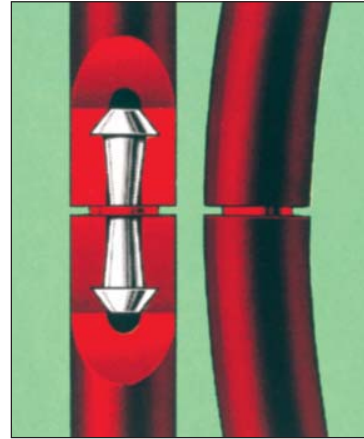


JOINING

USING THE ORIGINAL PATENTED INTERNAL FASTENER

- Check length of belting, reduce length by 7%, cut to length
- Using long nose pliers, insert fastener into the tube, taking care not to damage the flange.
- Insert the fastener into the tube at an angle and “walk” in until completely home
- Insert the fastener into the other end of the tube using the same principle to form an endless belt
- This operation may be carried out on the machine if necessary
- Stretch on to pulleys

Patent connector for use with tubular Redthane.



WELDING PROCEDURE



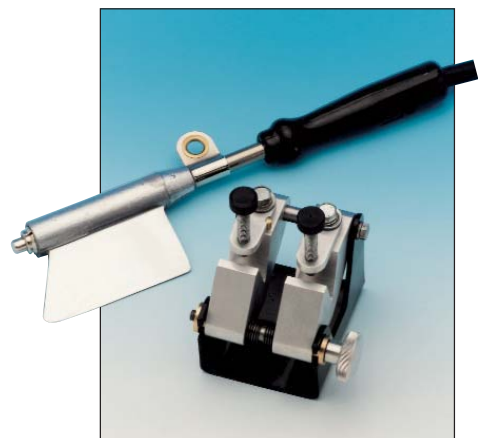
1. Cut appropriate belt to required length and insert into jig, leaving gap for welding blade.



3. Join melted ends together.



2. Melt the ends using the welding tool.



4. Allow to cool, remove from jig and remove flash.

TECHNICAL DATA

THE TABLES BELOW WILL ALLOW YOU TO CALCULATE THE CORRECT BELT SIZE TO USE FOR YOUR APPLICATION

MINIMUM PULLEY DIAMETERS IN MM		
SECTION	REDTHANE	GREENTHANE
3mm Solid	25	30
4mm Solid	35	50
5mm Solid	40	50
5mm Tubular	50	N/A
6mm Solid	50	60
6mm Tubular	60	N/A
8mm Solid	65	80
8mm Tubular	80	N/A
10mm Solid	80	100
10mm Tubular	100	N/A
10mm Vee	65	N/A
12mm Solid	85	120
12mm Tubular	120	N/A
13mm Vee	85	N/A
17mm Vee	150	N/A
20mm Vee	170	N/A

BELT SELECTION

Determine arc of contact factor from the following table

D = Large Pulley Dia. (mm) d = Small Pulley Dia. (mm) X = Distance between Centres (mm)

D - d X	20	30	40	50	60	80	100	120	150	200
100	1.05	1.07	1.10	1.14	1.17	1.25	1.35	1.46	-	-
120	1.04	1.06	1.09	1.11	1.14	1.18	1.28	1.35	-	-
140	1.03	1.05	1.08	1.09	1.12	1.16	1.20	1.28	1.35	-
200	1.02	1.04	1.07	1.08	1.09	1.12	1.14	1.18	1.28	1.40
250	1.01	1.03	1.05	1.07	1.08	1.09	1.10	1.13	1.17	1.25
300	1.00	1.02	1.05	1.06	1.06	1.07	1.08	1.10	1.14	1.18
400	-	-	1.03	1.05	1.04	1.06	1.07	1.08	1.10	1.15
500	-	-	-	-	1.03	1.04	1.05	1.06	1.08	1.10
600	-	-	-	-	-	-	1.04	1.05	1.07	1.08
800	-	-	-	-	-	-	-	-	1.04	1.06

Multiply power to be transmitted by arc of contact factor to obtain corrected power.

Calculate belt speed (in metres per second) and select belt option from following table.

POWER TRANSMITTED KW										
Speed D - d	REDTHANE at 7% TENSION (TUBULAR)					GREENTHANE at 8% TENSION (SOLID)				
	5 mm	6 mm	8 mm	10 mm	12 mm	5 mm	6 mm	8 mm	10 mm	12 mm
2.5	0.06	0.09	0.15	0.20	0.35	0.07	0.10	0.17	0.26	0.41
5	0.12	0.17	0.34	0.45	0.70	0.14	0.20	0.38	0.60	0.83
10	0.22	0.34	0.58	0.85	1.30	0.26	0.38	0.62	1.05	1.50
15	0.33	0.50	0.91	1.20	1.90	0.38	0.56	1.05	1.50	2.25
20	0.39	0.58	1.00	1.50	2.20	0.41	0.60	1.07	1.58	2.40
STATIC BEARING LOAD KG										
	7	10	20	27	40	8	14	23	30	50

The above values are theoretical and for guidance only.

Users should satisfy themselves as to the suitability of any particular belt for their applications.

**SHOULD YOU REQUIRE FURTHER ASSISTANCE,
PLEASE CONTACT OUR TECHNICAL SERVICES DEPARTMENT**

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- PRINTING, PAPER AND BOARD
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- GLASS
- CERAMICS
- PHARMACEUTICAL
- MATERIALS HANDLING

- Welded belts
- Injection moulded belts
- Wipers
- Squeegees
- Hinges
- Seismic streamers
- Hydraulic hose burst protection sleeving

