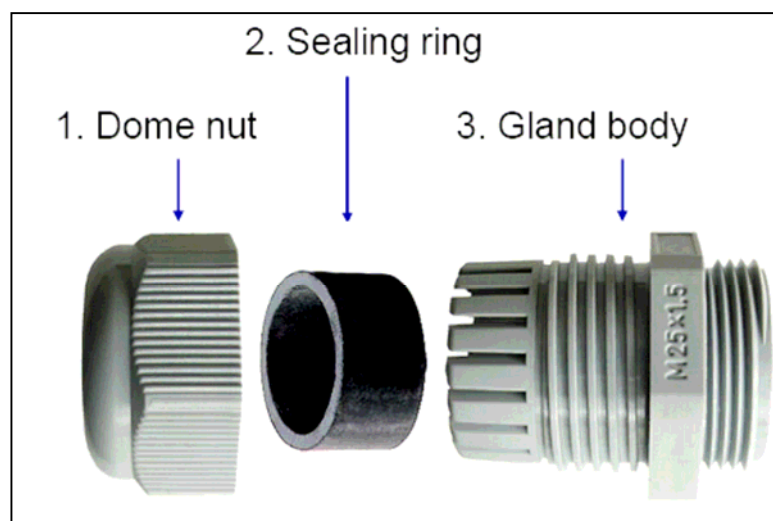


## TECH TALK: 0067

### DIP100 & 110 CABLE GLAND TORQUE SPECS

#### INTRODUCTION

The installation of the glands in the DIP100 and DIP110 has been a factor in the water ingress in these units; this was recently tested. Since, there have been no torque specification in our assembly instructions, this tech talk will address this matter in specifying the torque and installation procedure.



#### BACKGROUND

The cable glands are made of polyamide and have a sealing range of 5mm to 10mm in cable thickness. Its main function is to seal the cable when inserted through the gland and into an assembly. From the manufacturers (Jacob GmbH) technical datasheets on the cable gland, it is IP68 rated (5 bar – 30min) and has a temperature range of  $-20^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ . Installation torque has been specified at 3Nm. This torque is for the gland body and dome nut shown in the above figure.

#### INSTALLATION & ASSEMBLY

The assembly of the DIP100 and DIP110 states that the two glands must have Teflon tape applied before inserting into the base of the unit. One of these glands is actually a blanking plug made from acetal. Liquip has introduced a torque to these glands, specified by the manufacturer. A torque of 3Nm for both the gland body and dome nut, this also applies to the blanking plug. The sealing ring must be seated properly in the gland body for the cable gland to seal. Therefore, care must be taken when tightening the dome nut and ensuring the sealing ring is not distorted. Since, the manufacturer has tested these glands to IP68, the torque specs must be adhered to in order to prevent water ingress.