALL BACKUP: FOR PINS UP TO 19mm DIA. PINS RETRACT 14 TYP 4 TYP **BELOW BACKUP ALL PINS** ALL PIN Øs 20 **COVER PLATE** 2X M8x1.25 TAP ▼12 TO ACCESS 0 (O) 80 (1) NEAR, (1) FAR PIN FASTENER 4X Ø8.0 S.F. ▼12 (2) NEAR, (2) FAR 52 lacktriangledown196 30.00 CENT. TYP. 54 0 50mm BORE X 25mm STROKE **PNEUMATIC CYLNDER** 0 Q 2X 1/8"NPT OR G1/8 PORTS **OPTIONAL SOLID** STATE CYLINDER **SWITCH** UNIT WEIGHTS* **MODEL** WEIGHT MPS (DO NOT SCALE DRAWING) 3.6 LBS MPC 5.4 LBS *WEIGHTS VARY WITH OPTIONS **ENGINEERED PRODUCTS** 800-229-0890 www.welkerproducts.com SHEET 3

INLINE MINI PIN ~ PALM BUTTON OPTION

(FOR MANUAL OPERATION)



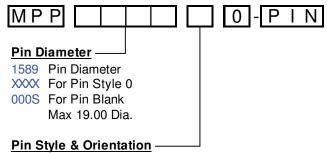
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OFFSET MINI PIN MPC ORDERING INFORMATION NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER MPC0 Pin Diameter-1589 Pin Diameter 4.85 - 19.00mm (15.89mm dia. shown) XXXX Pin Styles 0 & X 000S Pin Blank Max 19.00 Dia. **Port Position** A P1 Position **B** P2 Position Pin Style & Orientation -0 Pin Blank (Machined by Customer) C P3 Position X No Pin D P4 Position A 4-Way Round B 2-Way Diamond C 2-Way Diamond (Rotated 90°) Switch 00 No Switch **Actuator Options** -LX See Cylinder Switch Chart 32 50mm Bore with NPT Port

To order replacement pins:

33 50mm Bore with G Port



50mm Bore Double Rod with NPT Port & Palm Button50mm Bore Double Rod with G Port & Palm Button

- O Pin Blank (Machined by Customer)
- A 4-Way Round
- B 2-Way Diamond
- C 2-Way Diamond (Rotated 90°)

	Switch Option	Part Number	Manufacturer	Description
Cylinder Switches	L3	SWITCH L3 L3 sw itch is w eld field immune, comparable to World Sw itches	Welker	4-Wire, 4-Pin, DC (PNP) M12 X 1 Quick Disconnect
	L5	MK5113 (This is a single sensor switch: 2 switches are installed per cylinder)	ifm Efector	3-Wire, 4-Pin, DC (NPN) M12 X 1 Quick Disconnect

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

(DO NOT SCALE DRAWING)

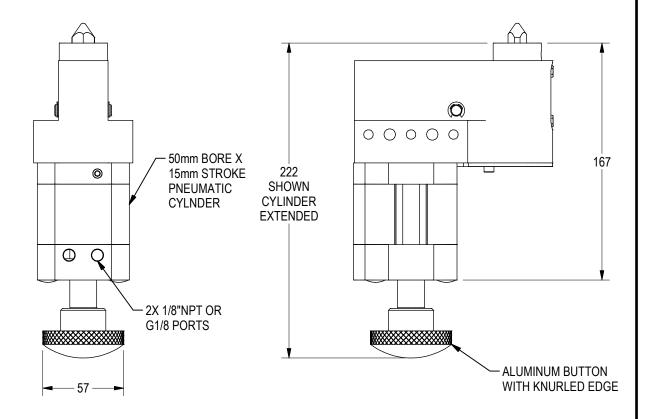
ENGINEERED PRODUCTS 800-229-0890 www.welkerproducts.com

SHEET 5

GENERAL DIMENSIONS ~ OFFSET MINI PIN MPC PIN ORIENTATION "B" SHOWN. SEE SHEET **8 FOR DETAILS** PORT POSITION 2 & 4 WILL CAUSE CYLINDER TO EXTEND PAST MOUNTING FACE BY 10.5mm 35 P4 CENT. **P3** -P1 70 CENT 35 P2 80 140 75 4mm PART Ø34 15.00 TYP. → **ENGAGEMENT BACKUP** PIN RETRACTS **BELOW BACKUP** 65 0 \bullet \bullet \bullet 157 0 20 6X M8x1.25 TAP ▼ 16 -50mm BORE X 3X NEAR SIDE 15mm STROKE 3X FAR SIDE **PNEUMATIC** Q 0 **CYLNDER** 4X Ø8.0 S.F. ▼16 2X NEAR SIDE 2X FAR SIDE 2X 1/8"NPT OR G1/8 PORTS OPTIONAL SOLID STATE UNIT WEIGHTS* CYLINDER SWITCH MODEL WEIGHT (DO NOT SCALE DRAWING) MPS 3.6 LBS MPC 5.4 LBS *WEIGHTS VARY WITH OPTIONS **ENGINEERED PRODUCTS** SHEET 6 800-229-0890 www.welkerproducts.com

OFFSET MINI PIN ~ PALM BUTTON OPTION

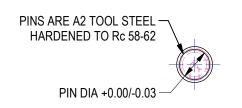
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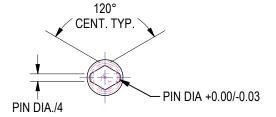


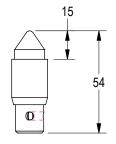
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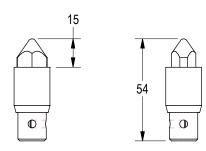


PIN STYLE & ORIENTATION OPTIONS



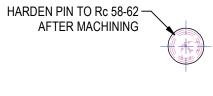




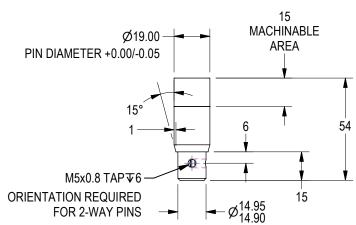


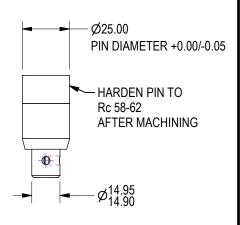
OPTION "A" PIN 4-WAY ROUND

OPTION "B" OR "C" PIN 2-WAY DIAMOND









OPTION "000S" PIN PIN BLANK FOR SMALL BACKUP

OPTION "000L" PIN PIN BLANK FOR LARGE BACKUP

PIN NOTE:

PINS MANUFACTURED BY WELKER (OPTIONS A, B, & C) ARE HARDENED A2 TOOL STEEL. PIN BLANKS (OPTION "0") ARE SHIPPED UNHARDENED. HARDENING OF THE PIN AFTER MACHINING IS REQUIRED AND THE RESPONSIBILITY OF THE CUSTOMER.

SHEET 8

(DO NOT SCALE DRAWING)

