



First choice when quality counts.™

# Husky™ 205

## Air-Operated Double Diaphragm Pump

- **Superior performance compared to the competition**
- **Dead head capabilities — no bypass required for corrosive, hazardous chemicals**
- **Low-cost, compact design**
- **External 4-way solenoid air valve option capability**
- **Handles a wide variety of fluids**



Acetal  
(shown with wall bracket)

Graco's Husky 205 is our smallest pump in the double diaphragm lineup. But this should not be misleading – this pump works hard at pumping a wide variety of fluids (solvents, acids, bases and low viscosity coatings, lubricants, and adhesives). This pump is known as a dosing, metering, chemical feed, circulation, and analyser pump.

In addition, the pump is available with ports for external air solenoid valve operation. This 4-way air valve controls the cycle rate of the pump so precise dosing can be achieved at a lower cost to you. The 205 can handle simple on/off batch applications or continuous circulation jobs.

**Small  
in size,  
large in  
productivity!**



Kynar



Polypropylene

### Typical Applications

- Municipal water treatment systems
- Waste water plants
- Ink
- Printed circuit board operations
- Irrigation systems
- Plating/surface finishing

### Typical Fluids Handled

- Waterborne materials, some HHC's
- Paint, coatings, inks, and dyes
- Car wash chemicals
- Laundry chemicals, detergent
- Chemical dosing

# Technical Specifications

- Maximum fluid working pressure . . . . . 100 psi (0.7 MPa, 7 bar)
- Maximum fluid flow . . . . . 5.0 gpm (18.9 lpm)
- Maximum pump speed
  - Dry . . . . . 320 cpm
  - Wet . . . . . 250 cpm
- Volume per stroke\* . . . . . 0.006 gallon (23 cc)
- Volume per cycle\* . . . . . 0.012 gallon (46 cc)
- Maximum suction lift dry . . . . . 8-10 ft. (2.5-3 m)
- Maximum size pumpable solids . . . . . 0.06 in. (1.5 mm)
- Maximum operating temperature . . . . . 180°F (82°C)
- Maximum air consumption . . . . . 9.0 scfm (0.252 m<sup>3</sup>/min)
- Air inlet size\*\* . . . . . 1/4 npt(f) / 1/4 bsp(f)
- Fluid inlet size\*\* . . . . . 1/4 npt(f) / 1/4 bsp(f)
- Fluid outlet size\*\* . . . . . 1/4 npt(f) / 1/4 bsp(f)
- Air exhaust port size\*\* . . . . . 1/4 npt(f) / 1/4 bsp(f)
- Weight
  - Polypropylene pump . . . . . 2.0 lbs. (0.9 kg)
  - Acetal pump . . . . . 2.5 lbs. (1.1 kg)
  - Kynar<sup>®</sup> pump . . . . . 2.8 lbs. (1.3 kg)
- Wetted parts
  - Polypropylene pump . . . . . glass-filled polypropylene, Teflon<sup>®</sup>, polypropylene
  - Acetal pump . . . . . acetal with SST fibers, Teflon, acetal
  - Kynar pump . . . . . Kynar<sup>®</sup>, Teflon, Kynar
- Maximum sound power level (per ANSI STD S12.1)
 

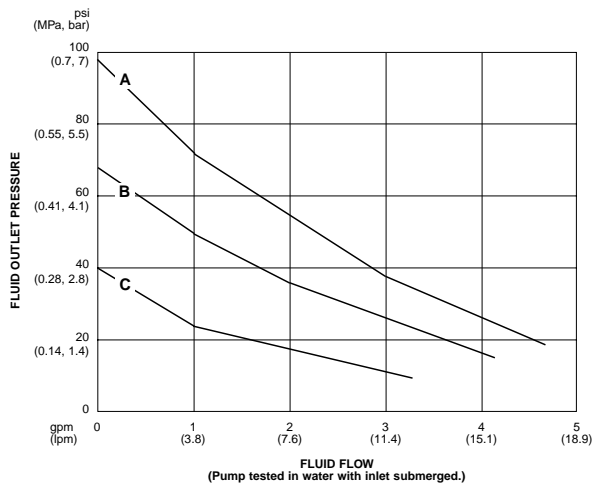
	Pressure	Intensity
at 100 psi (0.7 MPa, 7 bar) . . . . .	75.5 dBa	84.5 dBa
at 70 psi (0.49 MPa, 4.9 bar) . . . . .	72.0 dBa	81.1 dBa
at 40 psi (0.28 MPa, 2.8 bar) . . . . .	68.2 dBa	76.6 dBa
- Instruction manual . . . . . 308-652



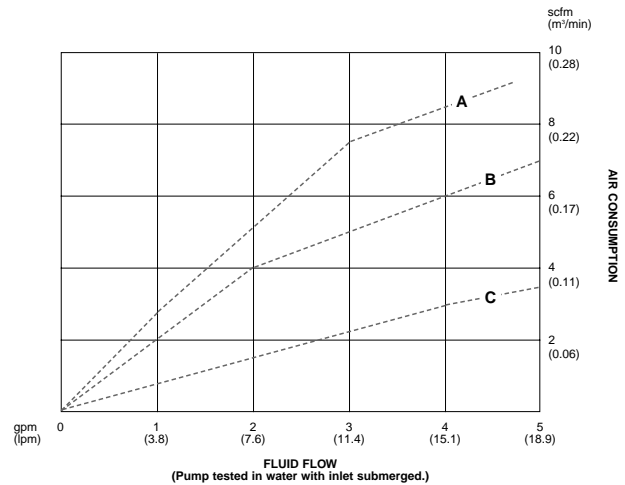
\* Volume per cycle and per stroke may vary based on suction condition, discharge head, air pressure, and fluid type.  
 \*\* Hybrid thread allows for either 1/4 npt or 1/4 bsp fitting

# Husky 205 Pump Performance

Fluid Pressure



Air Consumption



Key:  
 — Fluid Outlet Pressure  
 - - - - - Air Consumption

Air Pressures:  
 A = at 100 psi (0.7 MPa, 7 bar)  
 B = at 70 psi (0.48 MPa, 4.8 bar)  
 C = at 40 psi (0.28 MPa, 2.8 bar)

## Accessories

### 222011 Grounding Wire and Clamp

25 ft. (7.6 m) long

### Air Line Quick Disconnect

**208536** Coupler 1/4 npt(f)

**169970** Fitting 1/4 npt(m)

### 110147 Air Regulator and Gauge

Adjustment range: 0-180 psi (0-1.1 MPa, 0-11 bar)

Max. working pressure: 300 psi (2.1 MPa, 21 bar)

Inlet and outlet: 1/4 npt(f)

### 205090 Air Control Needle Valve

Max. working pressure: 300 psi (2.1 MPa, 21 bar)

Inlet: 1/4 npt(m)

Outlet: 1/4 npt(f)

### 110146 Air Line Filter

Max. working pressure: 300 psi (2.1 MPa, 21 bar)

Inlet and outlet: 1/4 npt(f)

Reusable 20 micron filter and drain cock.

### 221169 Air Hose

Max. working pressure: 300 psi (2.1 MPa, 21 bar)

Size: 1/2 in. x 10 ft. (3 m).

Coupled size: 1/2 npt(m) x 1/4 npt(m).

### Fluid Hose Kits

Max. working pressure: 100 psi (0.7 MPa, 7 bar). 1/4 npt(mbe).

Inside diameter: 3/8 in. (10 mm)

**239169** Polypropylene

**239170** Nylon

**239171** Teflon

### Groundable Fluid Hoses

Max. working pressure: 500 psi (3.4 MPa, 34 bar). Nylon core, synthetic rubber cover. Inside diameter: 1/4 in. (6 mm), 1/4 npt(m) x 1/4 npsm(f) swivel.

**205375** 6 ft. (1.2 m) long

### Fluid Drain Valves

**237528** Stainless Steel/Teflon

1/4 npt(mbe)

**208390** Carbon Steel/Teflon

1/4 npt(m) x 1/4 npt(f)

### 113497 Fluid Pressure Relief Valve

Prevents overpressurization of pump due to thermal expansion or fluid backup in the outlet line. Venting pressure: 150 psi (1.05 MPa, 10.5 bar). Brass and Buna-N, 1/4 npt(m x f).

### 241810 Mounting Bracket (for replacement)

SST bracket for horizontal mounting of pump.

### Remote Suction Kit

55 gallon (200 liter). Drum kit contains air-tight bung adapter, rigid suction tube, hose and fittings for feeding a remote wall-mounted pump.

**239142** Polypropylene

**239143** Acetal

**239144** Kynar

### 195264 CycleFlo Batch Controller

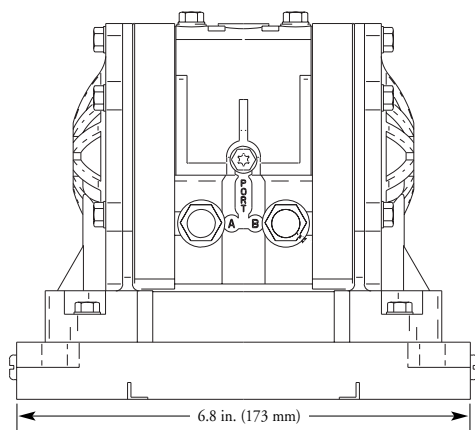
Programmable batch controller for solenoid-operated (D2xxxx) pumps. Controls cycle rate and number of strokes.

### 195265 CycleFlo II Cycle Controller

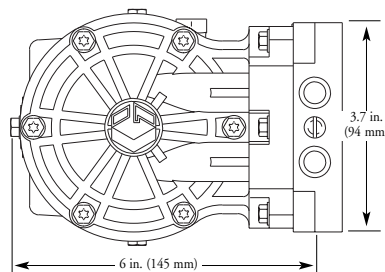
Adjusts cycle rate only. For use with solenoid-operated pumps.

## Husky 205 Pump Dimensions

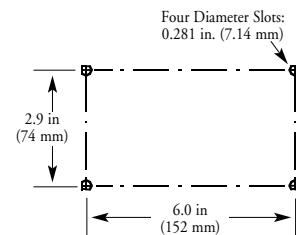
Bottom View (shown)



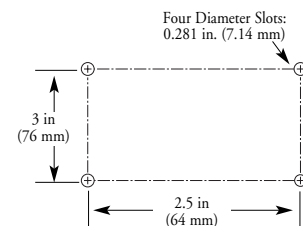
Side View



Pump Base Mounting Pattern for Wall Mounting



Bracket Pattern



# Ordering Information for the Husky 205

Order No.	Wetted Parts/Seat	Poppet Check	Diaphragm	Internal	External*
				Air-Valve Operated	Solenoid Operated
D12091	Polypropylene	Polypropylene	Teflon	X	
D11021	Acetal	Acetal	Teflon	X	
D150A1	Kynar (PVDF)	Kynar	Teflon	X	
D22091	Polypropylene	Polypropylene	Teflon		X
D21021	Acetal	Acetal	Teflon		X
D250A1	Kynar (PVDF)	Kynar	Teflon		X

\* Solenoid not included.

Teflon® and Hytrel® are registered trademarks of Du Pont.  
 Santoprene® is a registered trademark of Monsanto.  
 Kynar® (PVDF) is a registered trademark of Atochem North America, Inc.

## Conversion/Repair Kits

Conversion/Repair Kits may be ordered separately. To repair the seats, checks and diaphragms, select the six digits which describe your pump from the following matrix, working from left to right. The first four digits are always D010. The remaining two digits define the materials of construction. A choice of zero allows you to omit that component. Example: To order Teflon diaphragms only for a Husky 205 pump order D01001.

Diaphragm Pump	Kit	O-Ring	Select One from Each Column		
			Seats	Checks	Diaphragms
D (for all pumps)	0 (for all pumps)	1 (for all pumps)	0 (for all pumps)	0 (None) A (Kynar) 2 (Acetal) 9 (Polypropylene)	0 (None) 1 (Teflon)

**238853 Air Valve Kit**  
 Replacement air valve assembly.

## Sales/Distribution

North America Toll Free 877-84-GRACO (877-844-7226)  
 Telephone 612-623-6743  
 Fax 612-623-6580  
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