

# DS DRILL PIPE



**Strad** is committed to helping develop North America's resources responsibly and safely. To do this, Strad has continually worked to provide customers with **superior solutions and services** in the energy industry. Strad offers a comprehensive range of leading-edge drilling equipment for purchase, lease or rent.

## Double Shoulder (DS) Drill Pipe

Strad proudly supplies the Grant Prideco Double Shoulder™ (DS) Drill pipe. DS connections have significantly higher torsional capacity than the standard, which is ideal for extended depth drilling. DS connections tolerate more OD wear and provide a versatile alternative to standard API connections where higher torsional strength is required yet, the DS are interchangeable with API connections.

The double-shouldered design of the DS provides a secondary internal shoulder on the nose of the pin providing an additional friction surface and mechanical stop.

Strad utilizes the highest standards of drillpipe, ensuring that the all safety, performance and connection requirements are successfully met.

## Drill Pipe Specifications

DS-38 is standard drill pipe for a drilling rig in North America.

- Sour service (gas containing H<sub>2</sub>S, CO<sub>2</sub>, or other acidic gases) drill pipe.
- 4" SS - 105 grade drill pipe with 4" Tube OD and Grant Prideco Double Shoulder (DS) high torque connection, 15.70 lbs/ft (23.39 kg/m). 5" OD tool joint, 2<sup>7/16</sup>" ID.

## NC-38 Drill Pipe

- 3<sup>1/2</sup>" CYX 95 (controlled yield X - 95) grade drill pipe with 3<sup>1/2</sup>" (NC - 38) connection, 15.50 lbs/ft (23.09 kg/m). 5" OD on tool joint.

Drill Pipe	DS-38 (4")	NC-38/(3 <sup>1/2</sup> )
Tool Jt O.D.	5.0"	5.0"
Tool Jt I.D.	2 <sup>7/16</sup> "	2 <sup>7/16</sup> "
Wall Thickness	0.38"	0.359"
Torsional Strength	26,700 ft-lbs	20,400 ft-lbs
Tensile Strength	454,000 ft-lbs	317,500 ft-lbs
Internal Pressure Capacity	17,500 psi	19,499 psi
Collapse Capacity	18,100 psi	18,331 psi
Weight	15.70 lbs	15.50 lbs

## Strad Drill Pipe Advantages

Strad offers premium equipment and is very focused on customer service. We pride ourselves on the fact we respond to customer requests promptly and efficiently.

For further technical details, please contact us.

# Heavy Weight DRILL PIPE



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## Heavy Weight Drill Pipe

Heavy weight drill pipe is most commonly used in the vertical section of the hole because it provides additional weight on the bit needed for directional drilling while still maintaining more flexibility than a drill collar.

Heavy weight drill pipe has a "center upset", also known as wear pad, that increases tube life by protecting the tube from wearing on the outer diameter by keeping the tube away from the hole wall. It also reduces hole drag and differential sticking problems. The walls of heavy weight drill pipe are thicker and have longer upsets compared to conventional drill pipe, as well as being stronger with high tensile strength.

Heavyweight drill pipe (HWDP) may be used to make the transition between the drill collars and drill pipe. The function of the HWDP is to provide a flexible transition between the drill collars and the drill pipe. This helps to reduce the number of fatigue failures seen directly above the BHA.

Heavy weight is also known as hevi-wate or HWDP in the industry.

## Heavy Weight Drill Pipe Specifications

- 4" Heavy weight drill pipe with 4" Full Hole (FH) (NC-40) Connection (5 1/4" OD)
- 4" Heavy weight drill pipe with 4" Double Shoulder (DS-38) Connection (5" OD)
- 4" Heavy weight drill pipe with a 4" XT-39 premium connection (4 7/8" OD)
- 4 1/2" Heavy weight drill pipe with 4 1/2" Extra Hole (XH) (NC-46) Connection (6 1/4" OD)
- 5" Heavy weight drill pipe with 5" Extra Hole (XH) (4 1/2" IF NC-50) Connection (6 1/2" OD)

Heviwate Drill Pipe	4 1/2"
Weight/Foot	41.0 lbs/ft (61.1 kg/m)
Tool Jt O.D.	6 1/4" (158.75 mm)
Tool Jt I.D.	2 13/16" (71.43 mm)
Wall Thickness	0.875" (22.23 mm)
Torsional Yield	40,100 ft-lbs (55,190 N.m)
Tensile Yield	533,100 ft-lbs (237,000daN)

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