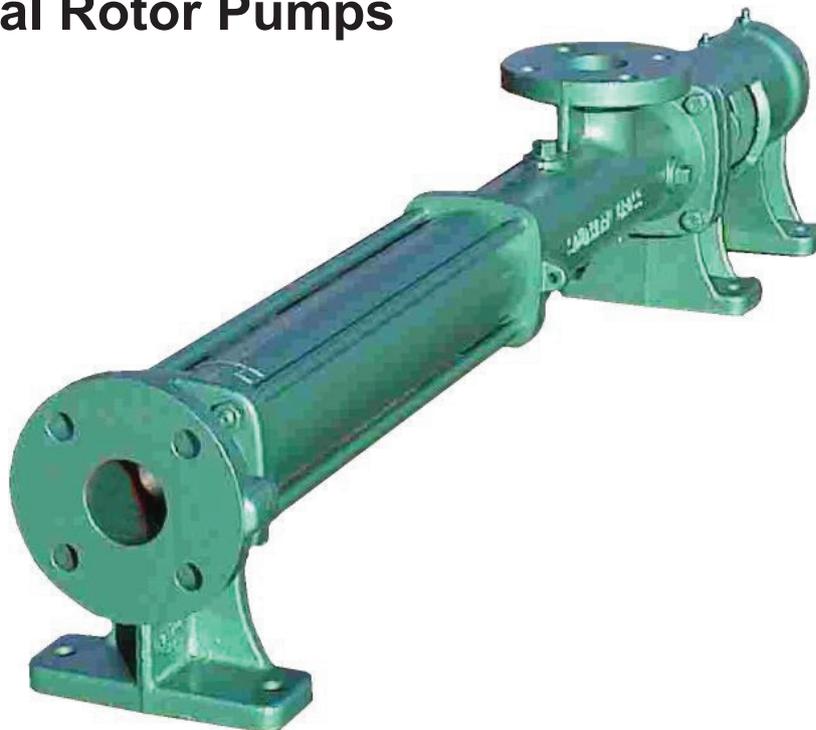




T Series

**Pedestal Mounted
Helical Rotor Pumps**



Installation, Operation and Maintenance Manual



Designed and Made in Australia



WARNING

The natural rubber stator will be damaged if it comes in contact with petroleum products. Where contact with petroleum products may be expected, the nitrile stator should be used.

INSTALLATION

WARNING

1. Install the pump under cover. Heat from the direct sun causes rubber to expand, resulting in the pump becoming tight.
2. This is a **Positive Displacement Pump**. Do not operate the pump against closed discharge or suction as this will cause severe damage to the pump.
3. Do not run pump dry.

DIRECTION OF ROTATION

The pump can be driven in either direction of rotation. Refer to "DIRECTION OF FLOW" in Appendix A: General Arrangement, page 10.

MOUNTING THE PUMP

The pump and motor should be set on a concrete block. If a steel base is used, it must be bolted to the concrete block before mounting the pump. If necessary, shim under feet of the pump so holding down bolts do not strain pump.

CONNECTING PIPES - IMPORTANT POINTS

1. Footvalve and Strainer is required for pump priming and to keep pump full at all times.
2. Keep a section of suction piping above the pump inlet to ensure stator does not drain dry.
3. Relief Valve (set slightly above working head) should be fitted in discharge line in installations where two or more diversion line are isolated by gatevalves, or where a float valve is fitted.
4. Checkvalves should be used in preference to gatevalves, as this eliminates the possibilities of leaving a gatevalve closed.
5. Ensure suction pipes and fittings are free from oil, grease, sealing compound and pipe thread cuttings.

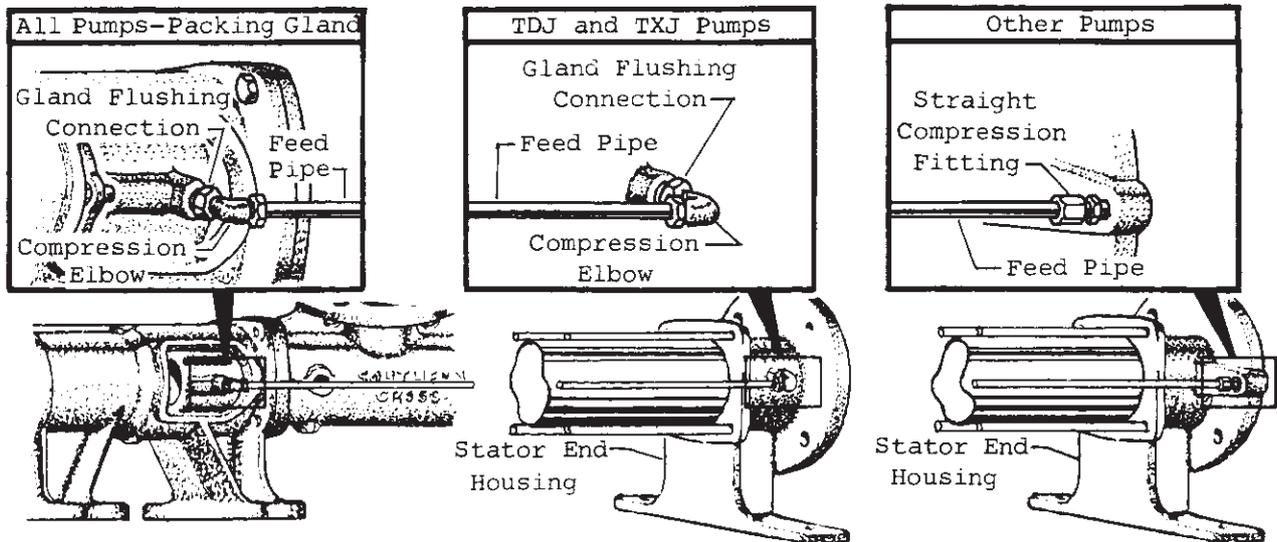
BYPASS PIPE (Engine Driven Pump)

Connect a bypass pipe, which includes a tee for priming and a gatevalve between suction and discharge pipes.

Section 1.....Installation

PACKING GLAND LUBRICATION FEED PIPE (if supplied)

1. Remove one plug from the packing gland housing and from the stator end housing on the same side of the pump. If the flange on the pump housing is arranged at 90° from the vertical, the plugs removed are those on the opposite side of the flange.
2. Fit the gland flushing connection and the compression elbow into the packing gland housing.



3. **TDJ and TXJ Pumps:** Fit the gland flushing connection and compression elbow to the stator end housing.
Other Pumps: Screw the straight compression fitting into the stator end housing.
4. Place the feed pipe through the opening on the join of the pump support foot (TDJ, TXJ pumps only) or the lug on the pump housing.
5. Fit the feed pipe into compression fittings at each end and tighten nuts on fittings.

GLAND LEAKAGE PIPE

A 3/8 in. B.S.P. hole in the pedestal allows a drain pipe to be fitted.

OPERATION

STARTING THE PUMP FOR THE FIRST TIME

Prime the pump, making sure the suction piping and pump cavities are full.

Start the pump. If bypass pipe is fitted, close gatevalve when engine has attained full speed.

Pump with Packing Gland: Ensure the gland is leaking at least 15 drops per minute to lubricate the packing. If leakage exceeds 30 drops per minute, refer section "To Adjust packing Gland".

Relief Valve (if used): Adjust until water just ceases to flow from valve.

TO ADJUST PACKING GLAND

Control leakage from the gland by tighteing nuts on gland studs evenly, one-sixth of a turn at a time. Allow ten minutes between each tightening to allow packing to adjust . After adjustment, ensure leakage is at least 15 drops per minute.

LUBRICATION

Bearings in pump are already greased. Further lubrication (1 teaspoonful at each nipple) is required every 2000 hours running.

Section 3.....Pump Disassembly Guide

PUMP DISASSEMBLY GUIDE

Disconnect the pump from the piping. Where a pressure gland feed tube is fitted, remove the tube (52), compression fittings and gland flushing connection (17/51).

1. Loosen bearing nut (22).
2. Remove rotor drive shaft capscrew (A/EE) and capscrew washer (30) from inside the pulley (14) or stub shaft (20/53).
3. Remove nuts (Z/KK) from stator tension studs (13/15) and lift away stator end housing (4/44).
4. Withdraw the stator (6/11/40/41). Turning the pump shaft will assist removal of the stator. If stator adaptor (5/45) and sealing ring (L) are fitted, remove these parts.
5. Support the rotor (3/59) by placing timber or rag between studs and the rotor.
6. Place a brass drift against the tapered end of the rotor drive shaft (27/42) and tap the shaft free.
7. Remove pulley (14) or stub shaft (20/53).
8. Withdraw the rotor (3/59) and rotor drive shaft (27/42), as an assembly. If the rotor or rotor drive shaft are to be replaced, refer to the section "To Separate Rotor or Rotor Drive Shaft".

WARNING: Handle rotor drive shaft assembly carefully. Any damage to the surface of the rotor drive shaft will render it unfit for use.

9. Remove setscrews attaching the pump housing (2/43) to the pedestal (1) and lever off the pump housing, leaving the seal housing (33/49, 35/50 or 8/46) in position in the pedestal. NOTE: There are levering slots in the pump housing to assist in separating the housing.
10. If a drive shaft shroud tube (61) is fitted, pull this tube from the hollow shaft (19).
11. Pump With Single Mechanical Seal- Remove the circlip (88) from the hollow shaft (19). Lift out mechanical seal spring and retaining washer. Remove the seal housing (33/49) and the carbon section, with its O-ring and retaining washer will come away with the housing.
12. Pump With Packed Gland/Double Mechanical Seal - Withdraw the packing gland housing (8/46) or double mechanical seal housing (35/50) from the hollow shaft.
13. Remove the rotor drive shaft seal (B/RIS) and rotor drive shaft seal collar (31/32) from end of hollow shaft (19).
14. Unscrew bearing nut (22) from the hollow shaft (19).
15. Remove the hollow shaft (19) by tapping on the pump end of the shaft with a piece of timber.
16. Unscrew bearing cap setscrews (X/GG) and remove bearing cap.
17. Remove shims (25/26/54 as used).
18. Remove bearing nut spacer (23) from the seal (C) at the pump end of the pedestal.
19. Place a piece of pipe against the inner race of the pump end bearing (E) and drive out the drive end bearing (D), bearing spacer (21) and cone of the pump end bearing (E).
20. Place a drift behind the cup of the pump end bearing (E) and remove the cup.
21. Remove bearing seals (C) from pedestal (1) and bearing cap (24).
22. Clean all grease from bearing chamber of the pedestal and wipe out clean.

PUMP ASSEMBLY GUIDE

1. Fit new bearing seals (C) to the pedestal (1) and bearing cap (24).
2. Fit bearings (D, E) and bearing spacer (21) to pedestal.
3. Attach bearing cap (24) to pedestal, omitting the shims (25,26 or 54). Make sure the bearing cap setscrews are tight.
4. Clean hollow shaft thoroughly.
5. Fit the bearing nut spacer (23) into the pump end seal (C) in the pedestal (large chamfered end first).
6. Fit the hollow shaft (19) through the bearing cap (24), bearings (O,E) and bearing spacer (21). Tap the hollow shaft fully home in the bearings and refit and tighten bearing nut (22).
7. Adjust bearings. If an indicator is not available, feeler gauges may be used between the bracket and the face of the hollow shaft.
 - 7a. Mount a bracket and indicator on the pump pedestal so the anvil of the indicator is against the drive end face of the hollow shaft (19).
 - 7b. Pull the hollow shaft out hard, towards the drive end of the pedestal and set the indicator to zero.
 - 7c. Push the hollow shaft in hard, towards the pump end of the pedestal and take a reading on the indicator. The difference in the readings gives the end float of the bearings, as assembled.
 - 7d. Select sufficient bearing shims to be added to reduce end float from zero to a maximum of 0.08 mm (0.003 inch). Shims are available in 0.08 mm (0.003 inch), 0.25 mm (0.01 inch) and 0.4 mm (0.016 inch) thicknesses.
 - 7e. Remove bearing nut and tap hollow shaft out.
 - 7f. Remove bearing cap (24) and fit the shims selected against the face of the drive end bearing and refit bearing cap, hollow shaft and bearing nut. Tighten bearing nut and recheck end float, as shown above.

PUMP WITH PACKED GLAND

8. Assemble the packing gland housing, as follows:
 - 8a. Place two rings of gland packing (18/156) into the gland housing (8/46).
 - 8b. Insert the lantern ring (7/48).
 - 8c. Fit three rings of gland packing.
 - 8d. Place the packing gland (9/47/158) in position on the studs and refit spring washers and nuts, but leave nuts loose.

PUMP WITH DOUBLE MECHANICAL SEAL

9. Assemble the mechanical seal housing, as follows:
 - 9a. Place the seal housing (35/50) upright.
 - 9b. Into one of the carbon sections fit the O-ring and retaining washer, so the O-ring is seated in the carbon section. Smear some grease around the O-ring.
 - 9c. Stand the assembly in the seal housing and place the spring on the retaining washer.
 - 9d. Similarly prepare the other seal and place it on the spring, so the rubbing face of the carbon section is facing upwards.
 - 9e. Place the mechanical seal retainer (34/36) on the housing and fit mechanical seal retainer setscrews (AA/HH).

Section 4.....Pump Assembly Guide**PUMP WITH SINGLE MECHANICAL SEAL**

10. Assemble the mechanical seal, as follows:
 - 10a. Place a piece of polythene pipe or very soft pine against the rubbing face of the mechanical seal seat and tap out the seat.

WARNING: Any marking on the rubbing face of the seat will render it unfit for use.

- 10b. Check condition of the O-ring seal in the seat and replace if necessary.
- 10c. Onto the shaft fit parts in the following order, pushing parts up to the bearing unit.
 - Mechanical seal retainer (57/58).
 - Mechanical seal seat, with O-ring in groove. Wipe some grease around the O-ring.
 - Carbon section, with O-ring.
 - Retaining washer. Fit retaining washer into carbon section and push around edges of washer to seat the O-ring on the shaft.
 - Spring and remaining retaining washer.
 - Retaining circlip (BB). Fit circlip into groove in hollow shaft (19).
 - Mechanical seal housing (33/49). Fit housing, lining up holes with those in pedestal.
 - O-ring (K).
 - Shroud tube (61) if used. Fit end onto hollow shaft.
- 10d. Lift pump housing (2/43) into position on pedestal and line up holes in the pump housing, seal housing and pedestal. Fit setscrews and tighten.
- 10e. Fit setscrews through mechanical seal retainer (57/58) and into the mechanical seal housing (33/49). Tighten setscrews evenly.

PUMP WITH PACKED GLAND/PUMP WITH DOUBLE MECHANICAL SEAL

- 11a. Fit assembly of packed gland or double mechanical seal, (as shown in sections 8 and 9), onto the hollow shaft (19) and line up holes with those in the pedestal.
- 11b. Fit shroud tube (61) - if used, onto end of the hollow shaft (19).
- 11c. Fit O-ring (K) and lift pump housing (2/43) into position on pedestal and tighten setscrews.

ALL PUMPS

12. Fit seal collar (31/32) into drive end of hollow shaft (19) and lit shaft seal (B,R,S) over the collar.
13. Examine taper in pulley (14) or stub shaft (20/53) to make sure it is clear of rust, etc.
14. Fit pulley or stub shaft.
15. If fitted, centralise shroud tube (61) in the pump housing (2/43).
16. Fit the rotor drive shaft and rotor assembly, through the pump housing and hollow shaft. Support the rotor. If a shroud tube (61) is used, make sure it locates on the rotor drive shaft locking collar (28).
17. Refit capscrew (A,EE) with capscrew washer (30) to drive end of rotor drive shaft (27/42) and tighten capscrew. Tighten capscrew to 13 ft/lbs on TXD, TXE and TDD pumps.
18. If a stator adaptor (5/45) and sealing ring (L) are included, fit these parts to the pump housing. Locate stator (6/11/40/41) over the rotor (3/59) and into the pump housing (2/43), or adaptor.
19. Fit stator end housing (4/44) onto stator (6/11/40/41) and stator tension studs (13/15).
20. Tighten nuts on tension studs.
21. Refit pressure gland lead tube (if used).

Section 4.....Pump Assembly Guide

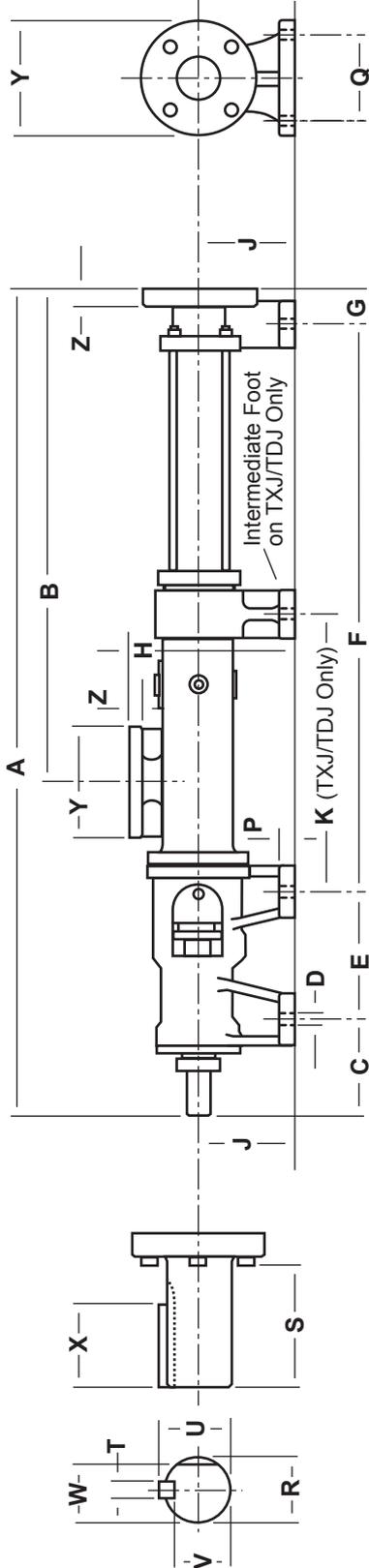
- NOTE:** 1. When assembly is complete, shim under feet of the pump to ensure pump sits level and no strain is placed on the pump.
2. Prime pump before starting.
3. Adjust packing gland (if fitted).

TO SEPERATE ROTOR AND ROTOR DRIVE SHAFT

1. Hold rotor drive shaft locking collar (28) by the flat sections, in a spanner or vice.
2. Fit spanner to flat section on rotor (3/59) and unscrew the locking collar - right hand thread. Lift out the rotor drive shaft collet (29).
3. Unscrew rotor drive shaft (27/42) from the rotor (3/59) - left hand thread.

When reassembling, reverse the above procedure , making sure the larger end of the taper in the collet is towards the rotor end of the drive shaft.

Appendix A.....General Arrangement Drawing



PUMP DIMENSIONS

PUMP	A	B	C	D	E	F	G	H	J	K	P	Q	PUMP MASS
TXD	801	373				464							25kg
TDD	914	486	122	14	171	576	44	197	114	-	14	102	27kg
TXE	842	414				505							28kg
TDE	1250	715				838		241					48kg
TXG	1141	606	161	14	203	729	48	241	140	-	16	140	48kg
TDG	1331	796				919		241					54kg
TXH	1304	750				892		254					64kg
TDH	1683	991				1145		292					102kg
TXJ	1805	1056	235	17	260	1267	43	311	178	714	19	191	128kg
TDJ	2149	1401				1611		311		714			147kg

SHAFT DIMENSIONS

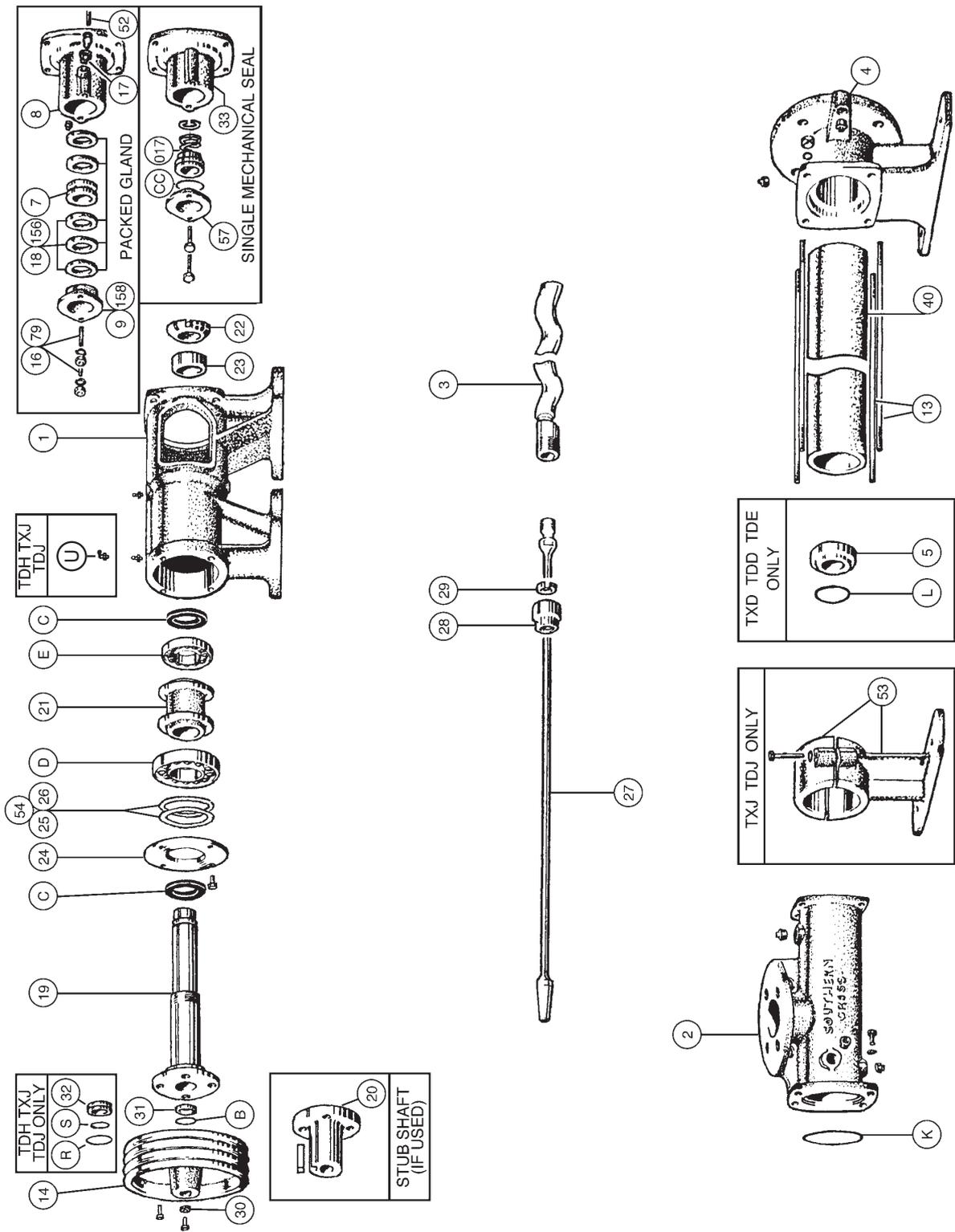
PUMP	R	S	T	U	V	W	X
TXD/DD/XE	28	49	8	31	24	27	35
TDE/XG/DG/XH	42	80	12	45	37	40	54
TDH/XJ/DJ	55	100	16	59	49	53	70

FLANGE DIMENSIONS — to A.S. 2129 Table 'E'

PUMP	NOM. SIZE	NO. OF HOLES	BOLT CIRCLE	HOLE DIAM	Y	Z
TXD/DD/XE	40 (1.5")	4	98	14	135	16
TDE/XG/DG	50 (2")	4	114	17	151	19
TXH/DH	80 (3")	4	146	17	185	19
TXJ/DJ	100 (4")	8	178	17	216	22

Appendix B.....Parts List

T Series Helical Rotor Parts List





Rotor/Stator Selection Chart

ROTOR	SIZE	STATOR	
		NATURAL	NITRILE
TDD003U	7		
TDD003W	9		
TDD003X	10	N/A	TDD040Y
TDD003Y	11	N/A	TDD040Z
TXD003W	9		
TXD003X	10	N/A	TXD040P
TXD003Y	11	N/A	TXD040Z
TXD003Z	12	N/A	TXD040Y
TXD003U	14	N/A	TXD040U
TDE003U	2		
TDE003W	4	N/A	TDE040U
TDE003Y	6	N/A	TDE040W
TXE003U	2		
TXE003W	4	N/A	TXE040U
TXE003Y	6	N/A	TXE040W
TDG003S	1		
TDG003V	3	N/A	TDG040S
TDG003W	5	N/A	TDG040U
TDG003X	7	N/A	TDG040X
TDG003H	9		
TXG003T	1		
TXG003V	3	N/A	TXG040S
TXG003X	5	N/A	TXG040U
TXG003H	9		
TDH003S	2		
TDH003V	4		
TDH003X	6	N/A	TDH040W
TDH003R	8	N/A	TDH040Y
TXH003T	2		
TXH003W	4		
TXH003Y	6	N/A	TXH040W
TXH003R	8	N/A	TXH040Y
TDJ003V	4		
TDJ003W	5	N/A	TDJ040W
TDJ003X	6	N/A	TDJ040X
TXJ003W	4	N/A	TXJ040U
TXJ003X	5	N/A	TXJ040V

Appendix B.....Parts List

TXD, TDD & TXE

ILLUS NO.	NO. PER UNIT	TXD PART NO.	TDD PART NO.	TXE PART NO.	DESCRIPTION
1	1	TXD001	TXD001	TXD001	Pedestal
2	1	TXD002	TXD002	TXD002	Pump Housing
3	1	TXD003*			Rotor
3	1		TDD003*		Rotor
3	1			TXE003*	Rotor
4	1	TXD004			Stator End Housing
4	1		TXD004		Stator End Housing
4	1			TXE004	Stator End Housing
5	1	TXD005	TXD005		Stator Adaptor
7	1	TXD007	TXD007	TXD007	Lantern Ring
8	1	TXD008	TXD008	TXD008	Packing Gland Housing
9	1	TXD009	TXD009	TXD009	Packing Gland
13	4	TXD013			Stator Tension Stud
13	4		TDD013		Stator Tension Stud
13	4			TXE013	Stator Tension Stud
017	1	XMS005	XMS005	XMS005	SX Single Mechanical Seal
18	5	NFC018	NFC018	NFC018	Gland Packing
19	1	TXD019	TXD019	TXD019	Hollow Shaft
20	1	TXD020	TXD020	TXD020	Stub Shaft
21	1	TXD021	TXD021	TXD021	Bearing Spacer
22	1	TXD022	TXD022	TXD022	Bearing Nut
23	1	TXD023	TXD023	TXD023	Bearing Nut Spacer
24	1	TXD024	TXD024	TXD024	Bearing Cap
25	As Req'd	TXD025	TXD025	TXD025	Bearing Shim .08mm
26	As Req'd	TXD026	TXD026	TXD026	Bearing Shim .25mm
27	1	TXD027	TXD027	TXD027	Rotor Drive Shaft
28	1	TXD028	TXD028	TXD028	Rotor Drive Shaft Locking Collar
29	1	TXD029	TXD029	TXD029	Rotor Drive Shaft Collet
30	1	TXD030	TXD030	TXD030	Rotor Drive Shaft Capscrew Washer
31	1	TXD031	TXD031	TXD031	Rotor Drive Shaft Seal Collar
33	1	TXD033	TXD033	TXD033	Single Mechanical Seal Housing
40	1	TXD040*			Stator - 70 SDH Nitrile
40	1		TDD040*		Stator - 70 SDH Nitrile
40	1			TXE040*	Stator - 70 SDH Nitrile
54	As Req'd	TXD054	TXD054	TXD054	Bearing Shim .4mm
57	1	TXD057	TXD057	TXD057	Single Mechanical Seal Retainer
79	2	NFA079	NFA079	NFA079	Packing Gland Stud
B	1	383001011	383001011	383001011	Rotor Drive Shaft Seal (Lurene AN6227-11 O-Ring)
C	2	382005031	382005031	382005031	Bearing Seal (PR5073)
CC	1	383002004	383002004	383002004	Single Mechanical Seal Ring Retainer O-Ring (AN6230-4 O-Ring)
D	1	477301570	477301570	477301570	Drive End Bearing Cone (Timken Bearing Cone LM67048)
D	1	477301572	477301572	477301572	Drive End Bearing Cup (Timken Bearing Cup LM67014)
E	1	477301562	477301562	477301562	Pump End Bearing Cup (Timken Bearing Cup LM67010)
E	1	477301570	477301570	477301570	Pump End Bearing Cone (Timken Bearing Cone LM67048)
K	1	383002010	383002010	383002010	Pump Housing to Pedestal Sealing Ring (Lurene AN6230-10 O-Ring)
L	1	383002007	383002007		Stator Adaptor to Pump Housing Sealing Ring (AN6230-7 O-Ring)

* Refer to rotor/stator selection chart

Appendix B.....Parts List

TDE, TXG & TXH

ILLUS NO.	NO. PER UNIT	TDE PART NO.	TXG PART NO.	TDG PART NO.	TXH PART NO.	DESCRIPTION
1	1	TDE001	TDE001	TDE001	TDE001	Pedestal
2	1	TDE002	TDE002	TDE002		Pump Housing
2	1				TXH002	Pump Housing
3	1	TDE003*				Rotor
3	1		TXG003*			Rotor
3	1			TDG003*		Rotor
3	1				TXH003*	Rotor
4	1	TDE004				Stator End Housing
4	1		TXG004	TXG004		Stator End Housing
4	1				TXH004	Stator End Housing
5	1	TDE005				Stator Adaptor
7	1	TDE007	TDE007	TDE007	TDE007	Lantern Ring
8	1	TDE008	TDE008	TDE008	TDE008	Packing Gland Housing
9	1	NGE009	NGE009	NGE009	NGE009	Packing Gland
13	4	TDE013				Stator Tension Stud
13	4		TXG013			Stator Tension Stud
13	4			TDG013		Stator Tension Stud
13	4				TXH013	Stator Tension Stud
17	1	XMS007	XMS007	XMS007	XMS007	SX Single Mechanical Seal
18	5	NGE018	NGE018	NGE018	NGE018	Gland Packing
19	1	TDE019	TDE019	TDE019	TDE019	Hollow Shaft
20	1	TDE020	TDE020	TDE020	TDE020	Stub Shaft
21	1	TDE021	TDE021	TDE021	TDE021	Bearing Spacer
22	1	TDE022	TDE022	TDE022	TDE022	Bearing Nut
23	1	TDE023	TDE023	TDE023	TDE023	Bearing Nut Spacer
24	1	TDE024	TDE024	TDE024	TDE024	Bearing Cap
25	As Req'd	TDE025	TDE025	TDE025	TDE025	Bearing Shim .08mm
26	As Req'd	TDE026	TDE026	TDE026	TDE026	Bearing Shim .25mm
27	1	TDE027	TDE027	TDE027	TXH027	Rotor Drive Shaft
28	1	TDE028	TDE028	TDE028	TDE028	Rotor Drive Shaft Locking Collar
29	1	TDE029	TDE029	TDE029	TDE029	Rotor Drive Shaft Collet
30	1	TDE030	TDE030	TDE030	TDE030	Rotor Drive Shaft Capscrew Washer
31	1	TDE031	TDE031	TDE031	TDE031	Rotor Drive Shaft Seal Collar
33	1	TDE033	TDE033	TDE033	TDE033	Single Mechanical Seal Housing
40	1	TDE040*				Stator - 70 SDH Nitrile
40	1		TXG040*			Stator - 70 SDH Nitrile
40	1			TDG040*		Stator - 70 SDH Nitrile
40	1				TXH040*	Stator - 70 SDH Nitrile
79	2	NFA079	NFA079	NFA079	NFA079	Packing Gland Studs
C	2	382005042	382005042	382005042	382005042	Bearing Seal (PR3168)
D	1	477301520	477301520	477301520	477301520	Drive End Bearing Cone (Timken Bearing Cone 25590)
D	1	477301522	477301522	477301522	477301522	Drive End Bearing Cup (Timken Bearing Cup 25520)
E	1	477301535	477301535	477301535	477301535	Pump End Bearing Cone (Timken Bearing Cone LM603049)
E	1	477301537				Pump End Bearing Cup (Timken Bearing Cup LM603011)
K	1	383002018	383002018	383002018	383002018	Pump Housing to Pedestal Sealing Ring (AN6230-18)
L	1	383002012				Stator Adaptor to Pump Housing Sealing Ring (AN6230-12)
B	1	383001017	383001017	383001017	383001017	Rotor Drive Shaft Seal (Lurene AN6227-17 O-Ring)

* Refer to rotor/stator selection chart

Appendix B.....Parts List

TDH, TXJ & TDJ

ILLUS NO.	NO. PER UNIT	TDH PART NO.	TXJ PART NO.	TDJ PART NO.	DESCRIPTION
1	1	TDH001	TDH001	TDH001	Pedestal
2	1	TDH002			Pump Housing
2	1		TXJ002	TXJ002	Pump Housing
3	1	TDH003*			Rotor
3	1		TXJ003*		Rotor
3	1			TDJ003*	Rotor
4	1	TDH004			Stator End Housing
4	1		TXJ004	TXJ004	Stator End Housing
7	1	TDH007	TDH007	TDH007	Lantern Ring
8	1	TDH008	TDH008	TDH008	Packing Gland Housing
13	4	TDH013			Stator Tension Stud
13	4		TXJ013		Stator Tension Stud
13	4			TDJ013	Stator Tension Stud
16	2	PFK016	PFK016	PFK016	Packing Gland Stud
19	1	TDH019	TDH019	TDH019	Hollow Shaft
20	1	TDH020	TDH020	TDH020	Stub Shaft
021	1	XMS021	XMS021	XMS021	SX Single Mechanical Seal
21	1	TDH021	TDH021	TDH021	Bearing Spacer
22	1	TDH022	TDH022	TDH022	Bearing Nut
23	1	TDH023	TDH023	TDH023	Bearing Nut Spacer
24	1	TDH024	TDH024	TDH024	Bearing Cap
25	As Req'd	TDH025	TDH025	TDH025	Bearing Shim .08mm
26	As Req'd	TDH026	TDH026	TDH026	Bearing Shim .25mm
27	1	TDH027			Rotor Drive Shaft
27	1		TXJ027	TXJ027	Rotor Drive Shaft
28	1	TDE028			Rotor Drive Locking Collar
28	1		TXJ028	TXJ028	Rotor Drive Locking Collar
29	1	TDH029			Rotor Drive Shaft Collet
29	1		TXJ029	TXJ029	Rotor Drive Shaft Collet
30	1	TDH030B	TDH030B	TDH030B	Rotor Drive Shaft Capscrew Washer
32	1	TDH032	TDH032	TDH032	Rotor Drive Shaft Seal Body
33	1	TDH033	TDH033	TDH033	Single Mechanical Seal Housing
40	1	TDH040*			Stator - 70 SDH Nitrile
40	1		TXJ040*		Stator - 70 SDH Nitrile
40	1			TDJ040*	Stator - 70 SDH Nitrile
53	1		TXJ053	TXJ053	Pump Support Foot
57	1	TDH057	TDH057	TDH057	Single Mechanical Seal Retainer
156	5	PDH156	PDH156	PDH156	Gland Packing
158	1	PDH158	PDH158	PDH158	Packing Gland
C	2	382005055	382005055	382005055	Bearing Seal (PR3230)
D	1	477301545	477301545	477301545	Drive End Bearing Cone (Timken Taper Roller Bearing Cone 66589)
D	1	477301547	477301547	477301547	Drive End Bearing Cup (Timken Taper Roller Bearing Cup 66520)
E	1	477301530	477301530	477301530	Pump End Bearing Cone (Timken Taper Roller Bearing Cone 3979)
E	1	477301532	477301532	477301532	Pump End Bearing Cup (Timken Taper Roller Bearing Cup 3920)
K	1	383002025	383002025	383002025	Pump Housing to Pedestal Sealing Ring (Lurene AN6230-25 O-Ring)
R	1	383001019	383001019	383001019	Rotor Drive Shaft Seal - Inner (Lurene AN6227-19 O-Ring)
S	1	383002001	383002001	383002001	Rotor Drive Shaft Seal - Outer (Lurene AN6230-1 O-Ring)

* Refer to rotor/stator selection chart



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