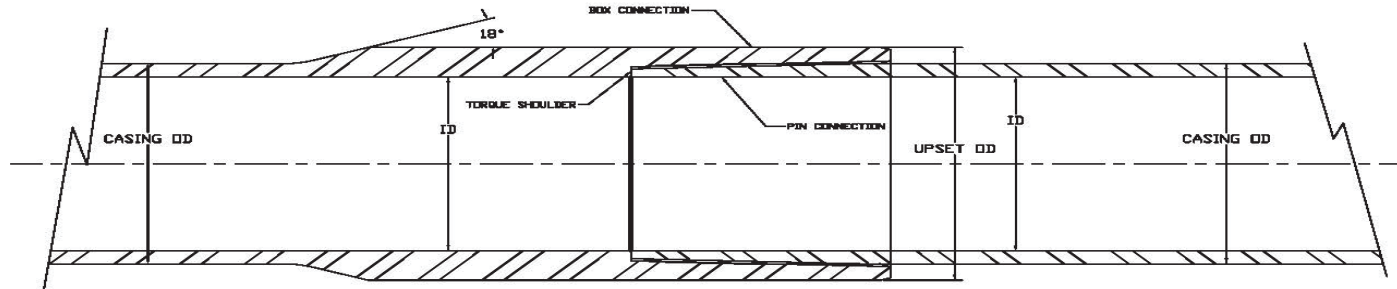


**4.500" 13.50#, P-110CY, PREMIUM SINGLE UPSET (SU) CASING,
RDT BTX CONNECTION (PATENT PENDING)**



PIPE BODY DATA					
OUTSIDE DIAMETER (in)	4.500	WALL THICKNESS (in)	0.290	GRADE	P-110CY
NOMINAL WEIGHT (T&C) (lb/ft)	13.500	NOMINAL ID (in)	3.920	API DRIFT (in)	3.795

PIPE BODY PERFORMANCE					
MINIMUM YIELD STRENGTH (psi)	110,000	MAXIMUM YIELD STRENGTH (psi)	125,000	MINIMUM TENSILE STRENGTH (psi)	125,000
TENSION YIELD (lbs)	422,000	INTERNAL PRESSURE YIELD (psi)	12,420	COLLAPSE PRESSURE (psi)	10,680
AVAILABLE SEAMLESS	YES	AVAILABLE WELDED	YES	PERFORMANCE BASED ON (RBW%)	100

CONNECTION DATA					
TYPE: RDT BTX		PIN CONNECTION OD (in)	4.500	MAKE-UP TORQUE MIN (ft-lbs)	4,000
PRESSURE CAPACITY (psi)	EXCEEDS PIPE	PIN CONNECTION ID (in)	3.920	MAKE-UP TORQUE OPTIMUM (ft-lbs)	6,600*
TENSION YIELD (lbs)	EXCEEDS PIPE	BOX CONNECTION OD (in)	5.200 - 5.250	MAX OPERATING TORQUE (ft-lbs)	11,400**
				CONNECTION YIELD TORQUE (ft-lbs)	12,000

* OPTIMUM TORQUE is shoulder torque 6,000 ft-lbs + 10% = 6,600 ft-lbs. This value can be verified on the rig after making up 10 connections to shoulder torque.

** The MAX OPERATING TORQUE includes a 5% SAFETY FACTOR on YIELD TORQUE

Values were obtained using Best-Of-Life 2000

RDT Premium Upset Casing is available in API, Enhanced API & Propriety Grades

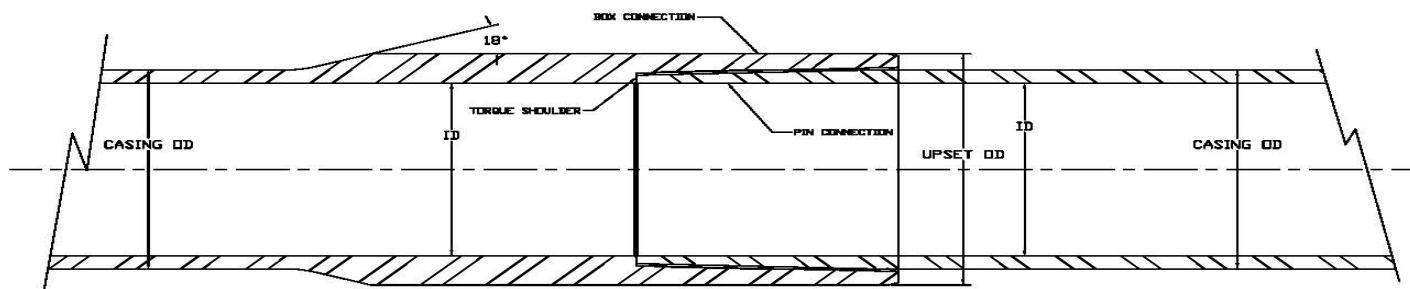
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All used figures have NO safety factor included for tension, temperature or general S.F. etc. unless otherwise stated.

4.500" 15.10#, CY110HC, PREMIUM UPSET CASING,

RDT BTX CONNECTION (PATENT PENDING)



PIPE BODY DATA					
OUTSIDE DIAMETER (in)	4.500	WALL THICKNESS (in)	0.337	GRADE	CY110HC
NOMINAL WEIGHT (T&C) (lb/ft)	15.10	NOMINAL ID (in)	3.826	API DRIFT (in)	3.701

PIPE BODY PERFORMANCE					
MINIMUM YIELD STRENGTH (psi)	110,000	MAXIMUM YIELD STRENGTH (psi)	125,000	MINIMUM TENSILE STRENGTH (psi)	125,000
TENSION YIELD (lbs)	485,000	INTERNAL PRESSURE YIELD (psi)	14,420	COLLAPSE PRESSURE (psi)	15,130

CONNECTION DATA					
TYPE: RDT BTX		PIN CONNECTION OD (in)	4.500	MAKE-UP TORQUE MIN (ft-lbs)	6,400
PRESSURE CAPACITY (psi)	EXCEEDS PIPE	PIN CONNECTION ID (in)	3.826	MAKE-UP TORQUE OPTIMUM (ft-lbs)	11000*
TENSION STRENGTH (lbs)	509,000	BOX CONNECTION OD (in)	5.250	MAX OPERATING TORQUE (ft-lbs)	18,525**
		MAKE UP LOSS (in)	4.2	CONNECTION YIELD TORQUE (ft-lbs)	19,500

* OPTIMUM TORQUE is shoulder torque 10000 ft-lbs + 10% = 11,000 ft-lbs. This value can be verified on the rig after making up 10 connections to shoulder torque.

** The MAX OPERATING TORQUE includes a 5% SAFETY FACTOR on YIELD TORQUE

Values were obtained using Bestolife 2000

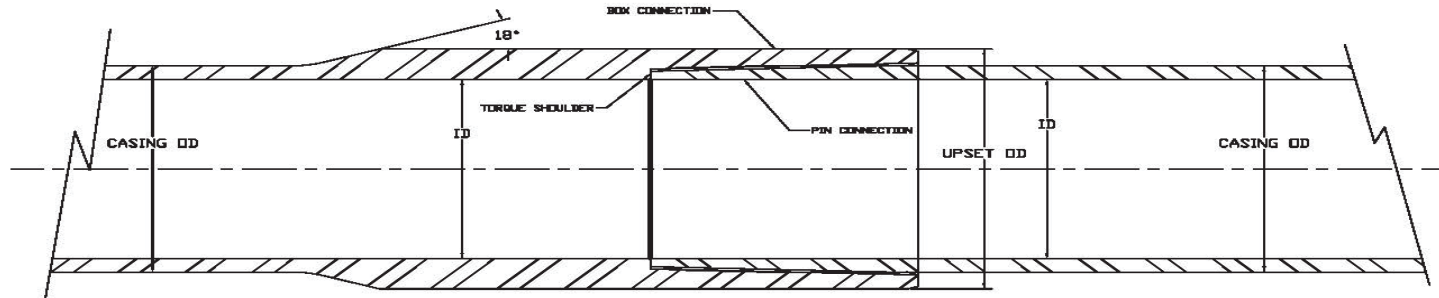
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**5.500" 20.00#, P-110CY, PREMIUM SINGLE UPSET (SU) CASING,
RDT BTX CONNECTION (PATENT PENDING)**



PIPE BODY DATA					
OUTSIDE DIAMETER (in)	5.500	WALL THICKNESS (in)	0.361	GRADE	P-110CY
NOMINAL WEIGHT (T&C) (lb/ft)	20.000	NOMINAL ID (in)	4.778	API DRIFT (in)	4.653

PIPE BODY PERFORMANCE					
MINIMUM YIELD STRENGTH (psi)	110,000	MAXIMUM YIELD STRENGTH (psi)	125,000	MINIMUM TENSILE STRENGTH (psi)	125,000
TENSION YIELD (lbs)	729,000	INTERNAL PRESSURE YIELD (psi)	11,106	COLLAPSE PRESSURE (psi)	13,150
AVAILABLE SEAMLESS	YES	AVAILABLE WELDED	YES	PERFORMANCE BASED ON (RBW%)	100

CONNECTION DATA					
TYPE: RDT BTX		PIN CONNECTION OD (in)	5.500	MAKE-UP TORQUE MIN (ft-lbs)	8,000
PRESSURE CAPACITY (psi)	EXCEEDS PIPE	PIN CONNECTION ID (in)	4.778	MAKE-UP TORQUE OPTIMUM (ft-lbs)	10,000*
TENSION YIELD (lbs)	EXCEEDS PIPE	BOX CONNECTION OD (in)	6.300	MAX OPERATING TORQUE (ft-lbs)	20,900**
				CONNECTION YIELD TORQUE (ft-lbs)	22,000

* OPTIMUM TORQUE is shoulder torque 9,000 ft-lbs + 10% = 10,000 ft-lbs. This value can be verified on the rig after making up 10 connections to shoulder torque.

** The MAX OPERATING TORQUE includes a 5% SAFETY FACTOR on YIELD TORQUE

RDT Premium Upset Casing is available in API, Enhanced API & Propriety Grades

Please contact your RDT representative for additional specification information.

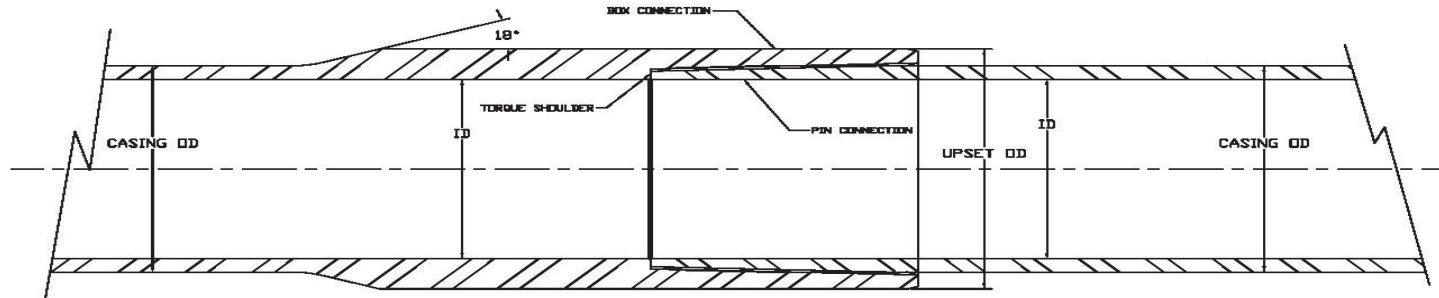
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Revised: 11-12-2015 by DM

**5.500" 23.00#, P-110CY, PREMIUM SINGLE UPSET (SU) CASING,
RDT BTX CONNECTION (PATENT PENDING)**



PIPE BODY DATA					
OUTSIDE DIAMETER (in)	5.500	WALL THICKNESS (in)	0.415	GRADE	P-110CY
NOMINAL WEIGHT (T&C) (lb/ft)	23.000	NOMINAL ID (in)	4.670	API DRIFT (in)	4.545

PIPE BODY PERFORMANCE					
MINIMUM YIELD STRENGTH (psi)	110,000	MAXIMUM YIELD STRENGTH (psi)	125,000	MINIMUM TENSILE STRENGTH (psi)	125,000
TENSION YIELD (lbs)	729,000	INTERNAL PRESSURE YIELD (psi)	14,520	COLLAPSE PRESSURE (psi)	14,540
AVAILABLE SEAMLESS	YES	AVAILABLE WELDED	YES	PERFORMANCE BASED ON (RBW%)	100

CONNECTION DATA					
TYPE: RDT BTX		PIN CONNECTION OD (in)	5.500	MAKE-UP TORQUE MIN (ft-lbs)	10,000
PRESSURE CAPACITY (psi)	EXCEEDS PIPE	PIN CONNECTION ID (in)	4.670	MAKE-UP TORQUE OPTIMUM (ft-lbs)	16,500*
TENSION YIELD (lbs)	EXCEEDS PIPE	BOX CONNECTION OD (in)	6.300	MAX OPERATING TORQUE (ft-lbs)	35,000**
				CONNECTION YIELD TORQUE (ft-lbs)	37,000

* OPTIMUM TORQUE is shoulder torque 15,000 ft-lbs + 10% = 16,500 ft-lbs. This value can be verified on the rig after making up 10 connections to shoulder torque.

** The MAX OPERATING TORQUE includes a 5% SAFETY FACTOR on YIELD TORQUE

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Revised: 11-12-2015 by DM