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Technical Data Sheet

TORQUE SETTINGS

Torque guidance for metallic entry device to enclosure

Male Metric Thread (and equivalent thread forms)	Sealing Device O-Ring Torque Nm	Sealing Device Sealing Washer (Nylon/Fibre) Torque Nm	Sealing Device - None
M12	5	25	Joint made up wrench tight
M16	5	25	Joint made up wrench tight
M20	5	25	Joint made up wrench tight
M25	5	45	Joint made up wrench tight
M32	10	45	Joint made up wrench tight
M40	10	50	Joint made up wrench tight
M50	10	70	Joint made up wrench tight
M63	10	110	Joint made up wrench tight
M75	25	200	Joint made up wrench tight
M80	30	250	Joint made up wrench tight
M85	40	250	Joint made up wrench tight
M90	40	250	Joint made up wrench tight
M100 and above	40	250	Joint made up wrench tight

Torque guidance for gland sealing on cables

Peppers do not give a recommendation with regard to torque settings for our cable glands. This is due to how a cable gland operates and because of how different material types behave when torqued.

The cable gland is designed to provide an effective seal around the inner and/or outer sheath of a cable. In order for the cable gland to do this, a compressive force is applied to the internal seal(s) of the gland which then compress onto the cable sheath. This applied force is linear and best measured in the amount of turns needed on the compression component of the gland. This linear measurement is dependent on the pitch of the thread of the compression component. I.e. if the thread pitch is 1.5mm then 1 turn will provide 1.5mm of compressive force to the seal; 2 turns = 3mm etc.

Torque ratings cannot be used as a measure of compressive force on the internal seal of the cable gland. This is due to several factors which include machining tolerances, the surface friction of different materials or the cleanliness of the threads. Peppers provides cable glands in brass, nickel plated brass, zinc plated brass, aluminium, stainless steel and polyamide. All of these materials have differing coefficients of friction, which can also be altered by temperature or the application of a fluid or lubricant to the thread surfaces. These differing factors make it impossible to detail a given torque value for a single size cable gland.

The only true method to guarantee a sufficient compressive force is applied to the cable gland seal is the amount of turns on the compression component of the gland.

Peppers cable glands should be installed as prescribed within our installation instructions. This will ensure that the gland is made off correctly and that the appropriate seals will be maintained between the cable gland and the cable sheath(s).

Should further information or assistance be required please do not hesitate in contacting us.

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