

TECHNICAL INFORMATION:

STX-4500-0135-2001, 4.5 INCH 13.5 PPF.



CASING O.D. (in)	4.5
CASING WT. (lb/ft)	13.5
CASING I.D. (in)	3.920
PATCH MAX. RUNNING O.D. (in)	3.718
PATCH I.D. AFTER SETTING (in)	2.992
PATCH DRIFT I.D. (in)	2.867
BURST HYDRAULIC RATING (psi)	5000
COLLAPSE HYDRAULIC RATING (psi)	5000
BURST GAS RATING (psi)	5000
COLLAPSE COLLAPSE RATING (psi)	5000

QTY.	DESCRIPTION	PART NUMBER	MATERIAL
	STX-SPAN SYSTEM	STX-4500-0135-2001	NOTED
1	LOWER COMPLETION	STX-4500-0135-2100	NOTED
1	LOWER STINGER ASSEMBLY	STX-4500-0135-2200	NOTED
OPT.	STANDARD STINGER ASSEMBLY	STX-4500-0135-2600	NOTED
1	TOP STINGER ASSEMBLY	STX-4500-0135-2300	NOTED
1	TOP COMPLETION	STX-4500-0135-2400	NOTED
	GTX-4500-110	10 FT. SECTION	L-80
	GTX-4500-C110		13 Cr
	GTX-4500-105	5 FT. SECTION	L-80
	GTX-4500-C105		13 Cr
	GTX-4500-102	2 FT. SECTION	L-80
	GTX-4500-C102		13 Cr
	GTX-4500-120	20 FT. SECTION	L-80
	GTX-4500-C120		13 Cr

MINIMUM EQUIPMENT REQUIRED FOR A FULL SYSTEM CONSISTS ITEMS SHOWN

PRODUCT OFFERINGS:

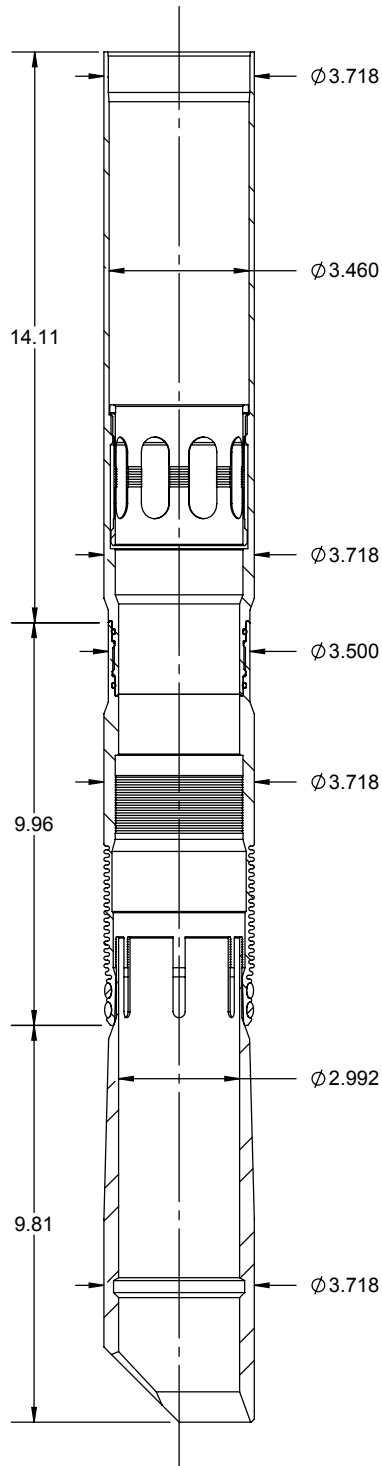
Our stackable X-SPAN® products allow for long straddle systems to be deployed into a live well control situation in multiple runs using wire-line, slick line, coil tubing or conventional tubing. The stackable system can utilize the X-SPAN® or GTX-SPAN® elements to isolate the top and bottom of the intended zone, while specially engineered seal assemblies are utilized between each sequential intermediate section. This technology allows for extremely long isolation systems to be deployed when lubricator length or well accessibility is an issue.

BENEFITS/CAPABILITIES:

- Can be deployed on wire line, slick line, coil tubing or jointed pipe.
- High pressure and high temperature applications.
- Unlimited lengths can be straddled
- Can incorporate standard off-the-shelf customer supplied tubulars as straddle base pipe material.
- Can incorporate sand screens, slotted liner, flow control devices such as profile nipples and sliding sleeves.

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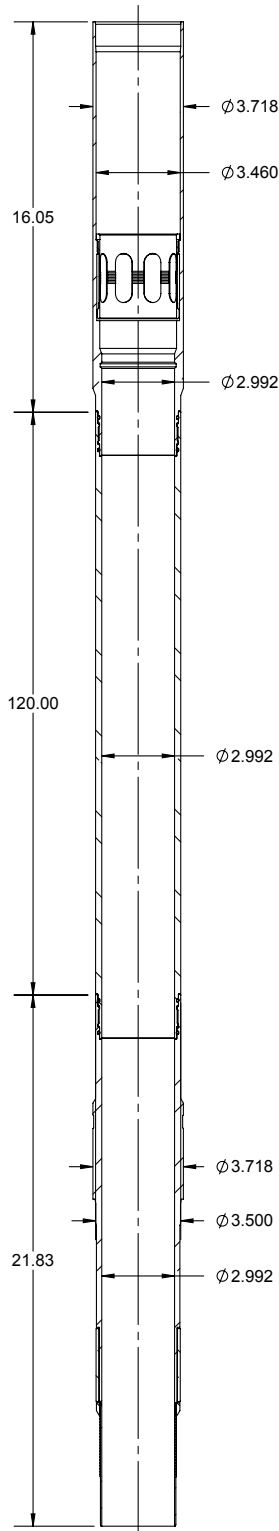
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COLLAPSE COLLAPSE RATING (psi)	5000

QTY.	DESCRIPTION	PART NUMBER	MATERIAL
	LOWER COMPLETION	STX-4500-0135-2100	NOTED
2	ELASTOMER	GTX-4500-0135-6000	HSN
1	BOX ELEMENT	GTX-4500-0135-2410	13 Cr
1	BOTTOM SWAGE	GTX-4500-0135-2310	SUPER / HYPER CHROME
1	O-RING	OOO-V569-151	VITON
1	O-RING	OOO-V569-152	VITON
1	60 K SHEAR RING	PAT-4500-047	4140
1	SET SCREW 1/4 INCH X 20 TPI, 5/16 INCH	PUR-0501-030	ALLOY
1	SLEEVE NUT	SET-3250-420	4140 / 4142
1	SETTING SLEEVE LOCK NUT	SET-3250-421	4140 / 4142
1	QUICK CHANGE ROD	SET-3250-130	4130 / 4140
1	QUICK CHANGE NUT	SET-3250-131	4130 / 4140
1	TOP ADAPTER ROD	SET-3250-132	4130 / 4140
1	ROD TANDEM CONNECTOR	SET-3250-133	4130 / 4140
1	BOTTOM ROD EXTENDED	SET-3250-136L	4130 / 4140
1	COLLET ASSEMBLY	SET-3250-447	NOTED
1	COLLET BODY	SET-3250-442	4140 / 4142
1	END SUB	SET-3250-443	4140 / 4142
1	COLLET SUPPORT	SET-3250-446A	4140 / 4142
1	LOWER RECEIVER	STX-4500-0135-2130	SUPER / HYPER CHROME
1	LATCH COLLET 90 L/H	STX-4500-0135-2553	SUPER / HYPER CHROME
1	SETTING SLEEVE UPPER	SET-3250-422A	4140 / 4142
1	SETTING SLEEVE LOWER	SET-3250-422B	4140 / 4142

MINIMUM EQUIPMENT REQUIRED

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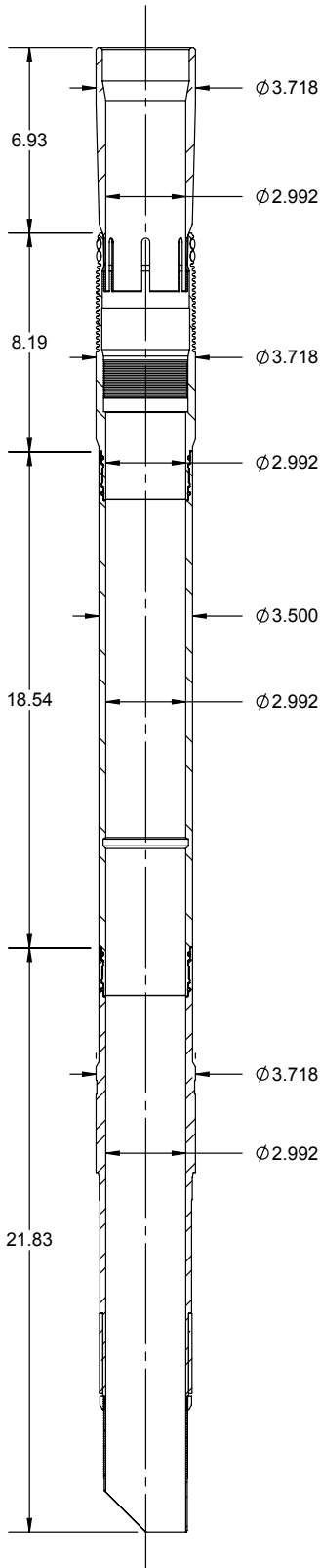
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BURST GAS RATING (psi)	5000
COLLAPSE COLLAPSE RATING (psi)	5000

QTY.	DESCRIPTION	PART NUMBER	MATERIAL
	LOWER STINGER ASSEMBLY	STX-4500-0135-2200	NOTED
1	LOWER STINGER W/ L/H WICKER	STX-4500-0135-2220	SUPER / HYPER CHROME
1	STANDARD RECEIVER	STX-4500-0135-2530	SUPER / HYPER CHROME
OPT.	10 FT. SECTION	GTX-4500-110C	13 CR
1	SEAL RET. W 90 WICKER L/H	STX-4500-0135-2555	13 CR
1	LATCH COLLET 90	STX-4500-0135-2551	SUPER / HYPER CHROME
1	SEAL STACK	STX-4500-0135-2500	VITON/TEFLON/Ryton
2	O-RING	OOO-V569-151	VITON
2	O-RING	OOO-V569-152	VITON
1	DEPLOYMENT AND RETRIEVAL TOOL	DRT-4500-0135-1001	NOTED
	STANDARD STINGER ASSEMBLY	STX-4500-0135-2600	NOTED
1	STANDARD STINGER	STX-4500-0135-2230	SUPER / HYPER CHROME
1	STANDARD RECEIVER	STX-4500-0135-2530	SUPER / HYPER CHROME
OPT.	10 FT. SECTION	GTX-4500-110C	13 CR
1	SEAL RET. W 90 WICKER	STX-4500-0135-2550	13 CR
1	LATCH COLLET 90	STX-4500-0135-2551	SUPER / HYPER CHROME
1	SEAL STACK	STX-4500-0135-2500	VITON/TEFLON/Ryton
2	O-RING	OOO-V569-151	VITON
2	O-RING	OOO-V569-152	VITON
1	DEPLOYMENT AND RETRIEVAL TOOL	DRT-4500-0135-1001	NOTED
	TOP STINGER ASSEMBLY	STX-4500-0135-2300	NOTED
1	STANDARD STINGER	STX-4500-0135-2230	SUPER / HYPER CHROME
1	TOP RECEIVER	STX-4500-0135-2330	SUPER / HYPER CHROME
OPT.	10 FT. SECTION	GTX-4500-110C	13 CR
1	SEAL RET. W 90 WICKER	STX-4500-0135-2550	13 CR
1	LATCH COLLET W/77 DEG	STX-4500-0135-2552	SUPER / HYPER CHROME
1	SEAL STACK	STX-4500-0135-2500	VITON/TEFLON/Ryton
2	O-RING	OOO-V569-152	VITON
2	O-RING	OOO-V569-151	VITON
1	DEPLOYMENT AND RETRIEVAL TOOL	DRT-4500-0135-1001	NOTED

MINIMUM EQUIPMENT REQUIRED FOR 10 FT. SYSTEM

TECHNICAL INFORMATION:

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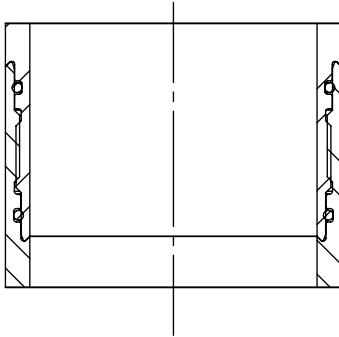
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PATCH I.D. AFTER SETTING (in)	2.992
PATCH DRIFT I.D. (in)	2.867
BURST HYDRAULIC RATING (psi)	5000
COLLAPSE HYDRAULIC RATING (psi)	5000
BURST GAS RATING (psi)	5000
COLLAPSE COLLAPSE RATING (psi)	5000

QTY.	DESCRIPTION	PART NUMBER	MATERIAL
	TOP COMPLETION	STX-4500-0135-2400	NOTED
2	ELASTOMER	GTX-4500-0135-6000	HSN
1	PIN ELEMENT	GTX-4500-0135-2210	13 Cr
1	TOP SWAGE	GTX-4500-0135-2110	SUPER / HYPER CHROME
2	O-RING	OOO-V569-151	VITON
2	O-RING	OOO-V569-152	VITON
1	SET SCREW 1/4 INCH X 20 TPI, 5/16 INCH	PUR-0501-030	ALLOY
1	60 K SHEAR RING	PAT-4500-047	4140
1	SLEEVE NUT	SET-3250-420	4140 / 4142
1	SETTING SLEEVE LOCK NUT	SET-3250-421	4140 / 4142
1	SETTING SLEEVE	SET-3250-422	4140 / 4142
1	QUICK CHANGE ROD	SET-3250-130	4130 / 4140
1	QUICK CHANGE NUT	SET-3250-131	4130 / 4140
1	TOP ADAPTER ROD	SET-3250-132	4130 / 4140
1	ROD TANDEM CONNECTOR	SET-3250-133	4130 / 4140
1	BOTTOM ROD EXTENDED	SET-3250-136L	4130 / 4140
1	COLLET ASSEMBLY	SET-3250-447	NOTED
1	COLLET BODY	SET-3250-442	4140 / 4142
1	END SUB	SET-3250-443	4140 / 4142
1	COLLET SUPPORT	SET-3250-446A	4140 / 4142
1	PROFILE SUB	STX-4500-0135-2450	SUPER / HYPER CHROME
1	SEAL RET. W 77 WICKER	STX-4500-0135-2554	13 Cr
1	SEAL STACK	STX-4500-0135-2500	VITON/TEFLON/Ryton
1	TOP STINGER W / 77 DEG WICKER	STX-4500-0135-2340	SUPER / HYPER CHROME

MINIMUM EQUIPMENT REQUIRED

SECTION SPECIFICATIONS:

STX-4500-0135-2001, 4.5 INCH 13.5 PPF.



PART NUMBER	LENGTH	OAL	WEIGHT	MATERIAL
GTX-4500-102	24	25.82	17.22	L-80
GTX-4500-102C	24	25.82	17.22	13 Cr
GTX-4500-105	60	61.82	43.16	L-80
GTX-4500-105C	60	61.82	43.16	13 Cr
GTX-4500-110	120	121.82	86.4	L-80
GTX-4500-110C	120	121.82	86.4	13 Cr
GTX-4500-120	240	241.82	172.86	L-80
GTX-4500-120C	240	241.82	172.86	13 Cr

SYSTEM WEIGHTS

	WEIGHT (LBS.)
STX-4500-0126-2100	80.6
STX-4500-0135-2200	158.0
STX-4500-0135-2300	158.0
STX-4500-0135-2600	158.0
STX-4500-0126-2400	93.8

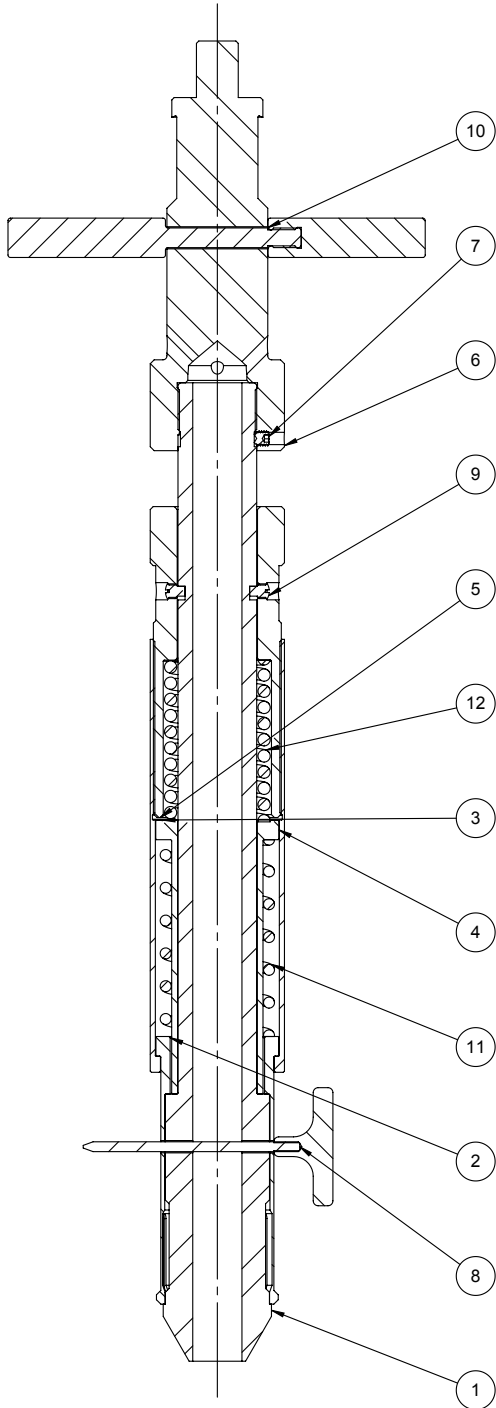
SETTING TOOL OPTIONS:

HYDRAULIC			WEIGHT (LBS)
3-1/8 INCH HYDARULIC	SET-3125-010		300
3-1/4 INCH MULTISTAGE SETTING TOOL INTERNALLY STROKED (HYDRAULIC)	SET-3250-410		287
	SCREEN SUB	TT0798-288A	
	CIRCULATION SUB	SET-2875-010	
	DUMP SUB	OT0710-288B-000	

PYROTECHNIC			WEIGHT (LBS)
3-1/4 INCH MULTISTAGE SETTING TOOL	SET-3250-000		206
3-1/4 INCH MULTISTAGE SETTING TOOL INTERNALLY STROKED	SET-3250-400		200
	POWER CHARGE	OPC-3250-000-MS	
	IGNITER	DET-5306-074	
		DET-5306-008	

TECHNICAL
INFORMATION:

DRT-4500-0135-1001



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DRT-4500-0135-1010	INNER MANDREL	1
2	DRT-4500-0135-1020	LOCKING COLLET	1
3	DRT-4500-0135-1030	COLLET HOUSING	1
4	DRT-4500-0135-1040	SPRING STOP	1
5	DRT-4500-0135-1050	SCREW HOUSING	1
6	DRT-4500-0135-1060	SUCKER ROD CONNECTION	1
7	PUR-0500-078	SOCKET HEAD SCREW 3/8-16X3/8	1
8	DRT-5500-0230-0010	INSTALLATION TOOL	1
	DRT-5500-0230-0011	SUPPORT ROD	1
	DRT-5500-0230-0012	HANDLE	1
9	DRT-2875-0065-1661	3/8-16 DOG NOSE 1/2 INCH	4
10	DRT-5500-0230-0020	HANDLING TOOL	1
	DRT-5500-0230-0021	PIN HANDLE	1
	DRT-5500-0230-0022	BOX HANDLE	1
11	ST-010-4500-1001	SET SPRING	1
12	ST-010-4500-1002	RELEASE SPRING	1