

## Diving - Hose Fittings

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 barbed or reusable hose fittings is not recommended for life support applications nor are they 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.



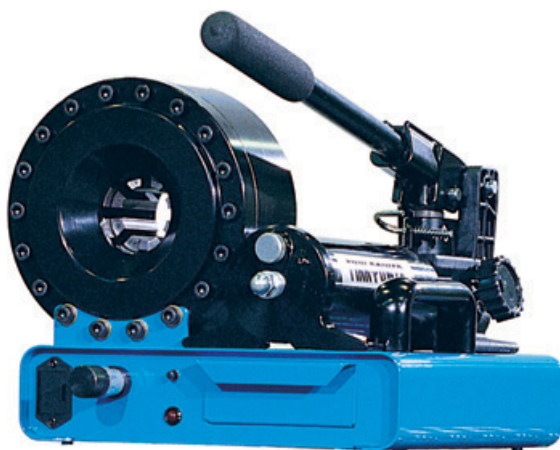
### Standard Hose Fittings Index

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.

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## 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 (IN)	Fitting	Hose P/N	Fitting P/N	TYPE	Spigot ID (mm) Ref. only	Crimp Die Size (mm)	Swage Down Dimension (SDD) (mm)	SDD Min (mm)
1/4	-4JIC	HDA0104	FJFSB10404	PH/BRONZE	4.70	12	13.13	13.00
1/4	-4JIC	HDA0104	FJFSS10404	STAINLESS	4.09	14	16.41	16.28
1/4	-4NPT	HDA0104	FNMS10404	STAINLESS	4.01	14	16.46	16.33
1/4	-4JIC	HDF0304	FJFSS10404	STAINLESS	4.09	14	16.21	16.08
1/4	-4JIC	HDF0404	FJFSP30404	PH/BRONZE	3.68	14	14.86	14.73
3/8	-6OXY	HDA0106	FXFSP20606	PH/BRONZE	7.11	17	19.48	19.35
3/8	-6JIC	HDA0106	FJFSP20606	PH/BRONZE	7.11	17	19.48	19.35
3/8	-6JIC	HDA0106	FJFSS10606	STAINLESS	6.99	17	20.76	20.63
3/8	-4NPT	HDA0106	FNMS10406	SS/STEP DOWN	7.04	20	22.50	22.37
3/8	-6JIC	HDF0306	FJFSP30606	PH/BRONZE	7.24	20	20.32	20.19
3/8	-6JIC	HDF0306	FJFSS30606	STAINLESS	7.09	20	22.10	21.97
3/8	-6JIC	HDF0306	FJFSP40606	PH/BRONZE	7.11	20	20.88	20.75
3/8	-6JIC	HDT0106	FJFSS30606	STAINLESS	7.09	20	22.37	22.24
1/2	-8JIC	HDA1108	FJFSS20808	STAINLESS	9.27	20	23.07	22.95
1/2	-8JIC	HDF0308	FJFSS10808	STAINLESS	9.27	24	28.59	28.47
1/2	-8JIC	HDF0308	FJFSP30808	PH/BRONZE	9.91	24	25.67	25.55
1/2	-8JIC	HDF1308	FJFSS10808	STAINLESS	9.27	24	28.59	28.47
1/2	-8JIC	HDF1308	FJFSP30808	PH/BRONZE	9.91	24	25.67	25.55
1/2	-8JIC	HDR0208	FJFSS20808	STAINLESS	9.27	20	22.42	22.29
1/2	-8JIC	HDT0108	FJFSS10808	STAINLESS	9.27	24	28.47	28.34
5/8	-10JIC	HDF0310	FJFSP31010	PH/BRONZE	11.18	28	30.40	30.28
5/8	-10JIC	HDR0210	FJFSS11010	STAINLESS	12.52	28	30.51	30.39
5/8	-10JIC	HDR0210	FJFSS10810	SS/STEP DOWN	12.52	28	30.25	30.12
3/4	-12JIC	HDF0312	FJFSS21212	STAINLESS	14.43	32	36.73	36.60
3/4	-12JIC	HDF0312	FJFSP31212	PH/BRONZE	13.72	28	31.37	31.24
3/4	-12JIC	HDF1312	FJFSS21212	STAINLESS	14.43	32	36.73	36.60
3/4	-12JIC	HDF1312	FJFSP31212	PH/BRONZE	13.72	28	31.37	31.24
3/4	-12JIC	HDR0112	FJFSS31212	STAINLESS	14.55	32	36.33	36.20
3/4	-12JIC	HDR0112	FJFSP41212	PH/BRONZE	13.72	32	34.80	34.67