Hydro Bard

OPERATING AND MAINTENANCE MANUAL

HIGH PRESSURE HYDRAULIC HOSES

HPH (700 bar) · HSE (1500 bar)

Read this manual and the safety instructions before use.

Hydro Bard Mühendislik · hydrobard.com

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01 GENERAL SAFETY RULES

- Read this entire manual before using the product. The product must only be used by trained and authorised persons.
- Never exceed the maximum working pressure shown on the rating plate or label. Always monitor the system with a pressure gauge.
- All components in the system (pump, hose, coupler, valve, tool) must be rated for the same or higher pressure.
- Never disconnect, tighten or loosen fittings, couplers or hoses while they are under pressure.
- Pressurised hydraulic oil can penetrate the skin and cause serious injury. Never check for leaks by hand; seek medical help immediately after any oil injection.
- Wear safety glasses, work gloves and safety shoes. Do not stand in the line of movement of pressurised equipment.
- Do not use equipment that is damaged, leaking, deformed or has illegible labels; send it for service.
- Do not use the equipment for any other purpose or modify it. Use genuine spare parts only.

⚠ PRODUCT-SPECIFIC WARNINGS

- Never use a hose above the working pressure printed on it.
- Do not kink, crush or knot the hose; do not drive over it or drop loads on it.
- Do not carry equipment or disconnect couplers by pulling the hose.
- Protect the hose from hot surfaces, weld spatter and sharp edges.

Warning signs

DANGER	A situation that will result in death or serious injury if not avoided.
WARNING	A situation that could result in injury if not avoided.
CAUTION	A situation that could damage the product or give a wrong result.

02 PRODUCT DESCRIPTION

The HPH series (Polyhose PH351) for 700 bar and the HSE series (Polyhose PH904) for 1500 bar are hydraulic hose assemblies with couplers.

03 TECHNICAL DATA

HPH working pressure	700 bar (10,000 psi); ID 3/16″–1/2″
HPH safety factor	4:1 burst/working (3/16″–3/8″)
HSE working pressure	1500 bar (21,750 psi); ID 1/8″–3/8″
HSE safety factor	2.5:1 burst/working

04 PREPARATION AND CONNECTION

1. Before use check the full hose length for cracks, blisters, wear and crushing.
2. Clean the couplers and tighten them fully by hand.
3. Never bend the hose tighter than the minimum bend radius in the manufacturer table.
4. Route the hose so it is not stretched when the equipment moves.

05 OPERATION

1. Make sure the hose is not kinked and lies free while pressurised.
2. Do not stay near or step on a hose under pressure.
3. When finished release all pressure, then disconnect and fit the dust caps.

06 MAINTENANCE AND PERIODIC CHECKS

Check	Interval
Hose cover and coupler ends	Before each use
Coupler threads and dust caps	Before each use
Pressure test	Yearly
Hose replacement	Immediately on damage, blistering or leaks

07 TROUBLESHOOTING

Symptom	Possible cause	Remedy
Oil leaking at the coupler	Coupler not fully engaged; damaged seal	Release pressure and tighten fully; replace the seal
Hose blistering or sweating	Damaged inner layer	Remove from service immediately; replace
No oil flow	Coupler half engaged; crushed hose	Tighten the coupler; check the hose

08 STORAGE, TRANSPORT AND DISPOSAL

- Store the equipment clean, dry and depressurised, with dust caps fitted to the couplers.
- Do not lift or carry the equipment by its hoses or couplers; use suitable lifting gear for heavy parts.
- Dispose of used hydraulic oil and oily materials in line with local environmental regulations.

09 SERVICE AND CONTACT

Contact Hydro Bard for maintenance, repair, pressure testing and spare parts. Quote the model code and serial number of any product sent for service.

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PRODUCT PAGE
hydrobard.com/en/700-bar-hydraulic-hose.html

Keep this manual with the product and accessible to the user. For technical values see the product datasheet and the rating plate. · Rev. 1.0 · October 2026