

SIGNAL S600 VT1000 SERIES MIXERS

by Milton Roy

TYPE VT1000

- Closed tanks from 0.5 to 2 m³
- Sealing system
- Pressure from 0 to 5 barg
- Temperature up to 120°C

General Characteristics

- Direct drive motor or speed reducer drive
- Lantern with radial bearing
- Flange connection to the vessel ND 150 NP 10
- Lower shaft fitted with impeller adjustable in position
- Power from 0.37 to 1.5 kW
- High rotation speed (1500 rpm) and slow speed (160 or 260 rpm)

Capacities

- From 0.5 to approx. 2 m³

Operating conditions

- Pressure from vacuum 0 to 5 bar g.
(depending on seal device)
- Temperature : up to 120°C

Main applications

- Chemicals
- End-products manufacturing
- Homogenization
- Dissolving
- Solid suspension
- Storage

Construction materials

- Stainless steel 316L
- Painting PU : RAL 1018 (on drive system)
(please consult for any other material)

Electrical characteristics

- 230/400 volt three-phase
- 50 Hz
- IP 55
(please consult us for any other voltage and frequency)

Options (depending on mixer type)

- Special motors
- ExP or ATEX motors
- Variable speed
- additional impeller

Robust construction

- Low maintenance conception
- Guiding bearing
- Possible rotation during discharge

Operational limits

- Maximum viscosity of 500 mPas
- Density < = 1.2
- Not recommended for gaz dispersion



SIGNAL S600 VT1000 SERIES MIXERS by Milton

Closed tanks from 0.5 to 2 m³ – Sealing system – Pressure from -1 to 6 barg – Temperature up to 120°C

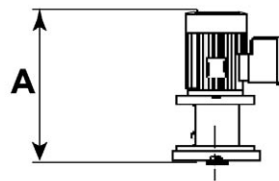
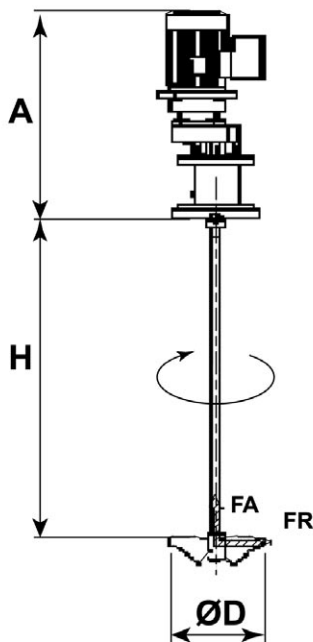
VT1000 AGITATORS TECHNICAL CHARACTERISTICS

| VT1000 type | | 1201 | 1301 | 1302 | 1401 | 1141 | 1161 | 1202 |
|--------------------------------------|-------------------|-----------------------------------|-------|-------|-------|--------------|--------|--------|
| Impeller type | | sabre | sabre | sabre | sabre | marine | marine | marine |
| Impeller diameter D | mm | 200 | 300 | | 400 | 140 | 160 | 200 |
| Mini opening for impel. introduction | mm | 205 | 310 | | 410 | 145 | 165 | 205 |
| Rotation speed | rpm | 249 | 158 | 252 | 160 | 1400 | | |
| Drive | | gear reducer | | | | direct drive | | |
| Rated power | kW | 0.37 | | 0.75 | | 0.75 | 1.5 | |
| Maxi shaft length H | mm | 1400 | 1500 | 1300 | 1500 | 900 à 1500 | | |
| Pumping flow rate | m ³ /h | 126 | 274 | 435 | 660 | 119 | 180 | 350 |
| Total weight | kg | 50 | 50 | 55 | 55 | 40 | 45 | 45 |
| Radial load FR | N | 8 | 16 | 41 | 52 | 30 | 52 | 127 |
| Axial load FA | N | 2 | 5 | 13 | 16 | 5 | 9 | 21 |
| Drive height A | mm | 581 | | 600 | | 412 | 457 | |
| Mini impeller immersion | mm | discharge during rotation allowed | | | | 300 | 400 | 600 |

Characteristics for information only

OPERATING CONDITIONS

| VT1000 | 1201-1301-1302-14501 | | 1141-1161-1202 | | Seal Device |
|--------|----------------------|----------|----------------|----------|-------------------------------------------------|
| | Temp | Pressure | Temp | Pressure | |
| | °C | Barg | °C | Barg | |
| VTV | 120 | atm | 120 | atm | lip seal |
| VTP | 80 | 4 | 80 | 2 | single mechanical seal with PVC lubrication pot |
| VTS | 70 | 4 | | | single mechanical seal dry running |
| VTC | 120 | 0 to 10 | 120 | 2 | single mechanical seal with continuous flushing |



Direct drive VT1000



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