

September 11, 2023

TSSA
345 Carlingview Drive
Toronto, ON M9W 6N9

Dear Cecylia Garbacz,

Re: Reciprocal CRN Registration in Manitoba

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, the design reviews conducted and accepted by the Canadian province or territory, or their delegated safety authority, will be mutually recognized in the Province of Manitoba. If a registration is conditionally based on compliance with the notes set by the original issuing Jurisdiction, such compliance shall be applied the same to this Province.

Your submission has been registered, as follows:

File Number: 74-R3465
CRN: 0C16304.54
Scope: RENEWAL OF SERIES K PRESSURE REGULATORS. See the attachment
A and B for scope of registration
Manufacturer: SWAGELOK
Expiry Date: 15 August 2033

Along with this letter is the invoice for registration.

In addition, every Pressure Vessel, Boiler, and Heat Exchanger shall be stamped with the registration number and as required by CSA Code B51, a Manufacturer's Data Report (MDR) must be forwarded to this office immediately at the time a unit is shipped to Manitoba. Send your MDR to gasupport@gov.mb.ca. In your subject line, indicate "*Manufacturer's Data Report-CRN No.*" A fee shall be billed to the Manufacturer to process data reports in accordance with the Steam and Pressure Plants Regulation section 17.1.

Please contact gasupport@gov.mb.ca for any questions or concerns.

Inspection and Technical Services
Labour and Immigration
508 – 401 York Avenue, Winnipeg, MB R3C 0P8
T (204) 945-3373 | F (204) 948-2089

Attachment B. Scope for Swagelok K Series Pressure Regulators (Category C)

Product Scope

This document represents the scope of the K Series Pressure Regulators covered by this submission for CRN approval. The Swagelok K Series Pressure Regulators were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
KPR	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	6000 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Tube Stub 1/4" x .035 VCR Gland no nuts 1/4" VCR rotatable female 1/4" VCR rotatable male 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	
		Brass (UNS C67500 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	
		Alloy 400 (UNS N04400 / ASTM B164) Alloy C-276 (UNS N10276 / ASTM B574)						
KCY	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	6000 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Brass (UNS C67500 / ASTM B138)	Female NPT 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	
		Alloy 400 (UNS N04400 / ASTM B164)						
		Alloy C-276 (UNS N10276 / ASTM B574)						
KCM	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KLF	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	250 psi @ 100 °F	3600 psi @ 392 °F	250 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
KHF	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/2"	3600 psi @ 100 °F	250 psi @ 100 °F	3600 psi @ 392 °F	250 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KCP	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/8"	3600 psi @ 100 °F	1500 psi @ 100 °F	3600 psi @ 392 °F	1500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KPP	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	6000 psi @ 100 °F	3000 psi @ 100 °F	6000 psi @ 392 °F	2975 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KPF	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/2"	6000 psi @ 100 °F	4000 psi @ 100 °F	6000 psi @ 392 °F	4000 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KHP	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	10000 psi @ 100 °F	8000 psi @ 100 °F	10000 psi @ 392 °F	8000 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KHR	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	10000 psi @ 100 °F	8000 psi @ 100 °F	10000 psi @ 212 °F	8000 psi @ 212 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KBP	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4" Tube Stub 1/4" x .035 VCR Gland no nuts 1/4" VCR rotatable female 1/4" VCR rotatable male 1/4"	500 psi @ 100 °F	500 psi @ 100 °F	500 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Brass (UNS C67500 / ASTM B138)	Female NPT 1/4"	500 psi @ 100 °F	500 psi @ 100 °F	500 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Alloy 400 (UNS N04400 / ASTM B164)						
		Alloy C-276 (UNS N10276 / ASTM B574)						<u>ASME B31.3 (Unlisted Components)</u>

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure				Design Code of Construction
				At ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
KFB	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/2"	250 psi @ 100 °F	250 psi @ 100 °F	250 psi @ 392 °F	250 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KCB	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/8"	375 psi @ 100 °F	375 psi @ 100 °F	375 psi @ 392 °F	375 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KPB	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3000 psi @ 100 °F	3000 psi @ 100 °F	2975 psi @ 392 °F	2975 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KHB	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	8000 psi @ 100 °F	8000 psi @ 100 °F	8000 psi @ 212 °F	8000 psi @ 212 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KEV (diaphragm)	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KEV (piston)	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	3000 psi @ 100 °F	3600 psi @ 392 °F	2975 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
KSV	Body	Stainless Steel (UNS S31600 / ASTM A479)	Female NPT 1/4"	3600 psi @ 100 °F	500 psi @ 100 °F	3600 psi @ 392 °F	500 psi @ 392 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Product Illustration



Typical Product Characteristics:

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:

- PCTFE seat material
- PEEK seat material

Some of the product options listed below do not affect the pressure-temperature ratings shown in the Summary Table. All of the following options are within the scope of this registration:

- ASTM G93 Level-E cleaned
- Swagelok SC-11 cleaned
- Handle Type (e.g. knob, thumbwheel, etc)
- Panel Mounting

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2015. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The K Series Pressure Regulators are manufactured at a Swagelok Company locations in Solon, Ohio and Tromode, Isle of Man, British Isles.

References

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

- K Series Pressure Regulator Catalog MS-02-230, Rev Q