

Supply and Return Manifold Kits

For Gems A & B Series Valves

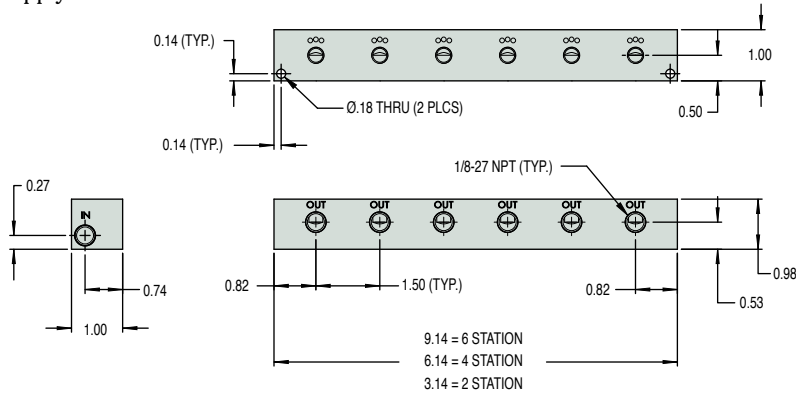
- ▶ 303 Stainless Steel
- ▶ 2-, 4-, and 6-Port Configurations

These 303 stainless steel manifolds can be used with any Gems manifold mount type A Series or B Series valves. Specify the "MM3" Body Port Configuration code when ordering valves to mate with these manifolds. To complete a manifold assembly please order a manifold below and then order the valves separately. You just screw the valves onto the manifold. If needed, a spanner tool for installing the valves is available in the Ordering Table below. Blank plugs to block off unused ports, with a variety of O-ring material options, are also available.

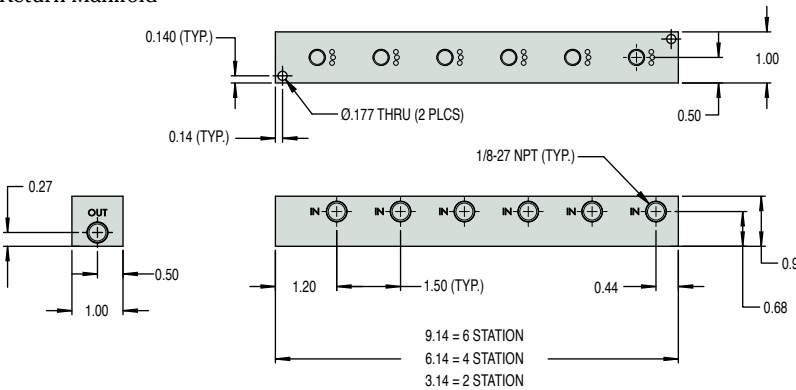
The supply manifold has a common supply inlet and discrete outlets. The return manifold has discrete inlets and one common outlet or return. The inlets connect to the outer holes on the manifold mounted valve while the outlets are connected to the center hole of the manifold mounted valves on both types of manifolds.

Dimensions

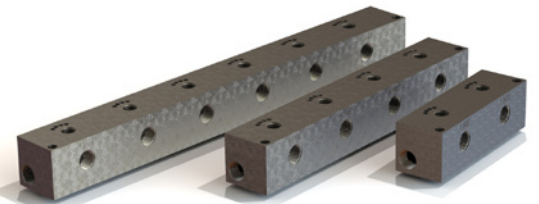
Supply Manifold



Return Manifold



4-Port Return 303 SS manifold. Pictured with Gems manifold mount solenoid valves—sold separately. Select from Gems A Series or B Series for use with these manifolds.



303 SS manifolds are available with either Supply or Return functionality in 2-, 4-, or 6-Port configurations.



Spanner Tool

Manifold Plug

Accessories for 303 SS manifolds include Manifold Plugs, with a variety of O-Ring seal materials, and the Spanner Tool used to install valves and plugs into the manifold.

How To Order

Specify Part Number based on Supply/Return function (valves sold separately).

Valve Capacity	Part Number	
	Supply Manifold	Return Manifold
2 Valve	2AB100	2AB000
4 Valve	4AB100	4AB000
6 Valve	6AB100	6AB000

Ordering Example:

- 1x - M4AB100 (4-Port Supply Manifold)
- 4x - A2016-MM3-C204 (N.C., 1/8" orifice, 100PSI, A Series Valves)
- 1x - MFG-115 (Spanner Tool)

Fluid supply is common to all 4 valves. When any of the four valves is energized (opened) fluid will flow out through its discrete outlet port.

Accessories

Description	Part Number
Spanner Tool (Recommended)	MFG-115

Manifold Plugs – Choose O-Ring Material

Nitrile O-ring	252986-B
EPR O-ring	252986-E
Viton® O-ring	252986-V
Neoprene O-ring	252986-N
Perfluoroelastomer O-ring	252986-P

Manifold Assemblies

Gems Valve Engineers specialize in working with OEMs to design and manufacture integrated valve and manifold assemblies to meet most any fluidic system requirements. Our expert team of field and in-house engineers can deliver AutoCAD® or SolidWorks drawings in days for easy integration into OEM equipment. Whether it is a single or multiple position manifold—made from plastic, aluminum, brass or stainless steel—final systems are delivered completely assembled, tested, and ready for installation into your equipment.

Gems Manifold Assemblies offer features you require, in a compact package, at a competitive price. Integrated manifold assemblies provide:

- Simplified fluidic systems
- Decreased number of potential leak paths
- Reduction in the amount of mounting hardware
- Reduced quantity of fittings and tubing via common passages
- Compact package
- Design opportunity for multiple valve configurations to handle complex and precise flow control
- Reduced labor content required by OEMs
- Easy valve maintenance or replacement

All Gems valve families can be integrated into a manifold system. Contact your Gems Valve Engineer for a manifold assembly that will fulfill all of your application requirements. Contact us at 800-378-1600 or info@gemssensors.com.

Fluidic Systems

Purchasing a complete fluidic system through Gems eliminates the time and effort of multiple purchase orders and reduces receiving, inspection, and coordination of different parts down to a single assembly. Plus, buying from a single source gives OEMs one contact point for design changes, expediting, and warranty questions.

Gems valve engineers and manufacturing have a 50-year history of working with OEMs to develop, design, and manufacture their complex fluidic systems; from simple wiring harnesses and connectors to plug and play sub-assemblies and additional integrated fluidic components.

Designing and purchasing a complete turnkey fluidic system from Gems Sensors & Controls has many advantages.

- Receiving a complete 100% tested system that can be installed directly into your end product
- Reducing the number of suppliers required
- Decreasing the assembly of numerous third-party parts
- Minimizing the number of potential leak-points by eliminating tubing and fittings
- Reducing multiple components into a smaller and simplified final system

Our team of experts can integrate:

- Multiple valve types, including 3rd party manufacturers, into one assembly
- Numerous tube and pipe fittings
- Various electrical terminations
- Sensors/Switches/Gauges:
 - Pressure switch, transducer or gauge
 - Fluid flow sensor
 - Fluid level sensor
 - Temperature switch or transducer
- Inline media filters
- Heaters and thermistors

Contact your Gems Valve Engineer for a fluidic system that will fulfill all of your application requirements. Contact us at 800-378-1600 or info@gemssensors.com.

