



# Exploration & Production

# Protectors

## HD Protector

## HD PROTECTOR

Protectors are designed to ensure that all control lines and cables are protected for the full length of the production string, thus reducing the risk of damage to cable, control line, or flatpacks. PDT's Protector portfolio includes clamping and cable protection solutions to protect cables from lateral, axial, and rotational loading in downhole applications. In addition to our standard cross-coupling range, PDT designs application specific solutions for demanding situations

### APPLICATION

The Heavy Duty (HD) Protector is a robust all cast protector designed for arduous service. Typically utilized in harsh environments and deepwater applications where physical robustness and strength are critical. The HD design incorporates features that provide load ratings greater than standard protectors. A key feature of this protector is the interlocking fastening mechanism that prevents shear stresses from being applied to the bolts by dispersing impact related forces to the cast body. The HD has been designed as a universal protector to cover a wide range of tubing connections and accommodate a multitude of line configurations

### STANDARDS & APPROVALS

- All parts comply with NACE Standard MR0175 / ISO 15156

### QUALITY & TESTING

- Manufactured in accordance with standard Inspection and Quality Plans
- Design Validation Testing
  - Axial, Lateral, Rotational Testing
- Factory Acceptance Testing
  - Visual Inspection
  - Make Up / Fit Test
  - Dimensional Inspection
  - Gap Verification
  - Cable Pull test
  - Drift Verification
  - Torque Test

### DESIGN & CONSTRUCTION

- All cast - no welded parts
- One-piece assembly with captive fasteners
- No loose parts
- Interlocking Straps
- Hex or Allen Socket Bolt Option
- Chamfered ends to prevent hang up
- Supports minimum of 100' of downhole cable, control line, and flatpack weight
- Side ribs with centralized support pillars
- Quick and Easy to install
- Reusable
- Custom designs to meet application

#### Materials

- Carbon Steel
- 316 SS
- 13Cr
- 25Cr
- Super Duplex

#### Axial Loading

- 75 tons

#### Lateral Loading

- 75 tons

#### Rotational Loading

- 3 ton

#### Common Tubing Sizes

- 2- 3/8" / 2- 7/8" / 3- 1/2" / 4- 1/2" / 5" / 5- 1/2" / 6" / 6- 5/8" / 7"



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