

Conformance to Applicable Specifications and Approvals for TFD Products

By Product Type or Subject

Fittings	Specifications	Approvals
Seal-Lok	SAE J1453	DNV - cert. #P-9538 TUV - For CHG fuel cell applications - stainless
Metric Seal-Lok	ISO 8434-3	AGA/CGA - Eng. Report #125-AGA1-85 American Bureau of Shipping (ABS) - cert. # 98-C12949-X
Triple-Lok	SAE J514	Bureau Veritas cert. #2190 1907D00H (steel only)
	MIL-F-18866, MS Sheets	DNV cert. # P-9085/792-22
	MS51500 - MS51534	Germanischer Lloyd cert. # 9672890HH
	BS43687, part 4	U.S. Coast Guard cert.#16703/46 CFR 56.60
Ferulok	ISO 8434-2	U.S.S.R. Register of Shipping cert. #93.017.260
	SAE J514	
	MIL-F-18866 MS Sheets MS51811 - MS51843*	
EO/EO-2	U.S. Coast Guard - meet applicable requirements of ASTM F1387	
	DIN 3861	Germanischer Lloyd Lloyd's Register of Shipping
	ISO 8434-1-4, ISO 8434-4	DNV ABS
		Russian Maritime Register of Shipping China Classification Society
		DVGW
	DIN 3865	TUV
	DIN 3859	
Flange Adapters	SAE J518	
	ISO 6162-1	
	ISO 6162-2	
	ISO 6164	
JIS Adapters*	JIS B8363 (with some exceptions)	
K4 Adapters	BS 5200, ISO 8434-6**	
Pipe Fittings	SAE J514	
Pipe Plugs	SAE J531	
Straight Thread Plugs	SAE J514	
Pipe Swivel Adapters	SAE J514	
All catalog products	Canadian Registration	CRN: OA9941.5

Plating	Specification	
Carbon Steel – Chromium 6 Free Zinc	ASTM B633 Type II FE/ZN8*	*Clear/Silver Color
	MIL-STD-171E	
	JIS 8610 Class 1 Grade 3	
Stainless Steel Passivation	QQ-P35 Type VI	
	ASTM A380	
Carbon Steel – Zinc Phosphate	DOD-P-16232, Class 1	

Design	Specification	Comment
All Products	ASME / ANSI B31.1	All products meet the design factor requirements of this specification.

Test Methods	Specification
Leak, Burst, Impulse, Over-Torque and Repeated Assembly	SAE J1644
	ISO 19879
Vibration	NFPA T3.8.3, ISO 7257

Table U2 — Conformance Standards

* Some parts do not meet dimensional requirements.

Dimensions and pressures for reference only, subject to change.