

# Volumetric Pumps

## PU1 / PU2 SERIES

Volumetric, rotary, self-priming vane pumps PU series are suitable for fuels (PU1) and solvents (PU2). They can be installed on trucks, plants, marine or aviation groups, coupled with electrical, hydraulic or diesel motor.



### Performance data

Size	@ rpm	Flow rate		Required power	
		Lpm	m <sup>3</sup> /h	kW	Hp
2"	520	220	13	1.5	2.0
2"	640	270	16	2.2	3.0
2½"	520	370	22	3.0	4.0
2½"	640	450	27	4.0	5.5
3"	520	800	48	5.5	7.5
3"	640	1000	60	7.5	10.0
4"	400	1530	92	11.0	15.0
4"	500	1900	115	15.0	20.0

Appropriate capacities and horsepower (hp) are based on at 100 ssu (22 cP) fluid at 50 psi (3.5 bar) delivered pressure. Ask our staff for Characteristic Curves, flow rates and Power requirements at other pressures and viscosities.

### Maximum operating limits

Size	@ rpm	Flow rate		Viscosity		Differential Pressure (bar)	Working Pressure (bar)
		l/min	m <sup>3</sup> /h	ssu	cP		
2"	780	330	20	20000	4250	8.6	12
2½"	780	600	36	20000	4250	8.6	12
3"	640	1000	60	20000	4250	8.6	12
4"	500	1900	114	20000	4250	8.6	12

# PLUS

**RUN-IN PHASE ON 100%  
PRODUCTION LOTS**

**HIGH RELIABILITY**

#### Standards and regulations

- 94/9/EC Directive (ATEX)
- 2006/42/EC Directive (Machinery)

#### Technical specifications

- Sizes: from 2" to 4"
- Self-adjusted blades
- Built-in adjustable by-pass
- Mechanical seals
- Ball bearing
- Easy maintenance
- Lay out: left or right hand
- Max operating temperature 150 °C
- Max operating viscosity 2200 cSt
- PTFE seals and rotor shaft in AISI 304 for solvents (PU2)

#### Accessories

- Square flanges (inlet/outlet), socket weld type, in carbon steel
- Inlet filter
- Power Take-off flanged connection
- Bell housing for hydraulic motor
- Hydraulic engine

#### Standard documentation

- Declaration of conformity to applicable directives
- Final Test report
- Owner manual including BOM and spare part list

**ZIPFLUID**<sup>®</sup>  
Fluid Transfer Systems

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MADE IN ITALY

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# Pump Groups

## PG1 / PG2 SERIES

PG Pump Groups are assembled with PU series pumps, suitable for fuels and solvents, coupled with electric or diesel engines through gearbox or belt and pulley and housed on galvanized carbon steel bases. They can be installed on plants, marine or aviation groups, in stationary or movable assets.



### Performance Data

Pump	Transmission	@ rpm	Flow rate (lpm)	Power required kW (Hp)	
				Head 35 m	Head 85 m
2"	Belts - Gearbox	520	220	1.5 (2.0)	4.0 (5.5)
2"	Belts - Gearbox	640	270	2.2 (3.0)	5.5 (7.5)
2½"	Belts - Gearbox	520	370	3.0 (4.0)	5.5 (7.5)
2½"	Belts - Gearbox	640	450	4.0 (5.5)	7.5 (10.0)
3"	Belts - Gearbox	520	800	5.5 (7.5)	15.0 (20.0)
3"	Belts - Gearbox	640	1000	7.5 (10.0)	18.5 (25.0)
4"	Belts - Gearbox	400	1530	11.0 (15.0)	22.0 (30.0)
4"	Belts - Gearbox	500	1900	15.0 (20.0)	25.5 (35.0)

Appropriate Flow rate (lpm) and Power (kW) are based on a 100 ssu (22 cP).  
Ask to our staff for Characteristic Curves, flow rates and Power requirements at other Heads and viscosities.

### Standards and regulations

- 94/9/EC Directive (ATEX)
- 2006/42/EC Directive (Machinery)

### Accessories and Options

- Start / Stop button
- PD meter
- Inlet filter
- Different inlet and outlet pump connections
- Magnetothermic switch
- Trolley

### Engine types

- **Electrical:**  
IP 65 - ATEX II 2 G - ATEX II 3 G
- **Diesel:**  
manual or electrical start

### Transmission

- Belts and pulleys
- Gearbox

### Standard documentation

- Declaration of conformity to applicable directives
- Final Test report
- Owner manual including BOM and spare part list

