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 Technical Standards and Safety Authority  
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## **Attachment B. Scope for Swagelok MPC Modular Platform Components (Category H)**

This document represents the scope of registration for Swagelok’s MPC Modular Platform Components covered by this submission for CRN approval. The MPC Modular Platform Components were designed and evaluated in accordance with ASME B31.1-2018 for unlisted components and ASME B31.3-2018 for unlisted components.

### Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				At 20 to 100°F	At max temperature	
MPC-42T (ball valve)	Body	316 SS (ASTM A351)	ANSI / ISA 76.00.02 compliant interface	1000	1000 @ 150°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
MPC-CH (check valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 300°F	
MPC-M (metering valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 300°F	
MPC-D (needle valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 300°F	
MPC-OG (toggle valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	300	300 @ 200°F	
MPC-T2A (pneumatic shutoff valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	300	300 @ 300°F	
MPC-PSV (pneumatic switching valve)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface	300	300 @ 300°F	
RL3 (relief valve)	Body	316 SS (ASTM A182)	Swagelok Tube Fitting 1/4", 6MM Male NPT 1/4"	300	300 @ 275°F	
R3A (relief valve)	Body	316 SS (ASTM A182)	Swagelok Tube Fitting 1/4", 6MM Male NPT 1/4"	1000	1000 @ 300°F	



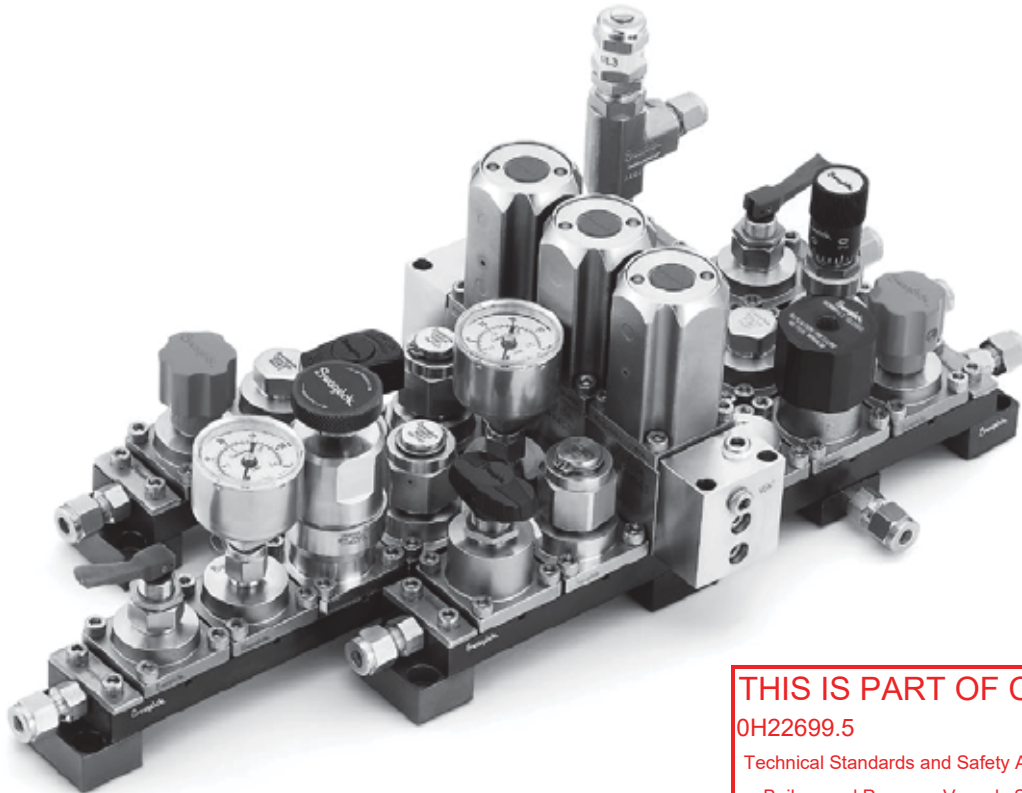
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Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				At 20 to 100°F	At max temperature	
MPC-DP (diaphragm valve)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	250	250 @ 150°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
MPC-DPH (manual high-pressure diaphragm valve)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 150°F	
SSV (stream selector valve)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	250	250 @ 300°F	
MPC-KCP (pressure-reducing regulator)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 176°F	
MPC-KCB (back pressure regulator)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	250	250 @ 176°F	
MPC-TF (filter)	Body	316 SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface	1000	1000 @ 300°F	
MPC-DM (surface mount adapter, substrate cap)	Body	316 SS (ASTM A351)	ANSI/ISA 76.00.02 compliant interface Tube Fitting 1/8", 1/4", 3MM, 6MM Female NPT 1/8", 1/4"	1000	1000 @ 300°F	
MPC-WS (surface mount connector, substrate connector, manifold connector)	Connector	316L SS (ASTM A479)	ANSI/ISA 76.00.02 compliant interface Tube Fitting 1/8", 1/4", 3MM, 6MM	1000	1000 @ 300°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
MPC-MH (mounting screw)	Cap Screw	316 SS (ASTM F837)	N/A	1000	1000 @ 300°F	

## Product Illustration



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## Product Options:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All of the following options are within the scope of this registration:

- Actuator Mode Options
- Valve Seat Material
- Stem Seal Material

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, handle color, etc.

## Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

## References

The product catalog does not represent the full scope of registration, but rather details some of the most common options:

- MPC Manifold Catalog MS-02-185, Rev N

## Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man