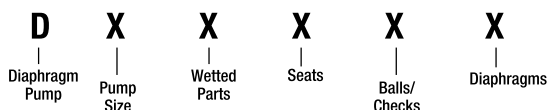


# Husky 1590 Plastic Pumps

## Air-Operated Double Diaphragm

### Ordering Information



| PUMP SIZE (AIR MOTOR TYPE AND MATERIAL)                       | WETTED PARTS      | SEATS               | BALLS               | DIAPHRAGM           |
|---------------------------------------------------------------|-------------------|---------------------|---------------------|---------------------|
| B = 1-1/2" (38.1 mm) Standard: aluminum center section        | 2 = Poly (flange) | 3 = Stainless Steel | 1 = PTFE            | 1 = PTFE            |
| C = 1-1/2" (38.1 mm) Remote: aluminum center section          | 5 = PVDF (flange) | 4 = Hardened SST    | 2 = Acetal          | 5 = TPE             |
| T = 1-1/2" (38.1 mm) Standard: stainless steel center section |                   | 5 = TPE             | 4 = Hardened SST    | 6 = Santoprene      |
| U = 1-1/2" (38.1 mm) Remote: stainless steel center section   |                   | 6 = Santoprene      | 5 = TPE             | 7 = Buna N          |
|                                                               |                   | 7 = Buna N          | 6 = Santoprene      | 8 = Fluoroelastomer |
|                                                               |                   | 8 = Fluoroelastomer | 7 = Buna N          | G = Geolast         |
|                                                               |                   | 9 = Polypropylene   | 8 = Fluoroelastomer |                     |
|                                                               |                   | A = PVDF            | G = Geolast         |                     |
|                                                               |                   | G = Geolast         |                     |                     |

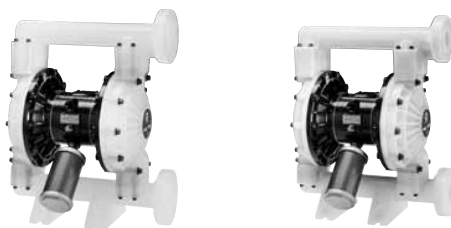
### Popular Models

| Material                                                      | Part Number<br>(ANSI-Flange) |                      | Part Number<br>(BSP Ported) |                      | Materials for<br>Seats | Materials for<br>Balls | Materials for<br>Diaphragms | Fluid<br>Kit | Air Kit | Air<br>Control** |
|---------------------------------------------------------------|------------------------------|----------------------|-----------------------------|----------------------|------------------------|------------------------|-----------------------------|--------------|---------|------------------|
|                                                               | Standard<br>Air Valve        | Remote*<br>Air Valve | Standard<br>Air Valve       | Remote*<br>Air Valve |                        |                        |                             |              |         |                  |
| Standard Pumps with Aluminum Center Section                   |                              |                      |                             |                      |                        |                        |                             |              |         |                  |
| Polypropylene                                                 | DB2311                       |                      |                             |                      | Stainless Steel        | PTFE                   | PTFE                        | D0C311       | 236273  | 246947           |
|                                                               | DB2377                       | DC2377               |                             |                      | Stainless Steel        | Buna                   | Buna                        | D0C377       | 236273  | 246947           |
|                                                               | DB2777                       | DC2777               |                             |                      | Buna                   | Buna                   | Buna                        | D0C777       | 236273  | 246947           |
|                                                               | DB2888                       | DC2888               |                             |                      | Fluoroelastomer        | Fluoroelastomer        | Fluoroelastomer             | D0C888       | 236273  | 246947           |
|                                                               | DB2911                       | DC2911               |                             |                      | Polypropylene          | PTFE                   | PTFE                        | D0C911       | 236273  | 246947           |
|                                                               | DB2955                       |                      |                             |                      | Polypropylene          | TPE                    | TPE                         | D0C955       | 236273  | 246947           |
|                                                               | DB2966                       |                      |                             |                      | Polypropylene          | Santoprene             | Santoprene                  | D0C966       | 236273  | 246947           |
|                                                               | DB2977                       |                      |                             |                      | Polypropylene          | Buna                   | Buna                        | D0C977       | 236273  | 246947           |
|                                                               | DB2988                       |                      |                             |                      | Polypropylene          | Fluoroelastomer        | Fluoroelastomer             | D0C988       | 236273  | 246947           |
|                                                               | DB29GG                       | DC29GG               |                             |                      | Polypropylene          | Geolast                | Geolast                     | D0C9GG       | 236273  | 246947           |
| PVDF                                                          | DB5311                       |                      |                             |                      | Stainless Steel        | PTFE                   | PTFE                        | D0C311       | 236273  | 246947           |
|                                                               | DB5666                       |                      |                             |                      | Santoprene             | Santoprene             | Santoprene                  | D0C666       | 236273  | 246947           |
|                                                               | DB5811                       | DC5811               |                             |                      | Fluoroelastomer        | PTFE                   | PTFE                        | D0C811       | 236273  | 246947           |
|                                                               | DB5888                       | DC5888               |                             |                      | Fluoroelastomer        | Fluoroelastomer        | Fluoroelastomer             | D0C888       | 236273  | 246947           |
|                                                               | DB5A11                       | DC5A11               |                             |                      | PVDF                   | PTFE                   | PTFE                        | D0CA11       | 236273  | 246947           |
|                                                               | DB5A88                       |                      |                             |                      | PVDF                   | Fluoroelastomer        | Fluoroelastomer             | D0CA88       | 236273  | 246947           |
| Corrosion Resistant Pumps with Stainless Steel Center Section |                              |                      |                             |                      |                        |                        |                             |              |         |                  |
| Polypropylene                                                 | DT2311                       | DU2311               |                             |                      | Stainless Steel        | PTFE                   | PTFE                        | D0C311       | 236273  | 246947           |
|                                                               | DT2341                       | DU2331               |                             |                      | Hardened SST           | Stainless Steel        | PTFE                        | D0C331       | 236273  | 246947           |
|                                                               | DT2377                       | DU2377               |                             |                      | Stainless Steel        | Buna                   | Buna                        | D0C377       | 236273  | 246947           |
|                                                               | DT2888                       | DU2888               |                             |                      | Fluoroelastomer        | Fluoroelastomer        | Fluoroelastomer             | D0C888       | 236273  | 246947           |
|                                                               | DT2911                       | DU2911               |                             |                      | Polypropylene          | PTFE                   | PTFE                        | D0C911       | 236273  | 246947           |
|                                                               | DT2977                       | DU2977               |                             |                      | Polypropylene          | Buna                   | Buna                        | D0C977       | 236273  | 246947           |
|                                                               | DT2988                       | DU2988               |                             |                      | Polypropylene          | Fluoroelastomer        | Fluoroelastomer             | D0C988       | 236273  | 246947           |
| PVDF                                                          | DT5311                       | DU5311               |                             |                      | Stainless Steel        | PTFE                   | PTFE                        | D0C311       | 236273  | 246947           |
|                                                               | DT5811                       | DU5811               |                             |                      | Fluoroelastomer        | PTFE                   | PTFE                        | D0C811       | 236273  | 246947           |
|                                                               | DT5888                       | DU5888               |                             |                      | Fluoroelastomer        | Fluoroelastomer        | Fluoroelastomer             | D0C888       | 236273  | 246947           |
|                                                               | DT5A11                       | DU5A11               |                             |                      | PVDF                   | PTFE                   | PTFE                        | D0CA11       | 236273  | 246947           |
|                                                               | DT5A88                       | DU5A88               |                             |                      | PVDF                   | Fluoroelastomer        | Fluoroelastomer             | D0CA88       | 236273  | 246947           |

\*Requires CycleFlo or external valve control

\*\* Air control includes air regulator and filter with gauge

## Husky 1590 Plastic Pumps



### Technical Specifications

| Husky 1590 Plastic Pumps                                        | Polypropylene                                    | PVDF                                             |
|-----------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Maximum fluid working pressure                                  | 120 psi (8.4 bar, 0.84 MPa)                      | 120 psi (8.4 bar, 0.84 MPa)                      |
| Maximum free flow delivery*                                     | 100 gpm (378.5 lpm)                              | 100 gpm (378.5 lpm)                              |
| Maximum pump speed                                              | 200 cpm                                          | 200 cpm                                          |
| Displacement per cycle**                                        | 0.5 gallon (1.96 liter)                          | 0.5 gallon (1.96 liter)                          |
| Maximum suction lift (DB2366)                                   | 20 ft (6.1 m) dry                                | 20 ft (6.1 m) dry                                |
| Maximum size pumpable solids                                    | 0.19 in (4.8 mm)                                 | 0.19 in (4.8 mm)                                 |
| Maximum operating temperature***                                | 150°F (65.5°C)                                   | 150°F (65.5°C)                                   |
| Maximum diaphragm operating temperature***                      |                                                  |                                                  |
| PTFE                                                            | 220°F (104.4°C)                                  | 220°F (104.4°C)                                  |
| Santoprene                                                      | 180°F (82.2°C)                                   | 180°F (82.2°C)                                   |
| Buna-N                                                          | 180°F (82.2°C)                                   | 180°F (82.2°C)                                   |
| TPE                                                             | 150°F (65.5°C)                                   | 150°F (65.5°C)                                   |
| Fluoroelastomer                                                 | 250°F (121.1°C)                                  | 250°F (121.1°C)                                  |
| Geolast                                                         | 150°F (65.5°C)                                   | 150°F (65.5°C)                                   |
| Typical sound level at 70 psi (4.9 bar, 0.49 MPa) air @ 125 cpm | 77 dBa                                           | 77 dBa                                           |
| Maximum air consumption                                         | 125 scfm (3.5 m3/min.)                           | 125 scfm (3.5 m3/min.)                           |
| Air pressure operating range                                    | 20 to 120 psi (1.4 to 8.4 bar, 0.14 to 0.84 MPa) | 20 to 120 psi (1.4 to 8.4 bar, 0.14 to 0.84 MPa) |
| Air inlet size                                                  | 1/2 npt(f)                                       | 1/2 npt(f)                                       |
| Fluid inlet & outlet size****                                   | 1-1/2 in (38.1 mm) ANSI-flange                   | 1-1/2 in (38.1 mm) ANSI-flange                   |
| Weight                                                          | 35 lb (16 kg)                                    | 49 lb (22 kg)                                    |
| Weight with stainless steel center section                      | 48.3 lb (21.9 kg)                                | 62.3 lb (28.2 kg)                                |
| Instruction manual                                              | 308549                                           | 308549                                           |

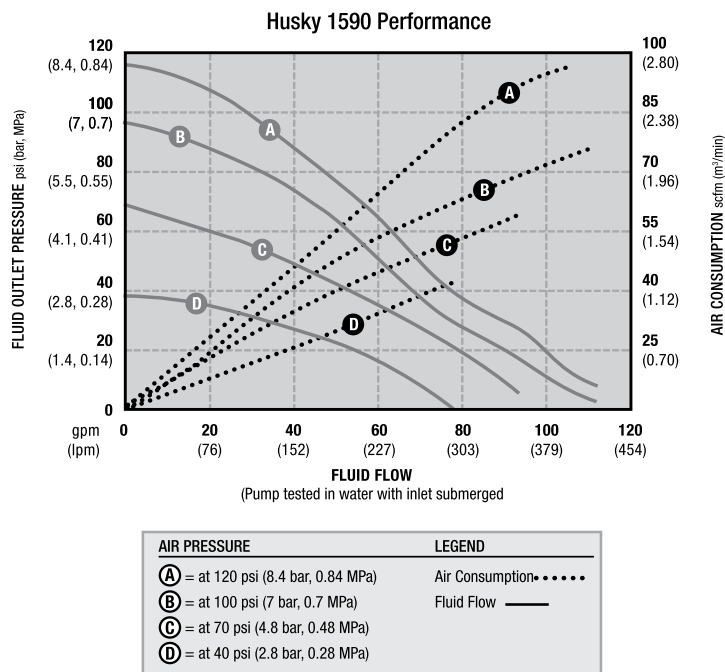
\* Flow rates are with muffler and do not vary based on diaphragm material

\*\* Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type

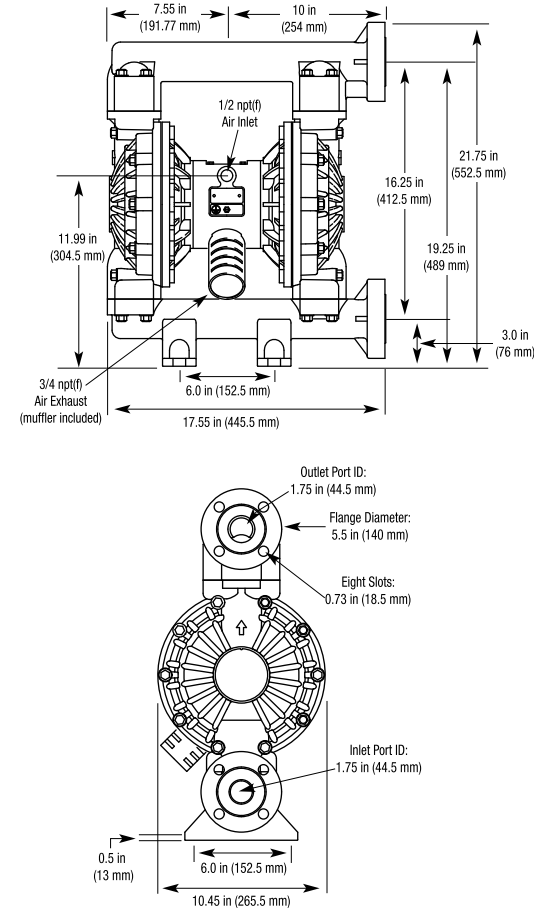
\*\*\* Actual pump performance may be affected by prolonged usage at temperature

# Husky 1590 Plastic Pumps

## Performance Charts



## Dimensions



## Typical System Drawings

### Husky 1590 Above Ground Gravity Feed

