



NOVASUB

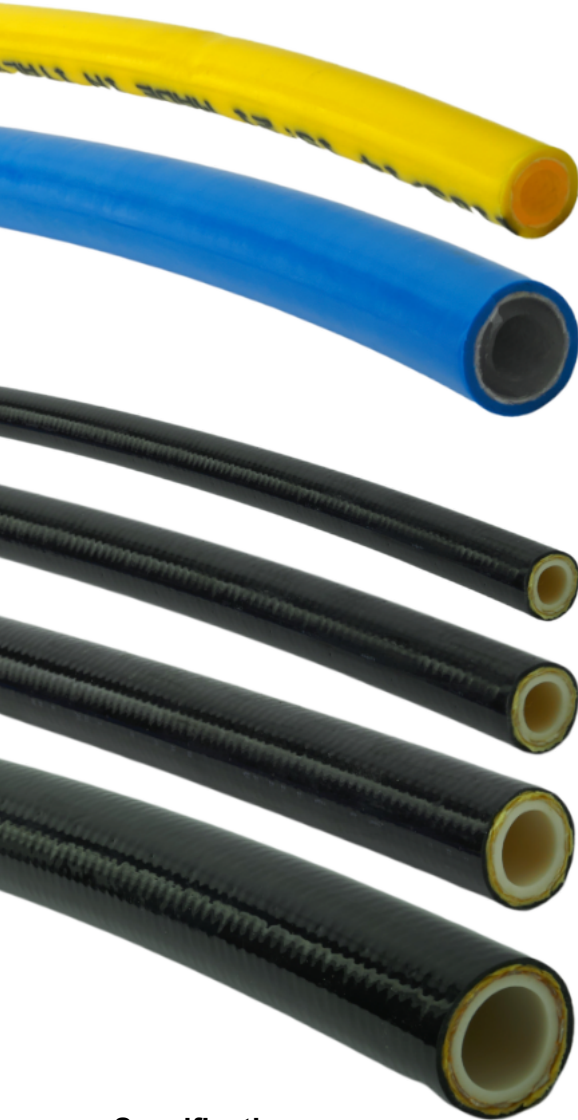
BREATHING HOSES

Hoses & Hose couplings

HOSES Breathing Air Hoses

NOVASUB proudly offers a diverse range of low-pressure and high-pressure breathing air hoses designed specifically to supply divers with a reliable source of air. Our hoses feature a durable outer sheath made from hydrolysis and UV resistant PUR material, ensuring optimal performance and longevity. Additionally, they are reinforced with high-strength fibers for added durability and safety.

For low-pressure applications (up to 35 bar working pressure), we provide two sizes and colors of hoses, offering lengths of up to 500 meters. As for high-pressure applications, we offer hoses in four sizes, capable of reaching lengths of up to 100 meters.



Low Pressure

1ND14

A yellow polyurethane hose with a bore of 1/4" that is mainly used for the pneumo hose of an umbilical. The hose is reinforced with a high tensile fibre braid. The hose has a working pressure of 35 bar.

1ND38

A blue polyurethane hose with a bore of 3/8" that is mainly used for the diver air hose of an umbilical. The hose is reinforced with a high tensile fibre braid and has an extra thick outer layer to protect the air supply from cuts and kinks. The hose has a working pressure of 35 bar.

High Pressure

HP-BHOSE-3/16

A black polyurethane hose with a bore of 3/16". The hose is reinforced with a high tensile fibre braid . The hose has a working pressure of 410 bar.

HP-BHOSE-1/4

A black polyurethane hose with a bore of 1/4". The hose is reinforced with a high tensile fibre braid . The hose has a working pressure of 410 bar.

HP-BHOSE-3/8

A black polyurethane hose with a bore of 3/8". The hose is reinforced with a high tensile fibre braid . The hose has a working pressure of 280 bar.

HP-BHOSE-1/2

A black polyurethane hose with a bore of 1/2". The hose is reinforced with a high tensile fibre braid . The hose has a working pressure of 245 bar.

Specifications

SKU	Low Pressure		High Pressure			
	1ND14	1ND38	HP-BHOSE-3/16	HP-BHOSE-1/4	HP-BHOSE-3/8	HP-BHOSE-1/2
Hose Size	1/4"	3/8"	3/16"	1/4"	3/8"	1/2"
Internal Diameter (mm)	6,4	9,1	4,8	6,4	9,7	13,0
External Diameter (mm)	12,5	18,5	10,5	12,7	16,0	20,3
Working Pressure (bar)	35 bar		410 bar		280 bar	245 bar
Burst Pressure (bar)	172	276	1640 bar		1120 bar	980 bar
Minimum Bending radius (mm)	82	121	35	50	70	95
Color	Yellow	Blue	Black			
Weight (g/m)	100	228	80	100	149	225
Weight in Fresh water (g/m)	-23	-41	-7	-27	-52	-74
Weight in Salt water (g/m)	-26	-48	-9	-29	-57	-82
Working Temperature	-40 to +60°C		-40 to +80°C			
Length	up to 500m		up to 100m			

HOSES Hose Fittings

NOVASUB offers an extensive selection of hose fittings that can be expertly pressed onto a hose by our team or by you. These fittings are carefully chosen to ensure compatibility with the air hoses available from Novasub. They are available in JIC or compression fitting sizes. Our couplings are constructed from durable materials such as stainless steel or phosphor bronze, both of which exhibit excellent resistance to seawater corrosion.

The phosphor bronze fittings have an additional advantage as they eliminate the risk of cold welding when attached to a stainless steel counterpart, ensuring easy disassembly if required. This versatility combined with their exceptional durability guarantees optimal performance and long-lasting functionality. The couplings consist of both the spigot and the ferrule to ensure a perfect compatibility.



Coupling selection table

You can use the table below to select which coupling can be used on which hose:

Material →	Stainless Steel					Phosphor Bronze	
Hose	JIC04	JIC06	08L	12L	15L	JIC04	JIC06
1ND14	JIC04FSS1/4					JIC04FPB1/4-UMB	
1ND38		JIC06FSS3/8-UMB					JIC06FPB3/8-UMB
HP-BHOSE-3/16	JIC04FSS3/16						
HP-BHOSE-1/4	JIC04FSS1/4		08LFSS1/4				
HP-BHOSE-3/8		JIC06FSS3/8		12LFSS3/8			
HP-BHOSE-1/2					15LFSS1/2		

Test Certificate & Safety Cord



Test Certificate

Every high-pressure hose fitted with couplings by Novasub undergoes a rigorous hydrostatic pressure test to ensure proper coupling attachment and guarantee the highest quality standards. Additionally, each hose is assigned a unique identifying number and is accompanied by a corresponding test certificate, providing traceability and assurance of its performance.

Optional Safety Cord

In addition, the ends of the hoses can be equipped with a stainless steel wire for added safety. This safety cord serves as a preventive measure to ensure that even in the event of a loosened fitting, the hose remains securely in place, minimizing the risk of injury to individuals or damage to its surroundings.



JIC06FPB38-UMB pressed onto a 1ND38 hose



JIC04FPB14-UMB pressed onto a 1ND14 hose



08LFSS14



12LFSS38



15LFSS12



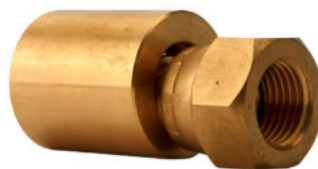
JIC04FSS14



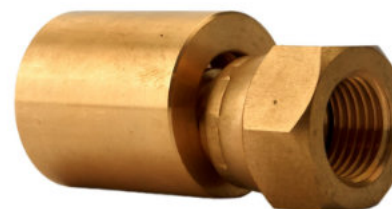
JIC04FSS316



JIC06FSS38



JIC04FPB14-UMB



JIC06FPB38-UMB



JIC06FSS38-UMB

Specifications

SKU	08LFSS1/4	12LFSS3/8	15LFSS1/2	JIC04FSS3/16	JIC04FSS1/4	JIC06FSS3/8	JIC06FSS3/8-UMB	JIC04FPB1/4-UMB	JIC06FPB3/8-UMB
Hose ID	1/4"	3/8"	1/2"	3/16"	1/4"	3/8"	3/8"	1/4"	3/8"
Hose max. OD (mm)	13,1	17,2	21,5	11,0	13,1	17,2	18,4	13,2	19,1
Connection	24° Cone 08L	24° Cone 12L	24° Cone 15L	JIC04 7/16-20 UNF	JIC04 7/16-20 UNF	JIC06 9/16-18 UNF	JIC06 9/16-18 UNF	JIC04 7/16-20 UNF	JIC06 9/16-18 UNF
Working Pressure	400 bar						30 bar		
Total Length (mm)	55	56	59	46	54	58	57	51	56
Ferrule Length (mm)	35	35	37	27	35	35	31	28	29
Weight (g)	57g	90g	119g	37g	55g	76g	99g	52g	92g
Material	Stainless Steel						Phosphor Bronze		

NOVASUB Available products that can be used in combination with Hoses :

HPREG2000

FLEETER

BOREAS



REDUCER



CABLE FLEETER



DIVING AIR
Cases & Panels