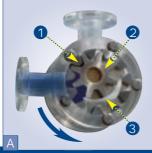


WORKING PRINCIPLE







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

	_			
Α	Additives	Diesel Fuel		
	Adhesive	Emulsions		
	Asphalt	Epoxy resins		
	Bitumen	Fats		
	Chemicals	Foams		
	Chocolate	Fuel oil		
	Coatings	Gasoline		
	Colours	Gelatine		
	Cream	Glucose		
	Creosote	Glue		

Glycerine Glycol Grease Heat transfer oil Hot melt Ink Isocyanate Kerosene Lacquer Lube oil

Mineral oil	
Molasses	
Naphtha	
Oil	
Paint	
Paraffin	
Petrol	
Pitch	
Polymer	
Polyol	

- Printing inkResin Soap Starch Tar Varnish Viscose Wax 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





To optimise the installation of the pipes in existing or new plants, the casing can be rotated as required. On request also available with 180° (in-line) ports.



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 1
- 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 m ³ /h (6000 l/min)
Pressure	up to 16 bar
Viscosity	up to over 100.000 mm ² /s (cSt)

Temperature	from -60°C up to +300°C
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 1, hardened steel shaft 3, cast iron idler 2.



DIN or ASA flanged ports with throughholes for easy installation. 1/4" threaded hole for Vacuum-meter and Manometer.



Packing







Seal-less with magnetic coupling

PERFORMANCES

TYPE (I/rotation)	DISPLACEMENT DN PN16 (inches)	VISCOSITY	SPEED RPM	CAPACITY m³/h	REQUIRED 4 bar kW	POWER AT 8 bar kW	WEIGHT	
	(inches)	mm²/s (cSt)	RPIVI	m-711	KVV	KVV	kg	
R 35	40	200	1450	3,7	1,4	1,7		
(0,043)	(1 ¹ / ₄ ")	4000	720	1,9	1,2	1,4	11	
(0,043)		25000	450	1,2	1	1,2		
R 40	40	200	1450	7	2	2,8		
(0,08)	(1 ¹ / ₄ ")	4000	720	3,5	1,6	2	12	
(=//		25000	450	2,2	1,3	1,6		
R 50	50	200 4000	960	12,6	3	4,5	32	
(0,22)	(2")	25000	560 355	7,5 5	2,7 2,2	3,6 2,8	32	
	65	2000				8,1		
R 65	(2 ¹ / ₂ ")	4000	720 450	20,5 13	5,6 5	8,1 6,6	46	
(0,48)	(2 /2 /	25000	280	8,3	3,6	4,6	40	
	80	200	630	43	8,9	14		
R 80	(3")	4000	400	28	9,1	12,5	84	
(1,15)	(,	25000	250	18	7,5	9,6		
D 105	100	200	560	75,5	15	23,7		
R 105	(4")	4000	355	49	16	22	152	
(2,25)		25000	224	31,3	14,3	18,3		
R 151	150	200	500	114	20,7	34		
(3,8)	(6")	4000	315	73	21,6	30,3	240	
(5,0)		25000	200	47	19	24,8		
R 180	150	200	400	163	0			
(6,8)	(6")	4000 25000	250 160	102 65	On request			
* *	200							
R 200	(8")	200 4000	315 200	265 168	On request			
(14)	(0)	25000	125	105	On request			TTTOMOS
	250	200	280	350				VICTOR
R 250	(10")	4000	180	330	On request			PUMPS
(21)	· · /	25000	112	140	2 41 200			

