

TR TRANSFER PUMPS



The drum pumps are portable and are particularly suitable for the transfer of fluid from drums, even with corrosive fluids.

This pump, immersed in the fluid, does not use internal mechanical seals (subject to high wear), and its construction guarantees that any leakage of the fluid, even accidental, is collected in the tank.

The TR pump is available with an electric or a pneumatic motor that are perfectly interchangeable.

Its open rotor allows continuous flow pumping of clean corrosive fluids with an apparent viscosity of up to 600 cps (at 20°C).

The TR-EL pumps, electric motor operated, are equipped with a safety switch to prevent the pump from re-starting accidentally after a voltage drop.

The choice of the materials of composition of the pump allows you to determine the best chemical compatibility with the fluid and/or the environment without forgetting the correct temperature field.

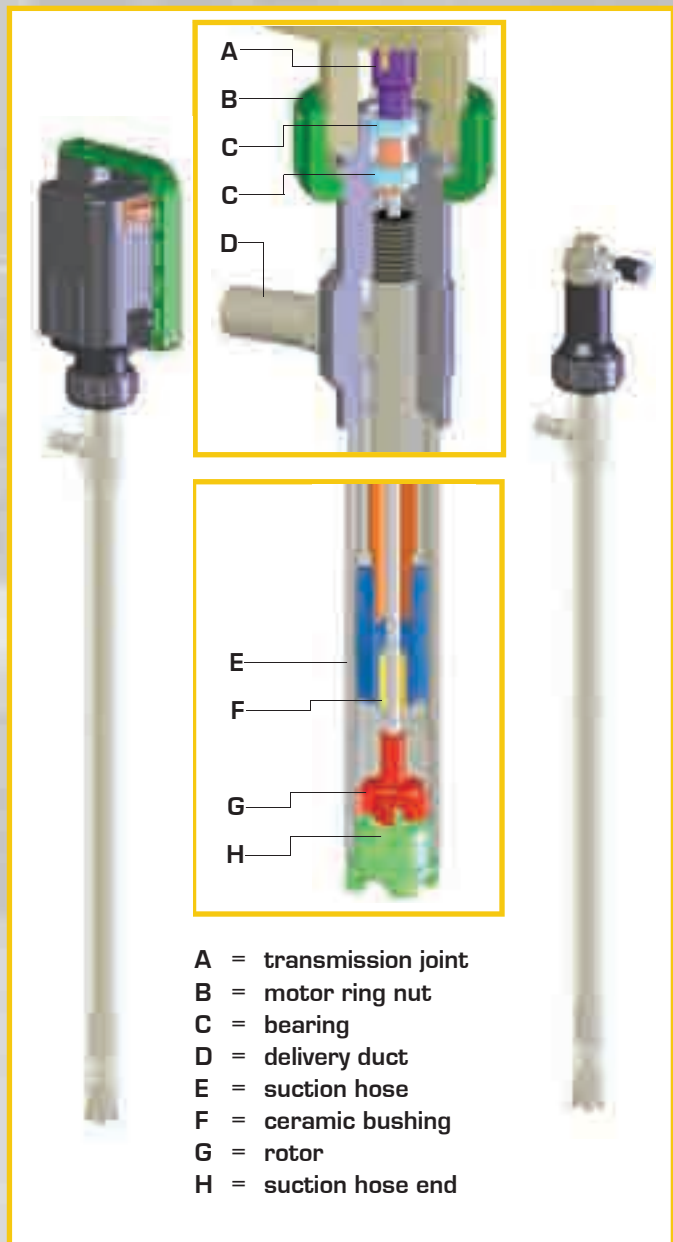
THE QUALITIES.....

DESCRIPTION OF THE PUMP

The drum pumps are composed of a suction hose on the end of which is housed the open rotor fixed to the pull shaft connected to the pump by a convenient ring nut, whilst the transmission is carried out using a transmission joint.

HOW IT WORKS

The rotor, pulled by the direct drive mounted motor, is rotated creating a centrifugal effect, intake on the central hole at the end of the suction hose and delivery inside the hose.



- A = transmission joint
- B = motor ring nut
- C = bearing
- D = delivery duct
- E = suction hose
- F = ceramic bushing
- G = rotor
- H = suction hose end



REINFORCED HOSE

Made in transparent material reinforced with fibre.



SUCTION FILTER

It is made in polypropylene and allows fluids to be filtered at the intake.



LITRE-COUNTER

Composed of a display for reading visualisation.



DISPENSER IN PP

Made in polypropylene and equipped with a lever for delivery control.



PRO DISPENSER

Made in aluminium alloy and equipped with a lever for delivery control.

- 1 - executions in: Polypropylene, PVDF and INOX
- 2 - economical;
- 3 - portable;
- 4 - suitable for environments with high humidity;
- 5 - suitable for corrosive fluids;
- 6 - viscosity of up to 600 cps;
- 7 - available with electric or pneumatic motor;
- 8 - flow rate regulation (for the pneumatic version);
- 9 - no internal seals;
- 10 - easy to disassemble;
- 11 - suction height = 900 mm or 1200 mm
- 12 - flow rate up to 90 l/min.



TR drum pumps must only be used with the axis positioned vertically, the pump immersed in the tank and in the presence of fluid. Dry operation or operation with air bubbles can damage the internal bushing.

CHEMICAL COMPATIBILITY

The type of fluid, the temperature and the area of use are all influencing factors in determining the choice of materials for the pump and their correct chemical compatibility. The following table is shown here below as an example related to some of the more commonly used substances.

SUBSTANCE	Polypropylene	PVDF ECFEE (Halair®)	Acciaio INOX AISI 316	PTFE (Teflon®)	PPS-V	FPM (Mton®)
Acetaldehyde	A1	D	A	A	A	D
Acetamide	A1	C	A	A	A	B
Vinyl acetate	B1	A2	B	A2	-	A1
Acetylene	A1	A	A	A	A	A
Vinegar	A	B	A	A	A	A
Acetone	A	D	A	A	A	D
Fatty acids	A	A	A	A	-	A

CHEMICAL COMPATIBILITY

- A = very good
- B = good
- C = poor, not recommended
- D = severe etching, not recommended
- = information not available
- 1 = satisfactory up to 22°C (72°F)
- 2 = satisfactory up to 48°C (120°F)

For further information, please do not hesitate to contact DEBEM's technical service department.

TR	P	1200	EL
PUMP MODEL	PUMP MATERIAL	SUCTION HEIGHT	MOTOR
TR = Transfer pumps	P = polypropylene F = PVDF A = AISI 316	0900 = 900 mm 1200 = 1200 mm	*EL = electric motor PN = pneumatic motor

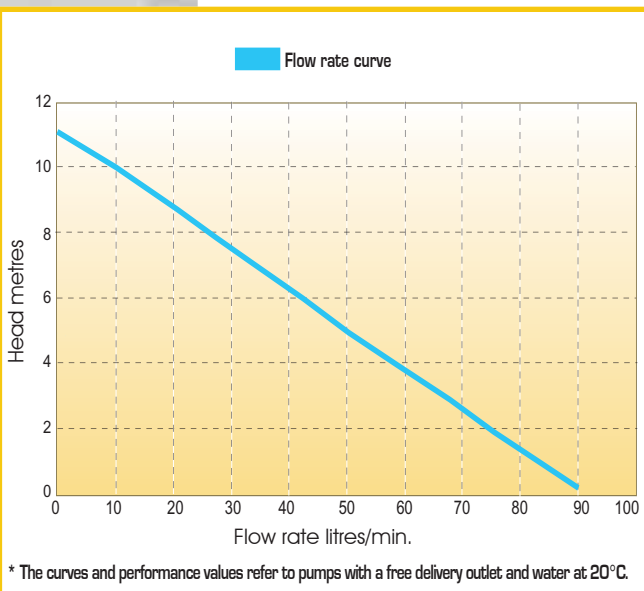
* Standard supply with single-phase eurotension electric motor 50/60Hz



TR - EL

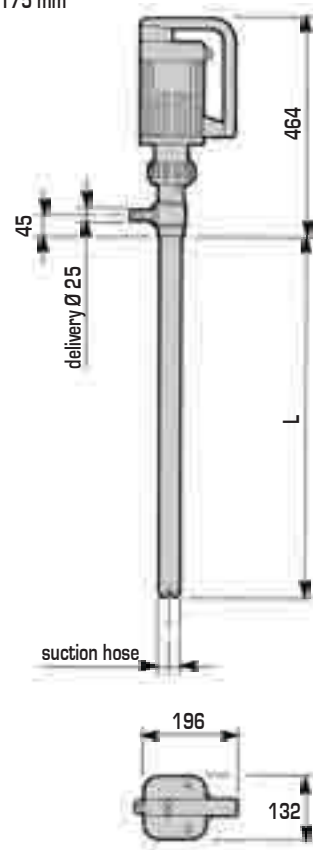


TECHNICAL DATA.. PERFORMANCE



(TR-EL 900) L = 875 mm
(TR-EL 1200) L = 1175 mm

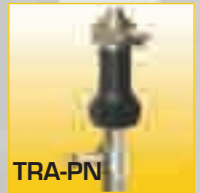
PUMP	TR P - EL	TR F - EL	TR A - EL
Suction hose	Ø42 mm	Ø 40 mm	Ø 42,5 mm
Hose clamp	Ø 25 mm	Ø 25 mm	Ø 25 mm
Max. temp	60 °C	95 °C	95 °C
Motor power	500 Watt	500 Watt	500 Watt
Motor voltage	230 V 50/60HZ	230 V 50/60HZ	230 V 50/60HZ
Motor protection	IP 54	IP 54	IP 54
Motor class	F	F	F
Total weight Kg	5,1 - 5,4	5,4 - 5,6	8,0 - 9,0
Suct. hose mat.	PP	PVDF	AISI 316
Shaft material	HASTELLOY	HASTELLOY	AISI 316
Bushing material	PTFE	PTFE	PTFE
Rotor material	ECTFE	ECTFE	ECTFE
Intake port mat.	PP	ECTFE	ECTFE
Internal parts	PP + PTFE	PVDF + PTFE	PTFE + PPS-V



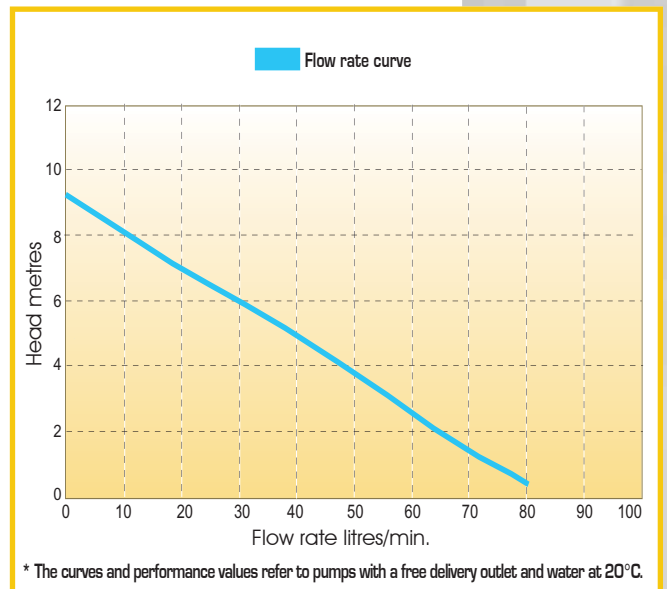
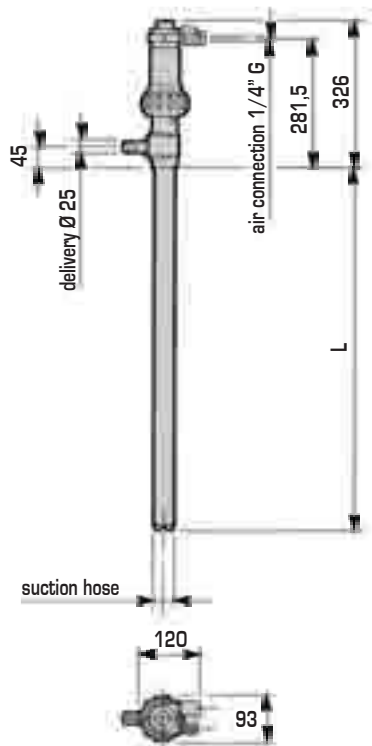
The dimensions shown are in millimetres, are indicative and are not binding; ask for the specific drawing.

DIMENSIONS

TR - PN



(TR-PN 900) L = 875 mm
(TR-PN 1200) L = 1175 mm



PUMP	TR P - PN	TR F - PN	TR A - PN
Suction hose	Ø42 mm	Ø 40 mm	Ø 42,5 mm
Hose clamp	Ø 25 mm	Ø 25 mm	Ø 25 mm
Max. temp	60 °C	95 °C	95 °C
Motor power	0,5HP at 7bar	0,5HP at 7bar	0,5HP at 7bar
Total weight Kg	2,5 - 2,8	2,8 - 3,0	5,4 - 5,5
Suct. hose mat.	PP	PVDF	AISI 316
Shaft material	HASTELLOY	HASTELLOY	AISI 316
Bushing material	PTFE	PTFE	PTFE
Rotor material	ECTFE	ECTFE	ECTFE
Intake port mat.	PP	ECTFE	ECTFE
Internal parts	PP + PTFE	PVDF + PTFE	PTFE + PPS-V

The dimensions shown are in millimetres, are indicative and are not binding; ask for the specific drawing.

DIMENSIONS

TECHNICAL DATA.. PERFORMANCE