

# Aignep Universal Compression Fittings

## Description

The working pressures and working temperatures depend on which type of tube is used. For this reason, the values must be determined in accordance with the tube's features. The values below are the maximum pressures advised for the fittings at a temperature of 20°C connected to copper tube, which has a thickness of 1 mm. Working pressures stated have been obtained from a test using a Safety Factor 4.

## Threads

Tapered gas in conformity with ISO 7.1, BS 21, DIN 2999.

Parallel gas in conformity with ISO 228.

Metric in conformity with ISO R/262.

## Fluids

Water, oils, compressed air, fluids in general for the hydraulic, pneumatic and oil dynamic plants, etc.

## Connection Tubes

Tubes made in copper, steel, iron, aluminium, brass, etc. With an inside support bush, may also be used for plastic material, such as Riisan PA 11, nylon PA 6, etc.

### MAX. PRESSURE ADVISED

Ø 4	150 kg/cm <sup>3</sup>	148.4 bar	Ø 14	100 kg/cm <sup>3</sup>	99.0 bar
Ø 6	150 kg/cm <sup>3</sup>	148.4 bar	Ø 15	95 kg/cm <sup>3</sup>	94.0 bar
Ø 8	135 kg/cm <sup>3</sup>	133.6 bar	Ø 16	95 kg/cm <sup>3</sup>	94.0 bar
Ø 10	95 kg/cm <sup>3</sup>	94.0 bar	Ø 18	70 kg/cm <sup>3</sup>	69.3 bar
Ø 12	75 kg/cm <sup>3</sup>	74.2 bar	Ø 22	70 kg/cm <sup>3</sup>	69.3 bar

## ASSEMBLY INSTRUCTIONS

To ensure the best results using these fittings, please follow the instructions listed.

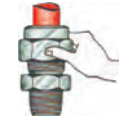
1. Cut the tube at 90° & remove internal & external burrs.



2. Lightly oil the tube nut, olive & fitting thread. Slide the nut & olive onto the tube, ensuring that the sharp side of the olive is facing the fitting.



3. Screw the nut onto the fitting by hand until hand-tight.



4. Ensure that the tube is pushed fully home into the fitting before tightening the nut with the correct spanner.



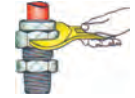
5. Tighten nut with the spanner one & a quarter turns, marking reference points if necessary.



6. To ensure that the olive has gripped the tube correctly, unscrew the nut & make sure that the groove made by the olive is even.



7. Tighten the nut again with an extra quarter turn. When fitting to curved tubes, ensure that the section entering the fitting is straight for a minimum length of twice the nut height.



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## STRAIGHT ADAPTOR BSPP FEMALE

PART NUMBER	TUBE OD	THREAD
A13500-0418	4 mm	1/8" BSPP
A13500-0414	4 mm	1/4" BSPP
A13500-0618	6 mm	1/8" BSPP
A13500-0614	6 mm	1/4" BSPP
A13500-0818	8 mm	1/8" BSPP
A13500-0814	8 mm	1/4" BSPP
A13500-0838	8 mm	3/8" BSPP
A13500-1014	10 mm	1/4" BSPP
A13500-1038	10 mm	3/8" BSPP
A13500-1012	10 mm	1/2" BSPP
A13500-1214	12 mm	1/4" BSPP
A13500-1238	12 mm	3/8" BSPP
A13500-1212	12 mm	1/2" BSPP
A13500-1438	14 mm	3/8" BSPP
A13500-1412	14 mm	1/2" BSPP
A13500-1512	15 mm	1/2" BSPP
A13500-1612	16 mm	1/2" BSPP
A13500-1634	16 mm	3/4" BSPP
A13500-1812	18 mm	1/2" BSPP
A13500-1834	18 mm	3/4" BSPP
A13500-2234	22 mm	3/4" BSPP



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## STRAIGHT ADAPTOR BSPT MALE

PART NUMBER	TUBE OD	THREAD
A13480-0418	4 mm	1/8" BSPT
A13480-0414	4 mm	1/4" BSPT
A13480-0618	6 mm	1/8" BSPT
A13480-0614	6 mm	1/4" BSPT
A13480-0638	6 mm	3/8" BSPT
A13480-0818	8 mm	1/8" BSPT
A13480-0814	8 mm	1/4" BSPT
A13480-0838	8 mm	3/8" BSPT
A13480-1014	10 mm	1/4" BSPT
A13480-1038	10 mm	3/8" BSPT
A13480-1012	10 mm	1/2" BSPT
A13480-1214	12 mm	1/4" BSPT
A13480-1238	12 mm	3/8" BSPT
A13480-1212	12 mm	1/2" BSPT
A13480-1438	14 mm	3/8" BSPT
A13480-1412	14 mm	1/2" BSPT
A13480-1512	15 mm	1/2" BSPT
A13480-1612	16 mm	1/2" BSPT
A13480-1634	16 mm	3/4" BSPT
A13480-1812	18 mm	1/2" BSPT
A13480-1834	18 mm	3/4" BSPT
A13480-2212	22 mm	1/2" BSPT
A13480-2234	22 mm	3/4" BSPT