

# Nautilus20 *polyflex* Hose

20,000 psi umbilical hose



Parker's Nautilus20 subsea hose offers an unprecedented 20,000 psi (1,379 bar) designed working pressure, allowing offshore oil and gas companies to overcome the constraints of 15,000 psi hoses. This enables customers to target reserves in deeper waters with higher reservoirs and greater step-out distances. Coupled with the high collapse resistance (more than 7,250 psi) smooth-bore and the non-sticky outside cover, which reduces the risk of abrasion related problems, the **polyflex** Nautilus20 hydraulic hose easily outperforms comparable oil and gas hoses.

Nautilus20 has a seamless, extruded thermoplastic core tube with a wide range of media compatibility. And with only 4 layers of wire reinforcement, Nautilus20 is similar in weight and bending to a standard 15,000 psi hose. For customers, this means reduced downtime for operations, improved throughput and peace of mind.



## Contact Information:

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## Product Features:

- 20,000 psi (1371 bar) working pressure
- High collapse resistance - more than 7200 psi (500 bar) collapse resistance
- Large temperature range  
-40°F to +300°F (-40°C to +150°C)
- Tested to ISO13628-5 / API 17E specifications
- Similar weight and bending radius as standard 15,000 psi hose
- Supreme chemical resistance
- Extreme low permeation rate



ENGINEERING YOUR SUCCESS.

# Nautilus20 – 20,000 psi Umbilical Hose



## Features

- 20,000 psi (1371 bar) working pressure
- High performance core tube with only 4 layers of wire
- High performance non-sticky cover
- Supreme chemical resistance
- Extreme low permeation rate
- Extreme long service life

## Applications/Markets



- Subsea Jumpers; Topside Jumpers
- Subsea Umbilicals; Topside Umbilicals
- Hydraulic Flying Leads
- Subsea Hydraulics

## Specifications

- Tested to ISO 13628-5 / API 17E

Part Number	Nominal I.D.			Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	DN	inch	mm	inch	mm	psi	bar	inch	mm	lbs./ft.	kg./mtr.	
#												
2448P-04V60	-4	1/4	6.4	0.51	13	20,000	138	5.91	150	0.22	0.33	1Y2UX-6-04C
2448P-08V60	-8	1/2	12.9	0.91	23.2	20,000	138	11.8	300	0.77	1.15	1Y25X-9-08C-M-SUBSEA 1Y25X-12-08C-M-SUBSEA

## Construction

Tube: High performance thermoplastics  
 Reinforcement: Four layers of high tensile steel wire  
 Cover: High performance thermoplastics

## Operating Parameters

Temperature Range:  
 -40°F to +300°F (-40°C to +150°C)  
 Collapse Rating: 1/4" > 8700 psi, (600 bar)  
 1/2" > 7200 psi, (500 bar)

Change in working length @ Rated WPSI: +2%/-1.5%  
 Min. Burst Pressure is 3x Max. Working Pressure at 23°C (73°F)

## Fittings

Y2 Series constructed of 316 Stainless Steel

2448P-04V60  
 1Y2UX-6-04C

2448P-08V60  
 1Y25X-9-08C-M-SUBSEA  
 1Y25X-12-08C-M-SUBSEA

## Colors

- Black