AIRMO INC.®
PRESSURE TECHNOLOGIES

NUQUIP®
High-Pressure Accessories

"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!"®

NuQuip®

High-Pressure Hydraulic Hoses and Fittings

- **Pressures up to 40,600 psi (2,799 bar)**
- **Durable construction with superior flexibility**
- **Excellent flow characteristics**
- **Low volumetric expansion**
- **Resistant to external pressures**
- **UV and ozone resistant**

DESCRIPTION

Airmo offers High-Pressure Hydraulic Hoses and Fittings engineered to withstand working pressures up to 40,600 psi (2,799 bar), while retaining superior hose flexibility. Hoses are made from an inner core of either Polyoxymethylene (POM) or Polyamide (PA), reinforced with multiple layers of high-tensile steel, and an outer covering of Polyamide (PA) or Polyurethane (PUR). Hydraulic hoses are manufactured to ISO 9001:2008 standards, and can be color coded for use in subsea applications.

High-pressure hose options include: light-weight and flexible to rugged and durable for extreme water pressure applications. Airmo provides a range of high-pressure Quick Disconnect couplings and hose fittings, in both standard and metric thread sizes. High-pressure hoses can be used with a variety of services, such as water, oil, and other liquids. Contact Airmo for assistance in selecting hose and fittings to meet your application requirements.

OPERATION

Only trained personnel should install and set high-pressure hoses in operation to avoid system failure or operator injury. Use high-pressure hose assemblies only to allowable working pressure, ***but do not exceed maximum operation pressure***. Regularly check high-pressure hose assemblies for kinks, wear and tear, corrosion, cracks, or other damage each time before using them. Use only clean, filtered media to extend the life of your high-pressure hose. If a hose malfunction is suspected, take equipment out of operation immediately and replace the high-pressure hose assembly.

APPLICATION

The NuQuip® line of High-Pressure Hydraulic Hoses and Fittings are suitable for working pressures up to 40,600 psi (2,799 bar) when used with hydraulic test equipment and hydrostatic test tools for pressure testing, leak detection, tube and pipe expansion, cleaning applications, and other purposes. Higher pressure ratings can be used for extreme waterjet cutting and high-pressure robotic applications.

MATERIALS

Hose Inner Core:	Polyoxymethylene (POM), Polyamide (PA), Polyvinylidene Fluoride (PVDF)
Hose Outer Core:	Polyamide (PA) or Polyurethane (PUR)
Fittings:	Stainless steel or carbon steel

CONFIGURATION

Fittings:	Male or female
Threads:	Variety of thread types

OPERATING CONDITIONS

Maximum Pressure:	40,600 psi (2,799 bar)
Temperature:	-22° F to 300° F (-30° C to 150° C)
Services:	Water, oil, and other liquids
Hose ID Range:	0.12 in. to 0.98 in. (3.0 mm to 24.9 mm)
Hose OD Range:	0.27 in. to 1.43 in. (6.9 mm to 36.3 mm)
Bend Radius:	2.40 in. to 13.80 in. (61.0 mm to 350.5 mm)

MAXIMUM PRESSURE
40,600 psi
2,799 bar

NuQuip®

High-Pressure Hydraulic Hoses and Fittings

High-Pressure Hydraulic Hoses

Series	Description	Pressure Rating		Hose ID		Hose OD		Minimum Bend Radius	
		psi	bar	Inches	mm	Inches	mm	Inches	mm
2	Light-weight, flexible	6,380 to 17,400	440 to 1,200	0.13 to 0.98	3.4 to 24.8	0.27 to 1.22	6.9 to 31.0	2.40 to 11.80	61.0 to 299.7
2HT	For high temperatures up to 300º F (150º C)	10,800 to 13,260	74 to 915	0.25 to 0.31	6.3 to 8.0	0.48 to 0.57	12.2 to 14.5	5.91 to 9.84	150.0 to 250.0
2W	Great flexibility with high working pressures	9,280 to 20,300	640 to 1,400	0.16 to 0.98	4.1 to 24.9	0.39 to 1.40	9.9 to 35.6	2.60 to 11.00	66.0 to 279.4
3	Rugged and durable with high burst pressures	15,080 to 16,240	1,040 to 1,120	0.20 to 0.25	5.1 to 6.4	0.41 to 0.48	10.4 to 12.2	3.70 to 4.30	94.0 to 109.2
4	Versatile for service hydraulics, water blasting, and pressure testing	13,050 to 31,900	900 to 2,199	0.13 to 0.98	3.3 to 24.9	0.31 to 1.43	7.9 to 36.3	4.30 to 11.80	109.2 to 299.7
4H	Extremely flexible for highest working pressures	20,300	1,400	0.50	12.7	0.87	22.0	7.87	200.0
4HT	For high temperatures up to 300º F (150º C)	15,730 to 18,630	1,085 to 1,285	0.20 to 0.39	5.0 to 9.9	0.44 to 0.72	11.2 to 18.4	9.84 to 11.81	250.0 to 300.0
6	Outstanding reliability for toughest extreme pressure applications	20,300 to 40,600	1,400 to 2,799	0.12 to 0.74	3.0 to 18.8	0.36 to 1.29	9.1 to 32.8	5.90 to 13.80	149.9 to 350.5
6H	Extremely flexible for highest working pressures	29,000 to 40,600	2,000 to 2,799	0.18 to 0.50	4.6 to 12.7	0.57 to 0.97	14.4 to 24.6	8.66 to 11.81	220.0 to 300.0
8	Designed for extreme pressure waterjet cutting and high-pressure robotic applications	40,600	2,799	0.16 to 0.30	4.1 to 7.6	0.50 to 0.82	12.7 to 20.8	6.90 to 11.81	175.3 to 300.0

* *Note: Hoses do not cover the entire range of diameters and bend radii noted for each Series size. Contact Airmo for help with selecting hose options to suit application.*

Special Configurations Available Upon Request

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