



VARCO SHAFFER
12950 WEST LITTLE YORK ROAD
HOUSTON, TX 77041 US

Item	20029012
Revision	
Date Printed	12/18/2006 08:47:01
Page	1 of 2

Item Bill of Material

Technical Publication for Single Level Bill of Material

Description	TENS ASSY, 250K, LH, INSTL MODEL,		
CCN	200 - VARCO SHAFFER	Weight	51000 LB

Component Details

Balloon Num	Item	Rev	Description	UM	Qty	Effective Start Date	Effective End Date
51	011367		SCREW, HHC, 1/2"-13UNCx1-1/2" LG, SAE J429Gr8 OR	EA	2.0000	06/29/06	
52	025084		WSHR, LK, HELICAL SPG, 1/2", REG, CAD PLTD	EA	2.0000	06/29/06	
27	050574		RG GSKT, R-39, 304SS, OVAL, 4-5M	EA	1.0000	06/29/06	
48	20003730		TRNSMTR ASSY, POS, HYD TYPE, 16.5' MAX	EA	1.0000	06/29/06	
12	20018359		LIFTING EYE, ASSY, VERT, RE, 250K TENS	EA	2.0000	06/29/06	
18	20018915		SCREW, HHC, 1 1/2"-8UNx2A X 7 1/4"LG, A320GrL7,	EA	3.0000	06/29/06	
	20029012D	-	DWG: TENS ASSY, 250K, LH, INSTL MODEL,	EA	As Required	06/29/06	
8	20029973		VLV ASSY, RIS RECOIL, PLUG TYPE, CV 30.9	EA	1.0000	06/29/06	
32	204099		VLV, SFTY, RELIEF, 2400 PSI, 3/4"FPT INLT, 1"FPT O	EA	1.0000	06/29/06	
30	204261		VLV, NEEDLE, 1/2", MPTxFPT, SS PNL MT, 6000#, REF:	EA	1.0000	06/29/06	
21	207277		WSHR, LK, SPLIT, 3/4", STL, CAD	EA	72.0000	06/29/06	
46	2115211		ELBOW, TUBE, 1/4"Tx1/4"MPT, SS	EA	2.0000	06/29/06	
31	213155		NMPLT, DATA, LRG NMP	EA	1.0000	06/29/06	
15	215071		WSHR, LK, SPLIT, 1-1/2", STL, CAD	EA	30.0000	06/29/06	
34	218973		WSHR, FL, CIRCULAR, HARDENED, 1-1/2", ASTM F436 T	EA	8.0000	06/29/06	
35	220611		NUT, LK, HX, HVY, 1-1/2"-8UNx 2B, A194Gr2H, CAD P	EA	4.0000	06/29/06	
45	222363		SWITCH, LIMIT, UL GENL PURPOSE 6" ORIFICE VLV, RIS	EA	2.0000	06/29/06	
36	223109		SCREW,HHC,1-1/2"-8UN-2Ax10 1/2"LG, A320 GrL7,	EA	4.0000	06/29/06	
40	224109		RG, SEAL, 5", F/RISER RECOIL SPL TO VLV ASSY	EA	1.0000	06/29/06	
37	224157		O-RING, 70 DURO	EA	2.0000	06/28/06	
43	224983		INTERFACE ASSY, VLV W/BYPASS, RISER RECOIL	EA	1.0000	06/29/06	
20	225462		SCREW, HHC, 3/4"-10UNCx6-1/2" LG, A320GrL7, CAD	EA	36.0000	06/29/06	
41	225828		ADPTR, SPL, 4"-2500#x4"-2500# RISER RECOIL VLV, 2	EA	1.0000	06/29/06	
1	226804		HSG ASSY, RE, 95.38"SHEAVE, 250K TENS	EA	1.0000	06/29/06	
2	226805		HSG ASSY, BE, LH, 95.38" SHEAVE, 250K TENS	EA	1.0000	06/29/06	
3	226935		ACCUM, 473 GAL, 250K TENS	EA	1.0000	06/29/06	
4	226936		RSVR ASSY, A/O, 303 GAL, 26" CYL, 250K TENS	EA	1.0000	06/29/06	
5	226937		CYL ASSY, 250K TENS	EA	1.0000	06/29/06	
6	226938		BRKT, MTG, RE, 26" CYL, 250K TENS	EA	1.0000	06/29/06	
7	226939		PIPING ASSY, LH, ACCUM, RE, 250K TENS	EA	1.0000	06/29/06	
9	226941		PIPING ASSY, A/O RSVR, LH, 250K TENS	EA	1.0000	06/29/06	
10	226942		STRAP, ACCUM, 250K TENS	EA	4.0000	06/29/06	
11	226943		STRAP, A/O RSVR, 250K TENS	EA	4.0000	06/29/06	
25	227613		PLT, ORIFICE, 6"-2500#, 250K TENS	EA	1.0000	06/29/06	
19	227640		SCREW,FLG,12PT,EXT,1-1/2"- 8UN-2Ax5"LG, A320L7,CAD	EA	8.0000	06/29/06	
14	227759		SCREW, HHC, 1-1/2"-8UN-2Ax 10-1/2"LG, A320GrL7, CA	EA	15.0000	06/29/06	
16	227761		NUT, 1-1/2"-8UN-2B, A194Gr4 OR A194Gr7, STD, LT, C	EA	24.0000	06/29/06	
22	227767		NUT, HX, 3/4"-10UNC, A194Gr4/7 STD, LT, CAD PLTD	EA	60.0000	06/29/06	
39	227767		NUT, HX, 3/4"-10UNC, A194Gr4/7 STD, LT, CAD PLTD	EA	36.0000	06/29/06	
23	227768		STUD, AT, 3/4"-10UNCx6"LG, A320GrL7, LT, CAD PLTD	EA	12.0000	06/29/06	
24	227769		SCREW, HHC, 3/4"-10UNC-2Ax 3-1/4"LG, A320GrL7, LT,	EA	12.0000	06/29/06	
26	227770		STUD & NUT ASSY, AT, 1-1/4"x8" LG, A320GrL7, LT, C	EA	8.0000	06/29/06	
49	227787		STRAP ASSY, MTG, F/PI, 250K TENS ASSY	EA	2.0000	06/29/06	
50	227788		BRKT, PI, RSVR, F/250K TENS ASSY	EA	1.0000	06/29/06	



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Page	2 of 2

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38	227826		STUD, TE, 3/4"-10UNCx4-1/4"LG, A320GrL7, CAD PLTD	EA	36.0000	06/29/06	
42	227834		PLUG, HX HD, 1/2"NPT, A350GrLF2, CAD PLTD	EA	1.0000	06/29/06	
17	227851		SCREW, HHC, 1-1/2"-8UN-2A x 8 1/4"LG, A320GrL7,	EA	4.0000	06/29/06	
33	228066		STUD, 1-1/2"-8UN-2Ax12-1/2"LG, A320GrL7, CAD PLTD	EA	2.0000	06/29/06	
13	228364		LIFT EYE, HORZ, RE, 250K TENS	EA	2.0000	06/29/06	
47	2302052		TBG, 00.25"x0.035"WALL, 316SS, SMLS	FT	5.0000	05/23/06	
29	5001265		O-RING, 70 DURO	EA	2.0000	06/29/06	
28	5017269		O-RING, 70 DURO	EA	1.0000	06/29/06	
53	8001359		SCREW, HHC, 3/8"-16UNCx1-3/4" LG, CAD PLTD	EA	2.0000	06/29/06	
44	8010243		SCREW, HHC, 5/8"-11UNCx1"LG, SS	EA	2.0000	06/29/06	
54	8020182		NUT, HX, 3/8"-16UNC, CAD PLTD	EA	2.0000	06/29/06	
55	8020910		WSHR, LK, 3/8", HELICAL SPG, REG, CAD PLTD	EA	2.0000	06/29/06	

End of Item Bill of Material 20029012