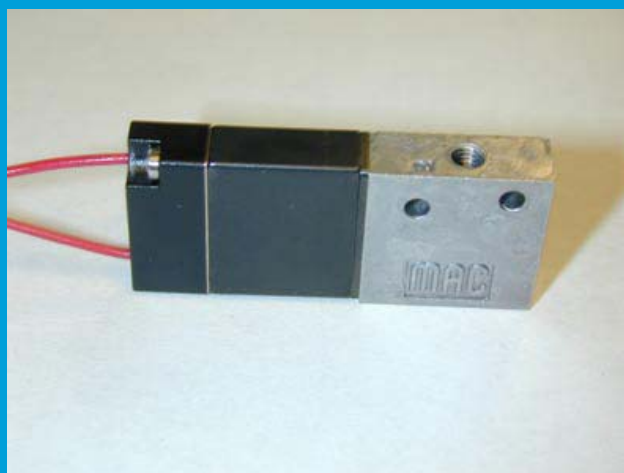


Handhabungstechnik
Motore & Getriebe
Pneumatik
Hydraulik
Systemlösungen

as-tec
Mechatronik GmbH

Produktkatalog

MAC 3/2 Wegeventile **Serie 31 - M3**



Über Uns

Die Firma **as-tec Mechatronik GmbH** ist ein herstellerunabhängiger Lieferant von Systemlösungen und Komponenten für pneumatische, hydraulische und elektrische Antriebs- und Steuerungstechnik.

Wir bieten unseren Kunden für ihre Projekte im Maschinen- und Anlagenbau, beziehungsweise für die Instandhaltung ihrer Fertigungseinrichtungen die am besten geeigneten Produkte aus unserem herstellerübergreifenden Produktportfolio.

In unserer Werkstätte produzieren wir kundenspezifische Lösungen wie zum Beispiel Ventileinheiten, Schaltschränke und Sonderzylinder. Weiters halten wir sowohl Standardkomponenten als auch speziell für Kunden bevorratete Produkte auf Lager.

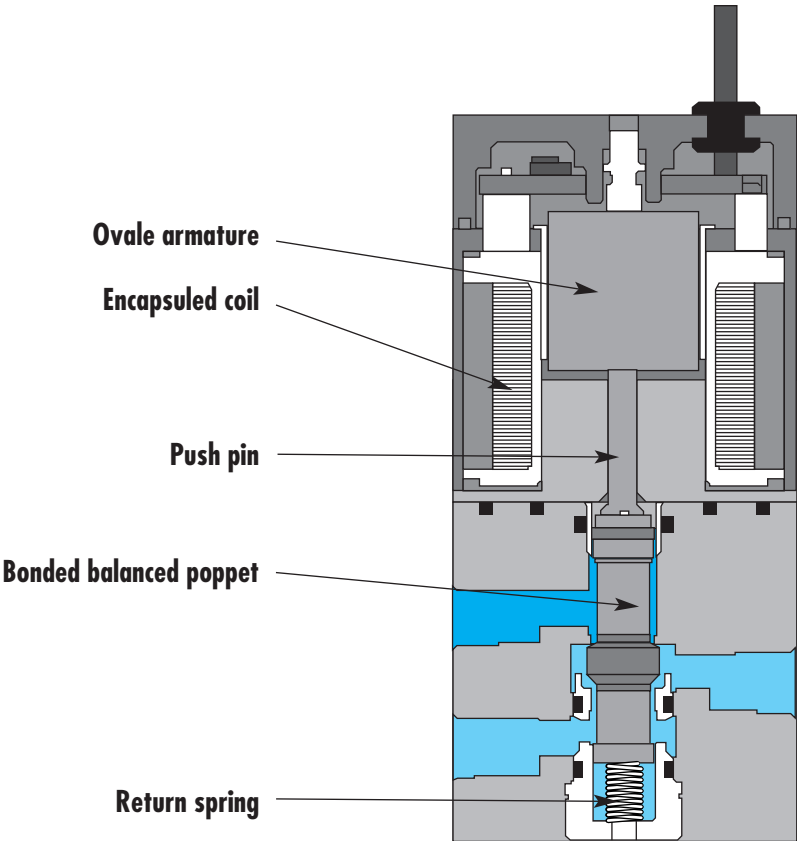


Direct solenoid and solenoid pilot operated valves
 6 mm valve

Individual mounting

inline	
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Série



SERIES FEATURES

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- 6 mm direct operated valve.
- Very fast response times.

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48P

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400

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83

93

ISO 01

ISO 02

ISO 1

ISO 2

ISO 3



Direct solenoid and solenoid pilot operated valves
6 mm valve

Function	Port size	Flow (Max)	Mounting	Series
3/2 NC	M 3	20 to 50 NI/min	Individual inline	

OPERATIONAL BENEFITS

- 1. 6mm valve direct solenoid operated
- 2. Balanced poppet, immune to pressure variations
- 3. Short stroke with high flow
- 4. Patented solenoid develops high shifting forces
- 5. Low wattage solenoids
- 6. Powerful return spring
- 7. Extremely fast response times
- 8. Universal valve



HOW TO ORDER

Port size	NC only valve
M3	31A-AAB-T xxx-xxx

SOLENOID OPERATOR >

T xxx-xxx *

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DC	24V=/1.8W	A	45 cm	0	No operator*	BA	Flying leads
DD	24V=/2.5W	B	60 cm	1	Non-locking		
DE	24V=/3.0W	C	90 cm				
DF	24V=/4.0W						
DJ	12V=/1.8W						
DK	12V=/2.5W						
DL	12V=/3.0W						
DM	12V=/4.0W						

*Use this option only for high-speed models with differential air assist

For high-speed differential air assist models only

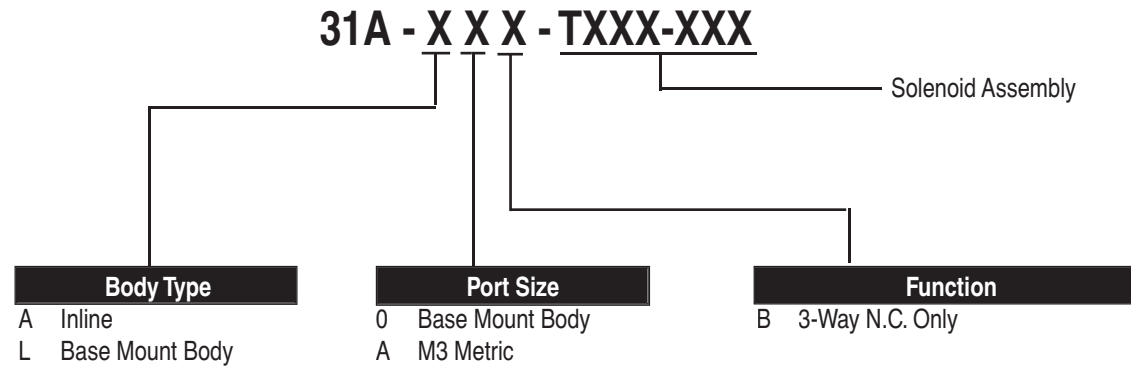
FA	24V=/60W
FB	24V=/90W
FC	24V=/230W

Mod number required for high speed models with differential air assist – consult factory

* Other options available, see page 405

How to Order 31 Series

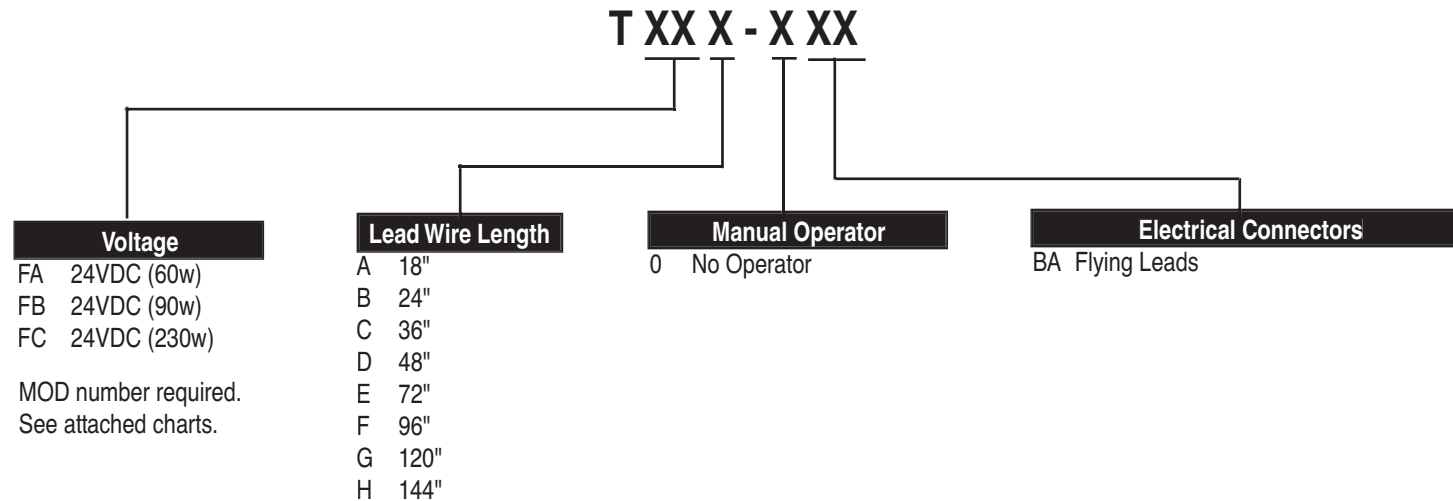
(High Speed Valve w/ Differential Assist)



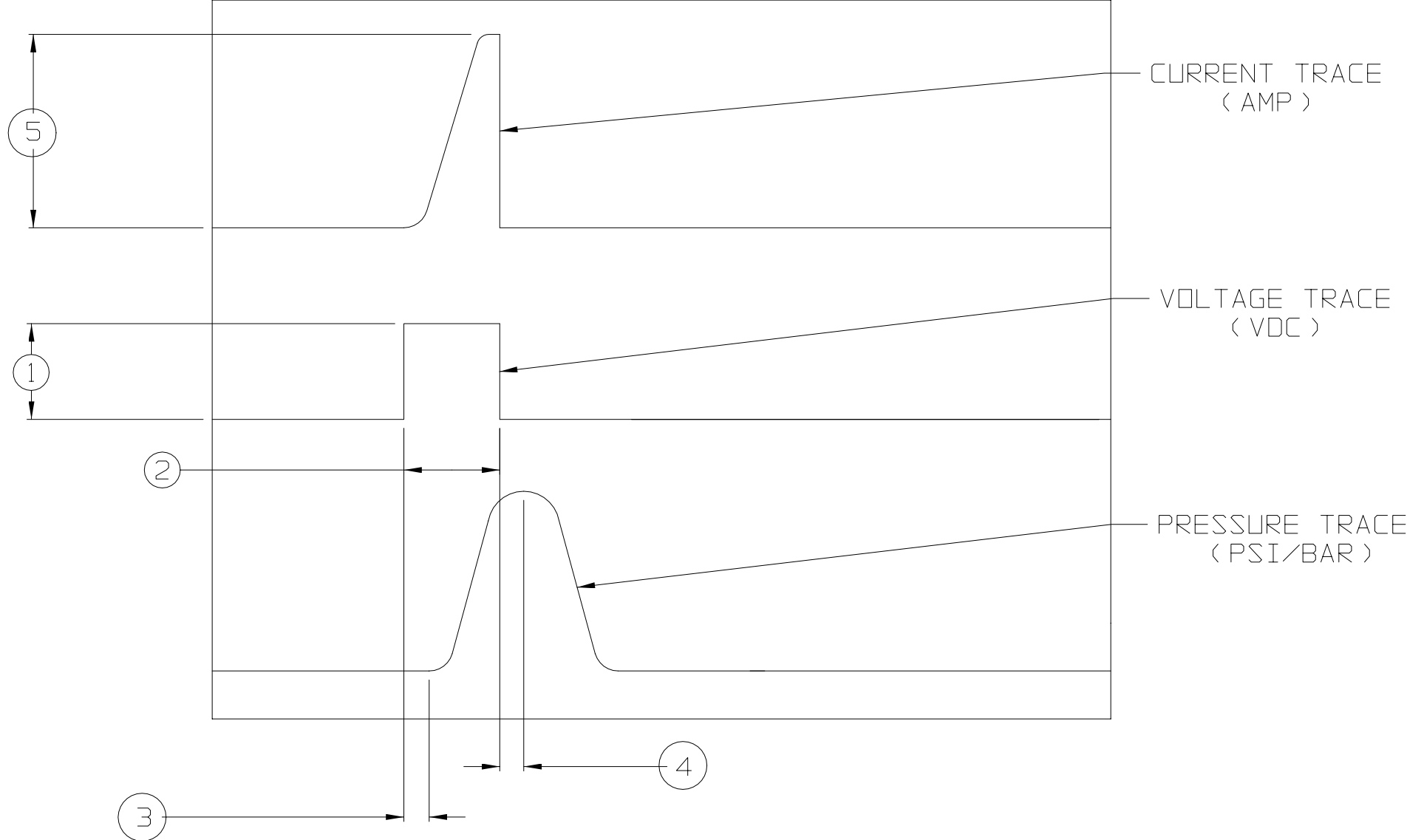
MOD number required. See attached charts.

How to Order 31 Series

High Speed Solenoid Assembly For Differential Air Assist



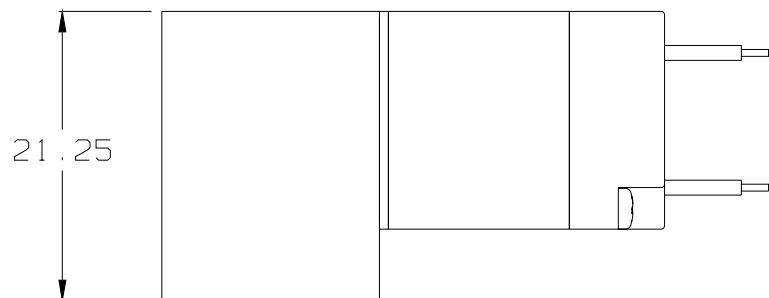
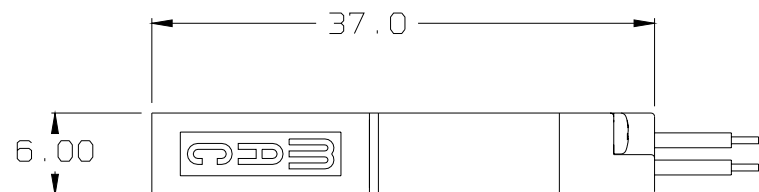
Differential Air Assist					Trace Description	1	2	3	4	5
Valve Model Number	MOD Number (Std. Grease)	MOD Number (Food grade Grease)	Cv (Flow)	Resistance (Ohms)	Inlet Pressure (psi)	Voltage (VDC)	Values for Maximum Pulse Magnitude			
							On time required to Create Maximum Air Pulse (ms)	Time to Start Flow (ms)	Time to Start Exhaust (ms)	Peak Current (amp)
31A-XXX-TFCX-XXX	S041	S044	0.03	2.5	40	24	1.00	0.30	0.30	8.2
					80		1.40			
31A-XXX-TFCX-XXX	S042	S045	0.05	2.5	40	24	1.25	0.40	0.27	
					80		1.45			
31A-XXX-TFCX-XXX	S043	S046	0.06	2.5	40	24	1.35	0.43	0.25	
					80		1.50			
31A-XXX-TFBX-XXX	S041	S044	0.03	6.5	40	24	1.25	0.35	0.35	
					80		1.65			
31A-XXX-TFBX-XXX	S042	S045	0.05	6.5	40	24	1.60	0.55	0.33	
					80		1.75			
31A-XXX-TFBX-XXX	S043	S046	0.06	6.5	40	24	1.70	0.60	0.30	
					80		1.85			
31A-XXX-TFAX-XXX	S041	S044	0.03	9.5	40	24	1.35	0.47	0.35	
					80		1.75			
31A-XXX-TFAX-XXX	S042	S045	0.05	9.5	40	24	1.60	0.60	0.33	
					80		1.80			
31A-XXX-TFAX-XXX	S043	S046	0.06	9.5	40	24	1.65	0.70	0.33	
					80		1.90			



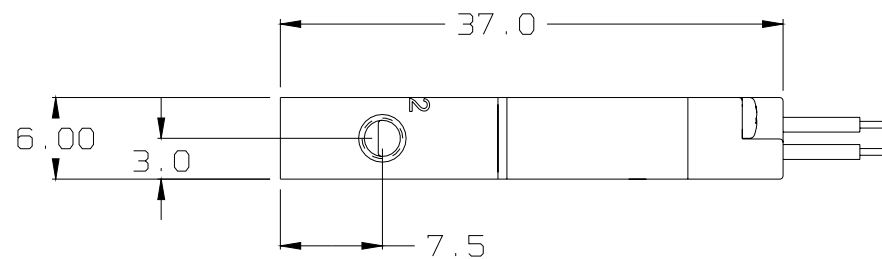
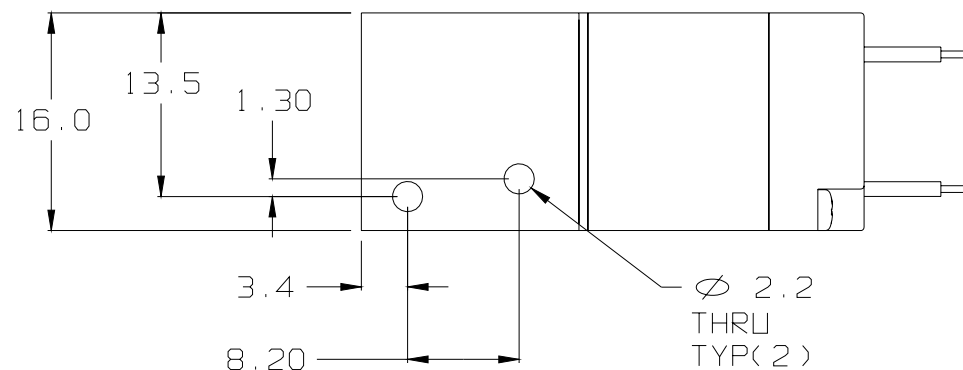
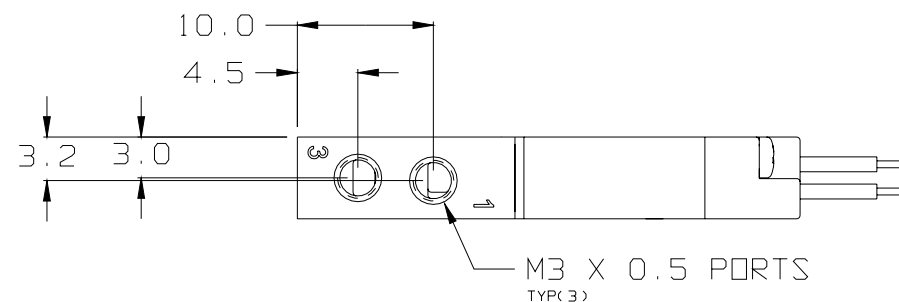
PARAMETERS FOR MAXIMUM AIR PULSE

1. VOLTAGE
2. ON-TIME REQUIRED FOR MAXIMUM
AIR PULSE
3. TIME TO START TO FLOW
4. TIME TO START TO EXHAUST
5. PEAK CURRENT

31 SERIES WITH HIGH SPEED SOLENOID WITH DIFERENTIAL AIR ASSIST



MANIFOLD BODY

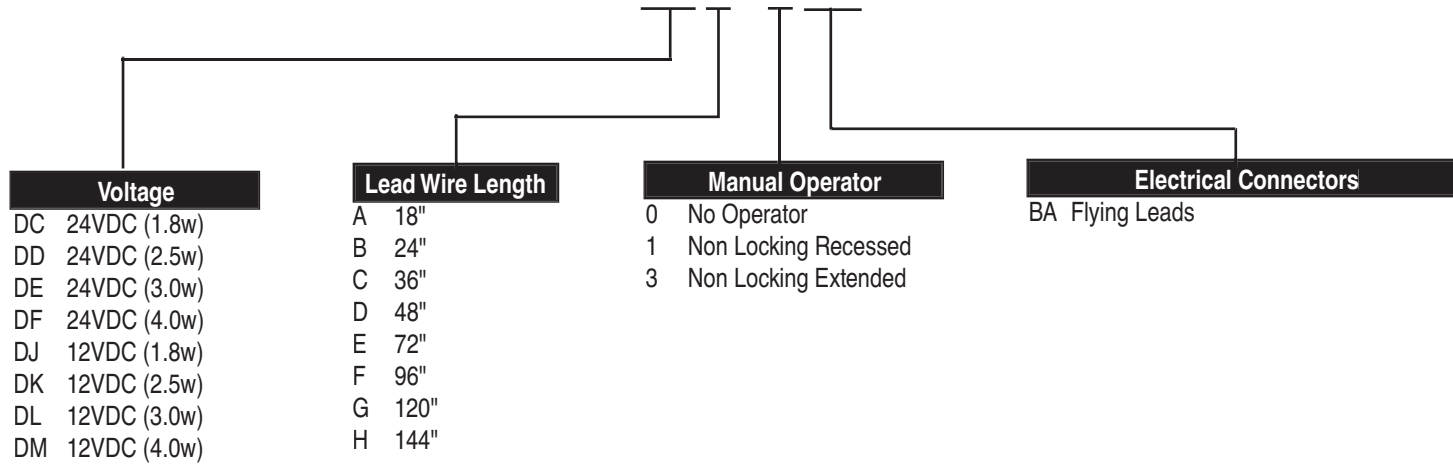


INLINE BODY

-DIMENSIONS SHOWN ARE
IN MILLIMETERS

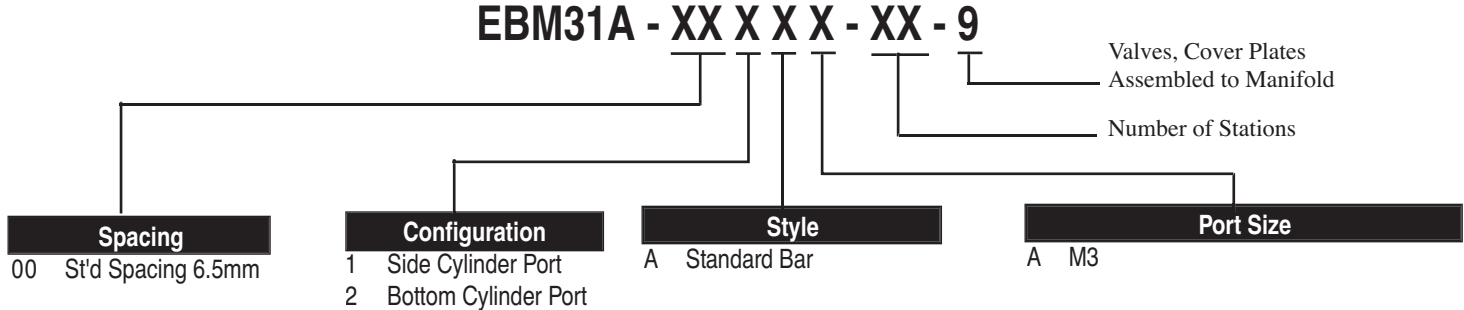
How to Order 31/41 Series Solenoid Assembly

T XX X - X XX



How to Order 31 Series

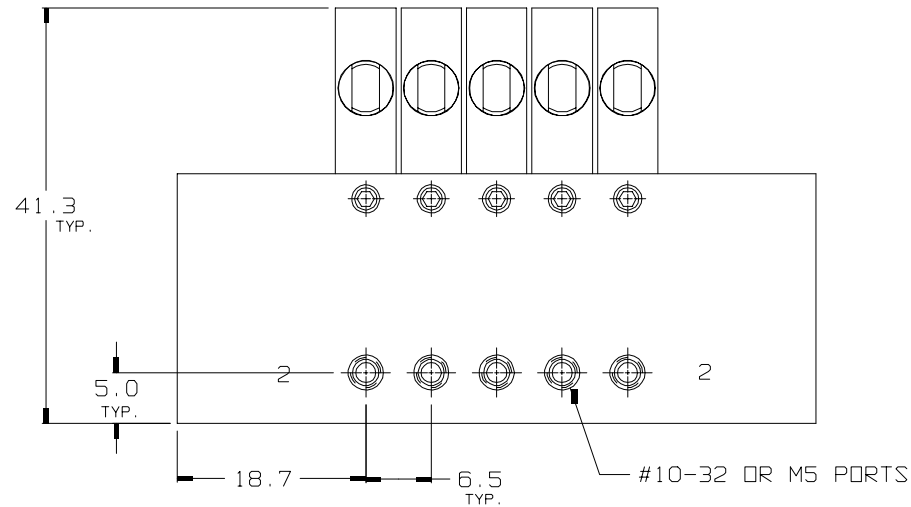
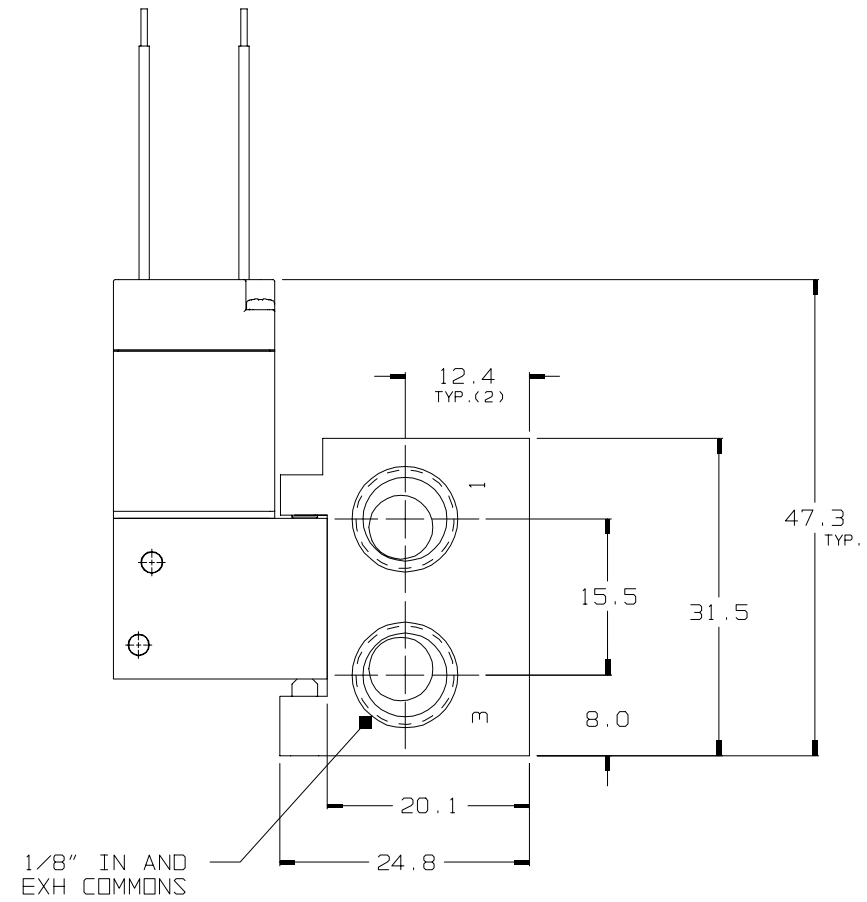
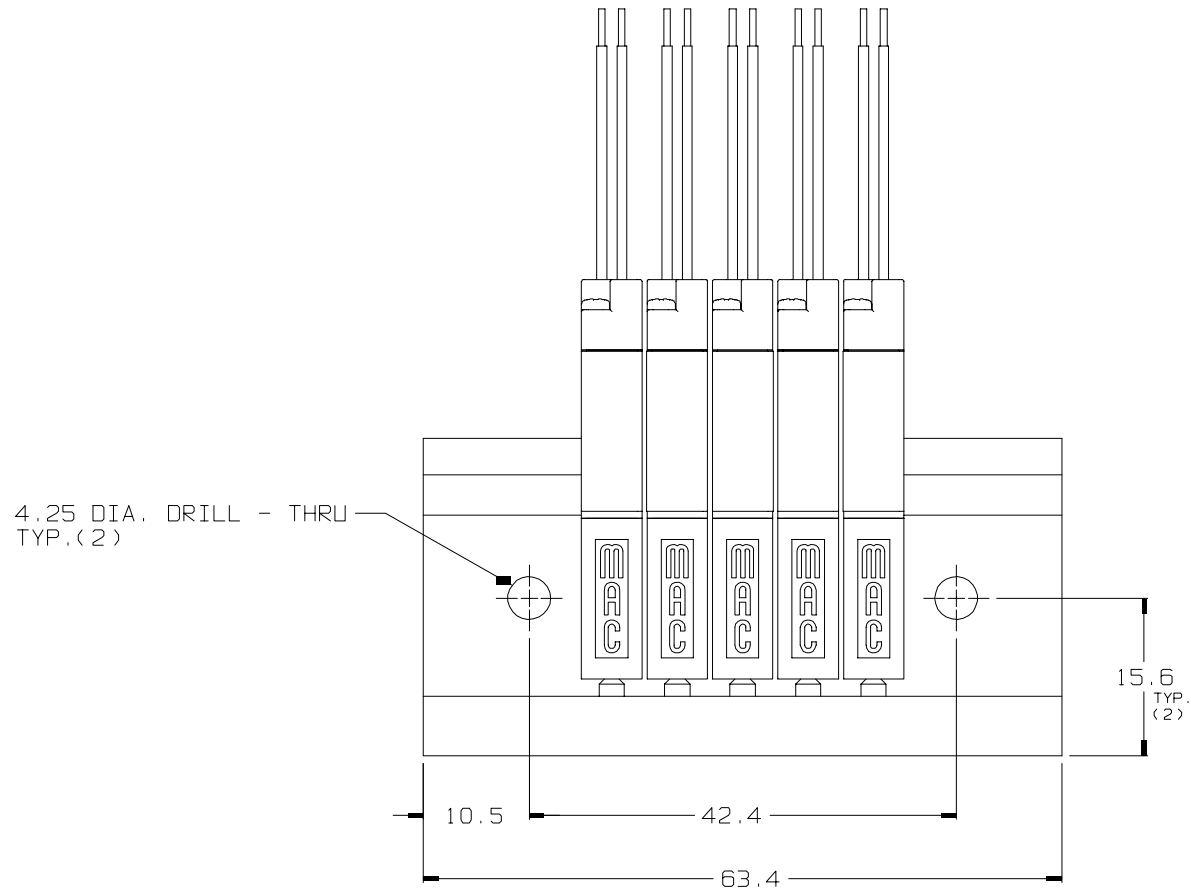
EBM Circuit Bar



Note: Through ports (Inlet and Exhaust) are M7 Ports.

31 SERIES EBM

(SHOWN WITH "FLYING LEADS" CONNECTOR)



- DIMENSIONS SHOWN ARE
IN MILLIMETERS
- 5 STATION BAR SHOWN

Notizen

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