

PTFE ENCAPSULATED (ENCAP) END FITTINGS



Loose BSPP Fixed Male Encap Fitting
and a standard, non-lined Ferrule

Swivel Flange Encap Fitting Crimped
on to Corroline Hose

Introduction

In response to requests from Customers who self-assemble Aflex Hose products, Aflex have developed a basic range of PTFE encapsulated end fittings.

These can be used in place of standard non-lined end fittings to provide a PTFE lined alternative, without the need to assemble and flare an Integral PTFE Lined end fitting.

Encap fittings do not provide the same advantages as Integral Lined fittings, namely the full hose bore size through the fitting, and no internal entrapment areas.

Encap fittings do, however, provide a fully PTFE lined fitting with a flared face which is easier to assemble. Also, the Aflex Encap fitting design has a significantly larger bore than the conventional PFA encapsulated fittings available from other suppliers.

Construction and Application

Encap Fittings are assembled and crimped using the same non-lined ferrules, crimp diameters and assembly procedures that are used with standard non-lined fittings, on all the Aflex PTFE hose product range.

The PTFE encapsulation is either natural or antistatic PTFE as required, with a PTFE wall thickness of 1.5mm (0.060") for sizes up to 1½", and 1.8mm (0.070") for sizes 2" and above.

Important Note: The use of Encap fittings with hoses, ferrules or other components which are not all supplied by Aflex Hose is strictly prohibited, and no liability will be accepted for any failures which result from such abuse.

PTFE ENCAPSULATED (ENCAP) END FITTINGS

| Hose and Fitting Size | Bore Through Fitting (all Types) | | PART NUMBERS | | | | | | | |
|-----------------------|----------------------------------|--------------------|---|------------|--|-------------------|-----------------------------------|-----------------------------------|------------------------------|--|
| | | | Swivelling Flange Spigots Only (Flanges not included) | | Swivelling Locking Arm Cam & Groove Female | Cam & Groove Male | *BSPP Thread Flat Face Fixed Male | *NPSM Thread Flat Face Fixed Male | BSPP Flat Face Swivel Female | |
| | DIN PN 10/16/40 | ANSI Class 150/300 | | | | | | | | |
| | mms | ins | 05-286- | 05-214- | 14-259- | 15-315- | 06-145- | 06-186- | 07-550- | |
| 1/2 | 7.00 | 0.27 | 08-08-01 S | 08-08-01 S | N/A | N/A | 08-08-01 | 08-08-01 | 08-08-01 | |
| 3/4 | 13.34 | 0.53 | 12-12-01 S | 12-12-01 S | 12-12-01 | 12-12-01 | 12-12-01 | 12-12-01 | 12-12-01 | |
| 1 | 16.94 | 0.67 | 16-16-01 | 16-16-01 | 16-16-01 | 16-16-01 | 16-16-01 | 16-16-01 | 16-16-01 | |
| 1 1/4 | 22.91 | 0.90 | 20-20-01 S | 20-20-01 | 20-20-01 S | 20-20-01 S | 20-20-01 S | 20-20-01 S | 20-20-01 S | |
| 1 1/2 | 28.45 | 1.12 | 24-24-01 | 24-24-01 | 24-24-01 | 24-24-01 | 24-24-01 | 24-24-01 | 24-24-01 | |
| 2 | 41.15 | 1.62 | 32-32-01 | 32-32-01 | 32-32-01 | 32-32-01 | 32-32-01 | 32-32-01 | 32-32-01 | |
| 3 | 63.40 | 2.50 | 48-48-01 S | 48-48-01 | 48-48-01 S | 48-48-01 S | 48-48-01 S | 48-48-01 S | 48-48-01 S | |
| 4 | 86.00 | 3.40 | 64-64-01 S | 64-64-01 S | N/A | N/A | 64-64-01 S | 64-64-01 S | 64-64-01 S | |

Codes

N/A Not Available

Items in Green are lined with a Machined PTFE Liner

Items in Pink are lined with PTFE tube, flared out to form the sealing face. (This design is more economical than a machined liner, and has a different appearance).

S and S These end fittings can be supplied to the Encap design, but only as "Specials" (=Specially made to order, as Non-Stock Items).

Other Fittings not listed here which are also available as "Specials" include all those non-lined end fittings listed for any product in the Aflex Hose Product Literature.

* = These parallel male threaded end fittings can only be used where the connecting component forms a seal against the PTFE sealing face. Connections to a BSP Taper Female Fitting, or a "Bonded Washer" type connection are therefore not acceptable.

Other Dimensions

Other dimensions for Encap fittings are as listed for the Non-Lined Fittings in the relevant Full Product Brochure on the Aflex Hose website. The Encap Flange flare diameters are in accordance with Specification requirements.

Performance Testing

Rigorous test programs have been applied to ensure that the Encap Fitting Design performs satisfactorily.

These Tests include:

- Burst Pressure Testing (Before and after Heat Cycling)
- Helium Diffusion Pressure Testing (Before and after Heat Cycling)
- "Rolling U" Continuous Flex Testing
- Various other tests

In every test, the hose assemblies with Encap fittings performed as well as those with standard, non-lined fittings.

Properties

The temperature and pressure properties and all the other properties are as listed for the relevant hose and non-lined end fitting in the Full Product Brochures available on the Aflex Hose website.

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