

WORKING PRINCIPLE







The R - internal gear pumps are self-priming positive displacement rotary pumps. Two gears generate the flow: the rotor 1 and the idler 2. The rotor moves the internal idler.

As the gears rotate liquid is drawn into the spaces created between the gears and smoothly moved in direction

discharge port, were the divider 3, called crescent, closes the free space between the two gears. When the gears mesh, the liquid is slowly forced out of the pump. The results is a constant smooth flow with no pulsations.

OPERATING RANGE

A	Additives	Diesel Fuel	Glycerine	Mineral oil	Printing
	Adhesive	Emulsions	Glycol	Molasses	inkResin
	Asphalt	Epoxy resins	Grease	Naphtha	Soap
	Bitumen	Fats	Heat transfer oil	Oil	Starch
	Chemicals	Foams	Hot melt	Paint	Tar
	Chocolate	Fuel oil	Ink	Paraffin	Varnish
	Coatings	Gasoline	Isocyanate	Petrol	Viscose
	Colours	Gelatine	Kerosene	Pitch	Wax
	Cream	Glucose	Lacquer	Polymer	
	Creosote	Glue	Lube oil	Polyol	and many more

- With liquids of any viscosity and temperature, which can be corrosive, abrasive and dangerous for the environment.
- Used by transfer, dosage, processing, load and unload.
- In chemical, ink, paint, construction, chocolate and oil-industry, in refineries and storage facilities.

ADVANTAGES



VICTOR

PUMPS





The heating jacket around the casing allows a better and constant heating of the product where it is required: in the gears. Inspections can be done with the casing connected on the pipes. For temperature-sensible fluids it is available the heating jacket around the complete pump.











To easily dismount the mechanical seal from backside, a ball bearing cartridge is available on request.

- Self-priming.
- The capacity is directly proportional to the rotation speed.
- Non pulsating constant flow, therefore no vibrations in fittings, valves or coupling.
- No foaming or churning of the liquid.
- Only one shaft seal or with magnetic coupling.
- Heating jacket around the casing in one cast
- Full performance is available in either direction of rotation 2.
- The casing can be rotated and delivered with 90° or 180° (in-line)
- Relief valve against over-pressure incorporated in the pump.
- Heavy-duty construction optimized for rare maintenance.



Friendly maintenance through the pump cover.

TECHNICAL DATA



	Capacity	up to 360 m³/h (6000 l/min)
ı	Pressure	up to 16 bar
	Viscosity	up to over 100.000 mm ² /s (cSt)

1	Temperature	from -60°C up to +300°C
ı	Materials	cast iron, ductile iron or stainless steel
	Ports	from DN40 to DN250

Bearing housing with external oversized and maintenance-free ball bearing to take axial and radial loads (e.g. for belt-drive). The position of the bearing can be changed to optimize the tolerance of the gears. Collect chamber for possible leakages from packing or mechanical seal.





Already standard in cast iron pumps: steel rotor , hardened steel shaft , cast iron idler .



DIN or ASA flanged ports with throughholes for easy installation.

1/4" threaded hole for Vacuum-meter and Manometer.



Packing



Mechanical seal also with quench, double mechanical seal also as cartridge



Seal-less with magnetic coupling

PERFORMANCES

TYPE (I/rotation)	DISPLACEMENT DN PN16 (inches)	VISCOSITY mm ² /s (cSt)	SPEED RPM	CAPACITY m³/h	REQUIRED 4 bar kW	POWER AT 8 bar kW	WEIGHT kg	
R 35 (0,043)	40 (11/4")	200 4000 25000	1450 720 450	3,7 1,9 1,2	1,4 1,2	1,7 1,4 1,2	11	
R 40 (0,08)	40 (1 ¹ / ₄ ")	200 4000 25000	1450 720 450	7 3,5 2,2	2 1,6 1,3	2,8 2 1,6	12	
R 50 (0,22)	50 (2")	200 4000 25000	960 560 355	12,6 7,5 5	3 2,7 2,2	4,5 3,6 2,8	32	
R 65 (0,48)	65 (2 ¹ / ₂ ")	200 4000 25000	720 450 280	20,5 13 8,3	5,6 5 3,6	8,1 6,6 4,6	46	
R 80 (1,15)	80 (3″)	200 4000 25000	630 400 250	43 28 18	8,9 9,1 7,5	14 12,5 9,6	84	
R 105 (2,25)	100 (4")	200 4000 25000	560 355 224	75,5 49 31,3	15 16 14,3	23,7 22 18,3	152	Assi
R 151 (3,8)	150 (6″)	200 4000 25000	500 315 200	114 73 47	20,7 21,6 19	34 30,3 24,8	240	
R 180 (6,8)	150 (6")	200 4000 25000	400 250 160	163 102 65	On request			
R 200 (14)	200 (8″)	200 4000 25000	315 200 125	265 168 105	On request			VICTO
R 250 (21)	250 (10")	200 4000 25000	280 180 112	350 330 140	On request			PUMPS



e-mail: germany@victorpumps.com

e-mail: italy@victorpumps.com

