

GAARDIAN SRT

Selective Release & Recovery Tool

TECHNICAL DATA
5.25" OD

Specifications

MATERIAL - TOP SUB	SAE 4330 VMOD	
MATERIAL - HOUSING	SAE 4140	
MATERIAL - MANDREL	SAE 4330 VMOD	
TOOL OD	133.35mm	5.250"
TOOL MIN ID	57.15mm	2.250"
LENGTH SH TO SH	3.02m	119"
MIN MATERIAL YIELD	135 KSI	
MAX OPERATING TEMP	450°F (232°C) Standard Seals	

Strength Properties of Tool (100% Yield)

TORSIONAL YIELD POINT	Item A	32 700 Ft./Lbs	44 335 N*m
TENSILE YIELD POINT	Item A	678 000 lbf	301 589 daN
JARRING IMPACT LIMIT	Item B	720,000 lbf	320 272 daN

Torque Values (DS 40 Box x Pin)

#1 MAKE UP TORQUE	Item A	19 500 Ft./Lbs.	26 438 N*m
#2 MAKE UP TORQUE	Item C	19 500 Ft./Lbs.	26 438 N*m

Operational Data

SHEAR PINS- EACH	5000 lbf	Max 44 - 220,000 lbf
	2224 daN	Max 44 - 97,860 daN

To Shear:

- Slowly P/U drill string and monitor load until shear force is exceeded and weight drops off indicator.

To Release Off Tool:

- Set down drill string to neutral weight.
- Rotate RH or LH torque into drill string (depending on tool ran) and P/U slowly.
- Continue to work torque down hole while pulling slowly until tool releases.

To Relatch Tool:

- Set down while slowly rotating string.
- Once tool engages and slides down easy, stop rotating.
- No further rotation required - the tool is self-guiding.
- Continue to slide down until tool bottoms out.
- IF pumping while engaging, a pressure increase will confirm tool has seals engaged.
- Pick up string slowly until over pull is seen to confirm latch.
- Once over pull is noted, tool is ready for jarring operations.
- LH or RH torque can be applied in either tension or compression.



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RELEASE. RELATCH. RECOVER.

Item A
DS40 Box

Item B
Housing

Item C
DS 40 Pin

