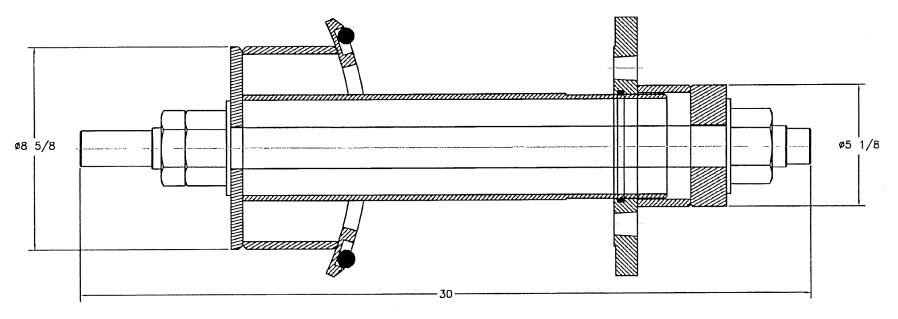


PATENT PENDING

UNLESS SPECIFIED TOLDWOOD 300 ± .013°	ES	Expansion Seal 334 Godsho Horieysville, PA 1943	IL Drive	
5000 ± .005" FRAC. ± 1/32" AH3. ± 1/2' MACAN SHAPP EDGES .010 MAX	GROUP	DRAWN BY JHM		27/02
DO NOT SCALE DRAWNO 125/ SUMFACE FROM	TANK NOZZLE TESTER		SHEET	SIZE
MFG APPROVAL	ISO VIEW	ISO VIEW ASSEMBLY		
MATERIAL N/A	PRAS6616-TNT06-PAGE2		NONE	REV NONE

DWG NO: PRAS6616-TNT06-PAGE2

PATENT PENDING



Design Specs for TNT		
Nozzle Size	6	inches
Tank OD	30	inches
Tank ID	28.25	inches
Flange Class	150	lbs.
Max. Test Pressure	450	psi
Total Nozzle Length (incl. Flange thk.)	12.842	inches
Nozzle Length inside of Tank	3	inches
Bolting Torque req'd for shaft	344	ft-lbs
Weight of Inner Weld Subassembly	53	lbs.
Weight of Modified Flange	36	lbs.
Weight of Outer Weld Subassembly	10	lbs.

DWG NO: PRAS6616-TNT06-PAGE1

				
UNLESS SPECIFIED TOLDWICE JOX ± .015" JOX ± .005"	ES	Techno ii Drive 8-2008	_	
FRAC. ± 1/32" AHG. ± 1/2"	GROUP	DRAWN BY JHM	DATE 3/	27/02
JAM DIO, ESPOS SANS NAME DO NOT SCALE DRAWNO	INC	APPROVED	DATE	
125/	TITLE		SHEET	SIZE
SURFACE FROM V	TANK NOZZLE TESTER FULL ASSEMBLY PART NUMBER			
MFG APPROVAL			1 OF 2	
MATERIAL.			SCALE	REV
N/A	PRAS6616-	-TNT06-PAGE1	NONE	NONE



World Headquarters: Expansion Seal Technologies 2701 Township Line Road Hatfield, PA 19440-1770 USA Tel: 1-215-721-1100 Fax: 1-215-721-1101 Toll-Free: 1-800-355-7044

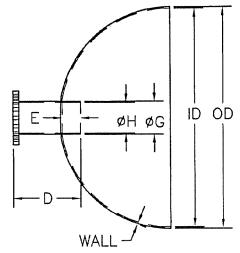
Expansion Seal Technologies - Europe Utrechthaven 11e 3433 PN Nieuwegein, The Netherlands Tel: +31-30-600-6180 Fax: +31-30-600-6188 Expansion Seal Technologies Asia Pte Ltd. 35 Tannery Rd, #11-10 Tannery Block Ruby Industrial Complex Singapore 347740 Tel: +65-6745-8560 Fax: +65-6742-8700

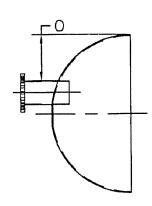
SPECIALISTS IN TUBE TESTING, SLEEVING AND PLUGGING TECHNOLOGY

DATE NEEDED:

AN ISO-9001 REGISTERED COMPANY

UITR	EQD:	QUUTE #
CUSTO	DMER:	PO #:
CONTA	ACT NAME:	TEL. #:
TABLE	1: TANK NOZZLE TESTER DESIGN SPECS	
	Max. Test Pressure (psi)	•
ID	Tank ID (inches) or List OD and Wall Thickness Below	
OD	Tank OD (inches)	
WALL	Tank Wall Thickness (inches)	
	Total Nozzle Length (inches)	
E	Max. Length of Nozzle inside of Tank (inches)	
	Max. DIA. of Nozzle Hole Cutout on Inside side of Tank (inches)	
	Pipe Nozzle Size (ex. 6" SCH 40)	
G	Pipe Nozzle OD (inches)	
Н	Pipe Nozzle ID (inches)	
	Flange Size (inches)	
	Flange Class (lbs)	
	Existence of Residual Chemicals? (Yes & Describe / No)	
	Is Nozzle centerline on same centerline as the Tank? (Yes/No)	
	If "NO", Continue to Table 2	





YOUR INITIALS:____

FIGURE 2: NOZZLE CONNECTION NOT ON VESSEL CENTERLINE

FIGURE 1: SIDE VIEW OF VESSEL AND NOZZLE

TANK NOZZLE TESTER IS PATENT PENDING.

TABLE 2: NOZZLE CONNECTION NOT ON VESSEL CENTERLINE (SPHERICAL HEAD)

Shortest Length from Tangent line of sphere to outer edge of pipe nozzle (inches). To obtain this length: 1) Place a level or straight edge along OD of spherical head so that it is parallel to the pipe nozzle. 2) Move level around OD of sphere until it is at the closest point to the OD of the pipe nozzle. 3) Measure the perpendicular distance from pipe OD to level



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DATE:_

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SPECIALISTS IN TUBE TESTING, SLEEVING AND PLUGGING TECHNOLO

___ DATE NEEDED:_

AN ISO-9001 REGISTERED COMPANY

QIII	(EQD	QUUIE #.	
CUST	OMER:	PO #:	
CONTACT NAME:		TEL. #:	
		a	
TABL	E 1: TANK NOZZLE TESTER DESIGN SPECS		
	Max. Test Pressure (psi)		
ID	Tank ID (inches) or List OD and Wall Thickness Below	·	
OD	Tank OD (inches)		
WALL	Tank Wall Thickness (inches)		
D	Total Nozzle Length (inches)		
E	Max. Length of Nozzle inside of Tank (inches)		
	Max. DIA. of Nozzle Hole Cutout on Inside side of Tank (inches)		
	Pipe Nozzle Size (ex. 6" SCH 40)		
G	Pipe Nozzle OD (Inches)		
Н	Pipe Nozzle ID (inches)		
	Flange Size (inches)		
	Flange Class (lbs)		
	Existence of Residual Chemicals? (Yes & Describe / No)		
	Is Nozzle centerline on same centerline as the Tank? (Yes/No)		
	If "NO", Continue to Table 2		

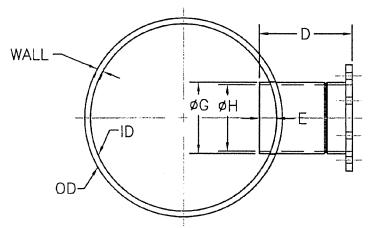


FIGURE 1- TOP VIEW OF TANK AND NOZZLE

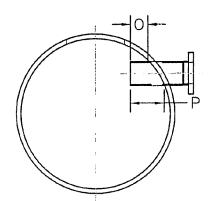


TABLE 2: NOZZLE CONNECTION NOT ON TANK CENTERLINE (CYLINDRICAL TANK)			
0	Short Side Length of Nazzle inside of Tank (inches)		
Р	Long Side Length of Nozzle inside of Tank (inches)		