

Husky 1050 Plastic Pumps Air-Operated Double Diaphragm



Legacy Pumps & Instruments LLC

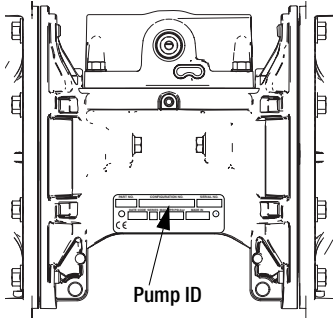
PO Box 426, Mineral Wells, TX 76068-0426

Phone 214-384-5303 or 817- 793-0485

www.legacypumpsllc.com

Husky 1050 Selector Tool

To order a Husky 1050, use the online selector tool at www.graco.com/process or contact your distributor.



NOTE: Options for seats, check balls, diaphragms, and seals vary for the 1050A, 1050C, 1050F, 1050H, 1050P, and 1050S pump models.

Example of Product Selector Tool on www.graco.com/process.

Pump Configuration Options

Pump (1 inch ports, 50 gpm)	Center Section and Air Valve Material	Air Valve/Monitoring	Fluid Covers and Manifolds
C ★ Conductive Polypropylene 1050	Conductive Polypropylene	C01A Standard	C1 Conductive polypropylene, center flange
		C01B Pulse Count ✖	C2 Conductive polypropylene, end flange
		C01C DataTrak ✖	
		C01D Remote	
P Polypropylene 1050	Polypropylene	P01A Standard	P1 Polypropylene, center flange
		P01B Pulse Count ✖	P2 Polypropylene, end flange
		P01C DataTrak ✖	
		P01D Remote	
F PVDF 1050			F1 PVDF, center flange
			F2 PVDF, end flange

★, ‡, or ✖: See ATEX Certifications below.

Check Valve Seats	Check Valve Balls	Diaphragm	Manifold O-Rings
AC Acetal	AC Acetal	BN Buna-N	— None
FK FKM Fluoroelastomer	BN Buna-N	CO Polychloroprene Overmolded	PT PTFE
PP Polypropylene	FK FKM Fluoroelastomer	FK FKM Fluoroelastomer	
PV PVDF	PT PTFE	PO PTFE/EPDM Overmolded	
SP Santoprene®	SP Santoprene	PT PTFE/EPDM Two-Piece	
SS 316 Stainless Steel	SS 316 Stainless Steel	SP Santoprene	
BN Buna-N	TP TPE	TP TPE	
AL Aluminum	GE Geolast	GE Geolast	
GE Geolast	CR Polychloroprene		
TP TPE	CW Polychloroprene w/SST Core		

ATEX Certifications

★ All Conductive Polypropylene 1050 pumps are certified:



✖ DataTrak and Pulse Count are certified:



EEx ia IIA T3
Nemko
06ATEX1124

Popular Models

Material	Part Number	Materials for Seats	Materials for Balls	Materials for Diaphragms	Air Valve Replacement Kit	Seat Kit	Ball Kit	Diaphragm Kit	Flange
	Standard Air Valve								
Polypropylene	649001	Polypropylene	Santoprene	Santoprene	24B773	24B635	24B646	24B628	Center
	649006	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B773	24B635	24B645	24B627	Center
	649034	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B773	24B635	24B645	24B627	End
Conductive Polypropylene	649218	Acetal	PTFE	PTFE/EPDM 2 Piece	24B775	24B630	24B645	24B627	End
	649211	316 SST	PTFE	PTFE/EPDM 2 Piece	24B775	24B637	24B645	24B627	End
PVDF	649392	316 SST	PTFE	PTFE/EPDM 2 Piece	24B773	24B637	24B645	24B627	End
	649398	PVDF	PTFE	PTFE/EPDM 2 Piece	24B773	24C721	24B645	24B627	End



Technical Specifications

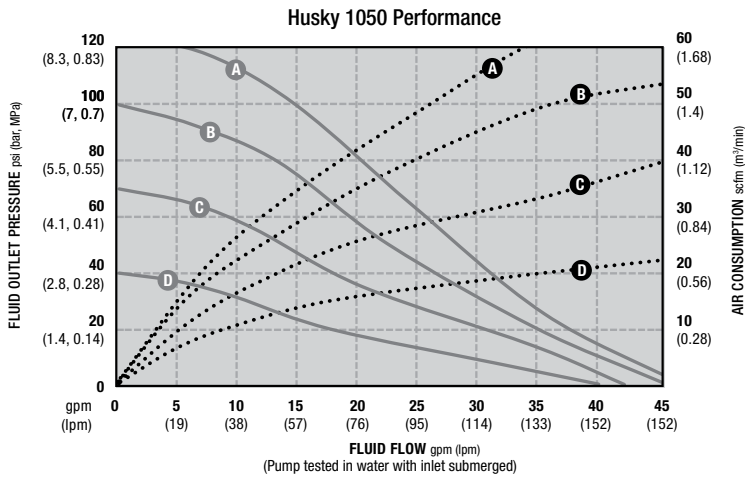
Husky 1050 Plastic Pumps	Conductive Polypropylene	Polypropylene	PVDF
Maximum fluid working pressure	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)
Maximum free flow delivery	50 gpm (189 lpm)	50 gpm (189 lpm)	50 gpm (189 lpm)
Maximum pump speed	280 cpm	280 cpm	280 cpm
Displacement per cycle	0.17 gal (0.64 liters)	0.17 gal (0.64 liters)	0.17 gal (0.64 liters)
Maximum suction lift	16 ft (4.9 m) dry, 29 ft (8.8 m) wet	16 ft (4.9 m) dry, 29 ft (8.8 m) wet	16 ft (4.9 m) dry, 29 ft (8.8 m) wet
Maximum size pumpable solids	1/8 in (3.2 mm)	1/8 in (3.2 mm)	1/8 in (3.2 mm)
Sound Power* at 70 psi (4.8 bar, 0.48 MPa) and 50 cpm at 100 psi (7.0 bar, 0.7 MPa) and full flow	78 dBa 90 dBa	78 dBa 90 dBa	78 dBa 90 dBa
Sound Pressure** at 70 psi (4.8 bar, 0.48 MPa) and 50 cpm at 100 psi (7.0 bar, 0.7 MPa) and full flow	84 dBa 96 dBa	84 dBa 96 dBa	84 dBa 96 dBa
Maximum air consumption	67 scfm	67 scfm	67 scfm
Air consumption at 70 psi (4.8 bar, 0.48 MPa), 20 gpm (76 lpm)	25 scfm	25 scfm	25 scfm
Air pressure operating range	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)
Air inlet size	1/2 npt(f)	1/2 npt(f)	1/2 npt(f)
Fluid inlet size	1 in raised face ANSI/DIN flange	1 in raised face ANSI/DIN flange	1 in raised face ANSI/DIN flange
Fluid outlet size	1 in raised face ANSI/DIN flange	1 in raised face ANSI/DIN flange	1 in raised face ANSI/DIN flange
Weight	18 lb (8.2 kg)	18 lb (8.2 kg)	26 lb (11.8 kg)
Wetted parts	polypropylene and material(s) chosen for seat, ball, and diaphragm options	polypropylene and material(s) chosen for seat, ball, and diaphragm options	PVDF and material(s) chosen for seat, ball, and diaphragm options
Non-wetted Parts Center Bolts	polypropylene stainless steel	polypropylene stainless steel	polypropylene stainless steel
Instruction manual	312877	312877	312877
Repair/parts manual	313435	313435	313435

* Sound power measured per ISO-9614-2.

** Sound pressure was tested 3.28 ft (1 m) from equipment.

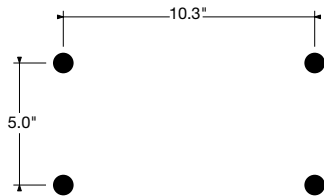
Husky 1050 Plastic Pumps

Performance Charts

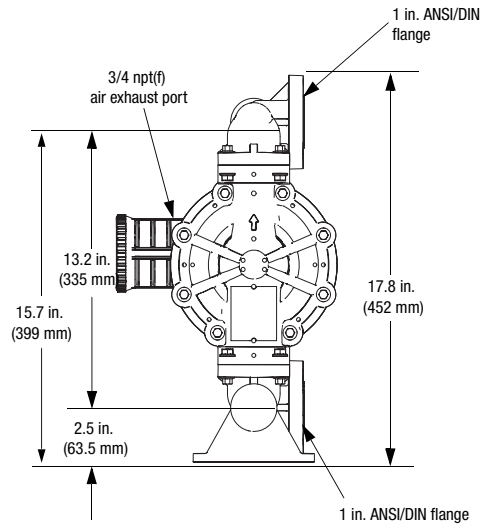
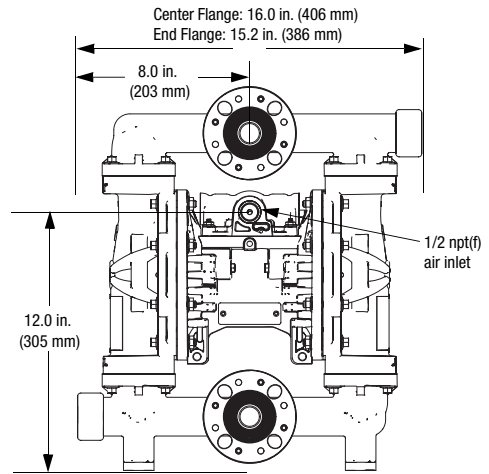


AIR PRESSURE	LEGEND
(A) = at 125 psi (8.3 bar, 0.83 MPa)	Air Consumption •••••
(B) = at 100 psi (7 bar, 0.7 MPa)	Fluid Pressure ———
(C) = at 70 psi (4.8 bar, 0.48 MPa)	
(D) = at 40 psi (2.8 bar, 0.28 MPa)	

Mounting Pattern

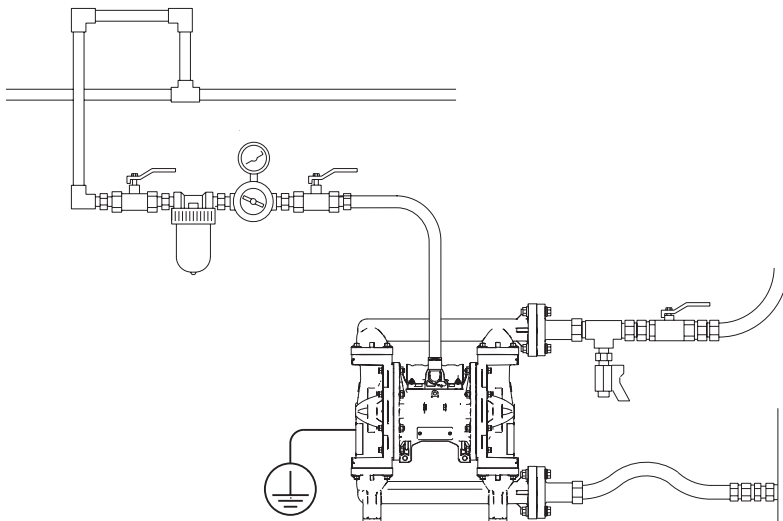


Dimensions



Typical System Drawings

Husky 1050 Floor-Mount

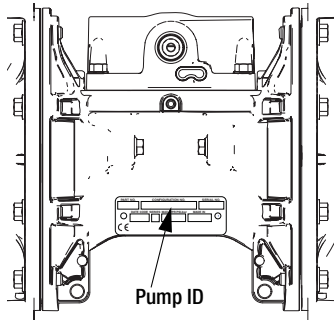


Husky 1050 Metal Pumps

Air-Operated Double Diaphragm

Husky 1050 Selector Tool

To order a Husky 1050, use the online selector tool at www.graco.com/process or contact your distributor.



NOTE: Options for seats, check balls, diaphragms, and seals vary for the 1050A, 1050C, 1050F, 1050H, 1050P, and 1050S pump models.

Husky™
Air-Operated Double Diaphragm Pumps

Certification Required: ATEX
 Pump Inlet/Outlet Size: One Inch (25mm)
 Fluid Covers and Manifolds: [A] Aluminum
 Center Section and Air Valve: [A01A] Aluminum Standard Air Valve w/Buna Seals
 Porting: [A1] Aluminum Standard Porting Inch (NPT)
 Seats: [PP] Polypropylene
 Balls: [TP] TPE
 Diaphragms: [TP] TPE
 Manifold O-Rings: [PT] PTFE Standard

Order number reverse look-up
 Enter a 6 digit Graco number, product configuration or old "D" number

Graco Part Number: 647000
 Configuration Number: 1050A-A01A1PP1PTPTPT
 Old "D" Graco Number: D73955

Replacement Kits
 248786 - KIT REPLACEMENT STAND VALVE
 248635 - KIT 1050 POLYPROPYLENE SEAT
 248642 - KIT 1050 HYTREL BALL
 248624 - KIT 1050 HYTREL DIAPHRAGM

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Example of Product Selector Tool on www.graco.com/process.

Pump Configuration Options

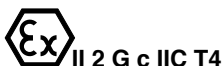
Pump (1 inch ports, 50 gpm)	Center Section and Air Valve Material	Air Valve/Monitoring	Fluid Covers and Manifolds
A ★ Aluminum 1050	Aluminum	A01 Standard	A1 Aluminum, standard ports, inch A2 Aluminum, standard ports, metric S1 Stainless steel, standard ports, inch S2 Stainless steel, standard ports, metric H1 Hastelloy, standard ports, inch H2 Hastelloy, standard ports, metric
		A01B Pulse Count ✖	
		A01C DataTrak ✖	
		A01D Remote	
S ‡ Stainless Steel 1050	Conductive Polypropylene	C01A Standard	
	Polypropylene	P01A Standard	
P01B Pulse Count ✖			
P01C DataTrak ✖			
P01D Remote			
H Hastelloy 1050			

★, ‡, or ✖: See ATEX Certifications below.

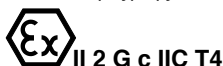
Check Valve Seats		Check Valve Balls		Diaphragm		Manifold O-Rings	
AC	Acetal	AC	Acetal	BN	Buna-N	—	None
AL	Aluminum	BN	Buna-N	CO	Polychloroprene Overmolded	PT	PTFE
BN	Buna-N	CR	Polychloroprene Standard	FK	FKM Fluoroelastomer		
FK	FKM Fluoroelastomer	CW	Polychloroprene Weighted	GE	Geolast		
GE	Geolast®	FK	FKM Fluoroelastomer	PO	PTFE/EPDM Overmolded		
PP	Polypropylene	GE	Geolast	PT	PTFE/EPDM Two-Piece		
SP	Santoprene®	PT	PTFE	SP	Santoprene		
SS	316 Stainless Steel	SP	Santoprene	TP	TPE		
TP	TPE	SS	316 Stainless Steel				
		TP	TPE				

ATEX Certifications

★ All Aluminum 1050 pumps are certified:



‡ Stainless Steel pumps with aluminum or conductive polypropylene centers are certified:



✖ DataTrak and Pulse Count are certified:



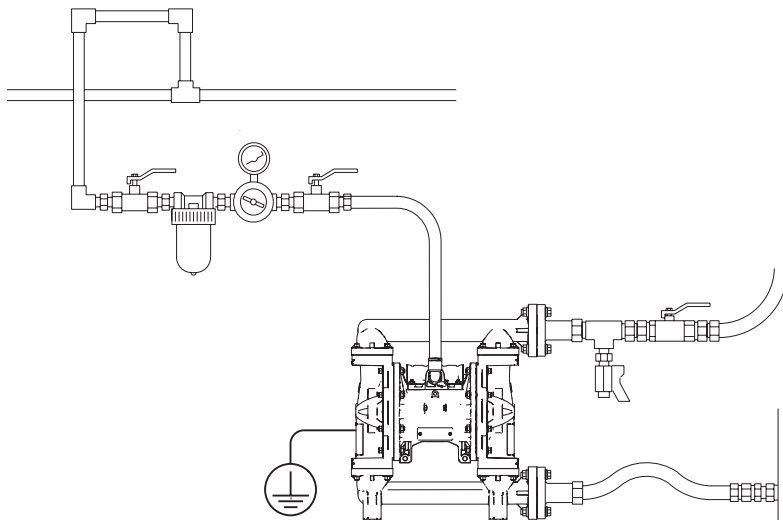
Husky 1050 Metal Pumps

Popular Models

Material	Part Number		Materials for Seats	Materials for Balls	Materials for Diaphragms	Air Valve Replacement Kit	Seat Kit	Ball Kit	Diaphragm Kit
	Standard Air Valve	Remote Air Valve							
Aluminum	647666	647502	Thermoplastic Polyester Elastomer	Acetal	Thermoplastic Polyester Elastomer	24B766	24B634	24B639	24B624
	647016 (UL Certified)		Thermoplastic Polyester Elastomer	Acetal	Thermoplastic Polyester Elastomer	24B766	24B634	24B639	24B624
	647075	647561	Acetal	PTFE	PTFE/EPDM 2 Piece	24B766	24B630	24B645	24B627
	647040	647526	Geolast	Geolast	Geolast	24B766	24B633	24B641	24B623
	647035	647521	Santoprene	Santoprene	Santoprene	24B766	24B636	24B646	24B628
	647028	647514	316 SST	PTFE	PTFE/EPDM 2 Piece	24B766	24B637	24B645	24B627
	647004	647490	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B766	24B635	24B645	24B627
	647018	647504	316 SST	316 SST	PTFE/EPDM 2 Piece	24B766	24B637	24B647	24B627
Stainless Steel	651009	651125	316 SST	PTFE	PTFE/EPDM 2 Piece	24B766	24B637	24B645	24B627
Hastelloy	651440		FKM	PTFE	PTFE/EPDM 2 Piece	24B773	24B638	24B645	24B627

Typical System Drawings

Husky 1050 Floor-Mount



Husky 1050 Metal Pumps

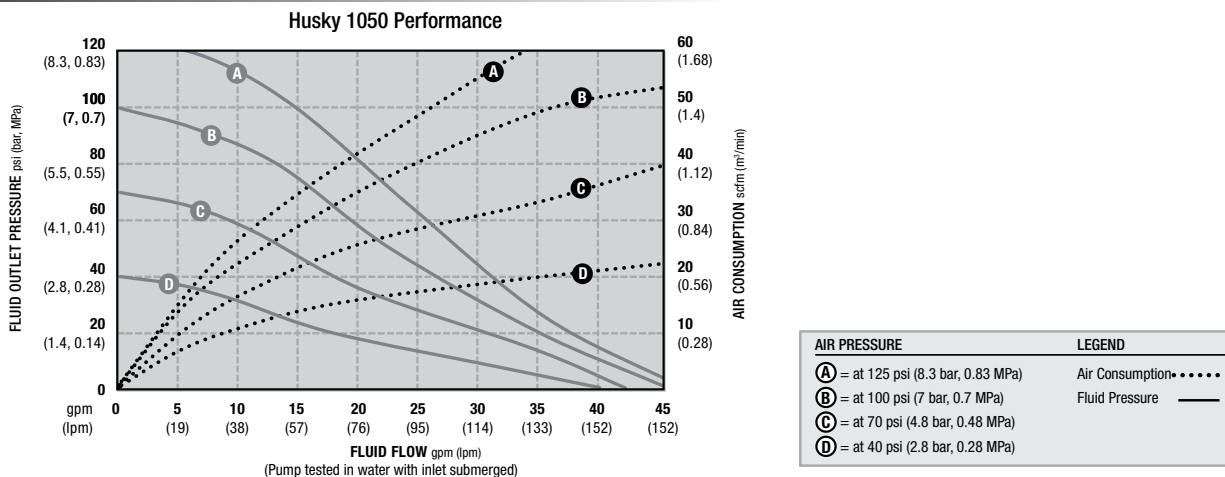


Technical Specifications

Husky 1050 Metal Pumps	Aluminum	Stainless Steel	Hastelloy
Maximum fluid working pressure	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)
Maximum free flow delivery	50 gpm (189 lpm)	50 gpm (189 lpm)	50 gpm (189 lpm)
Maximum pump speed	280 cpm	280 cpm	280 cpm
Displacement per cycle	0.17 gal (0.64 liters)	0.17 gal (0.64 liters)	0.17 gal (0.64 liters)
Maximum suction lift	16 ft (4.9 m) dry, 29 ft (8.8 m) wet	16 ft (4.9 m) dry, 29 ft (8.8 m) wet	16 ft (4.9 m) dry, 29 ft (8.8 m) wet
Maximum size pumpable solids	1/8 in (3.2 mm)	1/8 in (3.2 mm)	1/8 in (3.2 mm)
Sound Power* at 70 psi (4.8 bar, 0.48 MPa) and 50 cpm at 100 psi (7.0 bar, 0.7 MPa) and full flow	78 dBa 90 dBa	78 dBa 90 dBa	78 dBa 90 dBa
Sound Pressure** at 70 psi (4.8 bar, 0.48 MPa) and 50 cpm at 100 psi (7.0 bar, 0.7 MPa) and full flow	84 dBa 96 dBa	84 dBa 96 dBa	84 dBa 96 dBa
Maximum air consumption	67 scfm	67 scfm	67 scfm
Air consumption at 70 psi (4.8 bar, 0.48 MPa), 20 gpm (76 lpm)	25 scfm	25 scfm	25 scfm
Air pressure operating range	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)	20-125 psi (1.4-8.6 bar, 0.14-0.86 MPa)
Air inlet size	1/2 npt(f)	1/2 npt(f)	1/2 npt(f)
Fluid inlet size	1 in npt(f) or 1 in bspt	1 in npt(f) or 1 in bspt	1 in npt(f) or 1 in bspt
Fluid outlet size	1 in npt(f) or 1 in bspt	1 in npt(f) or 1 in bspt	1 in npt(f) or 1 in bspt
Weight	23 lb (10.5 kg)	with conductive polypropylene center 36.3 lb (16.5 kg) with polypropylene center 37.3 lb (16.9 kg) with aluminum center 41.4 lb (18.8 kg)	41 lb (18.6 kg)
Wetted parts	aluminum and material(s) chosen for seat, ball, and diaphragm options	stainless steel and material(s) chosen for seat, ball, and diaphragm options	hastelloy, stainless steel and material(s) chosen for seat, ball, and diaphragm options
Non-wetted Parts Center Bolts	aluminum coated carbon steel	polypropylene stainless steel	aluminum stainless steel
Instruction manual	312877	312877	312877
Repair/parts manual	313435	313435	313435

* Sound power measured per ISO-9614-2. ** Sound pressure was tested 3.28 ft (1 m) from equipment.

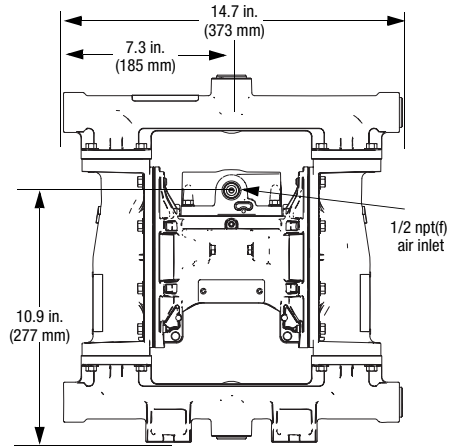
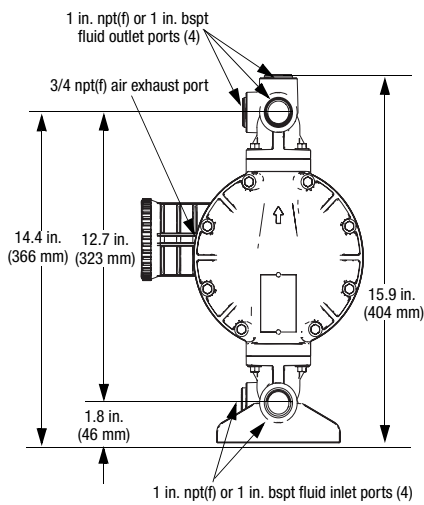
Performance Charts



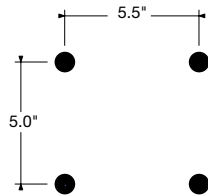
Husky 1050 Metal Pumps

Dimensions

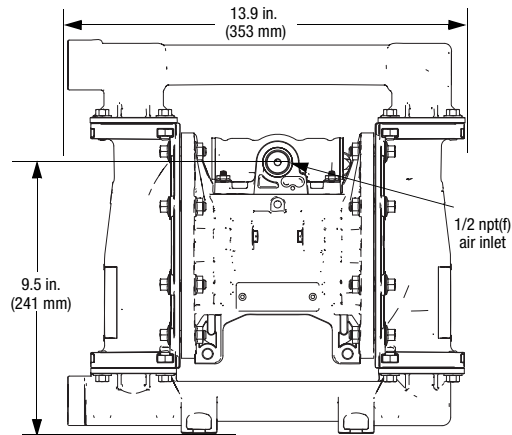
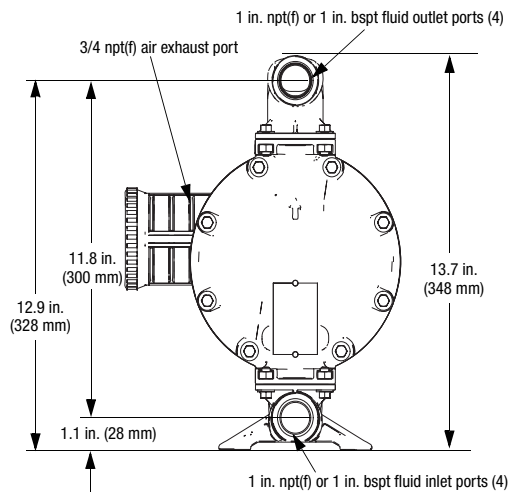
Aluminum



Mounting Pattern



Stainless Steel and Hastelloy



Mounting Pattern

