

# Non-Metallic Ultra High Purity Chemical Pump

DP-20F-FT-UHP-EX

Y A M A D A

*The world leader adds to the line-up*



- Non-metallic construction ensures contamination-free transfer of corrosive, ultra-high purity fluids where metal extractables are of the utmost concern
- No molded parts. All machined from the highest quality virgin materials
- Virgin machined PTFE for all liquid path components
- One piece PTFE diaphragm
- Clean room manufactured, DI water tested, N<sub>2</sub> Purged and double bagged
- Leak detection compatible
- Pump is operated by external controller
- End user serviceable
- 12.5 gallon per minute maximum capacity
- **Retrofittable air motor for existing DP-20F pumps in the field!**

When it comes to Ultra High Purity PTFE Air-Operated Double Diaphragm pumps, no manufacturer in the world has the experience, knowledge and installed pump population of Yamada - over 33,000 units operating globally.

The DP-20F-FT-UHP-EX was designed specifically for the safe transfer of

semiconductor process chemistries where purity is of the utmost concern. It has no internal metal components, so even a diaphragm failure will not produce a single PPB of ionic contamination! To ensure maximum corrosion resistance, purity levels and low particle generation, all wetted components are machined from 100% virgin PTFE.

**Industry flows  
through Yamada pumps**

**CALL TOLL-FREE 1.800.990.7867**

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# DP-20F NON-METALLIC PUMP

## Specifications:

### Port connections & size:

Liquid Intake and Discharge:  
Flaretek® - 3/4" - DP-20F-FT-UHP-EX (853021)  
3/4" female NPT and ANSI-Flange also available - consult Yamada

Compressed Air:  
1/4" Female NPT

Leak Detection:  
1/4" Female NPT

### Check valves:

Flat type check valve standard  
Ball type also available - consult Yamada

### Discharge Volume / Cycle:

0.042 gal

### Maximum Cycles / Minute:

250

### Compressed air supply pressure:

0 to 70 PSI (0 to 5 kgf/cm<sup>2</sup>)

### Maximum Liquid Temperature:

176° F (80° C)

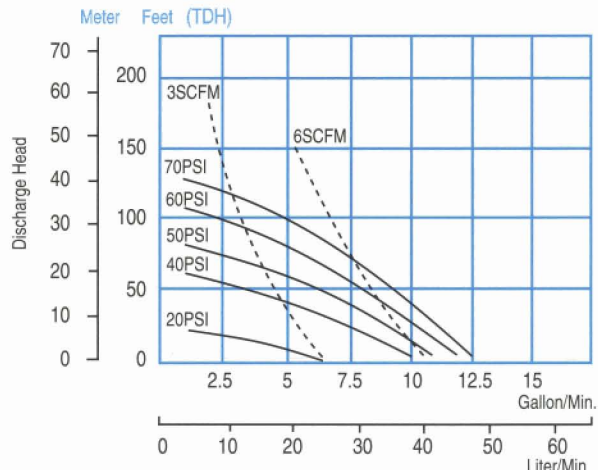
### Materials:

Wetted: Virgin PTFE  
Non Wetted: High density Polypropylene

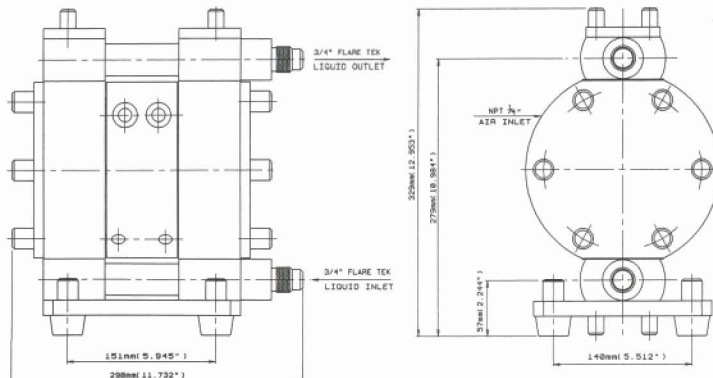
### Net Weight:

Flaretek® 32.5 lbs. (14.8 kg)

Flaretek® is a registered trademark of Fluoroware, Inc.

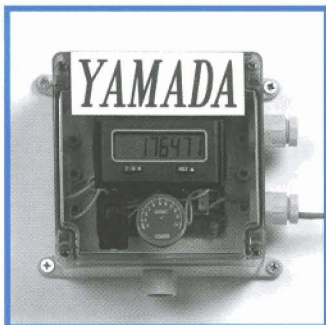


Data based on 1-ft. flooded suction.  
Flat-type check valve



MODEL NUMBER = DP-20F-FT-UHP-EX

# PUMP CONTROLLER



The Yamada YSC - 1EX pump speed controller provides a reliable cost-effective solution for accurate speed/flow control of the Yamada externally operated pump. There is no extensive programming required for setup. An analog dial on the cover allows the user to simply set

the desired cycle speed, up to 250 CPM. Through the large front panel display, information for both the rate (cycle speed) and totalization (number of cycles) is easily attained.

### Pump Controller:

- Large readout display
- Easy monitoring of both rate and cycle totalization
- Variable speed control
- Allows for flow rate adjustment at any given delivery pressure
- Low power, 24 Vdc
- Meets NEMA 4 sealability standards
- Simplifies P.M. schedules

# Yamada