



TRISEAL PTY LTD
Protecting Industry and the Environment™

FIRE PUMP



TRISEAL MECHANIAL SEAL UPGRADES FOR TRUCK MOUNTED FIRE PUMPS



INTRODUCTION

In conjunction with various end users Triseal have developed and engineered mechanical seals to take the place of the existing soft packing. Our primary goal in retrofitting mechanical seals into truck mounted fire pumps is to maintain existing engineering integrity of the equipment and to minimise any pump modifications. In most cases Triseal seal upgrades bolt into existing pump housing cavities, all parts are provided with comprehensive engineering drawings and installation details that interface with OEM pump rebuild manuals. Triseal has also adopted the approach of where necessary improving and upgrading existing pump components to superior alloys, while maintaining OEM fits and tolerances.

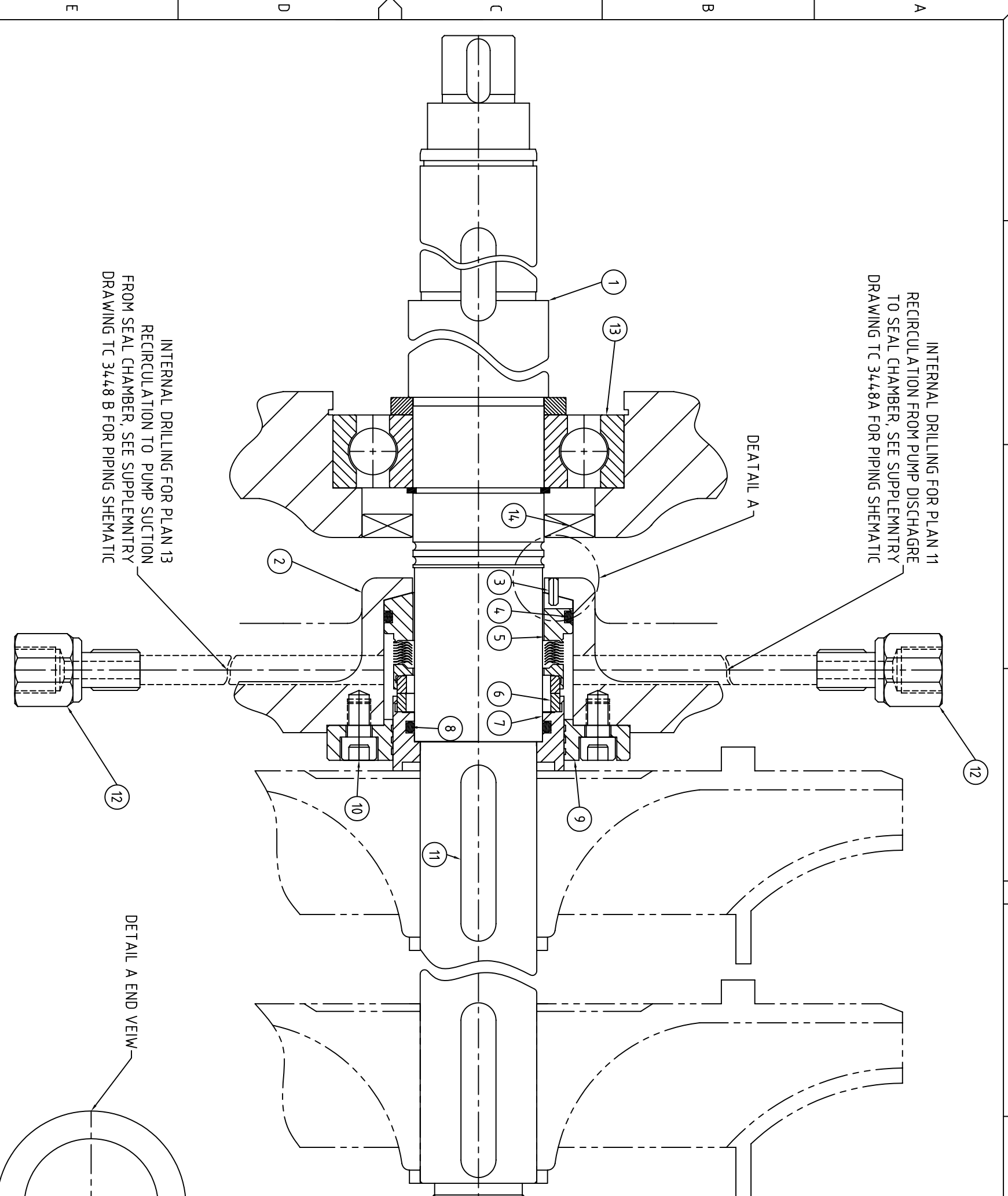
AVAIABLE UPGRADES

Pump Brand	Model	Triseal Part Numbers
Darley	SE & SEH 1 st & 2 nd Stage	TC2274
	Booster pump	TC2275
Darley	LDM & LDMH	TC2482
	Booster Pump	TC2837
Darley	EM & EMH	TC3897
	Booster Pump	TC3161
Darley	PSE	TC3138
Darley	KSP & KSPH	TC2751
	Booster Pump	TC2752
Darley	JMP	TC2383

NOTE: No New Pump Casings Required With Triseal Darley Seal Upgrades

Pump Brand	Model	Triseal Part Number
Waterous	CSHK & CS	TC2740
	Booster Pump	TC2819
Waterous	CPK	TC2846
Godiva	UMPX	TC2374
Rosenbauer	RM600	TC3432

BILL OF MATERIAL				
ITEM	QTY	PART NO.	MATERIAL	DESCRIPTION
1	1	TC3442 REV 1	DUPLEX 2205	PUMP SHAFT
2	1	EXISTING	ALUMINIUM	SEAL HOUSING
3	1	TC2372 -15-S20	316S/S	ANTI ROTATION PIN
4	1	513 AJ-228	NITRILE	O-RING
5	1	209-X28	ALLOY 625 / CARBON	WMB SEAL
6	1	201XXS TC2330-X28	SILICON CARBIDE	ROTARY INSERT
7	1	TC3443 REV 1	DUPLEX 2205	MR ADAPTER
8	1	513AJ-224	NITRILE	ORING
9	1	TC3444	HT ALUMINIUM	LABYRINTH
10	4	M8 X 10 CS	316S/S	M8 X 10 CAP HEAD SCREWS
11	2	TC3445	316S/S	M12 X 7 X 67 SHAFT KEY
12	2	TC3446	316S/S	NPT TO METRIC ADAPTER
13	1	6309-2RS1	STEEL	BALL BEARING
14	1	TC12582	NITRILE	LIP SEAL
15	3	SS-600-2-6	316S/S	3/8 TUBE 3/8 NPT ELBOW
16	1	SS-600-1-6	316S/S	3/8 TUBE 3/8 NPTCONNECTOR



INTERNAL DRILLING FOR PLAN 11
 RECIRCULATION FROM PUMP DISCHARGE
 TO SEAL CHAMBER, SEE SUPPLEMENTRY
 DRAWING TC 3448A FOR PIPING SCHEMATIC

INTERNAL DRILLING FOR PLAN 13
 RECIRCULATION TO PUMP SUCTION
 FROM SEAL CHAMBER, SEE SUPPLEMENTRY
 DRAWING TC 3448 B FOR PIPING SCHEMATIC

DRILL 1 X 3.17 / 1/8" Ø HOLE
 ON A 51.5 PCD, ORINATION NOT
 IMPORTANT

REV	DATE	ECN	SIGNED	SPEED	FLUID	TEMP.	VISC.	VP	SG	SUCT. PRESS.	DISC PRESS.	S/BOX PRESS.	ITEM No.	PIPING PLAN
1					WATER WITH FOAM	AMBIENT TO 75°			1.0	0.10 TO 7 BAR	20 BAR	7 BAR		PLANS 11 & 13

REV	DATE	ECN	SIGNED	SPEED	FLUID	TEMP.	VISC.	VP	SG	SUCT. PRESS.	DISC PRESS.	S/BOX PRESS.	ITEM No.	PIPING PLAN
1					WATER WITH FOAM	AMBIENT TO 75°			1.0	0.10 TO 7 BAR	20 BAR	7 BAR		PLANS 11 & 13

DATE	CHECKED	DRAWN	SCALE	SHEET SIZE	DATE	CHECKED	DRAWN	SCALE	SHEET SIZE
15/02/2006		REILLY		A3	15/02/2006		REILLY		A3

END USER	END USER	END USER	END USER	END USER
VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS

CUSTOMER	END USER	END USER	END USER	END USER
TRISEAL	VARIOUS	VARIOUS	VARIOUS	VARIOUS

TITLE	TITLE	TITLE	TITLE	TITLE
GENERAL ASSEMBLY	GENERAL ASSEMBLY	GENERAL ASSEMBLY	GENERAL ASSEMBLY	GENERAL ASSEMBLY

DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER
TC3432 REV 1	TC3432 REV 1	TC3432 REV 1	TC3432 REV 1	TC3432 REV 1

TRISEAL PTY LTD
 Protecting Industry
 and the Environment
 ACN 066 343 495
 UNIT 2/30 ACHIEVEMENT WAY
 WANGGARA WA 6065
 Ph : 08 9302 3833
 Fx : 08 9302 2933
 EMAIL : triseal@ca.com.au



DATE	CHECKED	DRAWN	SCALE	SHEET SIZE	CUSTOMER	END USER	END USER	END USER	END USER
15/02/2006		REILLY		A3	TRISEAL	VARIOUS	VARIOUS	VARIOUS	VARIOUS