

K-PORT

Metal Port Seal Technology



The K-Port seal is designed to prevent fluid leakage and/or pressure loss between a fitting (per AS-933; supercedes MS-33656) and a connection port (per AS-5202; supercedes MS-33649).

The K-Port seal design was optimized in house by our expert engineering staff and analyzed through FEA, burst pressure testing and leak testing. It is designed to function under extreme temperatures over a wide pressure range .

The K-Port seal design has been qualified for space flight and is also used in cryogenic and high temperature applications. This seal can be found in various gas, solid and liquid fuel delivery hardware such as nozzles, AN fittings, sensors, instrumentation and valves.

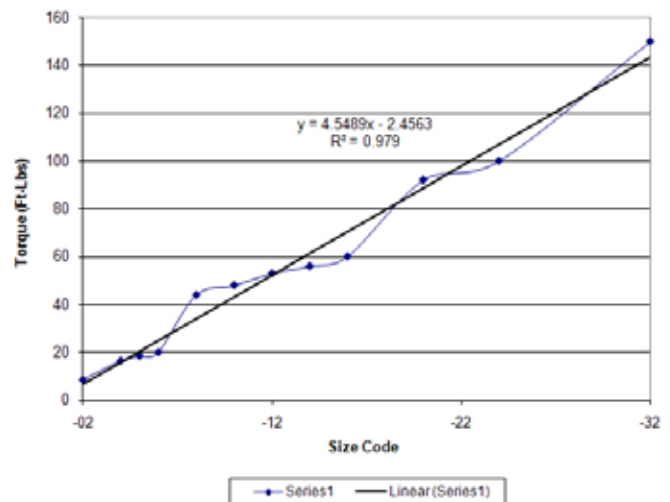
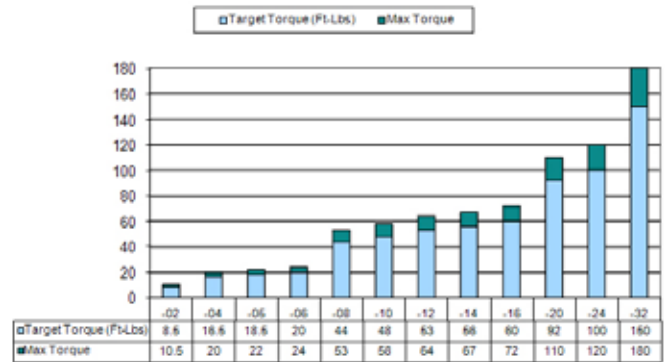
TECHNICAL INFORMATION

Suggested torque for pressure up to 3000 P.S.I. for boss seals manufactured from X-750 or A-286 with Gold Plating at LN2 and Room Temperatures.

These torque values were tested on AS5202/AS933 Control designed hardware machined from SS316.



PORT SEAL TORQUE CHARTS



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Size Code	Seal Dimension Outer Diameter	Seal Dimension Inner Diameter
-02	0.562	0.325
-03	0.625	0.387
-04	0.688	0.451
-05	0.750	0.514
-06	0.812	0.577
-07	0.875	0.640
-08	1.000	0.766
-09	1.062	0.829
-10	1.125	0.893
-11	1.325	1.020
-12	1.403	1.083
-14	1.531	1.208
-16	1.656	1.333
-18	1.844	1.521
-20	1.970	1.645
-24	2.245	1.895
-28	2.656	2.270
-32	2.938	2.521

METAL PORT SEALING TECHNOLOGY



Part Number Prefix	Base Material	Plating/Coating	Temperature Limit	Surface Finish
F-400455-Size Code	SS 304	PTFE	450°F	32 rms or better
F-400617-Size Code	SS 304	Silver	700°F	16 rms or better
F-400521-Size Code	SS 304	Gold	700°F	16 rms or better
F-400623-Size Code	17-4 PH	PTFE	450°F	32 rms or better
F-400456-Size Code	17-4 PH	Gold	900°F	16 rms or better
F-400458-Size Code	A286	PTFE	450°F	32 rms or better
F-400421-Size Code	A286	Gold	1000°F	16 rms or better
F-400616-Size Code	A286	Silver	1400°F	16 rms or better
F-400413-Size Code	Alloy X-750	PTFE	450°F	32 rms or better
F-400440-Size Code	Alloy X-750	Silver	1400°F	16 rms or better
F-400422-Size Code	Alloy X-750	Gold	1400°F	16 rms or better

Size Code is tubing Outer Diameter in sixteenths of an inch