



Klepo® Air-Operated Thread Protectors

Weatherford Klepo air-operated thread protectors offer safe, reliable casing and tubing pin-end protection. The working principle of the Klepo protectors is based on pressurization by rig air (116 to 130 psi, or 800 to 896 kPa), which ensures easy installation and reliable protection for all API standard and premium threads.

Applications

Three types of Klepo protectors are available:

- The HD protector is designed for mild and cold climates.
- The HDH protector is designed for use in tropical areas such as the Middle and Far East, Africa, South America, and parts of Australia.
- The HD-T/HDH-T protector is designed for tender-assisted rigs and pickup/laydown machines. The T-type protector has an aluminum reinforcement embedded in the buffer.






Features, Advantages, and Benefits

- These durable protectors provide a 360° grip with greater, evenly divided holding power. Durability is enhanced because the outside of the protectors does not change; only the inside inflates to provide a better grip on the pin.
- Absence of moving parts, metal clamping bars, or other mechanisms provides a long and virtually maintenance-free life cycle.
- The bottom of each protector contains a rugged buffer.
- Klepo protectors provide firm attachment to all thread types for greater operational flexibility.
- Rugged construction makes Klepo protectors resistant to high temperatures and rough handling for a long life cycle.
- Pressurization by air facilitates installation and release for operational efficiency.



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Specifications

Model			
	HD Protector Yellow top, black bottom	HDH Protector Orange top, black bottom	HD-T/HDH-T Protector Orange top, green bottom
Applications	Mild and cold climates	Tropical climates	Tender-assisted rigs and pickup/laydown machines
Hardness body/buffer (Shore A)	78/95		88/95
Tensile strength	33/26 N/mm ²		
Abrasion	40/100 mm ³		
Temperature range (°F, °C)	-31 to +100 -35 to +38	+55 to +149 +13 to +65	

Standard Sizes (in.)

2-3/8	6-5/8	11-7/8	18-5/8
2-7/8	7	12-7/8	20
3-1/2	7-5/8	13-3/8	22
4	8-5/8	14	24
4-1/2	9-5/8	16	24-1/2
5	9-7/8 to 10	16-3/4	26
5-1/2	10-3/4	17	30
6	11-3/4	18	

Options

- Special Klepo protectors with deeper cavities are available for premium long-tapered threads, such as Hydri[®] SLX and VAM[®] SLIJ.

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