

CalMate flange connectors provide quick, temporary connections for calibrating gauges or transmitters equipped with sanitary diaphragms. For applications in process or on the bench in the lab, the connector enables devices to be connected in a fraction of the time compared to cumbersome swinging tri-clamp configurations.

When used with the **FasCal** hose solution, connectors can be changed for units of different sizes without the use of tape or sealants and no wrenches.

CalMate™



Applications / Configurations



Gauges

Gauge calibration often is one of the most time consuming tasks faced by a metrology group. The time required to achieve leak tight connections can be reduced when a **CalMate** connector is used, improving metrologist's productivity. Whether the task is in process in a cramped pharmaceutical suite or on a bench in a lab, the connection will be made in seconds.



Transmitters

Calibration connections to sanitary diaphragms on transmitters in the past has been difficult. A swinging tri-clamp configuration is cumbersome to close and lock and in tight quarters difficult to apply. The **CalMate's** click and twist motion quickly locks the connector onto transmitters diaphragm, even in cramped quarters.



Manifolds

The **CalMate** can be mounted on the **FasCal** FF010 manifold. For use in lab environments, the manifold provides a solid platform capable of supporting multiple gauges or transmitters for calibrating up to four gauges at once. Manifolds can be equipped with optional **Fastest** connectors to allow changing sizes or types of connectors efficiently without the use of sealants or wrenches.

Connectorization

Quick Change Hose Assembly

As a component of a family of products, the **CalMate** is compatible with the **FasCal** hose assembly. The hose equipped with **Fastest** connectors attaches to the **CalMate** without the use of wrenches or sealant. Eliminating the use of sealant reduces the possibility of sealant plugging an instrument port. Changing from one size or style of connector to another is completed in a few seconds. The small diameter of the hose minimizes nitrogen usage or if a hand pump is being used, operator fatigue.



CalMate pictured with:

Hose assembly: HP022X036
Quick connectors: MIT-022021

Operational Instructions



Step 1: Retract Collar

Slide collar to open position. This opens the connector locking assembly.



Step 2: Insert Diaphragm & Extend

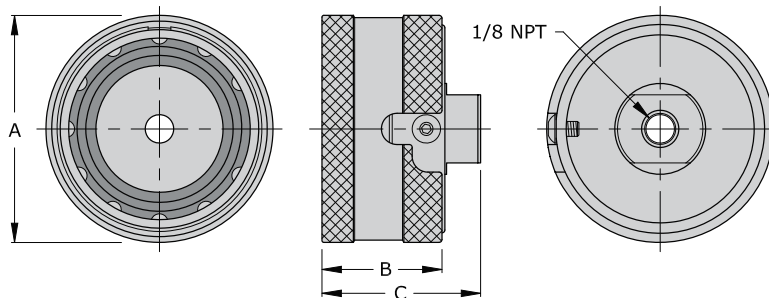
Place the diaphragm of the gauge or transmitter into the connector. Extend collar to the locked position.



Step 3: Twist to Secure

Rotate the collar to secure the connector to the diaphragm. This rotation compresses the diaphragm against the provided gasket and creates a leak tight seal. The rotation allows the connector to adjust for variations in diaphragm flange or gasket thicknesses.

Technical Drawing



Part Number	Connects To	Diameter Dim "A"	Sleeve Length Dim "B"	Length Dim "C"	Rated PSI	Housing Material	Seal Material	Main Seals Package (5)
SA050	1/2" or 3/4"	1.560"	1.200"	1.580"	300	Stainless Steel	Neoprene	SAGB075B
SA100	1" or 1-1/2"	2.500"	1.320"	1.750"				SAGB150B
SA200	2"	3.100"	1.370"	1.800"				SAGB200B