

Straight Connector & End cap **(10mm,12mm,16mm)**



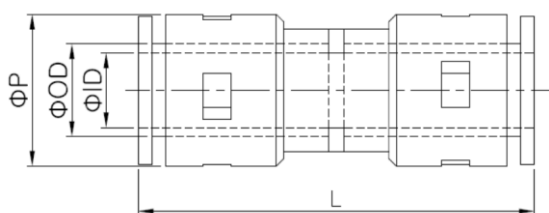
1. Description

The connectors & end caps shall have the necessary sealing arrangement to operate safely at blowing pressures of 16 bar and protect the inner cavity against significant ingress of mud, sand and debris.

The connector and end caps must be able to be assembled and disassembled without the use of tools.

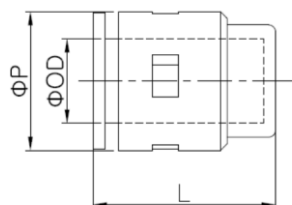
2. Configuration and Technical Details

1) Straight connector



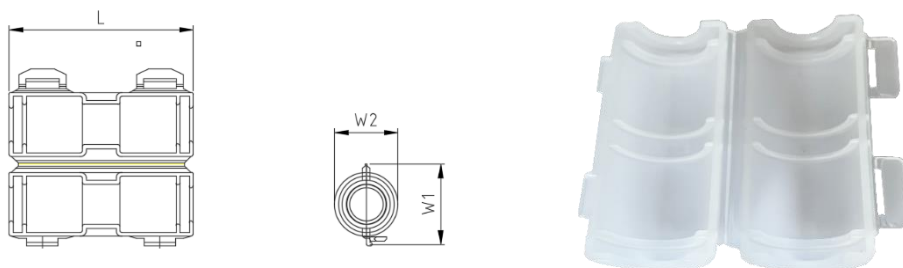
Product	Ø OD (mm)	Ø ID (mm)	Ø P (mm)	L (mm)	Weight (g)
10/6mm	10.0	6.2	17	47	6.2
12/10mm	12.0	10.2	19	49	7.6
16/12mm	16.0	12.2	24.9	55.7	14.2

2) End cap



Product	Ø OD (mm)	Ø P (mm)	L (mm)	Weight (g)
10mm	10.0	17	21.3	3.0
12mm	12.0	19	24.5	4.0
16mm	16.0	24.9	26.5	6.0

3) Connector Cover



Product	Ø OD (mm)	Ø ID (mm)	L (mm)	Weight (g)
Cover 10mm	27	21.4	50	4.65
Cover 12mm	29.6	23.2	54	6.67
Cover 16mm	37	30	65	11.7

4) Material

Body	Collet	Rubber Ring	Crip Ring
Polycarbonate	Polyacetal	NBR	Stainless steel

3. Performance Test

The connectors and end caps shall withstand the following mechanical and environmental tests at ambient temperature 20°C:

1) Burst pressure

The connectors & end caps shall seal at internal pressures up to 30bar without sustaining damage, or permanent deformation, and shall remain connected to the duct.(BT MA 321) Pressure shall be increased up to failure of the connector or duct. The pressure of failure shall be recorded.

Pressure on connectors & end caps are steadily increasing with a hydraulic water pressure and record the maximum pressure before destruction.

2) Retention Force

The retention force shall be over 250N. According to IEC 60794-1-2 Method E1, the test shall be conducted at the speed of extension 25mm/min at the temperature of 23°C.

3) Water Ingress

This test shall be conducted with the connector at atmospheric pressure and prior to any pressurization of the connector. The connector shall seal against the ingress of water, under a pressure of 620 mbar head of water, no leaks shall occur over a period of 24 hours.

4) Installation and Removal

The installation and removal of the tube from the connector shall not require the use of a tool or sealing agent.

5) Temperature

Transport/storage : -10°C up to 50°C

During installation : -10°C up to 50°C

In operation : -10°C up to 50°C



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