

Spence™ M Series Solenoid Pilot



Figure 1. M Series Solenoid Pilot

Features

- Fast Acting for Quick Response
- Available Normally Open or Normally Closed

Introduction

M Series Solenoid pilots open or close the controlled system via an external control signal. These are available in both fail open or fail closed upon loss of signal. M Series are mounted outside the main valve and provide on/off operation for a wide range of control variables.

M Series

Specifications

This section lists the specifications for M Series. Factory specifications are stamped on the nameplate fastened on the unit at the factory.

<p>Available Configuration See Table 1</p> <p>End Connection Style CL125 and CL250</p> <p>Maximum Pressure⁽¹⁾ See Table 2</p> <p>Maximum Temperature⁽¹⁾ See Table 2</p>	<p>Materials of Construction Body: Brass Head: Aluminum and polypropylene Internal Core Assembly: Ferrous and brass Bonnet Gasket: Ethylene propylene (EPDM)</p> <p>Applications Remote Electronic Shutoff of Regulators</p> <p>Approximate Weight CL125: 3 lbs / 1.4 kg CL250: 6 lbs / 2.7 kg</p>
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1. The pressure/temperature limits in this Bulletin and any applicable standard or code limitation should not be exceeded.

Table 1. M Series Available Configurations

TYPE	NUMBER OF PORTS	OPERATION	APPLICATION
M24	3-way	Normally open	for cold fluids in straight solenoid valve
M25	3-way	Normally closed	for cold fluids in straight solenoid valve
M26	2-way	Normally open	for cold fluids in multiple pilot arrangements
M27	2-way	Normally closed	for cold fluids in multiple pilot arrangements
M32 ⁽¹⁾	2-way	Normally open	for steam or other hot fluid services in multiple pilot arrangements
M33 ⁽¹⁾	2-way	Normally closed	for steam or other hot fluid services in multiple pilot arrangements
M34 ⁽¹⁾	3-way	Normally open	for steam or other hot fluid services in straight solenoid valve
M35 ⁽¹⁾	3-way	Normally closed	for steam or other hot fluid services in straight solenoid valve

1. Add LP suffix for low pressure and HP suffix for high pressure.

Table 2. M Series Pressure and Temperature Ratings

TYPE	MAXIMUM PRESSURE		MAXIMUM TEMPERATURE	
	psig	bar	°F	°C
M24, M25	250	17.2	200	93.3
M26, M27	125	8.6	180	82.2
M32LP, M33, M34LP, M35LP	125	8.6	363	178
M32HP, M33HP, M34HP	250	17.2	406	208

Principle of Operation

M Series is used together with a pilot-operated regulator to regulate the atomizing steam at a constant differential above the oil pressure. M Series shut the steam valve by an electric impulse in the event of shutdown requirements.

Installation

M Series is designed to perform properly when mounted in any position. However, for optimum life and performance, mount the pilot vertically and upright to reduce the possibility of foreign matter accumulating in the solenoid base sub-assembly area.

Install the M Series between the main valve and the regulator pilot. See Figure 2.

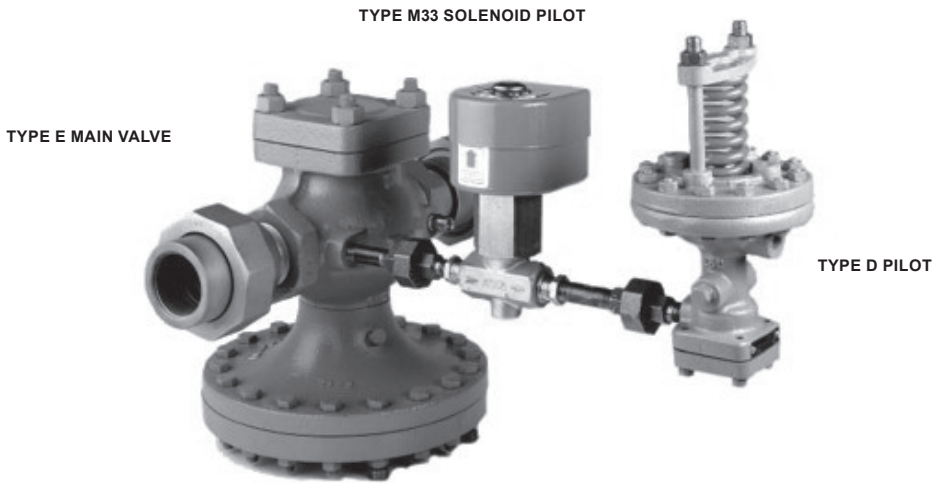


Figure 2. M Series Solenoid Pilot

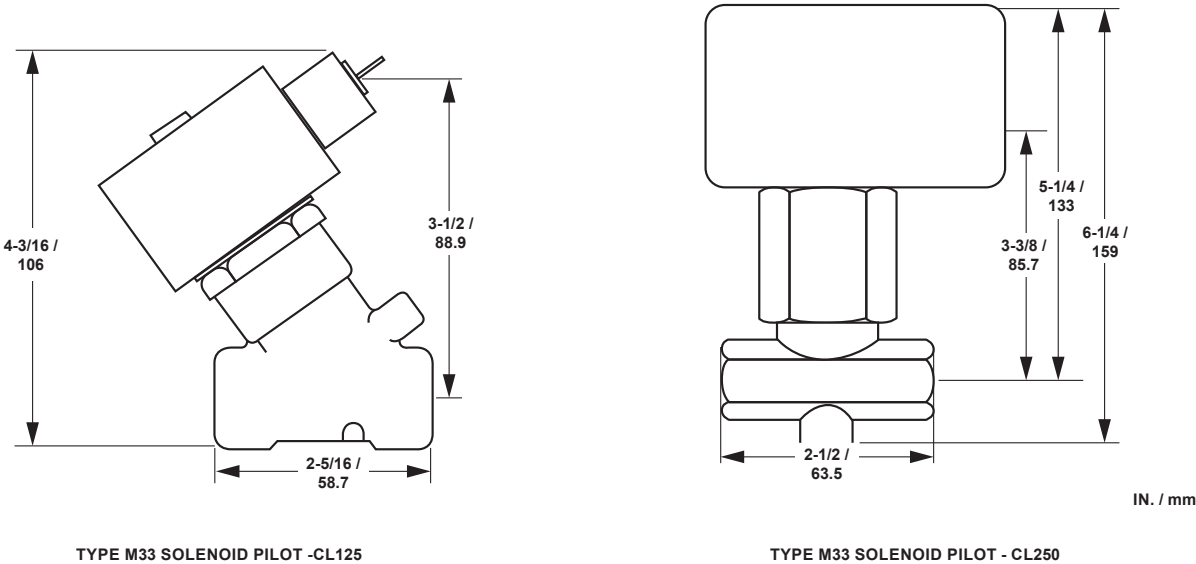


Figure 3. M Series Dimension

M Series

Ordering Information

When ordering, complete the ordering guide on this page. Refer to the Specifications section on page 2.

Review the description to the right of each specification and the information in each referenced table or figure. Specify your choice whenever a selection is offered.

Ordering Guide

Type (Select One)

- Type M24
- Type M25
- Type M26
- Type M27
- Type M32
- Type M32LP
- Type M32HP
- Type M33
- Type M33LP
- Type M33HP
- Type M34
- Type M34LP
- Type M34HP
- Type M35
- Type M35LP
- Type M35HP

 [SpenceValve.com](https://www.SpenceValve.com)

Emerson

Americas

McKinney, Texas 75069 USA
T +1 800 558 5853
+1 972 548 3574

Europe

Bologna 40013, Italy
T +39 051 419 0611

Asia Pacific

Singapore 128461, Singapore
T +65 6777 8211

Middle East and Africa

Dubai, United Arab Emirates
T +971 4 811 8100

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