

Fibroflex high-pressure hoses - sheet 1

Fibroflex is a range of highly flexible, braided, high-pressure diving hoses for use in main bell, wet bell and excursion umbilicals. These hoses are specifically designed to withstand the rigours of everyday use in a hyperbaric dive system. Services include gas and hot water supply, gas reclaim, and pneumo-monitoring hoses.

All common hose sizes in the Fibroflex range are Lloyds Register of Shipping (LRS) & Det Norske Veritas (DNV) approved.

Fibroflex gas and hot water hoses, plus wire armoured and lightweight reclaim hoses for mixed gas (saturation) diving allocations, can only be fitted with phosphor bronze swageable type hose ends.

Hose type		Hot water hose specification						
Specification number		FDH 03H**	FDH 04H**	FDH 06H	FDH08H ^{L, DNV}	FDH 10H	FDH 12H ^{L, DNV}	FDH 16H
Hose dash size		-03	-04	-06	-08	-10	-12	-16
Max. working pressure	psi/bar	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69
Min. burst pressure	psi/bar	6,000/414	8,000/552	8,000/552	8,000/552	8,000/552	8,000/552	8,000/552
Nominal bore	in/mm	3/16" / 4.76	1/4" / 6.35	3/8" / 9.53	1/2" / 12.70	5/8" / 15.80	3/4" / 19.00	1" / 25.40
Outside diameter	mm	9.70	11.90	18.25	22.70	27.10	32.05	39.40
Weight in air: hose/hose full of water	kg/km	62/80	93/125	203/274	304/431	414/610	550/834	738/1,245
Weight in seawater (hose full of water)	kg/km	4	11	6	10	19	6	-6
Min. bend radius	mm	100	120	180	230	270	320	395
Standard colour		Red	Red	Red	Red	Red	Red	Red

Hose type		Gas hose specification						
Specification number		FDH 03G	FDH 04P ^{DNV}	FDH 06G ^{DNV}	FDH08G ^{DNV}	FDH 10G ^{DNV}	FDH 12G ^{DNV}	FDH 16G
Hose dash size		-03	-04	-06	-08	-10	-12	-16
Max. working pressure	psi/bar	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69	1,000/69
Min. burst pressure	psi/bar	6,000/414	8,000/552	8,000/552	8,000/552	8,000/552	8,000/552	8,000/552
Nominal bore	in/mm	3/16" / 4.76	1/4" / 6.35	3/8" / 9.53	1/2" / 12.70	5/8" / 15.80	3/4" / 19.00	1" / 25.40
Outside diameter	mm	9.70	11.90	18.25	22.70	27.10	32.05	39.40
Weight in air	kg/km	67	99	219	324	439	580	777
Weight in seawater	kg/km	-9	-15	-49	-91	-153	-247	-473
Min. bend radius	mm	100	120	180	230	270	320	395
Standard colour		Green	Blue	Blue	Blue	Blue	Blue	Blue

The LRS gas hoses in the table below are rated to a higher working pressure than the standard Fibroflex gas hoses. The hoses in this range have Lloyds approval.

Hose type		Lloyds approved gas hose range			
Specification number		FDH 04P (LRS) ^L	FDH 06G (LRS) ^L	FDH08G (LRS) ^L	FDH 12G (LRS) ^L
Hose dash size		-04	-06	-08	-12
Max. working pressure	psi/bar	1,500/103.5	1,500/103.5	1,500/103.5	1,500/103.5
Min. burst pressure	psi/bar	10,000/690	8,000/552	8,000/552	8,000/552
Nominal bore	in/mm	1/4" / 6.35	3/8" / 9.53	1/2" / 12.70	3/4" / 19.00
Outside diameter	mm	11.90	18.25	22.70	32.05
Weight in air	kg/km	99	219	324	580
Weight in seawater	kg/km	-15	-49	-91	-247
Min. bend radius	mm	120	180	230	320
Standard colour		Blue	Blue	Blue	Blue

**Non-standard sizes ^LLloyds approved ^{DNV}DNV approved

Fibrofex high-pressure hoses - sheet 2

Fibrofex is a range of highly flexible, braided, high-pressure diving hoses for use in main bell, wet bell and excursion umbilicals. These hoses are specifically designed to withstand the rigours of everyday use in a hyperbaric dive system. Services include gas and hot water supply, gas reclaim, and pneumo-monitoring hoses.

All common hose sizes in the Fibrofex range are Lloyds Register of Shipping (LRS) & Det Norske Veritas (DNV) approved.

Fibrofex gas and hot water hoses, plus wire armoured and lightweight reclaim hoses for mixed gas (saturation) diving allocations, can only be fitted with phosphor bronze swageable type hose ends.

Hose type		Collapse and recover hose				
Specification number		FRH 06	FRH 08	FRH 10	FRH 12	FRH 16
Hose dash size		-06	-08	-10	-12	-16
Max. working pressure	psi/bar	100/7	100/7	100/7	100/7	100/7
Min. burst pressure	psi/bar	400/28	400/28	400/28	400/28	400/28
Nominal bore	in/mm	3/8" / 9.53	1/2" / 12.70	5/8" / 15.80	3/4" / 19.00	1" / 25.4
Outside diameter	mm	19.10	22.25	27.95	32.75	39.55
Weight in air	kg/km	249	304	483	633	796
Weight in seawater	kg/km	-45	-95	-174	-231	-464
Min. bend radius	mm	190	225	280	330	395
Ext. collapse pressure	psi/bar	N/A	N/A	N/A	N/A	N/A
Standard colour		Black	Black	Black	Black	Black

Hose type		Gas reclaim			
Specification number		FXH-HCSL-03 ^{L, DNV}	FXH 04 ^{DNV}	FXH 10	FXH 12 ^{L, DNV}
Hose dash size		-03	-04	-10	-12
Max. working pressure	psi/bar	1,000/69	1,000/69	1,000/69	1,000/69
Min. burst pressure	psi/bar	5,000/345	9,000/620	6,000/414	6,000/414
Nominal bore	in/mm	3/16" / 4.76	1/4" / 6.35	5/8" / 15.80	3/4" / 19.00
Outside diameter	mm	11.50	12.50	30.00	33.50
Weight in air	kg/km	93	104	939	1,083
Weight in seawater	kg/km	-14	-22	214	179
Min. bend radius	mm	115	125	300	335
Ultimate collapse pressure	psi/bar	667/46	1,000/69	665/46	667/46
External pressure resistance (incl. 1.3 safety factor)	psi/bar	508/35	769/53	508/35	508/35
Standard colour		Green	Black	Black	Black

Hose type		Extreme hose range				
Specification number		FXH03E ^L	FXH12E ^L	FDH08EH ^{DNV}	FDH10EH ^{L, DNV}	FDH12EH ^{L, DNV}
Max. working pressure	psi/bar	1,000/69	1,000/69	1,000/69	1,000/69	1,500/103.5
Min. burst pressure	psi/bar	5,000/345	5,000/345	4,000/276	4,000/276	6,000/412
Nominal bore	in/mm	3/16" / 4.80	3/4" / 19.00	1/2" / 12.70	5/8" / 15.80	3/4" / 19.00
Outside diameter	mm	11.00	33.50	22.60	27.00	32.05
Weight in air	kg/km	88	1,068	308	421	574
Weight in seawater	kg/km	-10	179	26	35	37
Min. bend radius	mm	105	335	225	270	320
Ultimate collapse pressure	psi/bar	1,050/72	1,050/72	N/A	N/A	N/A
External pressure resistance (incl. 1.3 safety factor)	psi/bar	798/55	798/55	N/A	N/A	N/A
Standard colour		Black	Black	Red	Red	Red

^LLloyds approved ^{DNV}DNV approved