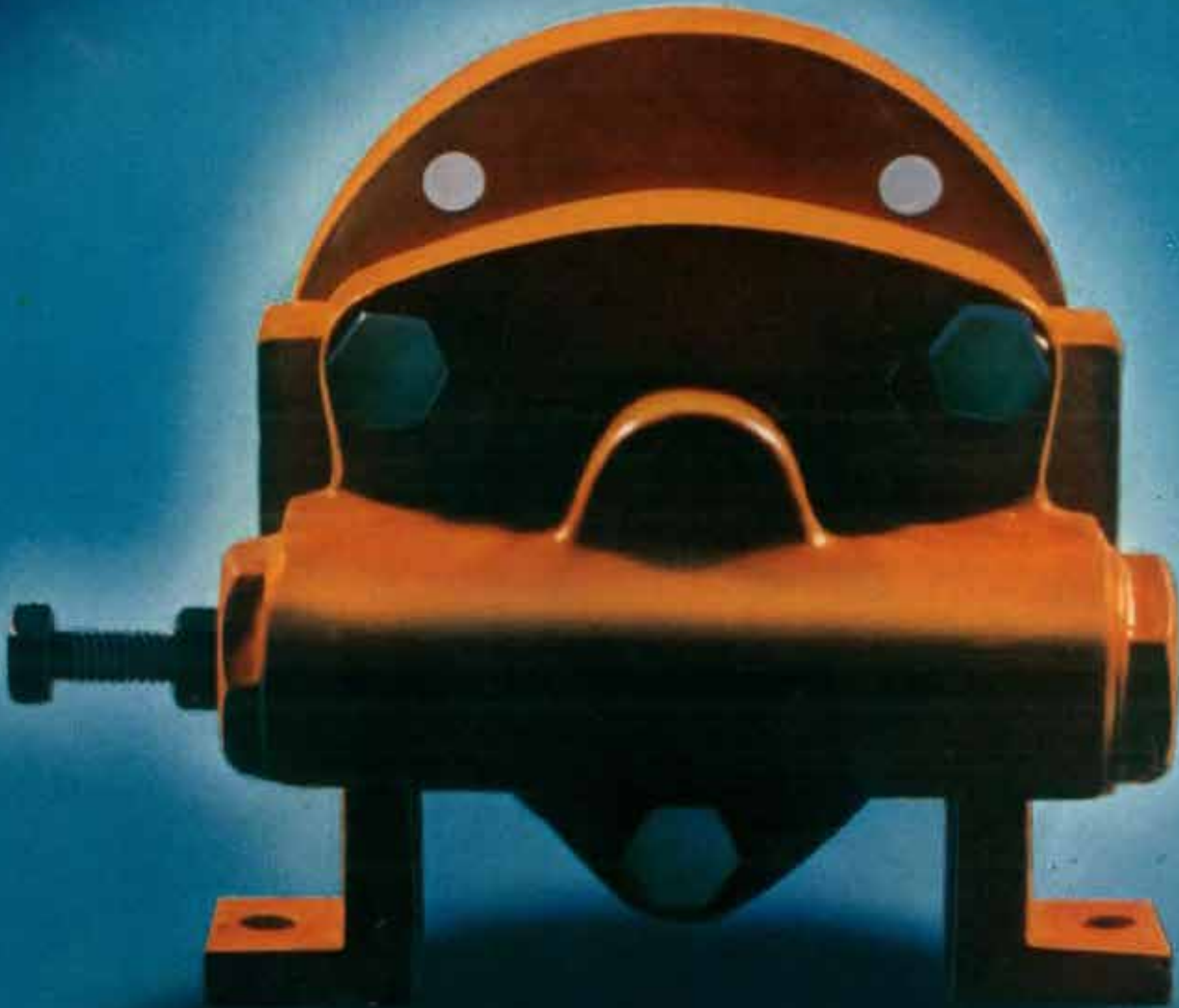


**CIRCOR**

**TUSHACO<sup>®</sup>**



**TUSHACO<sup>®</sup>**  
**SERIES RT**



**The new generation pump**

# New ! The Second Generation Positive Displacement Pumps

Available in seven sizes for capacity upto  
125 LPM (27 GPM) and pressure upto 7 Kg/cm<sup>2</sup> (100 PSI)

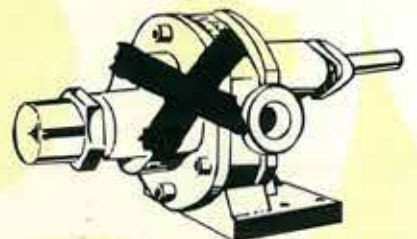
TUSHACO series RT employs totally new pumping concept resulting in exceptionally reliable, simple design. Advanced manufacturing techniques ensure repeat accuracies in dimensions, interchangeability, pump characteristics and at the same time the cost of end product is considerably reduced than conventional pumps.

There are only two pumping elements in Second Generation internal Gearing principle. The flow of liquid is axial through the elements. This results in unmatched suction characteristics that is impossible in double helical gear pumps. Also, there is only one shaft well supported at both ends of rotor for smooth, vibration -free running and eliminating bearing problems normally found in conventional gear pumps. Consequently, series RT has a very low noise level. This series needs practically no maintenance and has much longer service life than other types.

## APPLICATIONS

This series of TUSHACO pumps has been designed to handle fuel and lubricating oils as well as other fluids with the similar properties. These pumps are therefore ideally suited for following typical applications:

- Transfer of lubricating oils when emptying barrels and tanks.
- Pressure lubrication and cooling of bearings, oil circulation through cooler, gear lubrications etc.
- Transfer of fuel oils to daily service tanks, preheating, circulating etc.
- Boosting of fuel oil pressure for oil burner service and fuel injection pumps.
- Unidirectional flow designs for reversing shaft duties as in machine tools, gear boxes and crane duties.



## CHARACTERISTICS OF PUMP SERIES RT

TESTING OIL : LUBE OIL; VISCOSITY : 42.5 CST  
PUMP SPEED : 1450 RPM

### ADVANTAGES

- Single short shaft well supported by two self-lubricating bearings ensure high speed operation and vibration free running resulting in practically maintenance free pump with long service life
- Unique pumping principle contributes to exceptionally high suction lifts and low noise level.
- Precision machined components guarantee high volumetric efficiency and overall efficiency.
- Internal gearing principle with axial flow ensures pulsation free continuous flow.
- Compact and light weight design eliminates elaborate foundations.
- Single shaft design permits pump dismantling and without removing pump from base or disconnecting pipes. Pump can be serviced in place (Not possible in double helical gear pumps).

### VISCOSITY CONVERSIONS

KINEMATIC VISCOSITY	DEGREE ENGLER	SECONDS REDWOOD1	SECONDS SAYBOLT
Cst	°E	"R	SSU
2	1.12	31	33
7	1.6	45	50
12	2	58	66
20	3	85	100
37	5	150	175
75	10	305	345
150	20	612	695
400	50	1,635	1,850
750	100	3,060	3,475
1,500	200	6,125	7,000

### OTHER TUSHACO PRODUCTS

External Gear Pumps, Internal Gear Pumps, Shuttle Block Pumps, Three Spindle Screw Pumps, Two Spindle Screw Pumps & Progressive Cavity Pumps.

Capacity range 3 LPM to 16,000 LPM, Pressures upto 280 bar, Viscosity upto 1,00,000 cSt or more.

Complete lubricating and fuel oil systems with pumps, valves, strainers, interconnecting pipes, instrumentations, etc. as a package for Power Plants, Steel Plants, Fertilizer Plants and similar Industries. Simplex and duplex strainers, size 15 mm upto 300 mm, inlet/outlet sizes.

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-10
Net Weight :- appx. 1.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	11.8	11.54	11.11	10.71	10	
POWER	KW	0.16	0.22	0.28	0.34	0.45	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-15
Net Weight :- appx. 3.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	17.6	17	16	15.5	15	
POWER	KW	0.24	0.30	0.38	0.48	0.58	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-20
Net Weight :- appx. 3.5 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	25	24	22	21	19	
POWER	KW	0.26	0.36	0.45	0.55	0.7	

Suction x Discharge Size :- 1" x 1" BSP(F)							RT-40
Net Weight :- appx. 6.5 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	45	44	43	41	40	
POWER	KW	0.21	0.30	0.5	0.7	0.85	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-80
Net Weight :- appx. 8.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	86	84	82	81	76	
POWER	KW	0.6	0.7	1.1	1.5	1.9	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-125/32
Net Weight :- appx. 22.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	131	129	126	123	120	
POWER	KW	1.24	1.59	2.03	2.58	3.18	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-125/38
Net Weight :- appx. 25.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	157	154	152	149	146	
POWER	KW	1.34	1.8	2.31	2.04	3.92	

Suction x Discharge Size :- $1\frac{1}{2}$ " x $1\frac{1}{2}$ " BSP(F)							RT-125/50
Net Weight :- appx. 29.0 kgs.							
HEAD	KG/CM2	0	2	4	6	8	
CAPACITY	LPM	201	196	190	184	177	
POWER	KW	1.48	2	2.66	3.45	4.13	

Energy Saver Series!

**TUSHACO<sup>®</sup>**  
**PUMPS**

RT-125



RT-03



RT-80



RT-40



RT-20



RT-10



RT-15

**Performance Proven Positive Pumping Power!**

**TUSHACO PUMPS PVT. LTD.**

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