

Diving- Umbilical Hose Fittings



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Umbilicals International (UI) strongly recommends that the fittings on any diving umbilical be swaged/cripped onto the umbilical hose. Reusable fittings can be used for test purposes, however in operational situations the use of reusable fittings is not recommended or supported by UI.

UI manufactures an extensive range of fittings for use on diving hoses. These fittings include, but are not limited to, JIC, OXY and NPT. Below are tables that show a selection of the fittings that are available for the different hoses manufactured by UI.



Standard Hose Fittings Index

Fitting Type			Fitting Size					Gender		Material		
JIC	OXY (O2)	NPT	1/4"	3/8"	1/2"	5/8"	3/4"	Female	Male	Brass	Phosphor Bronze	Stainless Steel
J	X	N	04	06	08	10	12	F	M	B	PB	SS

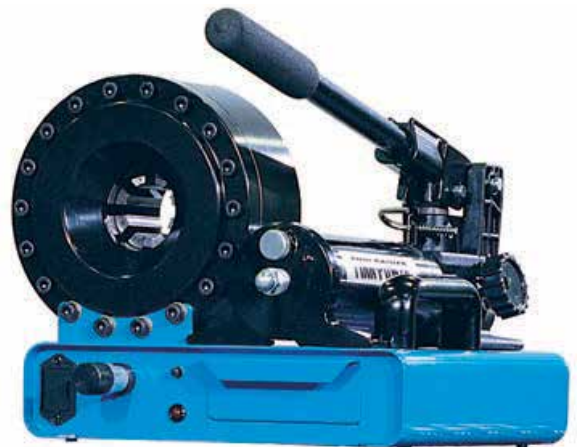
Example: J-04-F-SS = JIC 1/4" Female Stainless Steel Fitting

In addition to these hose fittings, we can offer numerous other fittings such as BSP, Adapters, Couplers, NPT, Quick Disconnects and Crow's Foot.

Portable Crimper

UI also offers portable crimping machines that are designed for field service when repairs must be made on-site. UI's service machines are simple and straight forward in construction, easy to operate, and highly reliable.

The very light weight of UI's service machines allows portable units to be easily carried to any location.





Hose Fitting Swage Dimensions

The swage down dimensions (SDD) shown below are a guide only. At all times, unless noted, the hose fitting should be tested with a "Bore Gauge" to confirm the correct collapse of the Ferrule.

Hose Size	Hose Fitting	Hose Part No.	Fitting Part No.	Bore Gauge Size	Swage Die Size	Swage Down Dimension
1/4"	O2	HDA0104	FXFSB10604	0.152"	12mm	14.70mm
1/4"	-4JIC	HDA0104	FJFSB10404	0.152"	12mm	14.50mm
1/4"	-4JIC	HDA0104	FJFSS10404	0.152"	12mm	16.20mm
1/4"	-4JIC	HDF0304	FJFSS10404	0.152"	12mm	15.50mm
1/4"	-4JIC	HDF0404	FJFSP30404	0.152"	12mm	14.30mm
3/8"	O2	HDA0106	FXFSP20606	0.298"	19mm	18.90mm
3/8"	-6JIC	HDA0106	FJFSP20606	0.298"	19mm	18.90mm
3/8"	-6JIC	HDA0106	FJFSS10606	0.298"	19mm	19.10mm
3/8"	-6JIC	HDF0306	FJFSP20606	0.298"	19mm	18.80mm
3/8"	-6JIC	HDF0306	FJFSS10606	0.298"	19mm	19.30mm
3/8"	-6JIC	HDT0106	FJFSS10606	0.298"	19mm	19.50mm
1/2"	-8JIC	HDA1108	FJFSS20808	See Note 1.	19mm	22.60mm
1/2"	-8JIC	HDF0308	FJFSS10808	0.371"	23mm	25.80mm
1/2"	-8JIC	HDF0308	FJFSP30808	0.371"	23mm	25.60mm
1/2"	-8JIC	HDT0108	FJFSS10808	0.371"	23mm	25.80mm
5/8"	-10JIC	HDR0210	FJFSS11010	0.486"	27mm	29.00mm
3/4"	-12JIC	HDF0312	FJFSS21212	0.580"	31mm	33.30mm
3/4"	-12JIC	HDF0312	FJFSP31212	0.580"	31mm	31.50mm
3/4"	-12JIC	HDF1312	FJFSS21212	0.580"	31mm	33.30mm
3/4"	-12JIC	HDF1312	FJFSP31212	0.580"	31mm	31.80mm
3/4"	-12JIC	HDR0112	FJFSS31212	0.580"	31mm	34.10mm
3/4"	-12JIC	HDR0112	FJFSP41212	0.580"	31mm	34.00mm

Notes:

1. Due to the core tube material used in this hose it is not possible to measure a successful swage based on the Ferrule collapse, therefore it is necessary to perform the swage based only on the "Swage Down Dimension".

2. All hoses must be pressure tested following swaging.