

# SERVICE & OPERATING MANUAL

## Original Instructions

Certified Quality



SAI GLOBAL

ISO 9001 Certified  
ISO 14001 Certified

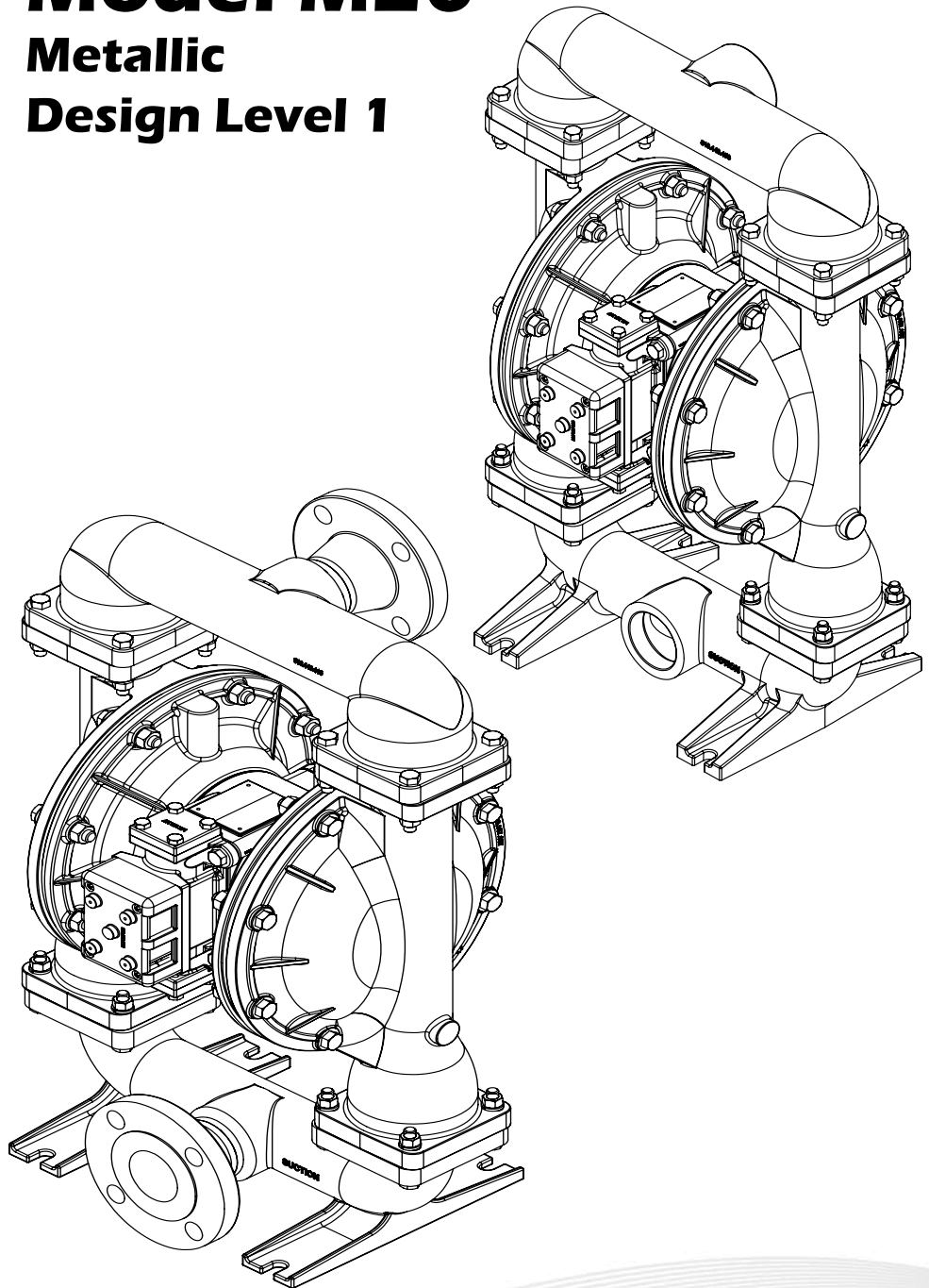
Member of:  
**Hydraulic**

**IDEX**

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## Model M20

### Metallic Design Level 1



1: PUMP SPECS

2: INSTAL & OP

3: EXP VIEW

4: AIR END

5: WET END

6: OPTIONAL

7: WARRANTY

**MARATHON**  
A WARREN RUPP, INC. BRAND

WARREN RUPP.COM

# Explanation of Pump Nomenclature

Your Model #: **M**

(fill in from pump nameplate)

Pump Brand	Pump Size	Check Valve	Design Level	Wetted Material	Diaphragm/Check Valve	Check Valve Seat	Non-Wetted Material	Porting Options	Pump Style	Pump Options	Kit Options
M	XX	X	X	X	X	X	X	X	X	X	XX

## Pump Brand

M Marathon®

## Pump Size

20 2"

## Check Valve Type

B Ball  
W Weighted

## Design Level

1 Design Level

## Wetted Material

A Aluminum  
I Cast Iron  
S Stainless Steel  
H Alloy C  
X Unpainted Aluminum

## Diaphragm/Check Valve Materials

1 Santoprene/Santoprene  
2 PTFE-Santoprene/PTFE  
B Nitrile/Nitrile  
C FKM/PTFE  
E EPDM/EPDM  
I EPDM/Santoprene  
G PTFE-Neoprene/PTFE  
M Santoprene/PTFE  
N Neoprene/Neoprene  
Z One-Piece Bonded/PTFE

## Check Valve Seat

A Aluminum  
B Nitrile  
C Carbon Steel  
E EPDM  
N Neoprene  
S Stainless Steel  
T PTFE  
V FKM  
W UHMW Polyethylene

## Non-Wetted Material Options

A Painted Aluminum  
I Cast Iron  
J Painted Aluminum w/PTFE Coated Hardware  
S Stainless Steel with Stainless Steel Hardware  
Y Painted Aluminum with Stainless Steel Hardware  
Z Cast Iron with Stainless Steel Hardware

## Porting Options

N NPT Threads  
B BSP (Tapered) Threads  
R Raised Face 150# Threaded ANSI Flange  
W Welded Raised Face #150 ANSI Flanged Manifolds

## Pump Style

S Standard

## Pump Options

0 None  
6 Metal Muffler

## Kit Options

00. None  
P0. 10.30VDC Pulse Output Kit  
P1. Intrinsically-Safe 5.30VDC, 110/120VAC 220/240 VAC Pulse Output Kit  
P2. 110/120 or 220/240VAC Pulse Output Kit  
E0. Solenoid Kit with 24VDC Coil  
E1. Solenoid Kit with 24VDC Explosion-Proof Coil  
E2. Solenoid Kit with 24VAC/12VDC Coil  
E3. Solenoid Kit with 12VDC Explosion-Proof Coil  
E4. Solenoid Kit with 110VAC Coil

## Kit Options (continued)

E5. Solenoid Kit with 110VAC Explosion-Proof Coil  
E6. Solenoid Kit with 220VAC Coil  
E7. Solenoid Kit with 220VAC Explosion-Proof Coil  
E8. Solenoid Kit with 110VAC, 50 Hz Explosion-Proof Coil  
E9. Solenoid Kit with 230VAC, 50 Hz Explosion-Proof Coil  
SP. Stroke Indicator Pins

A1. Solenoid Kit with 12 VDC ATEX Compliant Coil  
A2. Solenoid Kit with 24 VDC ATEX Compliant Coil  
A3. Solenoid Kit with 110/120 VAC 50/60 Hz ATEX Compliant Coil  
A4. Solenoid Kit with 220/240 VAC 50/60 Hz ATEX Compliant Coil



IEC EEX m T4



**Note:** Pump models equipped with these explosion-proof solenoid kit options E1, E3, E5, E7, E8 or E9, are certified and approved by the above agencies. They are NOT ATEX compliant.

Your Serial #: (fill in from pump nameplate) \_\_\_\_\_

## ATEX Detail

	ATEX Detail	Wetted Material Options	Non-Wetted Material Options	Pump Options	Kit Options
	II 1 G Ex h IIC T5...225°C (T2) Ga II 1D Ex h IIIC T100°C...T200°C Da I M1 Ex h I Ma	H, I, S	I, S, Z	6	00
	II 2 G Ex h IIC T5...225°C (T2) Gb II 2 D Ex h IIIC T100°C...T200°C Db	A, H, I, S, X	A, I, S, Y, Z	6	00
	II 2 G Ex h ia IIC T5 Gb II 2 D Ex h ia IIIC T100°C Db	A, H, I, S, X	A, I, S, Y, Z	6	P1
	II 2 G Ex h mb IIC T5 Gb II 2 D Ex h mb tb IIIC T100°C Db	A, H, I, S, X	A, I, S, Y, Z	6	A1, A2, A3, A4