

Pump Applications



GIANT

Table of Contents

Applications	Page
Boiler Feed	1-2
Desalination	
Flue gas cleaning with sea water	3-4
Multiple pumps	5-6
Sea water	7-8
Descaling	9-10
Mobile High Pressure Cleaning	
Electric/belt drive	11-12
Demineralized water/multi pump	13-14
Diesel engine direct drive	15-16
Electric/belt drive	17-18
Filter press	19-20
High Pressure Cleaning	
Food and beverage industry	21-22
Hydraulic drive from truck	23-24
Multi-pump	25-26
Multi-pump/multi guns	27-28
Humidification	29-30
Hydrostatic Testing	31-32
Polyurethane Foam Production	
Polyurethane foam production	33-34
2 component mixing	35-36
2 component mixing w/different viscosities	37-38
Prep Stations	
Car wash	39-40
Reverse Osmosis	
Beverage industry	41-42
Dump site leakage water	43-44
Hostelloy materials for harsh acids	45-46
Tunnel Construction	47-48
Water Conditioning	
Waste water of automobile paint	49-50
Water Hydraulic System	51-52

Boiler Feed

Fluid Uses

- demineralized water
- condensate
- distillate
- distillate
- clear water/city water

Manufacturer and user of units

- steam generators
- electric power station
- chemical engineering



Pump Specifications

Pump(s): LP121HT
Valve Casing: Bronze
Seals: Nitrile
Fluid: condensate, medium temperature
..... 212°F (100° C) max
GPM: 12 gal/min (52,2 l/min)
PSI: 1,233 PSI (85bar)
RPM: 445 RPM



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Power transmission for pump

- With flexi-coupling and gear motor
- 500 V, 50Hz, 5.4HP (4 kW), 1500 rpm, version B3, IP 65, ISO F, 3 PCT-resistors

Mounted to high-pressure side of each pump

- Safety valve
- Pressure gauge, 0-3,636 PSI (0-250 bar), glycerine damped

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

Desalination

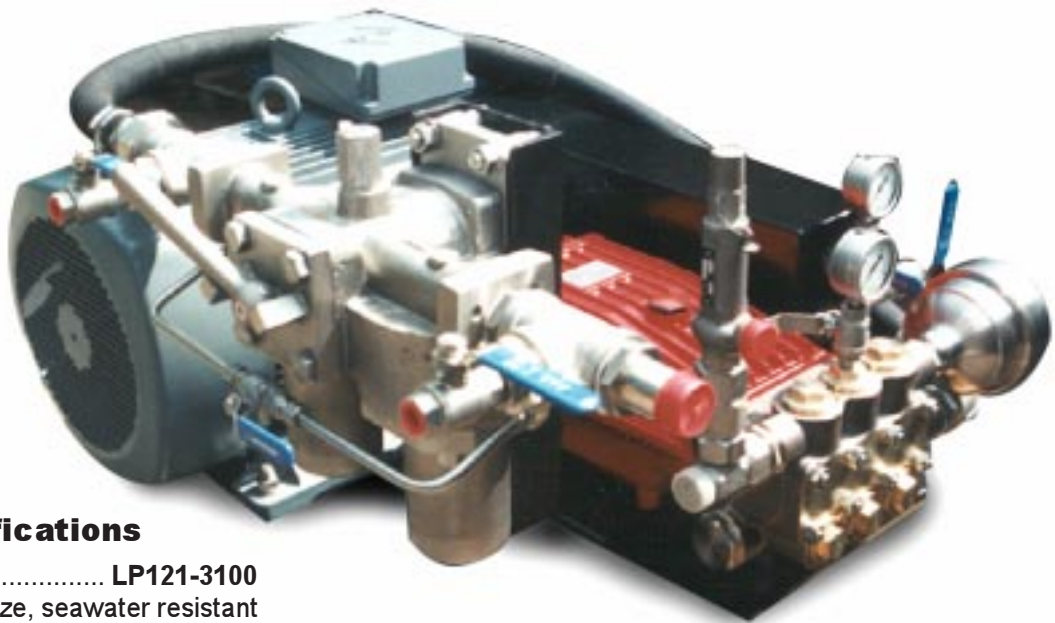
Flue gas cleaning with sea water

Fluid Uses

- brackish water
- damping ground water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- high pressure cleaning
- industries
- industry
- dockyards
- metal producing and working
- cleaning in food and beverage
- car wash
- carriers



Pump Specifications

Pump(s): LP121-3100
Valve Casing: Bronze, seawater resistant
Seals: Nitrile
Fluid: sea water, medium temp. 86°F
..... (30°C) max
GPM: 20 gal/min (90 l/min)
PSI: 1,450PSI (100bar)
RPM: 540 RPM



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Power transmission for pump

- With V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 25 HP (18,5 kW), 1000 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Safety valve, AISI 316
- Pulsation damper, 22 fl.oz. (0,75 l), AISI 316/nitril
- Pressure guage, 0-2,321 PSI (0-160 bar), glycerine damped, stainless steel

Mounted to suction side of the pump

- Double filter, stainless steel

Pump and motor mounting

- Base frame, material: painted coated steel with vibration dampers at the base

Desalination

Multiple Pump

Fluid Uses

- brackish water
- dump site leakage water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- water conditioning
- dockyards
- chemical engineering
- universities

Pump Specifications

Pump(s): **LP121-3100**
Valve Casing: NiAl bronze
..... seawater resistant
Seals: Nitrile
Fluid: .. sea water, 44,000ppm TDS, fluid
temperature 104°F (40°C) max.
GPM:5 x 25 gal/min
(2x108 l/min (= 13 m3/h)
PSI: 1,015PSI (70bar)
RPM: 645 RPM



Power transmission for pump

- With V-belt drive and beltguard
- E-motor 480 V, 60 Hz, 46HP (34,5 kW), 1500 rpm, version B3, JP55, ISO F second shaft for second pump

Mounted to high-pressure side of each pump

- Unloader
- Pulsation damper
- Pressure guage, 0-1,450PSI (0-100 bar), glycerine damped

High pressure side: one common discharge manifold, AISI 316

Suction side: one common inlet, AISI 316 with suction stabilizing hose pulsation damper for each pump

Pump and motor mounting

- One common base frame, material: painted steel, with vibration dampers at the base

Special Features

- Both pump-units can be run independently, allowing routine servicing while one pump is still operational.

Desalination

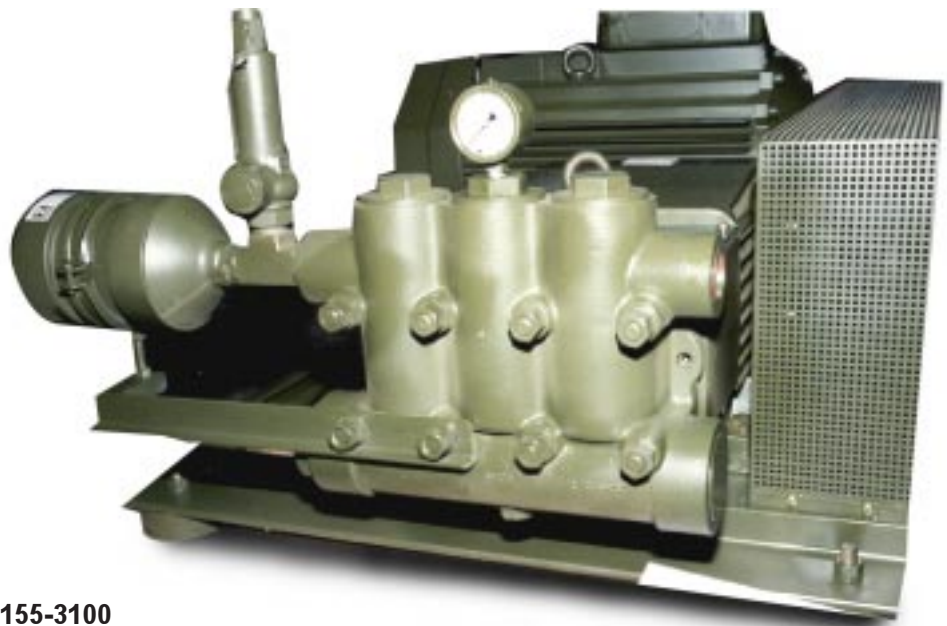
Sea Water

Fluid Uses

- brackish water
- damping ground water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- water conditioning
- dockyards
- universities
- chemical engineering
- food and beverage industries



Pump Specifications

Pump(s): **GP7155-3100**
Valve Casing: bronze, seawater resistant
Seals: Nitrile
Fluid: sea water, temperature 86°C
(30°C) max.
GPM: 45 gal/min (200 l/min)
PSI: 1,015PSI (70bar)
RPM: 560 RPM

Power transmission for pump

- With V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 40 HP (30 kW), 1000 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Safety valve, AISI 316
- Pulsation damper, 44 fl.oz (1,5 l), AISI 316
- Pressure gauge, 0-1,450 (0-100 bar), glycerine damped, AISI 316

Pump and motor mounting

- base frame, material: painted steel with vibration dampers at the base

Special Features

- special paint

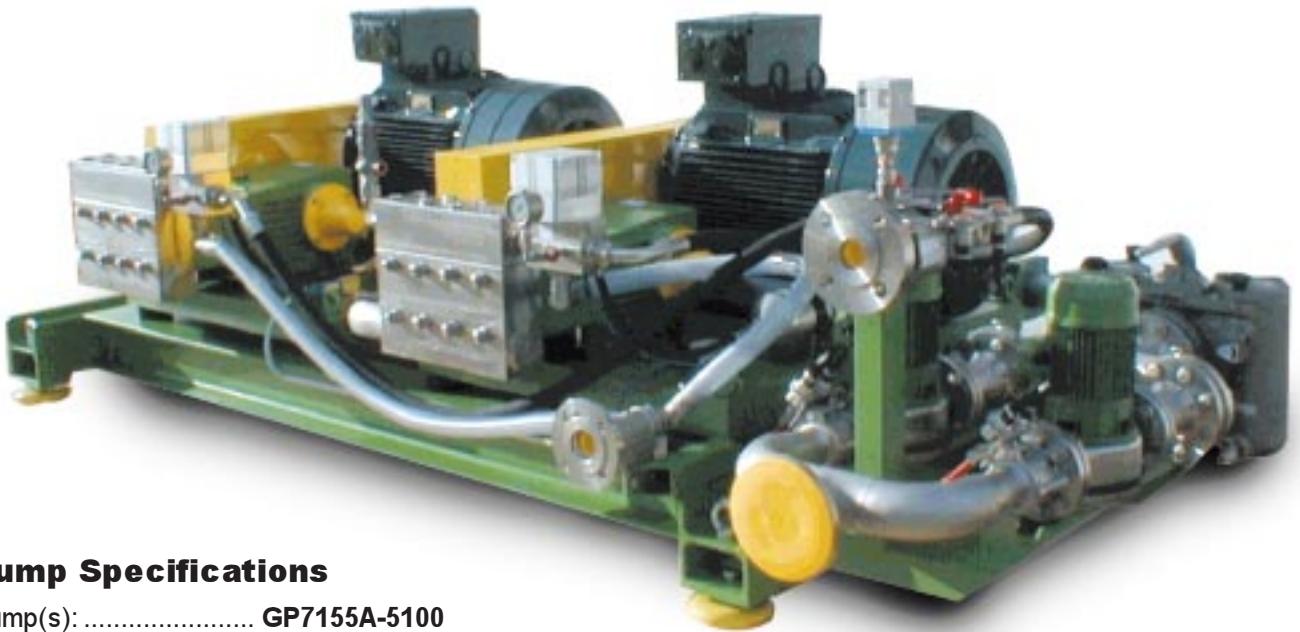
Descaling

Fluid Uses

- desalinated water
- industrial water
- alkaline solutions
- city water
- acids
- warm water with cleaning agents

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **GP7155A-5100**
Valve Casing: **AISI 316**
Seals: **Nitrile**
Fluid: **Industrial water, temperatures
up to 140°F (60°C) max.**
GPM: **42 gal/min (183 l/min)**
PSI: **1,305 PSI (90bar)**
RPM: **515 RPM**



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Power transmission for pump

- V-belt drive and beltguard
- Electric-motor 400/690
V, 50Hz, 74 HP (55 kW),
1500 rpm, version B3,
IP55, ISO F
- Each motor has 3 PTC-resistors, rpm-variation is possible with a frequency charger down to 30 Hz; ie 25 gal/min (1101/min).
warm water with cleaning agents

Mounted to high-pressure side of each pump

- Safety valve
- Pulsation damper, stainless steel with interchangeable membrane
- Pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped, stainless steel
- Pneumatically controlled unloader

Mounted to suction side of pump

- Giant centrifugal pump for each pump as inlet pressure pump
- Pressure switch for each pump, controlling the inlet pressure
- One common reversible double filter
- One common flow switch
- One common inlet, stainless steel

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base
- All suction and pressure strains are equipped with ball valves (stainless steel with intergrated position switches)

Mobile High Pressure Cleaning

Electric Belt Drive

Fluid Uses

- desalinated water
- industrial water
- alkaline solutions
- city water
- acids
- warm water with cleaning agents

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): LP
Valve Casing: Brass
Seals: Nitrile
Fluid: water, temperature 104°F
(40°C) max.
GPM: 12.5 gal/min (55 l/min)
PSI: 1,450 PSI (100bar)
RPM: 762 RPM



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Power transmission for pump

- V-belt drive and beltguard
- Electric-motor 400/690
V, 50Hz, 20 HP (15 kW),
1500 rpm, version B3,
IP55, ISO F, VIK

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped,
electric switching off, controlled by pressure switch

Mounted to suction side of pump

- Flow switch, preventing pump from running dry
- Filter with automatic back washing
- Pressure reducing valve

Electric control

- When opening the spray gun the electric motor is started (star - delta starting), 10 seconds after shutting down the spray gun the pump is running in stand-by

Pump and motor mounting

- Base plate with vibration dampers at the base, powder coated steel mounted to a hand truck with pneumatic tires and parking brake

Accessories

- High pressure hose with fittings, spray gun with lance, 31.5 inches (800 mm) long and fan jet nozzle 77°F (25°C)

Mobile High Pressure Cleaning

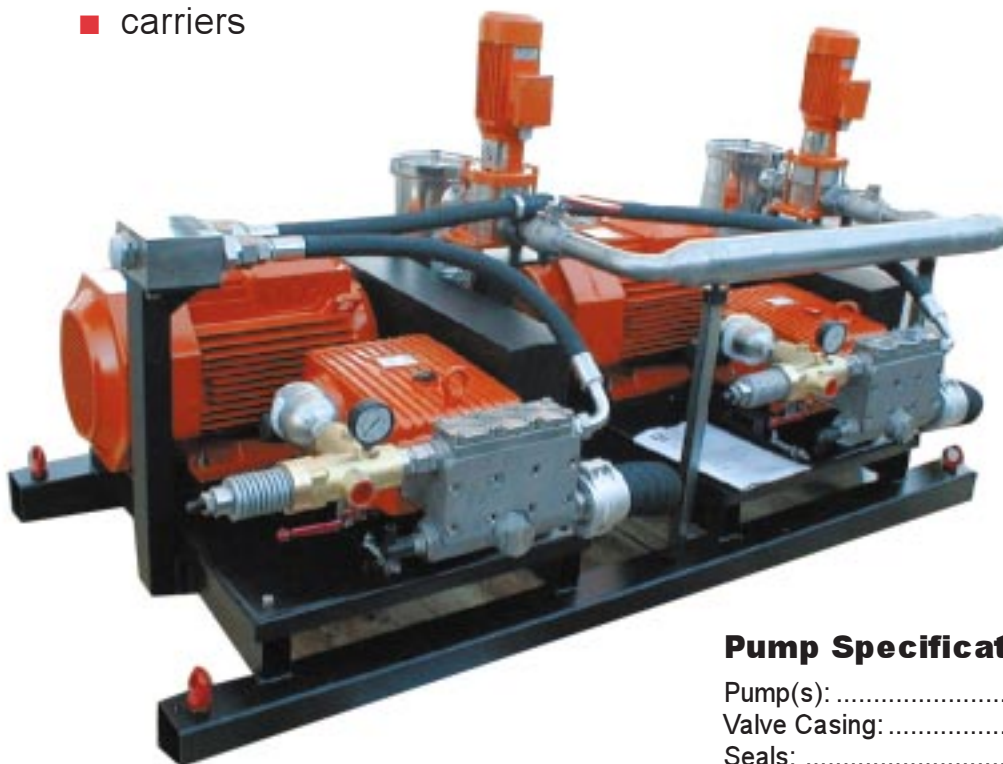
Demineralized water/multi pump

Fluid Uses

- desalinated water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **GP5145-5100**
Valve Casing: AISI316
Seals: Nitrile
Fluid: demineralized water
temperature 140°F (60°C) max.
GPM:5 x 25 gal/min (2x110 l/min)
PSI: 2,176 PSI (150bar)
RPM: 810 RPM

Power transmission for pump

- V-belt drive and beltguard
- E-motor 440V, 60 Hz, 46 HP (34,5 kW), 1500 rpm, version B3, IP55, ISO F 3 PCT - resistors, frequency converter for changing pump output can be down to 30 Hz ie .5 x 15 gal/min (2 x 66 l/min)

Mounted to high-pressure side of each pump

- Unloader
- Pulsation damper, AISI 316/nitrile
- pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped, stainless steel

Mounted to suction side of pump

- Booster pump: Speck centrifugal pump
- Bag filter, stainless steel
- pressure switch for controlling the inlet pressure one common suction inlet

Pump and motor mounting

- A common vase frame, material: painted steel with vibration dampers at the base

Special features

- Both pump-units can be run independently, allowing servicing while one pump is still operational.

Mobile High Pressure Cleaning

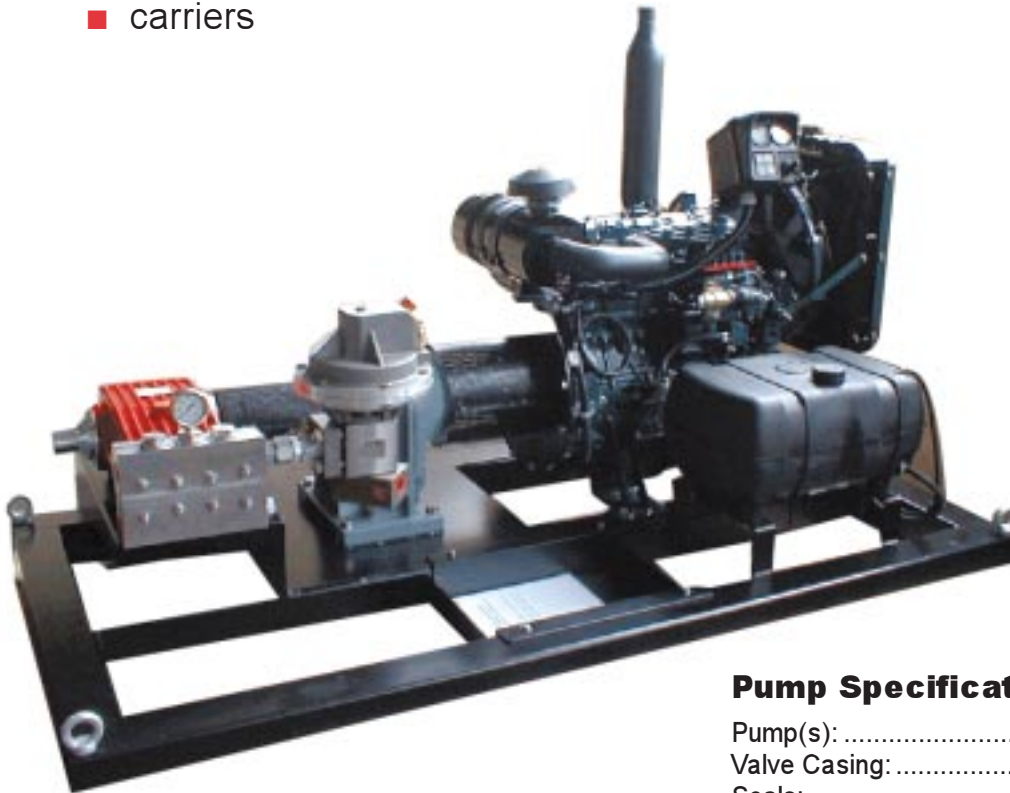
Diesel Engine Direct Drive

Fluid Uses

- desalinated water
- industrial water
- alkaline solutions
- city water
- acids
- warm water with cleaning agents

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): LP301A/LP600
Valve Casing: AISI 303
Seals: Nitrile
Fluid: water, temp. 104°F (40°C)
GPM:8 gal/min (37 l/min)
PSI: 5,802 PSI (400bar)
RPM: 100 RPM

Power transmission for pump

- 4-stroke 4-cylinder diesel engine, 50 HP (37 kW)/2800 rpm, 24 V starter centrifugal clutch, helical gear box

Mounted to high-pressure side of each pump

- Combined safety and unloader valve, pneumatically controlled pressure gauge 0-8700 PSI (0-600 bar), glycerine damped

Pump and motor mounting

- Black painted steel frame with vibration dampers at the base a compressor with v-belt drive can be mounted on the frame by the customer

Mobile High Pressure Cleaning

Electric/Belt Drive

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): LP700
Valve Casing: AISI 303
Seals: Nitrile
Fluid: clear water, medium temp 86°F
(30°C) max
GPM:7 gal/min (30 l/min)
PSI: 7,252 PSI (500 bar)
RPM: 1,049 RPM

Power transmission for pump

- V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 40 HP (30 kW), 1500 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Unloader
- pressure gauge, 0-8,702 PSI (0-600 bar), glycerine damped

Pump and motor mounting

- Base plate, material: powder coated steel with vibration dampers at the base

Accessories

- 49 ft (15m) high pressure hose with spray gun and lance

Mobile High Pressure Cleaning

Filter Press

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **GP7155**
Valve Casing: bronze
Seals: Nitrile
Fluid: industrial water, temp. 86°F
(30°C) max
GPM: 57 gal/min (250 l/min)
PSI: 1,450 PSI (100 bar)
RPM: 700 RPM



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Power transmission for pump

- V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 40 HP (55 kW), 1500 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Unloader with hand wheel
- Pulsation damper, 44 fl.oz. (1,51), steel/nitrile
- Pressure gauge, 0-2,321 PSI (0-160 bar), glycerine damped
- 3/2-solenoid valve, external pneumatic actuation for no load starting

Mounted to suction side of the pump

- Filter
- Pressure switch for checking the inlet pressure

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

High Pressure Cleaning

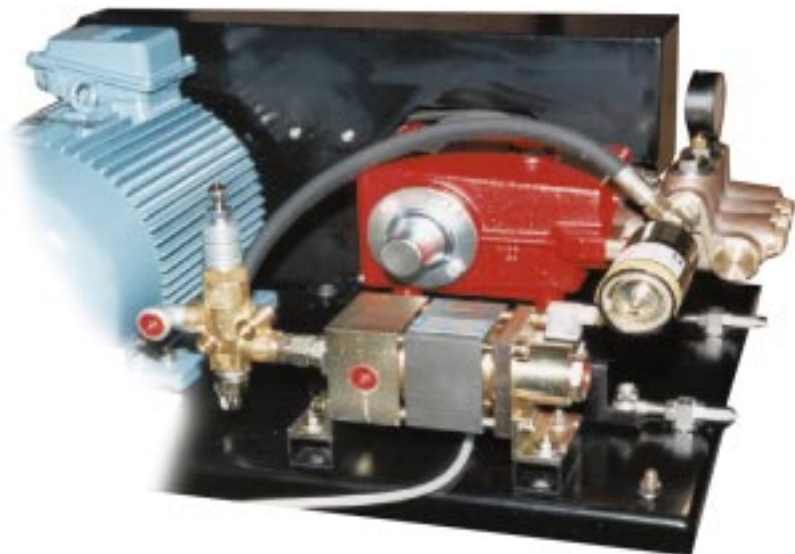
Food and Beverage Industry

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **MP4124**
Valve Casing: Brass
Seals: Nitrile
Fluid: mains water, temp. 86oF
(30oC) max.
GPM: 7 gal/min (29 l/min)
PSI: 1,885 PSI (130 bar)
RPM: 865 RPM

Power transmission for pump

- V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 10 HP (7.5 kW), 1500 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Unloader connected to the pump with high-pressure hose
- Pulsation damper, 4.7 fl.oz. (0,161)
- Pressure gauge, 0-2,321 PSI (0-160 bar), glycerine damped
- 3/2-solenoid valve, mounted to the unloader

Pump and motor mounting

- base plate, material: power coated steel with vibration dampers at the base

Mobile High Pressure Cleaning

Hydraulic drive from truck

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **P400**
Valve Casing: **Brass**
Seals: **Nitrile**
Fluid: **clear water, temperature 86°F**
..... **(30°C) max.**
GPM: **6 gal/min (25 l/min)**
PSI: **2,901 PSI (200 bar)**
RPM: **1450 RPM**



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Power transmission for pump

- Flexi-coupling and c-face bell-housing
- Hydraulic-motor, max. required pressure 2,756 PSI (190 bar), 25 cm³/rounding

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-3,626 PSI (0-250 bar), glycerine damped

Pump and motor mounting

- Vibration dampers at bottom of pump

Accessories

- High pressure hose, 82 ft. (25 m), with a rotating joint spray gun with lance, stainless steel

High Pressure Cleaning

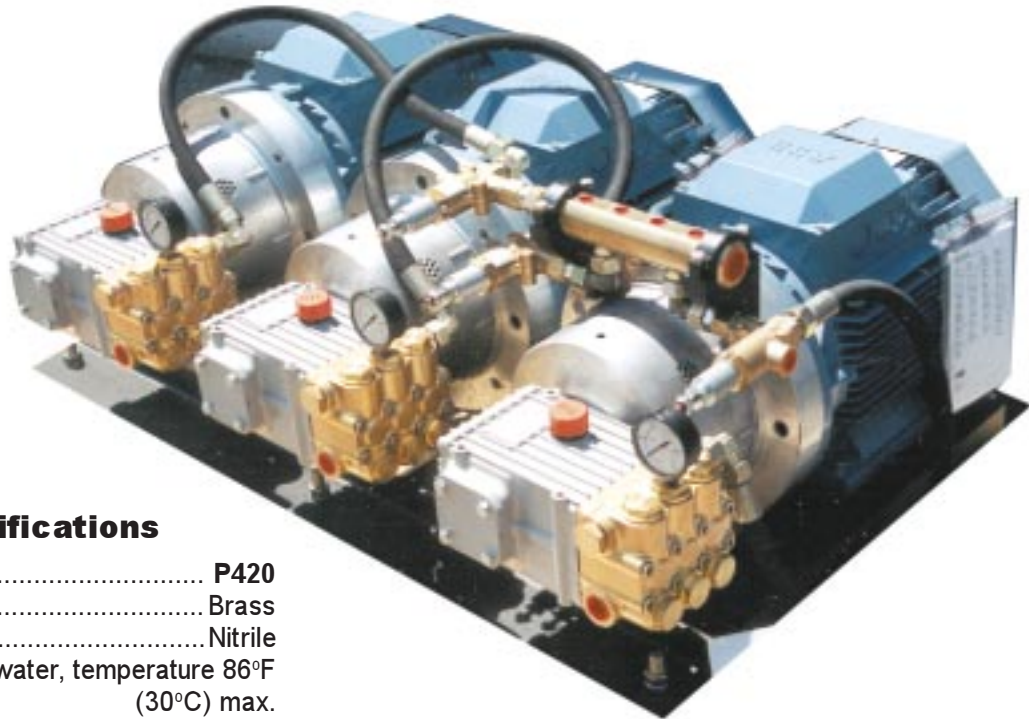
Multi-pump

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- warm water with cleaning agents
- clear water/city water
- acids
- CO₂, liquid

Manufacturer and user of units

- high pressure cleaning
- industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards



Pump Specifications

Pump(s): **P420**
Valve Casing: Brass
Seals: Nitrile
Fluid: clear water, temperature 86°F
(30°C) max.
GPM:7 x 11 gal/min (3 x 50 l/min)
PSI: 1,740 PSI (120 bar)
RPM: 1450 RPM

Power transmission for pump

- Flexi-coupling and c-face bell-housing
- E-motor 400/690 V, 50 Hz, 10 HP (7,5 kW), 1000 rpm, version B3/B5, IP 55, ISO F3 PCT - resistors, frequency converter for changing the pump output can be used down to 30 Hz ie .7 x 7 gal/min (3 x 30 l/min)

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped

The three pumps have one common discharge manifold

Pump and motor mounting

- A common base frame, material: painted steel with vibration dampers at the base

High Pressure Cleaning

Multi-pump/Multi-guns

Fluid Uses

- demineralized water
- industrial water
- alkaline solutions
- clear water/city water
- acids
- warm water with cleaning agents

Manufacturer and user of units

- high pressure cleaning industries
- carwash
- carriers
- metal producing and working
- cleaning in food and beverage
- dockyards

Pump Specifications

Pump(s): P420
Valve Casing: Brass with internal leakage return
Seals: Nitrile
Fluid: water, temperature 86oF (30oC) max.
GPM: 1.4 x 9 gal/min (6 x 39 l/min = max. 234 l/m)
PSI: 1,233 PSI (85 bar)
RPM: 1160 RPM



Power transmission for pump

- Flexi-coupling and c-face bell-housing
- E-motor 400/690 V, 60 Hz, 19 HP (14.5 kW), 1000 rpm, version B35 IP 55, ISO F with 3 PCT - resistors, frequency converter for changing the pump output can be used between 5 - 60 Hz.

Mounted to high-pressure side of each pump

- Unloader and safety valve
- Pulsation damper with interchangeable membrane
- Pressure guage 0-2.321 PSI (0-160 bar) each pump glycerine damped
- Pressure sensor for controlling th pumps on/off depending on the water requirements

Mounted to suction side of pumps

- Water tank, 79 gal/min (350 L), stainless steel, 2/2-solenoid valve and y-strainer in the inlet water level control for maximum, minimum and water lack flow switch, controlling pipe break

Pump and motor mounting

- Painted base frame with vibration dampers at the base, S.S. housing with noise muffling (<82 dB(A))

Electric Control

- PCL - control with frequency coverter controls pumps infinitely variable, without pressye peaks. Number of pumps running depends on water consumption, therefore system pressure stays constant between 2-53 gal/min (10 - 234 l/min) (10-234 l/m).

Accessories

- High pressure hose with fittings, spray gun with lance, 31.5 inches (800 mm) long and fan jet nozzle 77°F (25°C)

Humidification

Fluid Uses

- water
- desalinated water

Manufacturer and user of units

- air humidification
- simulator of climatic conditions
- snowblower
- air conditioning
- atomizing
- chemical engineering

Pump Specifications

Pump(s): **P218**
Valve Casing: Brass
Seals: Nitrile
Fluid: partially desalted water, temp.
86°C (30°C) max.
Environment: -22°F (-30°C), partial
vacuum
GPM: 2 gal/min (10 l/m)
GPM: (6 pumps) 60 l/min
PSI: 124 PSI (120 bar)
RPM: 1,450 RPM



Power transmission for pump

- Flexi-coupling and c-face bell-housing
- electric motor 240/400V, 50 Hz, 4 hp (3 kW), 1500 rpm, version B3/B4, IP55, ISO F

Special features

- Each pump has a separate watertank with level indicator for controlling the water consumption
- Each pump can be controlled by a supervisory control panel, so that the quality of the fog produced can be varied
- If the pumps are stopped an automatic blow out system is started to prevent icing. An air separator is installed in the return.
- Nozzle ring with 6 different, independently controlled nozzle sizes and arrangements, complete made of stainless steel
- To prevent icing during the atomizing process, the nozzle ring flooded with high water flow rates, returned into a tank, where the water consumption of the fog production can be measured.

Hydrostatic Testing

Fluid Uses

- aqueous media, for example
- industrial water
- city water
- hydraulic fluid

Manufacturer and user of units

- manufacturer of hoses, tubes, fittings, tanks



Pump Specifications

Pump(s): P200
Valve Casing: Brass
Seals: Nitrile
Fluid: city water, temperature 86°F
(30°C) max.
GPM:5 gal/min (2.3 l/m)
PSI: 5,801 PSI (40 bar)
RPM: 930 RPM

Power transmission for pump

- Flexi-coupling and c-face bell-housing
- E-motor 500VD, 50 Hz, 1 HP (0.75 kW), 1000 rpm, version B34, IP55, ISO F

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped

Accessories

- Tank, 7 gal/min (30L)
- Ball Valve

Pump and motor mounting

- The lid of the tank

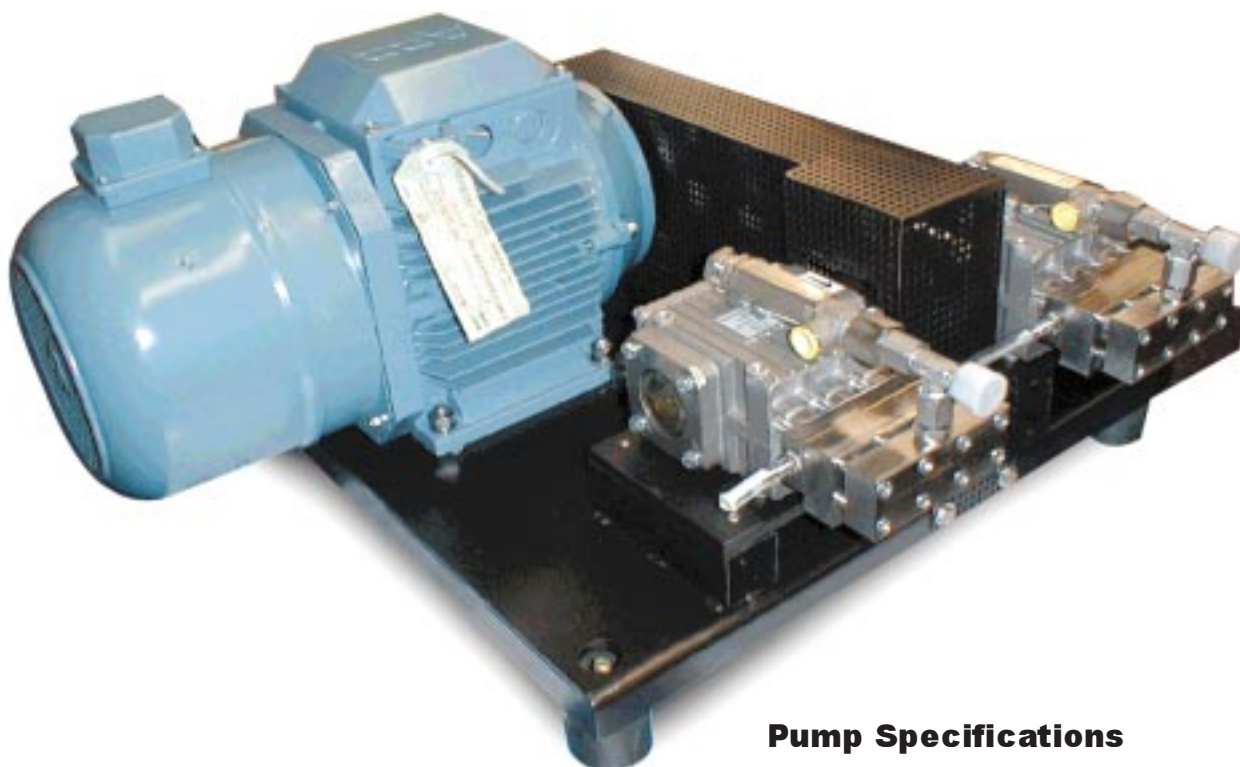
Polyurethan Foam Production

Fluid Uses

- desalinated water
- silicon oil
- softening agents (Mesamoll)
- isocyanate
- acids, chemicals
- CO₂ liquid

Manufacturer and user of units

- polyurethan foam production



Pump Specifications

Pump(s): P200
Valve Casing: Stainless steel AISI 303
Seals: Viton
Fluid: Isocyanate, temperature 86°F
(30°C) max.
GPM:4 gal/min (1.5 l/min 3.0 l/min
/both pumps)
PSI: 2,900 PSI (200 bar)
RPM: 1,450 RPM

Power transmission for pump

- V-belt drive and belt guard
- 1 electric- motor 230/400V, , 2 HP (1,5 kW), 1500 rpm, version B34, IP 55, Iso F with separate fan, suitable for changing rpm with frequency changer

Mounted to high-pressure side of each pump

- Safety valve /pump, AISI 316

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

Special features

- For minimising pulsation, the crankshafts of both pumps are directly connected and displaced 140°F (60 °C)
- External flushing with fluid “Mesamol” to avoid contact of the pumped fluid with air or humidity

Polyurethan Foam Production

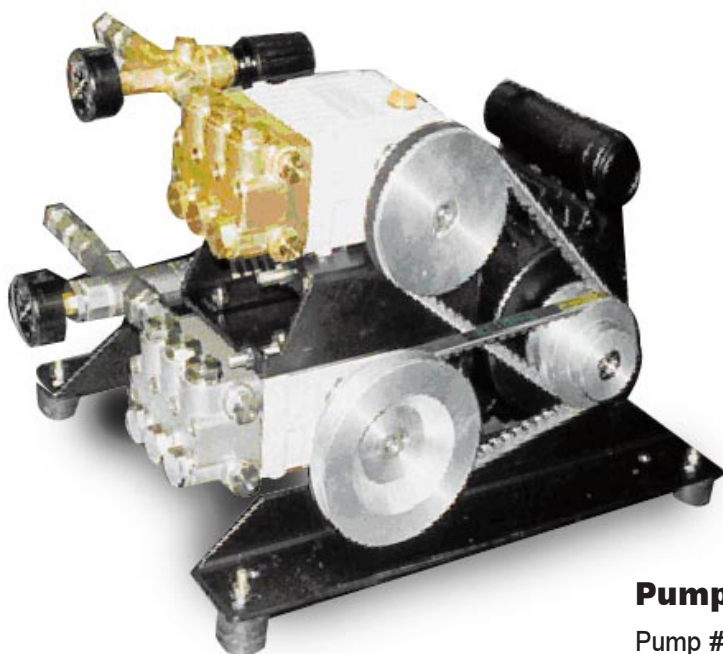
2 component mixing

Fluid Uses

- desalinated water
- isocyanate
- silicon oil
- acids
- softening agents (Mesamoll)
- CO₂ liquid

Manufacturer and user of units

- polyurethan foam production



Pump Specifications

Pump #1: **P200**
Valve Casing: Brass
Seals: Nitrile
Pump #2: **P200-5100**
Valve Casing: ... Stainless steel, AISI 316
Seals: Nitrile
Fluid: ... PU - components, temperatures
86°F (30°C) max.
GPM:7 gal/min (2.5 l/min)
PSI: 1,305 PSI (90 bar)
RPM: 1000 RPM

Power transmission for pump

- V-belt drive and belt guard
- E-motor 230 V, 50 Hz, 2 HP (1.5 kW), 1500 rpm, version B3
IP 44, ISO F

Mounted to high-pressure side of each pump

- Unloader, AISI 316
- Pressure gauge, 0-2,321 PSI (0-160 bar), glycerine damped

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the bottom-side

Polyurethan Foam Production

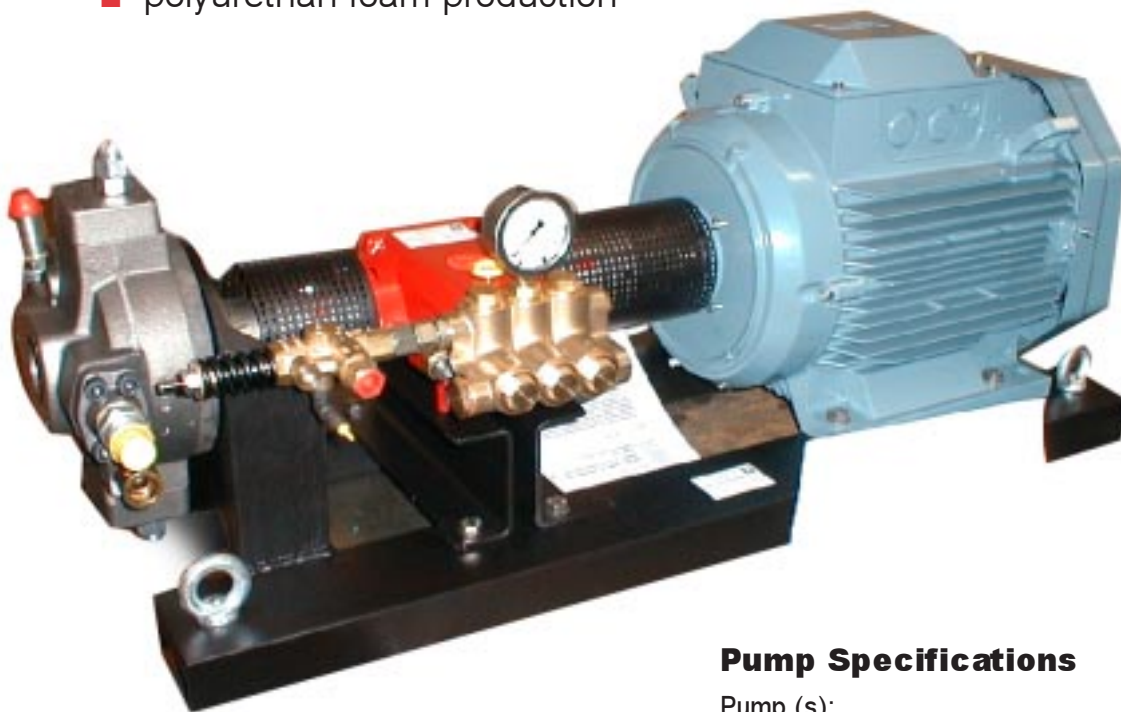
2 component mixing w/different viscosities

Fluid Uses

- desalinated water
- silicon oil
- softening agents (Mesamoll)
- isocyanate
- acids
- CO₂ liquid

Manufacturer and user of units

- polyurethan foam production



Pump Specifications

Pump (s): P56
Valve Casing: Brass
Seals: Nitrile
Pump (s): **Bosch axial piston pump for highly viscous medium**
Valve Casing: AISI 316
Seals: Nitrile
Fluid: polyurethan components (for example: isocyanate), temperature 86°F (30°C) max.
GPM: 4 gal/rotation (16 cm³ l/rotation)
PSI: 1,305 PSI (90 bar)
RPM: 1000 RPM

Power transmission for pump

- Elastic coupling, Bosch pump mounted to second shaft of the triplex - pump E- motor 400/690 V, 50Hz, 10 HP (7.5 kW), 1000 rpm, version B3, IP55, ISO F

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-2,321 PSI (0-160 bar), glycerine damped

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the bottom-side

Special feature

- Both pumps are directly coupled to ensure a correct dosing ratio for the two polyurethan components

Prep Stations

Car Wash

Fluid Uses

- desalted water
- industrial water
- alkaline solutions
- city water
- acids
- warm water with cleaning agents

Manufacturer and user of units

- high pressure cleaning
- industries
- industry
- dockyards
- metal producing and working
- cleaning in food and beverage
- car wash
- carriers



Pump Specifications

Pump (s): **P300 or P200**
 Valve Casing: Brass
 Seals: Nitrile
 Fluid: industrial water, temp. 140°C
 (60°C) max

P200 (Continuous)

GPM: 2 gal/min (9.6 l/min)
 PSI: 2,031 PSI (140 bar)
 RPM: 935 RPM

P300 (Intermittent)

GPM: 3 gal/min (14.6 l/min)
 PSI: 1,885 PSI (130 Bar)
 RPM: 1,450 RPM

P300 (Continuous)

GPM: 3 gal/min (13.5 l/min)
 PSI: 1,595 PSI (110 bar)
 RPM: 935 RPM

P300 (Intermittent)

GPM: 5 gal/min (21 l/min)
 PSI: 1,305 PSI (90 Bar)
 RPM: 1,450 RPM

Power transmission for pump

- Directly coupled to hollow shaft motor
- Electric-motor 400/690 V, 50 Hz, 4 HP (3 Kw), 935 rpm, version B3, IP54, ISO F
- Alternative: electric-motor 400/690 V, 50 Hz, 5 HP (4 kW) 1450 rpm, version B3, IP54, ISO F

Mounted to high-pressure side of each pump

- Unloader
- Pressure gauge, 0-2,321 PSI (0 - 160 bar), glycerine damped electric switching off, controlled by pressure switch and thermoelectric cell

Pump and motor mounting

- Base plate, material: painted steel with vibration dampers at the base plate can be mounted to a wall

Reverse Osmosis

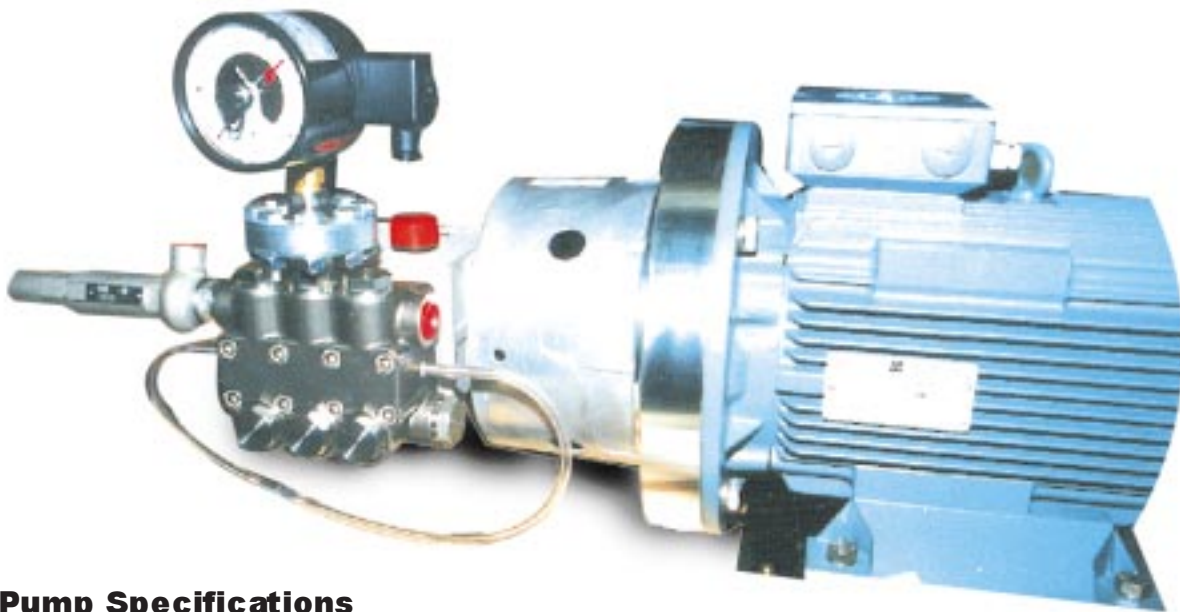
Beverage Industry

Fluid Uses

- brackish water
- dump side leakage water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- water conditioning
- food and beverage industries
- chemical engineering



Pump Specifications

Pump (s): **P400-5100 with external
fresh water flushing**
Valve Casing: AISI 316
Seals: Nitrile
Fluid: fruit juice, 86°F (30°C) max.
GPM: 5 gal/rotation (20.56 l/min)
PSI: 2,321 PSI (160 bar)
RPM: 976 RPM

Power transmission for pump

- Fleci-coupling and c-face bell-housing
- E-motor 400/690 V, 50 Hz, 10 HP (7.5 kW), 1500 rpm, version B3, IP55, ISO F
- The electric motor is provided with 3 PTC resistors, - speed of the e-motor can be changed by frequency converter down to 30 Hz ie 2.8 gal/min (12.3 l/min).

Mounted to high-pressure side of each pump

- safety valve, AISI 316
- Pressure gauge, 0-3,626 PSI (0-250 bar) glycerine damped, stainless steel
- Membrane pressure transmitter with solenoid spring contact

Pump and motor mounting

- Base plate, material: painted steel with vibration dampers at the base

Accessories

- Pulsation damper 10 fl.oz. (0,351), AISI 316
- High-pressure hose with ERMIETO-fittings and PTFE-coating

Reverse Osmosis

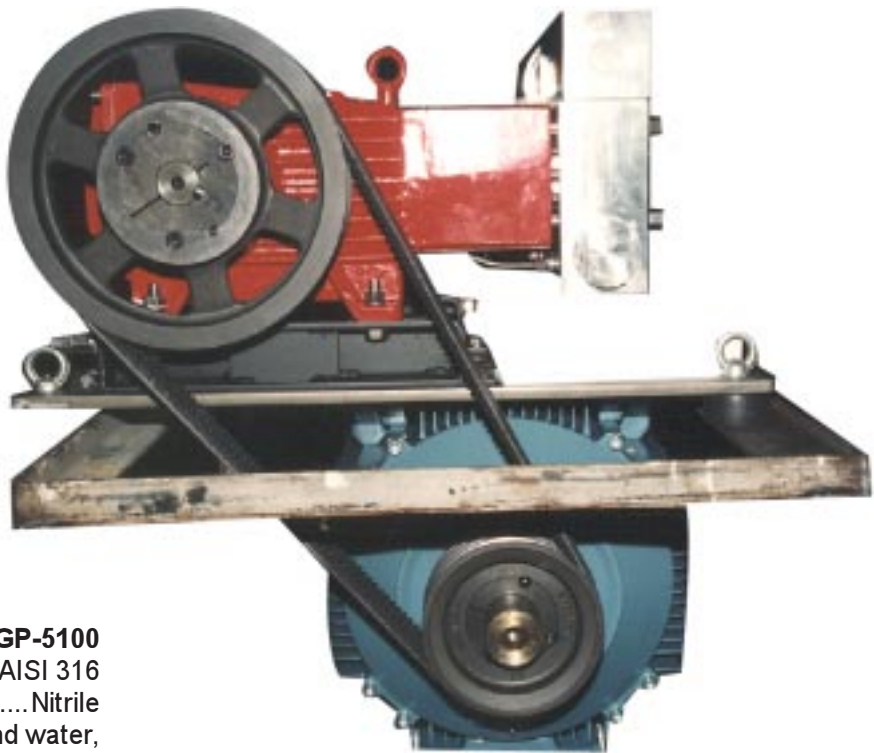
Dump site leakage water

Fluid Uses

- brackish water
- dump side leakage water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- water conditioning
- food and beverage industries
- universities
- chemical engineering
- dockyards



Pump Specifications

Pump (s): **GP-5100**
Valve Casing: **AISI 316**
Seals: **Nitrile**
Fluid: damping ground water,
temperature 86°F (30°C) max.
GPM: 27 gal/rotation (117 l/min)
PSI: 2,031 PSI (140 bar)
RPM: 560 RPM



Giant Industries, Inc.

900 N. Westwood Ave. ■ Toledo, Ohio 43607

419-531-4600 ■ 419-531-6836

sales@qiantpumps.com ■ www.qiantpumps.com

Power transmission for pump

- V-belt drive and beltguard
- E-motor 400/690 V, 50 Hz, 50 HP (37 kW), 1000 rpm, version B8, IP 55, ISO F, 3 PCT - resistors

Mounted to high-pressure side of each pump

- Pulsation damper, 22 fl.oz (0.75 l), mat. AISI 316/nitrile
- Pressure gauge, 0-2,321 PSI (0-160 bar), glycerine damped

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

Accessories

- Safety valve, AISI 316

Reverse Osmosis

Hastelloy materials for harsh acids

Fluid Uses

- hydrofluoric acid
- sulphuric acid
- other aggressive media
- nitric acid
- phosphoric acid

Manufacturer and user of units

- cleaning
- conditioning of process fluids
- galvanic processes



Pump Specifications

Pump (s): **P400 Series**
Valve Casing: Hastelloy C
Seals: Kalrez/Teflon
Fluid: different acids, medium temp.
140°F (40°C) max.
GPM: 6 gal/rotation (26 l/min)
PSI: 870 PSI (60 bar)
RPM: 930 RPM

Power transmission for pump

- Flexi-coupling and c-face bell-housing
- Electric-motor 400/690 V, 50 Hz, 5 HP (4 kW), 1000 rpm, version B3/B5, IP55, ISO F the motor has 3 PTC-resistors, speed - variation is possible with a frequency converter

Mounted to high-pressure side of each pump

- Safety valve, Hastelloy
- Pulsation damper, Hastelloy, with interchangeable membrane, teflon

Pump and motor mounting

- Base frame, material: lacquered steel vibration dampers at the bottom-side
- All suction and pressure strangs are equipped with ball valves (stainless steel) with intergrated position switches

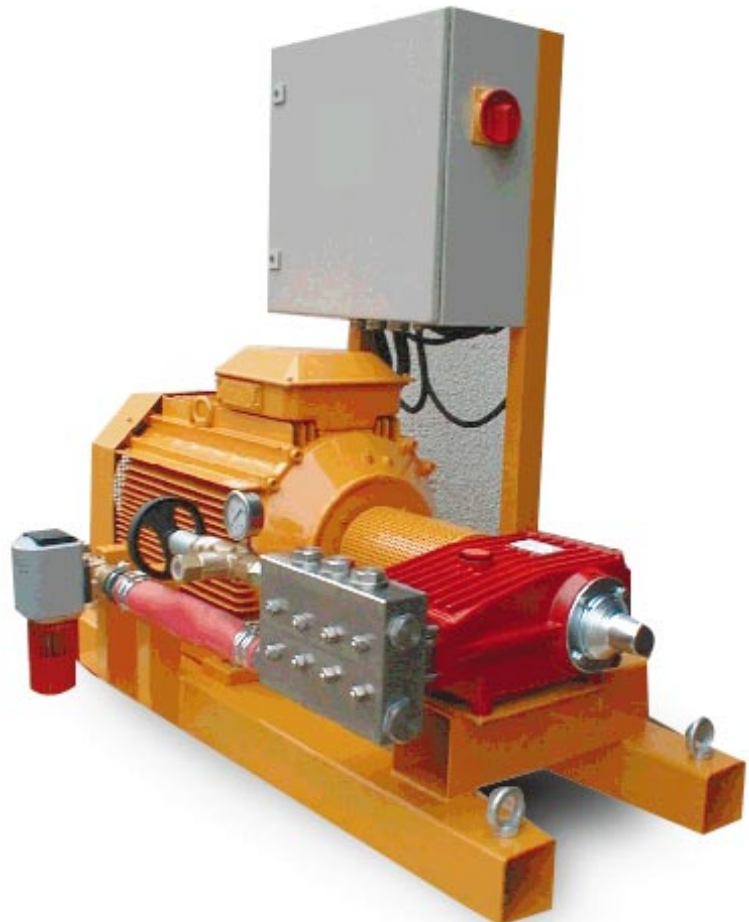
Tunnel Construction

Fluid Uses

- well water
- industrial water
- city water

Manufacturer and user of units

- cleaning
- galvanic processes
- conditioning of process fluids



Pump Specifications

Pump (s): LP
Valve Casing: Brass
Seals: Nitrile
Fluid: city water, temp. 104°F
(40°C) max.
GPM: 12 gal/rotation (52 l/min)
PSI: 3,916 PSI (270 bar)
RPM: 970 RPM



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Power transmission for pump

- Flexi-coupling and c-face bell-housing
- Electric-motor 400/690 V, 50 Hz, 46 HP (35.5 kW), 1000 rpm, version B3, IP55, ISO F star-delta-starting with remote control box with main switch and on/off - switch

Mounted to suction side of each pump

- Reversible flow filter
- C-hose coupling

Mounted to high pressure side of each pump

- Unloader, connected to the pump with a high-pressure hose
- Pressure gauge, 0-5,802 PSI (0-400 bar), glycerine damped

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

Special features

- Special lacquering (RAL color)

Water Conditioning

Waste water of automobile paint

Fluid Uses

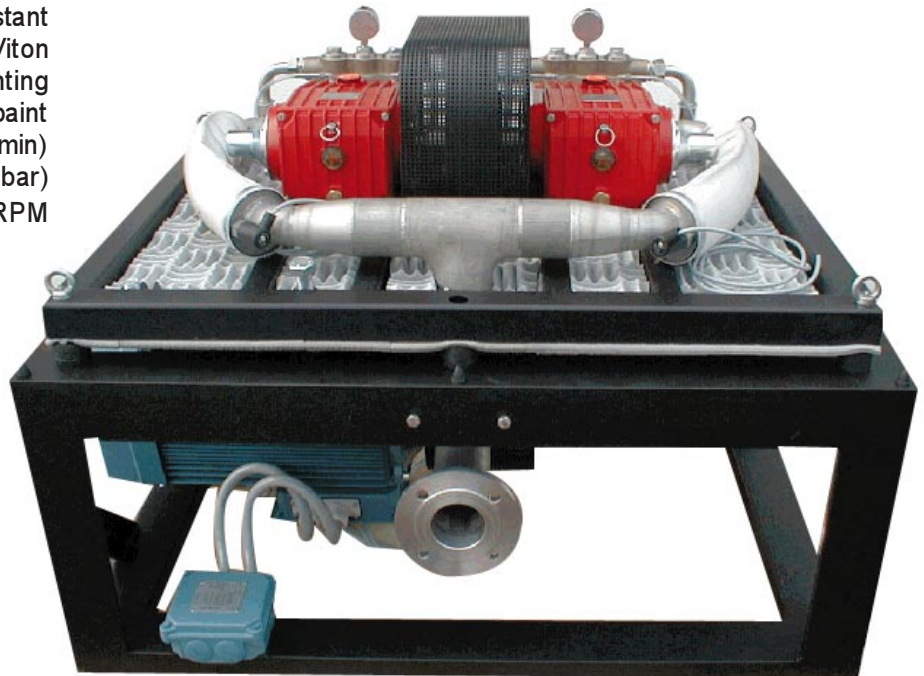
- brackish water
- dump site leakage water
- electro plating waste water
- fruit juice, beer, wine, milk
- sea water
- industrial waste water
- liquid manure

Manufacturer and user of units

- high pressure cleaning
- industries
- dockyards
- metal producing and working
- car wash
- carriers

Pump Specifications

Pump (s): **LP121-3100**
Valve Casing: Bronze, seawater
resistant
Seals: Viton
Fluid: Waste water of car painting
water based paint
GPM: 23 gal/rotation (100 l/min)
PSI: 1,015 PSI (70 bar)
RPM: 595 RPM



Power transmission for pump

- V-belt drive and beltguard
- 1 electric-motor 400/690 V, 60 Hz, 40 HP (30 kW), 1500 rpm version B8, IP55, ISO F

Mounted to suction side of each pump

- One common water inlet with manifold, made of stainless steel each pump suction stabilizing hose with included break alarm (pressure controlling)

Mounted to high pressure side of each pump

- Safety valve, AISI 316
- Pressure gauge, AISI 316 the high pressure outlets of both pumps are connected to one common discharge manifold. Mounted on the discharge manifold is a pulsation dampener

Pump and motor mounting

- One common base frame, material: painted steel, with vibration dampers at the base of the common frame and vibration dampers at the base of the pump frame

Special features

- To minimise pulsation the crankshafts, both pumps are rigidly connected, displaced 140°F (60°C)
- External flushing to avoid sedimentation and for controlling leakage silencing: 79 dB(A)

Water Hydraulic System

Fluid Uses

- demineralized water
- water - glycol - mixture
- clear water / city water
- oil, hydraulic fluid

Manufacturer and user of units

- hydraulic systems
- electric power station
- hydroforming
- petro chemistry
- off-shore

Pump Specifications

Pump (s): **GP**
Valve Casing: AISI 303
Seals: Nitrile
Fluid: water with glycol, temp. 86°F
(30°C) max.
GPM: 25 gal/rotation (112 l/min)
PSI: 3,002 PSI (207 bar)
RPM: 730 RPM



Power transmission for pump

- V-belt drive and beltguard
- E-motor 230/460 V, 60Hz, 101 HP (75 kW), 1000 rpm, version B3, EExelIT3

Pump and motor mounting

- Base frame, material: painted steel with vibration dampers at the base

Special features

- Special explosion protection, with brass belt guard, antistatic belts and additional earth cables