

**TPS DOUBLE SHOULDER
(TPS-DS) DRILL PIPE
CONNECTION**



TPS DOUBLE SHOULDER (TPS-DS) DRILL PIPE CONNECTION

TPS-DS offers many advantages compared to Standard API Drill Pipe connections. It is particularly suited for difficult operations, such as extended and deep drilling, horizontal and slim hole wells.

ADVANTAGES:



IMPROVED SAFETY & PERFORMANCE

Due to higher torque capacity



INCREASED TORQUE CAPACITY

Thanks to a second, internal shoulder, the torque distribution throughout the connection is improved. This enables the connection to cope with higher torsional loads.



COMPATIBLE WITH OTHER API CONNECTIONS

TPS-DS connections are fully interchangeable with API NC or FH connections.

During make-up with standard connections, the internal shoulder of TPS-DS will not get in contact with the back of the API connection. This means that you can still use existing BHA equipment.*



COSTS SAVINGS

The same equipment as for standard API connections can be used for make-up and running. Shorter make-up times can be realized.



INCREASED HYDRAULIC EFFICIENCY

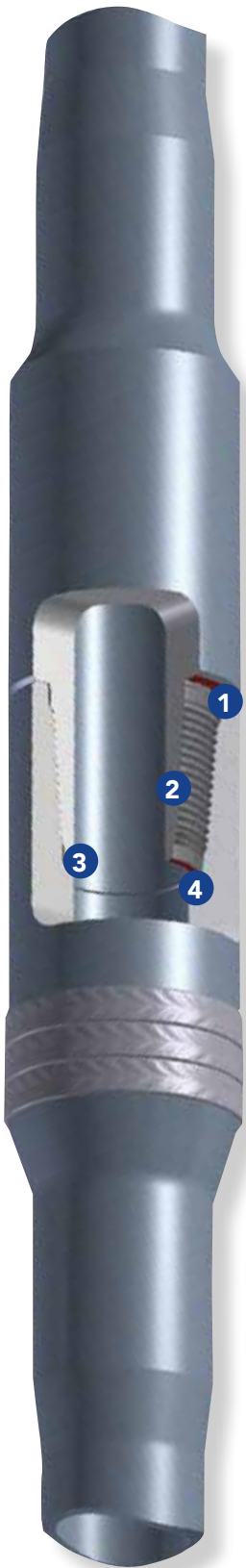
The Flush ID of TPS-DS connections results in a better hydraulic efficiency. Additionally, it can be produced with smaller OD/larger ID while still offering the same torsional capacities than standard API connections.



EXTENDED PRODUCT LIFETIME BY ALLOWING MORE OD WEAR

The TPS-DS connection can provide the same torque capacity at a smaller OD compared to standard API Drill Pipe connections. As a result, it can be used longer before being declared as Premium Class or Class II.

*(Please consider that the performance is limited to the properties of the weaker connection in such cases.)



TPS-DS connection	Compatible API Connection
TPS-DS SLH	2 3/8 SLH90
TPS-DS 26	NC26
TPS-DS 31	NC31
TPS-DS 38	NC38
TPS-DS 40	NC40
TPS-DS 46	NC46
TPS-DS 50	NC50
TPS-DS 55	5 1/2 FH

TPS-DS Performance characteristics

Connection	OD (in)	ID (in)	Tensile Capacity (lbs)	Torsional Capacity (ft-lbs)	Recommended Make-up Torque (ft-lbs)*
TPS-DS SLH	3.25	2	219,600	7,200	4,700
TPS-DS 26	3.125	1.25	493,000	8,100	4,800
TPS-DS 31	4.125	2	537,000	18,600	11,200
TPS-DS 38	4.875	2.563	703,300	27,800	16,700
TPS-DS 40	5.25	2.688	841,100	35,400	21,200
TPS-DS 46	6.25	3.25	976,300	46,300	27,800
TPS-DS 50	6.625	3.25	1,374,700	77,800	46,700
TPS-DS 55	7	4	1,371,300	79,000	47,400

* calculated for Tool Joints with 130 ksi yield strength. More data available on request.

SPECIAL FEATURES:

- 1 Primary seal shoulder
- 2 API thread form
- 3 Flush ID
- 4 Secondary torque shoulder



Headquarter



Project Office



Mill 1



Mill 2

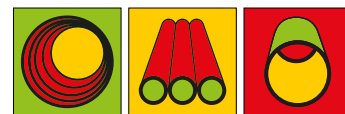
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