



First choice when
quality counts.™

Industrial Low Pressure Circulation Systems

- **Modular components meet a variety of pumping station applications**
- **Packages are fully assembled Graco modules requiring no additional configuring on the job**
- **CS and SST construction allows pumping of solventborne, waterborne and catalyzed materials**
- **New pump throat seal cartridge design allows throat seal replacement on-line**
- **Modules and packages are engineered for ease of serviceability**
- **The on-line serviceable Husky 1040 air valve has superior reliability**

Modular and packaged solutions for low pressure industrial circulation systems

Graco introduces five new low pressure pumping modules, including a 55 gallon (200 liter) supply module, heater module, and surge tank module. All contain the necessary hardware to assemble a complete pumping station. The heater modules use the Graco Vis-con² in-line heaters and are available in a variety of voltages to meet global requirements. Customers requiring superior pulsation dampening can use the Graco mid-range SST High-Flo surge tank module.

Packages represent commonly purchased module combinations. Graco has four packages available, all with the 55 gallon (200 liter) drum supply. These packages

represent complete industrial low pressure circulation pumping station solutions as one part number. They are completely assembled and tested at Graco. No additional plumbing is required. All modules and packages are CE marked.



232-089 Mid-range High-Flo Package, for solventborne and waterborne materials shown.

Typical Fluids Handled

- Solventborne coatings
- Waterborne coatings
- NGR stains
- Acid catalyzed varnish
- High solid lacquers

Typical Applications

- Wood finishing
- Farm and construction
- Truck and bus
- Small to medium automotive component suppliers
- General metal finishing



Technical Specifications

Maximum fluid pressure

- President 3:1 300 psi (2.1 MPa, 21 bar)
- Husky 1040 100 psi (0.7 MPa, 7 bar)

Maximum air input pressure

- President 3:1 100 psi (0.7 MPa, 7 bar)
- Husky 1040 100 psi (0.7 MPa, 7 bar)

Fluid flow at 60 cpm

- President 3:1 9.3 gpm (35.3 lpm)
- Husky 1040 9.0 gpm (34 lpm)

Volume per cycle

- President 3:1 19.8 oz. (0.58 liter)
- Husky 1040 19.2 oz. (0.56 liter)

Air inlet size

- President 3:1 1/2 npt(f)
- Husky 1040 1/2 npt(f)

Fluid inlet size

- President 3:1 1-1/2 npt(f)
- Husky 1040 1 npt(f)

Fluid outlet size

- President 3:1 1 npt(f)
- Husky 1040 1 npt(f)

Weight

- President bare pump 59 lb. (27 kg)
- Husky bare pump 33 lb. (15 kg)

Instruction manuals

President modules and packages 308-768, 308-770

 President 3:1 bare pump 308-793

Husky modules and package 308-773

 Husky 1040 bare pump 308-479

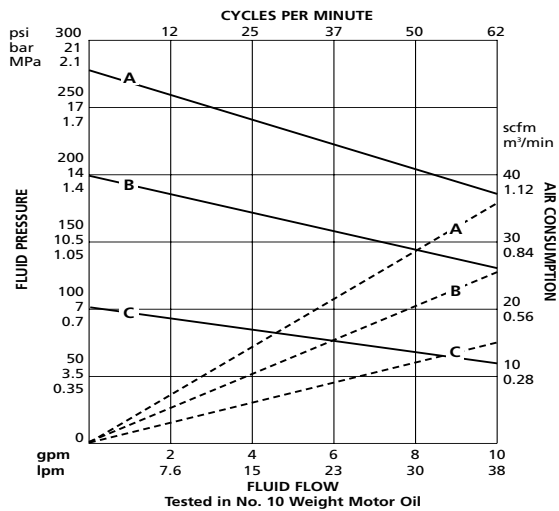
55 gallon drum supply module 308-769

Heater module 308-771

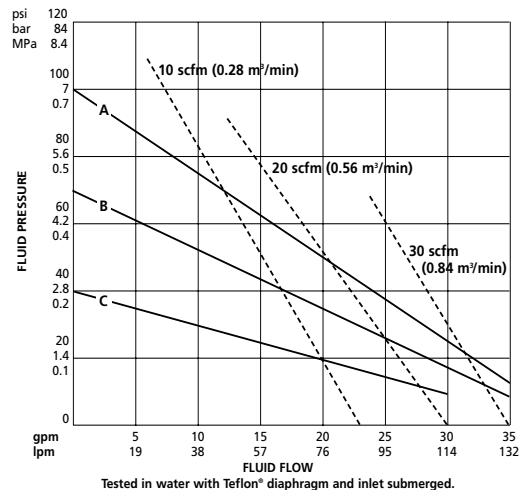
Surge tank module 308-772

Performance Charts

President 3:1 Fluid Flow and Air Consumption



Husky 1040 Fluid Flow and Air Consumption



Solid Lines: Fluid Flow
Dashed Lines: Air Consumption

Air Pressures:

- A = 100 psi (0.7 MPa, 7 bar)
- B = 70 psi (0.48 MPa, 4.8 bar)
- C = 40 psi (0.28 MPa, 2.8 bar)

Ordering Information for Circulation Packages

Packages are ordered as one part number and are shipped complete, with the 55 gallon supply module. No additional plumbing modifications are required to install the package.

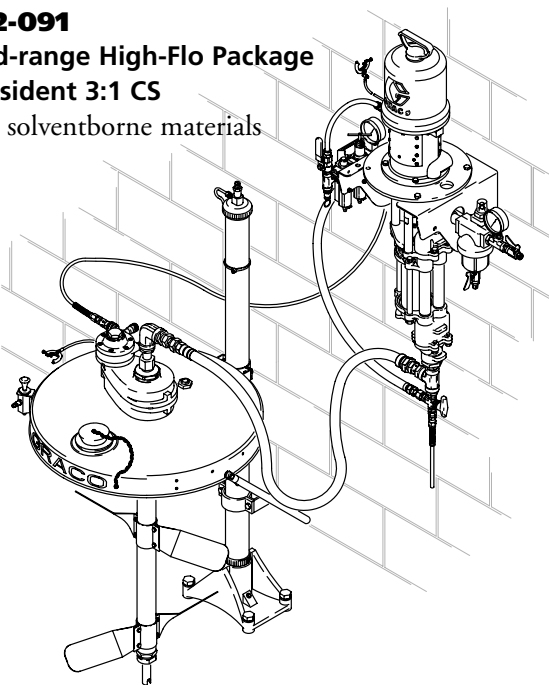
All packages are supplied with 60 mesh element screens. All stainless steel packages use a fluid filter with Viton® seals. EPR (ethylene propylene) filter seals are also available. (See the accessories section of this data sheet).

Coating Materials Packages

232-091

Mid-range High-Flo Package President 3:1 CS

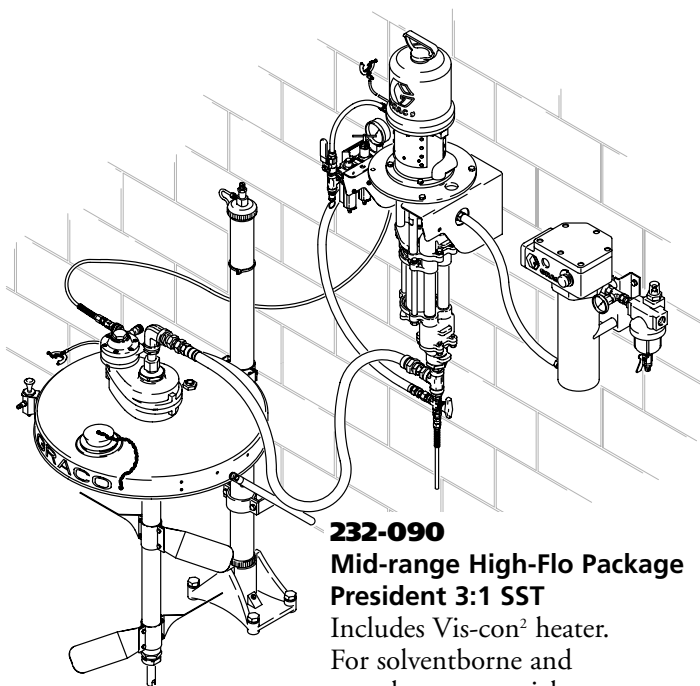
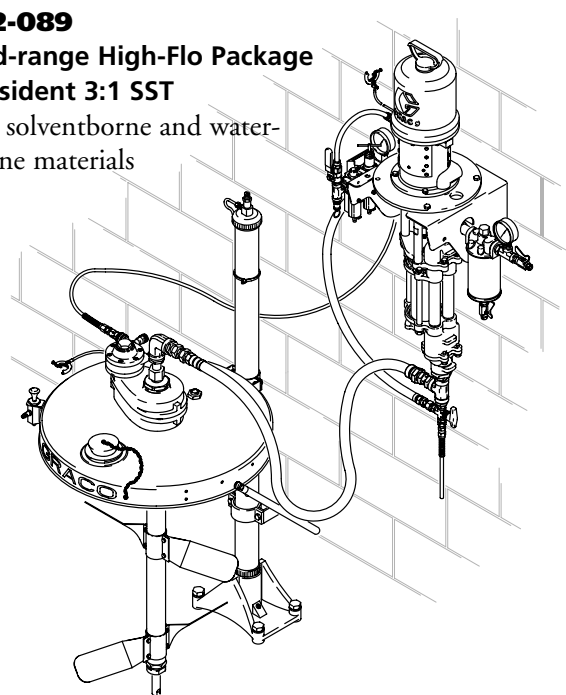
For solventborne materials



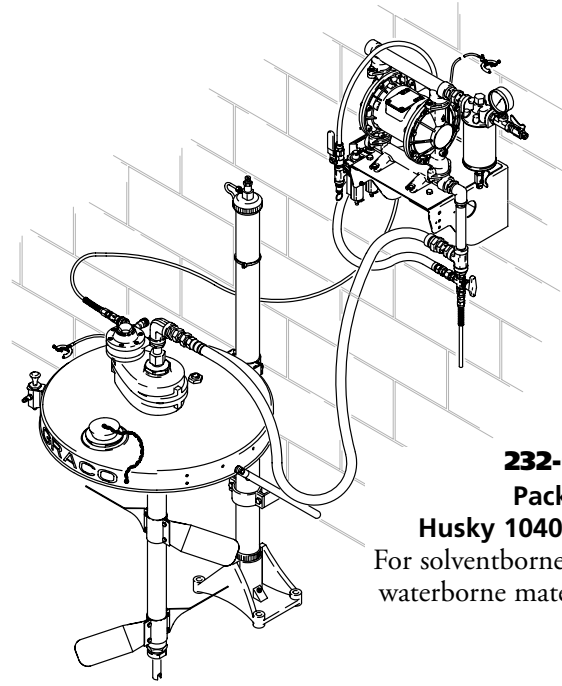
232-089

Mid-range High-Flo Package President 3:1 SST

For solventborne and waterborne materials



232-090
Mid-range High-Flo Package
President 3:1 SST
Includes Vis-con² heater.
For solventborne and waterborne materials



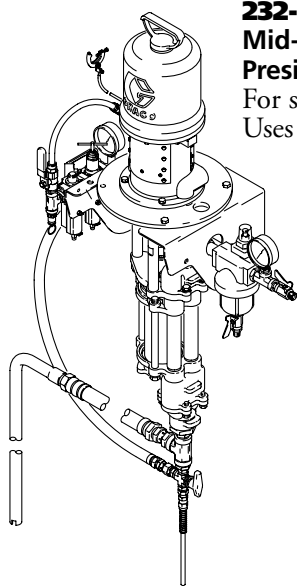
232-092
Package
Husky 1040 SST
For solventborne and waterborne materials

Ordering Information for Circulation Pump Modules

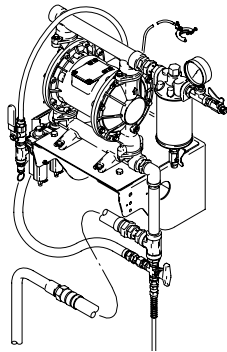
You may wish to refer to the Circulation Package section on page 3 prior to ordering. A pre-plumbed package may be available and could save installation time and expense.

All pumping modules come complete with either a President 3:1 or a Husky 1040 pump. Pump modules also include BPR (back pressure regulator), FRL (filter/regulator/lubricator), fluid filter with 60 mesh element screen, siphon hose, and wall mount bracket system. The stainless steel coating pump modules (232-081, 232-082) use a fluid filter with Viton seals. EPR (ethylene propylene) filter seals are also available. (See the accessories section of this data sheet.)

Coating Materials Pump Modules

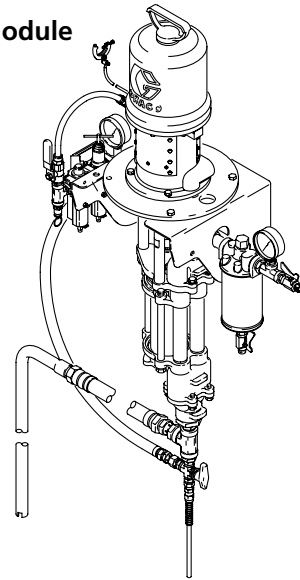


232-079
Mid-range High-Flo Module
President 3:1 CS
For solventborne coatings.
Uses Red Alert filter.



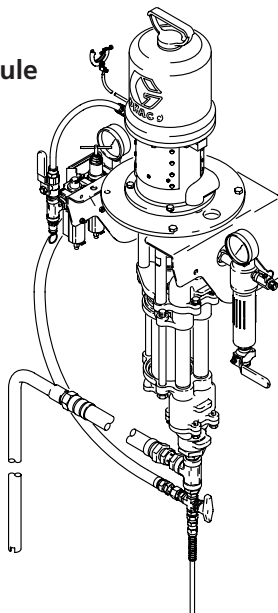
232-082
Module
Husky 1040 SST
Used for solventborne
and waterborne coatings

232-081
Mid-range High-Flo Module
President 3:1 SST
For solventborne and
waterborne coatings.
Uses Graco SST filter.

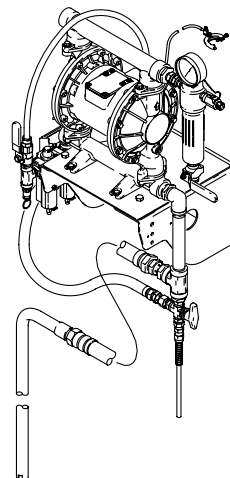


Wood Finishing Materials Pump Modules

232-078
Mid-range High-Flo Module
President 3:1 SST
Uses high pressure
Graco SST filter.



232-080
Module
Husky 1040 SST
Uses high pressure
Graco SST filter.



Ordering Information for Supply, Heater and Surge Tank Modules

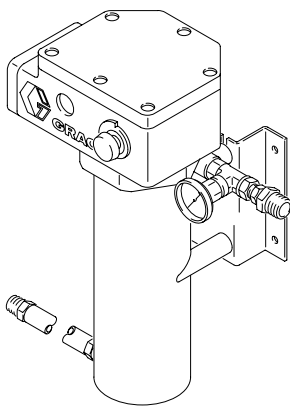
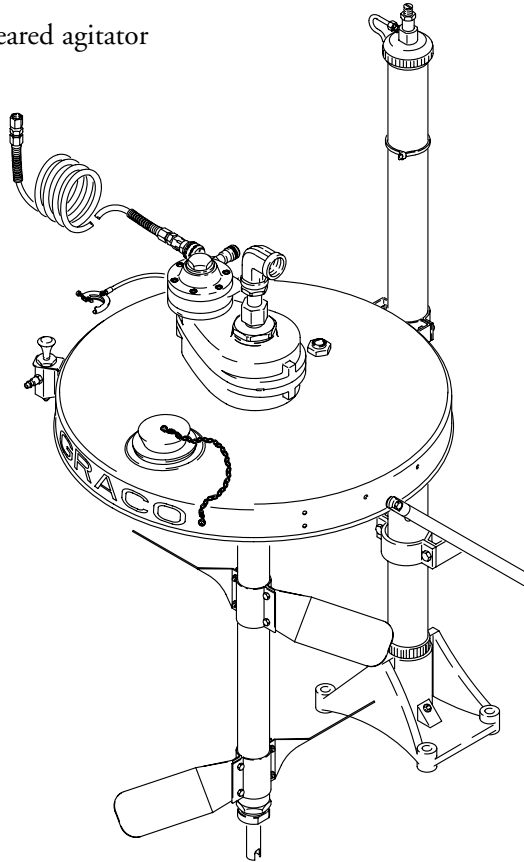
*You may wish to refer to the Circulation Package section on page 3 prior to ordering.
A pre-plumbed package may be available and could save installation time and expense.*

The supply, heater and surge tank modules can be ordered in any combination with the pump modules on the previous page. They have been designed to easily install and plumb together with minimal modifications at the job site.

239-857

55 Gallon Supply Module

Drum cover, elevator, back-geared agitator

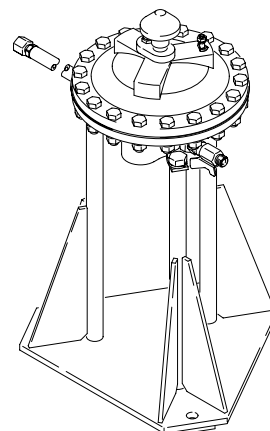


Vis-con² Heater Modules

239-850 120 VAC

239-851 240 VAC

239-852 220/240 VAC

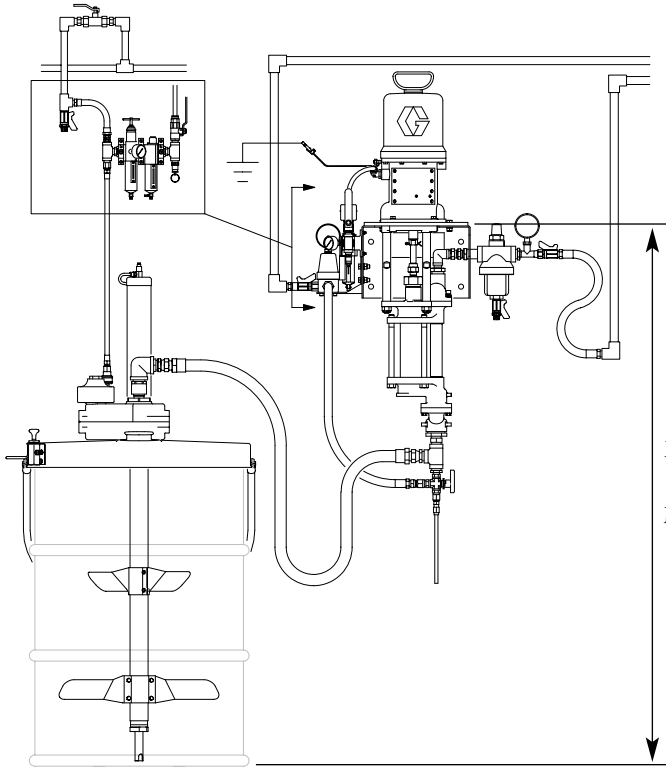


239-858 **Surge Tank Module**

Mid-range High-Flo SST
surge tank and stand

Dimension Drawings

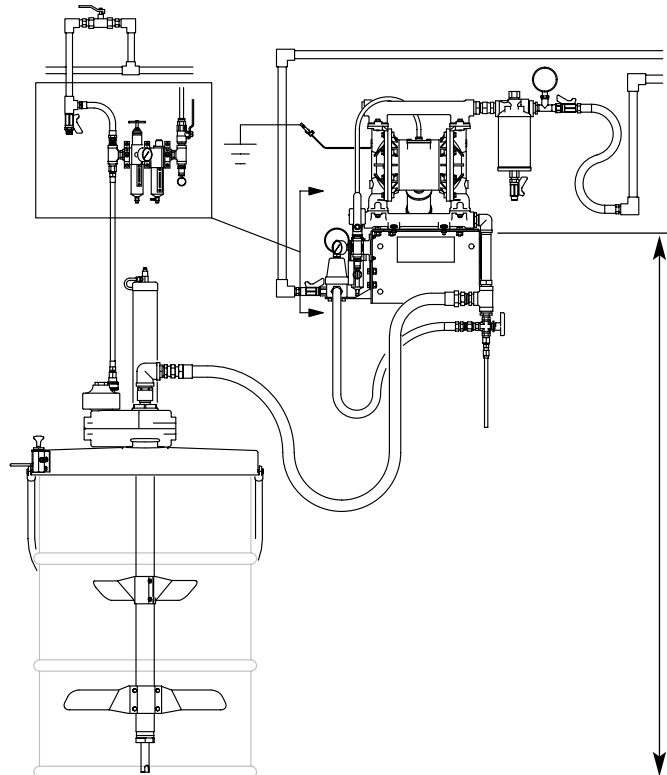
President 3:1 Package



Minimum Height:
4 ft. (1.2 m)

Maximum Height:
5 ft. (1.5 m)

Husky 1040 Package



Minimum Height:
4 ft. (1.2 m)

Maximum Height:
5 ft. (1.5 m)

Accessories

Red Alert Fluid Filter Elements

For Pump Package: 232-091

For Pump Module: 232-079

Part No.	Area/sq.	Mesh	Material
108-106	36 in. (232 cm)	30	SST
108-107*	36 in. (232 cm)	60	SST
108-108	36 in. (232 cm)	100	SST
108-109	36 in. (232 cm)	150	SST
108-110	36 in. (232 cm)	200	Aluminum
108-111	225 in. (1451 cm)	30	SST
108-112	225 in. (1451 cm)	60	SST
108-113	225 in. (1451 cm)	100	SST
108-114	225 in. (1451 cm)	200	SST
108-115	225 in. (1451 cm)	150	SST

*Standard with President 3:1 CS modules and packages

Graco SST Fluid Filter Elements

For Wood Finishing Modules 232-078, 232-080

Part No.	Part No.	Area/sq.	Mesh
25-count	3-pack		
238-436	238-435	18 in. (116 cm)	30
238-438*	238-437*	18 in. (116 cm)	60
238-440	238-439	18 in. (116 cm)	100
238-442	238-441	18 in. (116 cm)	200
238-444	238-443	7 in. (45 cm)	30
238-446	238-445	7 in. (45 cm)	60
238-448	238-447	7 in. (45 cm)	100
238-450	238-449	7 in. (45 cm)	200

*Standard with all wood finishing pump modules

SST Fluid Filter Element Kits (with Viton® seals)

For Pump Packages: 232-089, 232-090, 232-092

For Pump Modules: 232-081, 232-082

Part No.	Area/sq.	Mesh	Material
240-186	26 in. (167 cm)	30	SST/Viton
240-187*	26 in. (167 cm)	60	SST/Viton
240-188	26 in. (167 cm)	100	SST/Viton
240-189	26 in. (167 cm)	200	SST/Viton

*Standard with SST coating materials packages and modules

240-194 Viton Seal Kit

Includes Viton filter cap and housing seals. Used in conjunction the Viton fluid filter elements in the chart above.

SST Fluid Filter Element Kits (with EPR seals)

For Pump Packages: 232-089, 232-090, 232-092

For Pump Modules: 232-081, 232-082

Part No.	Area/sq.	Mesh	Material
240-190	26 in. (167 cm)	30	SST/EPR
240-191	26 in. (167 cm)	60	SST/EPR
240-192	26 in. (167 cm)	100	SST/EPR
240-193	26 in. (167 cm)	200	SST/EPR

240-195 EPR (Ethylene Propylene) Seal Kit

Includes EPR filter cap and housing seals. Used in conjunction the EPR fluid filter elements in the chart above.

Viton® is a registered trademark of DuPont.

Accessories continue on next page.

Accessories, cont.

113-333 Bleed-Type Master Air Valve

Maximum working pressure: 300 psi (2.1 MPa, 21 bar).
Inlet and outlet: 3/8 npt(mxf)

113-765 Air Filter/Regulator

Maximum working pressure: 250 psi (1.75 MPa, 7.5 bar). Inlet and outlet: 3/8 npt(f)

114-005 Air Line Lubricator

Maximum working pressure: 250 psi (1.75 MPa, 17.5 bar). Inlet and outlet: 3/8 npt(f)

224-040 AirGard Runaway Valve

Maximum working pressure: 120 psi (0.8 MPa, 8.4 bar).
Inlet and outlet: 3/4 npt(f). Automatically stops air supply to the pump, to protect the pump from damage and minimize potential fluid spills due to a runaway condition.

239-384 Air Filter Replacement Kit

Polypropylene, 40 micron.