Since 1988 NU.E.R.T. produces a complete range of rotary vane pumps. Special custom pumps are available upon request.

**Fields of application:**
- Beverage pumps
- Espresso coffee machines
- Reverse osmosis systems
- Water purification and ultrapurification systems
- Water carbonation
- Chemical transfer pump
- Solar pumps
- Cooling circuits for labs
- Steam cleaning machines
- Cooling circuits for medical lasers
- Car wash

**Products:**
NUERT volumetric rotary vane pumps are self-priming, high-performance (pressure up to 18 bar) and with flow rates up from 50 to 1,080 l/hr at 1450 rpm. All models are available with a brass or stainless steel body and are classified according to their size and flow rate into:
- PRM series
- PR series
- PRG series

**Flow rate at 1400 rpm:**
- 05: 50 l/h
- 08: 80 l/h
- 1: 100 l/h
- 15: 150 l/h
- 2: 200 l/h
- 21: 210 l/h
- 27: 270 l/h
- 3: 300 l/h
- 35: 350 l/h
- 4: 400 l/h
- 5: 500 l/h
- 6: 600 l/h
- 7: 700 l/h
- 8: 800 l/h
- 9: 900 l/h
- 10: 1080 l/h

**Gaskets:**
- -: nBR
- e: ePdM
- V: Viton
- FeP: teflon with Viton core

**Body housing:**
- -: brass
- X: stainless steel

**By-pass valve configuration:**
- H: no by-pass valve
- S: normal by-pass valve
- Z: balanced by-pass valve

**Pump configuration:**
A: pump without built-in strainer. Connection to the motor through metal clamp
B: pump with built-in strainer. Connection to the motor through metal clamp
C: pump without built-in strainer. Connection to the motor through flange (3 holes)
PRM SERIES

They are compact pumps, silent and highly reliable. Due to their limited overall dimensions they are perfect to be installed on small size machines.

Materials used for the body of the pump:
Brass or stainless steel

The pump can be equipped with:
• a normal by-pass valve
• a balanced by-pass valve
• no by-pass valve

Available gaskets and mechanical seals:
• NBR (standard equipment)
• EPDM
• VITON

Engine connection:
• through an elastic metal clamp
• through flange screws

Currently available flow rates:
50-80-150-210-270 l/hr at 1450 rpm

Certified NSF or WRAS models available upon request

Fields of application:
• Espresso coffee machines
• Beverage pumps
• Water carbonation
• Reverse osmosis systems
• Water purification and ultrapurification systems
• Chemical transfer pump
• Steam cleaning machines

Characteristic Curves

Indicative flow rates referred to:
pump without by-pass valve,
speed 1400 rpm, water at 20°C (68°F)
PR SERIES

The balance between their high performance and limited size makes them the most widely used model in the market. They are silent and highly reliable pumps appreciated also for the possibility of customisation.

Materials used for the body of the pump:
Brass or stainless steel

The pump can be equipped with:
- a normal by-pass valve
- a balanced by-pass valve
- no by-pass valve

Available gaskets and mechanical seals:
- NBR (standard equipment)
- EPDM
- VITON

Engine connection:
- through an elastic metal clamp
- through flange screws

Currently available flow rates:
60-100-150-200-300-400-500 l/hr at 1450rpm

Certified NSF or WRAS models available upon request

Fields of application:
- Espresso coffee machines
- Beverage pumps
- Water carbonation
- Reverse osmosis systems
- Water purification and ultrapurification systems
- Chemical transfer pump
- Cooling circuits for labs
- Steam cleaning machines
- Water, perfume or spray ponds
- Cooling circuits for medical lasers
- Car wash
- Atomisation of agricultural products and pesticides

<table>
<thead>
<tr>
<th>PR Series</th>
<th>FLOW RATE (L/h) at 1400 RPM</th>
<th>FLOW RATE (GPH) at 1750 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR 06</td>
<td>90  78  63  55</td>
<td>29  25  21  18</td>
</tr>
<tr>
<td>PR 1</td>
<td>125 115 110 85</td>
<td>41  37  36  28</td>
</tr>
<tr>
<td>PR 15</td>
<td>175 160 150 135</td>
<td>57  52  49  44</td>
</tr>
<tr>
<td>PR 2</td>
<td>230 220 205 185</td>
<td>75  72  67  60</td>
</tr>
<tr>
<td>PR 3</td>
<td>320 310 295 280</td>
<td>104 101 96 91</td>
</tr>
<tr>
<td>PR 35</td>
<td>370 355 340 330</td>
<td>120 116 111 107</td>
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<tr>
<td>PR 4</td>
<td>420 405 390 380</td>
<td>137 132 127 124</td>
</tr>
<tr>
<td>PR 5</td>
<td>500 490 475 458</td>
<td>163 159 155 149</td>
</tr>
</tbody>
</table>

Indicative flow rates referred to:
pump without by-pass valve,
speed 1400 rpm, water at 20°C (68°F)
Used mainly at industrial level, these pumps boast flow rates and head pressures typical of bigger and more expensive models. The size of inlet and outlet threaded ports is 1/2”.

**Materials used for the body of the pump:**
Brass or stainless steel

**The pump can be equipped with:**
- a normal by-pass valve
- a balanced by-pass valve
- no by-pass valve

**Available gaskets and mechanical seals:**
- NBR (standard equipment)
- EPDM
- VITON

**Engine connection:**
- through an elastic metal clamp
- through flange screws

**Currently available flow rates:**
500-600-700-800-900-1080 l/hr at 1450rpm

Certified NSF or WRAS models available upon request

**Fields of application:**
- Reverse osmosis systems
- Water purification and ultrapurification systems
- Chemical transfer pump
- Cooling circuits for labs
- Water, perfume or spray ponds
- Cooling circuits for medical lasers
- Car wash
- Atomisation of agricultural products and pesticides

**Characteristics Curves**

**Indicative flow rates referred to:**
- pump without by-pass valve,
  speed 1400 rpm, water at 20°C (68°F)

**Indicative flow rates referred to:**
- pump without by-pass valve,
  speed 1750 rpm, water at 20°C (68°F)
MAGNETIC DRIVE PUMPS

They present all the advantages of rotary vane pumps combined with magnetic drive. There is no metal-metal contact, all energy consumption and friction are reduced to a minimum for increased reliability and life. Due to their great application versatility, as well as our standard models, magnetic drive pumps can be customised according to the client's needs.

Materials used for the body of the pump:
Brass or stainless steel

The pump can be equipped with:
- a normal by-pass valve
- a balanced by-pass valve
- no by-pass valve

Available gaskets:
- NBR (standard equipment)
- EPDM
- VITON
- SILICONE
- FEP (Teflon with Viton core)

Currently available flow rates:
50-80-100-150-200-210-300-350-400
500-600-700-800-900-1000 l/hr at 1450rpm

Fields of application:
- Chemical transfer pump
- Atomisation of agricultural products and pesticides
- Reverse osmosis systems
- Cooling circuits for labs
- Water, perfume or spray ponds
- Espresso coffee machines
- Cooling circuits for medical lasers
- Car wash
- Water purification and ultrapurification systems
NUERT pumps can be easily activated by special 48YZ engines with direct connection especially created for this type of pump or engines with standard IEC B14 flange with dimensions of 56, 63, 71 and 80 through suitable couplings and adaptors.