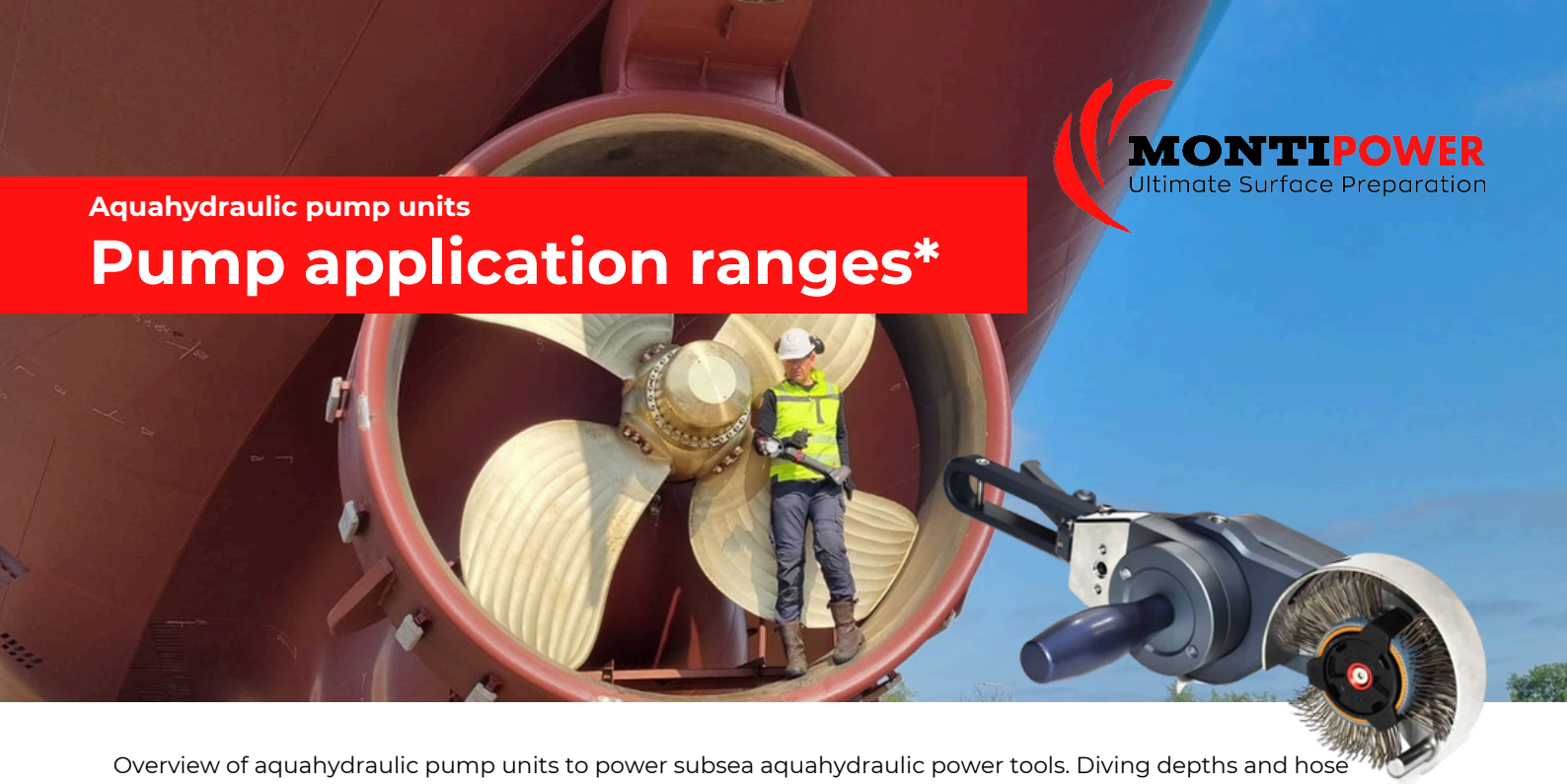
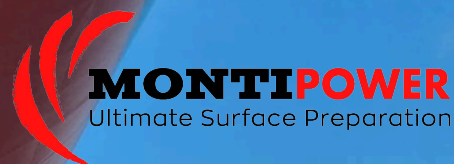














Aquahydraulic pump units

Pump application ranges*



Overview of aquahydraulic pump units to power subsea aquahydraulic power tools. Diving depths and hose lengths are influencing the required pressure and volume from the pump unit.

Depth	Hose length	Electric	Petrol	Diesel
Splash and tidal zone	0-50m	 HPCT 250-21		
Shallow waters	50-100			
Surface-Supplied Air Diving (SSA) (max 50m depth)	100-150m			
Surface-Supplied Mixed Gas Diving (max 100m depth)	150-200m			
Saturation Diving (Sat Diving) (max 300m depth)	150-350m	Customized configuration		

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Package & pricing

Splash and tidal zone*

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Electric drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



MontiPower TS 21/250 professional high pressure pump for cold water (HPCT 250-21)

This electrical unit provides reliability combined with a long service life: several hundred hours of reliability and service life per year is very important. All components used are designed for a long service life. For example, the pumps operate with very little wear thanks to the low-speed crankshaft principle of 1450 rpm.



Hoses (50 meter) and feedpump

MCTB-001

1/2" Rubber High Pressure Hose (W.P. 440 bar) – 50 mtr / Quick-connect couplings / Recommended for shallow water activities

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Splash and tidal zone*

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Petrol drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HDMP280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled
Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (50 meter) and feedpump

MCTB-002

1/2" Rubber High Pressure Hose (W.P. 440 bar) – 50 mtr / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

Splash and tidal zone*

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Diesel drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HDMP280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled
Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (50 meter) and feedpump

MCTB-003

1/2" Rubber High Pressure Hose (W.P. 440 bar) – 50 mtr / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

Shallow waters*

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Electric drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Electrical High Pressure Unit-300 Bar/31 LPM. Frequency Controlled (HDE22-300-31CH-PRO)

TElectric High Pressure Pro Cart with watercooled frequency inverter Power (kW) 22 | Power (HP) 29,9 | Pressure (bar) 300 | Pressure (psi) 4350 | Flow pump (LPM) 31 | (GPM) 8,2 | Engine / Motor Nicolini | Type pump CH 31/300



Hoses (100 meter) and feedpump

MCTB-004

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Shallow waters*

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Petrol drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HDM280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled
Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (100 meter) and feedpump

MCTB-005

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Shallow waters*

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Diesel drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HMP280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled
Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (100 meter) and feedpump

MCTB-006

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

SSA diving 50m*

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Electric drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Electrical High Pressure Unit-300 Bar/31 LPM. Frequency Controlled (HDE22-300-31CH-PRO)

TElectric High Pressure Pro Cart with watercooled frequency inverter Power (kW) 22 | Power (HP) 29,9 | Pressure (bar) 300 | Pressure (psi) 4350 | Flow pump (LPM) 31 | (GPM) 8,2 | Engine / Motor Nicolini | Type pump CH 31/300



Hoses (150meter) and feedpump

MCTB-007

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

SSA diving 50m*

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Petrol drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HDP280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (150meter) and feedpump

MCTB-008

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

SSA diving 50m*

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Diesel drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Unit 30 LPM at 280 bar (HMP280_30_10)

TEngine Mo33,5Petrol driven, 2 cilinder Aircooled
Honda GX690 / 4 wheels with air tyres / Max. 1500 rpm / Strong, lightweight frame / Max. 30 LPM at 280 bar (7,9 gpm at 4060 psi) / Gearbox driven pump / Electrical starting / No engine-oil safety device (oil-alert) / Big water filter at pump inlet, readily serviceable cartridge type / Pressure release valve for dry shutoff gun / Zero hose pressure regulator and emergeny-stop remote for SIR certification / Weight 150kg / Dimensions 1000x820x850mm
2 cilinder Aircooled Honda GX690



Hoses (150meter) and feedpump

MCTB-009

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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Package & pricing

Mixed Gas Diving 100m*

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Electric drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Electrical High Pressure Unit-300 Bar/31 LPM. Frequency Controlled (HDE22-300-31CH-PRO)

TElectric High Pressure Pro Cart with watercooled frequency inverter Power (kW) 22 | Power (HP) 29,9 | Pressure (bar) 300 | Pressure (psi) 4350 | Flow pump (LPM) 31 | (GPM) 8,2 | Engine / Motor Nicolini | Type pump CH 31/300



Hoses (200 meter) and feedpump

MCTB-010

1/2" Neutrally Buoyant High Pressure Hose (W.P. 390 bar) / 50 mtr / Quick-connect couplings / Recommended for ROV cavitation cleaning / Quick-connect couplings / Recommended for shallow water activities

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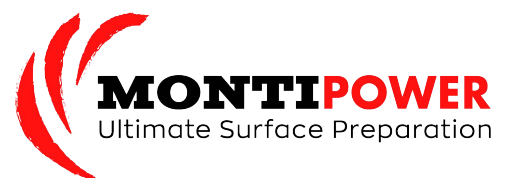
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Package & pricing

Mixed Gas Diving 100m*

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Petrol drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit.
Sustainable and environmental friendly.
Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Pro Cart 30kW | 300 Bar/31,2 LPM (HDMP30-300-31CH-PRO)

Petrol High Pressure Pro Cart Power (kW) 30 |
Power (HP) 40,8 | Pressure (bar) 300 | Pressure (psi)
4350 | Flow pump (LPM) 31,2 | (GPM) 8,3 | Engine /
Motor Vanguard 61G2 | Type pump CH 31/300



Hoses (200meter) and feedpump

MCTB-011

1/2" Neutrally Buoyant High Pressure Hose (W.P.
390 bar) / 50 mtr / Quick-connect couplings /
Recommended for ROV cavitation cleaning / Quick-
connect couplings / Recommended for shallow
water activities

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Package & pricing

Mixed Gas Diving 100m*

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Diesel drive set package



MONTI Cleantech Subsea Bristle Blaster Aquahydraulic

Powerful and servable water motor that enables a clean and powerfull source to drive the unit. Sustainable and environmental friendly. Removes corrosion, coatings, scale and adhesive residue.

3Kw 250Bar - 20ltr/min. Incl. Maintenance kit



Zero-Thrust Short Cavitation Cleaning gun (Recommended max. 40 LPM at 150 bar)

Maximised underwater cleaning capacity
Minimum impact on coatings and surfaces
Safe and ergonomic
Intensity adjustable with high-pressure unit
Double-walled stainless steel lance



Petrol High Pressure Pro Cart 30kW | 300 Bar/31,2 LPM (HDMP30-300-31CH-PRO)

Petrol High Pressure Pro Cart Power (kW) 30 |
Power (HP) 40,8 | Pressure (bar) 300 | Pressure (psi)
4350 | Flow pump (LPM) 31,2 | (GPM) 8,3 | Engine /
Motor Vanguard 61G2 | Type pump CH 31/300



Hoses (200meter) and feedpump

MCTB-012

1/2" Neutrally Buoyant High Pressure Hose (W.P.
390 bar) / 50 mtr / Quick-connect couplings /
Recommended for ROV cavitation cleaning / Quick-
connect couplings / Recommended for shallow
water activities

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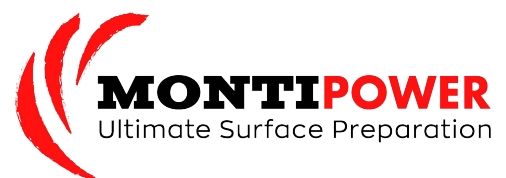
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Pressure loss lookup table

Using aquahydraulic propulsion (i.e., water-based hydraulic systems) for underwater power tools introduces pressure losses primarily due to:

- Hose friction loss (due to flow resistance).
- Hydrostatic pressure increase with depth.
- Minor losses (from bends, couplings, valves – usually negligible in general estimates).

This table shows the estimated pressure loss due to depth and hose friction

Depth (m)	Hydrostatic Pressure loss (bar)	Friction Loss (bar)*	Total Pressure loss (bar)
0	0.00	0.00	0.00
25	2.45	1.88	4.33
50	4.91	3.77	8.68
75	7.36	5.65	13.01
100	9.81	7.54	17.35
125	12.26	9.42	21.68
150	14.72	11.31	26.03
175	17.17	13.19	30.36
200	19.62	15.08	34.70
225	22.07	16.96	39.03
250	24.53	18.85	43.38
275	26.98	20.73	47.71
300	29.43	22.62	52.05

**Assumes a Hose inner diameter (D): ½ inch = 0.0127 m

These numbers represent the minimum pressure at the surface required to overcome both gravity and friction and still deliver usable pressure at the diver's tool. This doesn't include pressure needed to operate the tool itself.

Real offshore setups often increase hose ID or boost pressure to compensate for these losses.

Parameters:

- Flow rate (Q): 20 L/min = 0.000333 m³/s
- Friction factor (f): 0.0276 (turbulent flow, Blasius estimate)
- Water density (ρ): 1000 kg/m³
- Water temperature: 10°C (density ≈1000 kg/m³, dynamic viscosity ≈1.3 mPa·s)
- Gravity (g): 9.81 m/s²
- Velocity (v): ~2.63 m/s
- Pressure Loss (ΔP)
- Friction loss calculated using the Darcy-Weisbach equation

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