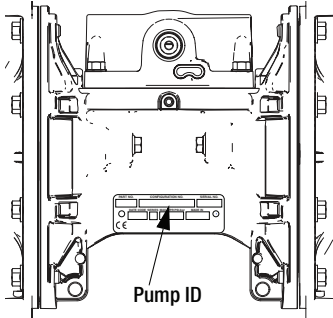


Husky 1050 Plastic Pumps Air-Operated Double Diaphragm

Husky 1050 Selector Tool

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



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



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

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	24B768	24B635	24B646	24B628	Center
	649006	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B768	24B635	24B645	24B627	Center
	649034	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B768	24B635	24B645	24B627	End
Conductive Polypropylene	649218	Acetal	PTFE	PTFE/EPDM 2 Piece	24B768	24B630	24B645	24B627	End
	649211	316 SST	PTFE	PTFE/EPDM 2 Piece	24B768	24B637	24B645	24B627	End
PVDF	649392	316 SST	PTFE	PTFE/EPDM 2 Piece	24B768	24B637	24B645	24B627	End
	649398	PVDF	PTFE	PTFE/EPDM 2 Piece	24B768	24C721	24B645	24B627	End



Technical Specifications

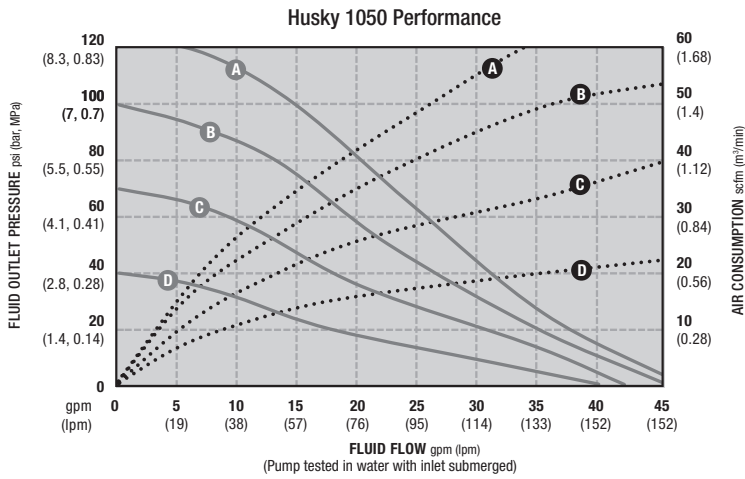
Husky 1050 Plastic Pumps	Conductive Polypropylene	Polypropylene	PVDF
Maximum fluid working pressure	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)	125 psi (8.6 bar, 0.86 MPa)
Maximum free flow delivery	50 gpm (189 lpm)	50 gpm (189 lpm)	50 gpm (189 lpm)
Maximum pump speed	280 cpm	280 cpm	280 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.

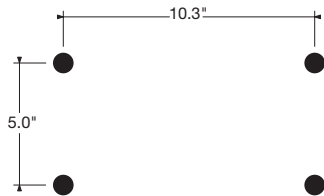
Husky 1050 Plastic Pumps

Performance Charts

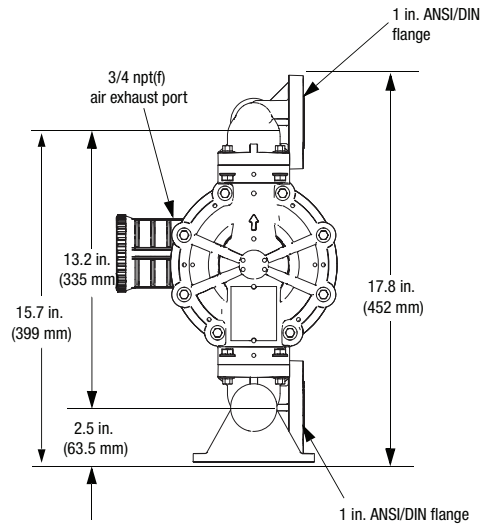
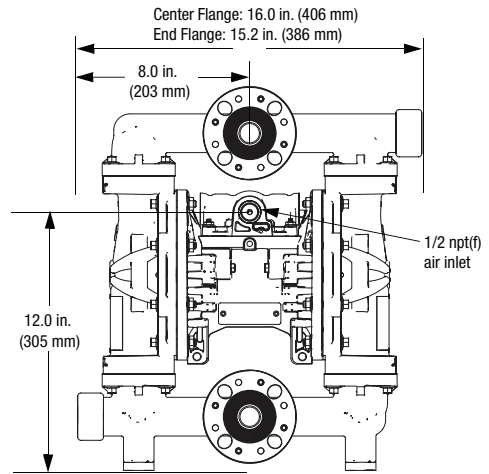


AIR PRESSURE	LEGEND
(A) = at 125 psi (8.3 bar, 0.83 MPa)	Air Consumption •••••
(B) = at 100 psi (7 bar, 0.7 MPa)	Fluid Pressure ———
(C) = at 70 psi (4.8 bar, 0.48 MPa)	
(D) = at 40 psi (2.8 bar, 0.28 MPa)	

Mounting Pattern

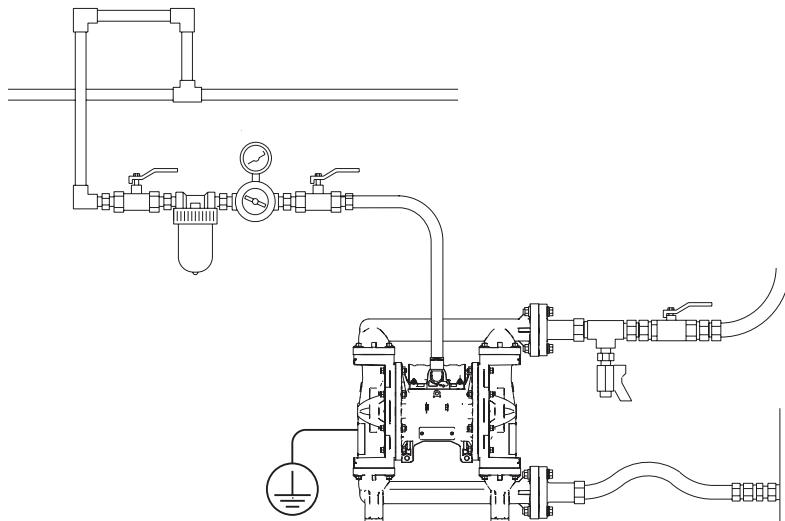


Dimensions



Typical System Drawings

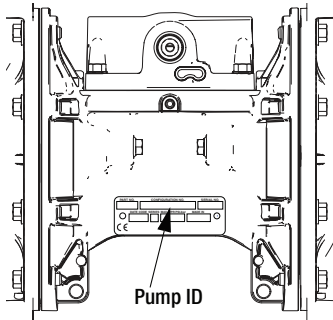
Husky 1050 Floor-Mount



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/pumpselectors or contact your distributor.



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



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

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, NPT
		A01B Pulse Count ✖	A2 Aluminum, standard ports, BSPT
		A01C DataTrak ✖	S1 Stainless steel, standard ports, NPT
		A01D Remote	S2 Stainless steel, standard ports, BSPT
		A01E Standard	H1 Hastelloy, standard ports, NPT
		AC1A Natural Gas	H2 Hastelloy, standard ports, BSPT
S ‡ Stainless Steel 1050	Conductive Polypropylene	C01A Standard	
		C01B Pulse Count ✖	
		C01C DataTrak ✖	
		C01D Remote	
H Hastelloy 1050	Polypropylene	P01A Standard	
		P01B Pulse Count ✖	
		P01C DataTrak ✖	
		P01D Remote	

★, ‡, 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				
PV	PVDF	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:



EEx ia IIA T3
Nemko
06ATEX1124



CONFORMS TO
CSA/AM ANSI STD LC 6
CERTIFIED TO
CSA STD T.I.L. NO. R-14
GRACO INC.
P.O. Box 1441 Mpls, MN
55440 U.S.A.

Husky 1050 Metal Pumps

Popular Models

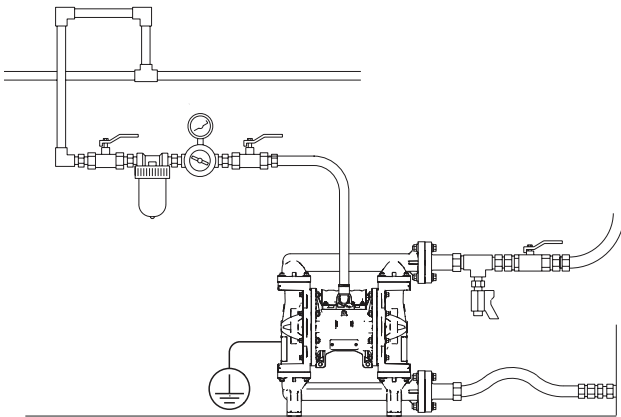
Material	Part Number		Outlet Orientation	Porting	Materials for Seats	Materials for Balls	Materials for Diaphragms	Air Valve Replacement Kit	Seat Kit	Ball Kit	Diaphragm Kit
	Standard Air Valve	Remote Air Valve									
Aluminum	647666	647502	Multi Port	NPT	Thermoplastic Polyester Elastomer	Acetal	Thermoplastic Polyester Elastomer	24B766	24B634	24B639	24B624
	647075	647561	Multi Port	NPT	Acetal	PTFE	PTFE/EPDM 2 Piece	24B766	24B630	24B645	24B627
	647040	647526	Multi Port	NPT	Geolast	Geolast	Geolast	24B766	24B633	24B641	24B623
	647035	647521	Multi Port	NPT	Santoprene	Santoprene	Santoprene	24B766	24B636	24B646	24B628
	647028	647514	Multi Port	NPT	316 SST	PTFE	PTFE/EPDM 2 Piece	24B766	24B637	24B645	24B627
	647004	647490	Multi Port	NPT	Polypropylene	PTFE	PTFE/EPDM 2 Piece	24B766	24B635	24B645	24B627
	647018	647504	Multi Port	NPT	316 SST	316 SST	PTFE/EPDM 2 Piece	24B766	24B637	24B647	24B627
	647043*		Multi Port	NPT	Buna-N	Buna-N	Buna-N	25C296	24B638	34B648	24B629
	647124*		Multi Port	BSPT	Buna-N	Buna-N	Buna-N	25C296	24B638	24B648	24B629
	647047*		Multi Port	NPT	FKM	FKM	FKM	25C296	24B630	24B640	24B622
647128*		Multi Port	BSPT	FKM	FKM	FKM	25C296	24B632	24B640	24B622	
Stainless Steel	651009	651125	Multi Port	NPT	316 SST	PTFE	PTFE/EPDM 2 Piece	24B766	24B637	24B645	24B627
Stainless Steel Flange Models	651506**		Center/Horizontal	Flange	316 SST	PTFE	PTFE	27B768	24B637	24B647	24B627
	651531**		Center/Vertical	Flange	316 SST	PTFE	PTFE	24B768	24B637	24B647	24B627
	651508**		Center/Horizontal	Flange	316 SST	Santoprene	PTFE	24B768	24B637	24B647	24B628
	651533**		Center/Vertical	Flange	316	Santoprene	PTFE	24B768	24B637	24B647	24B628
Hastelloy	651440		End	NPT	FKM	PTFE	PTFE/EPDM 2 Piece	24B768	24B638	24B645	24B627

*Aluminum body with Natural Gas operation capabilities.

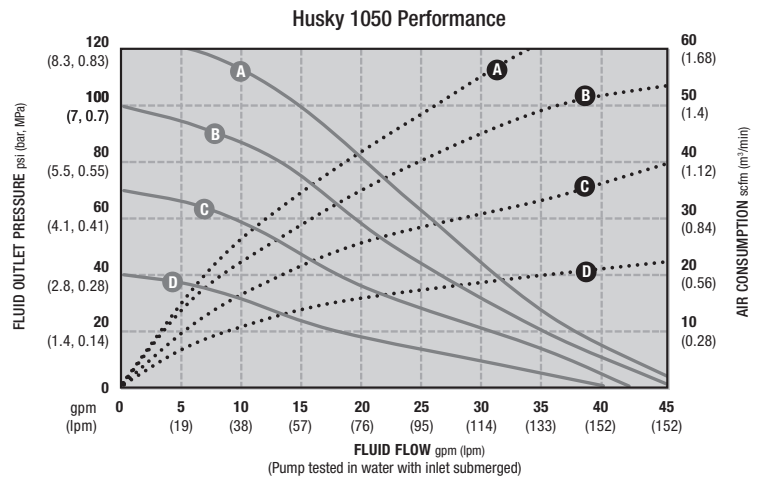
**All stainless steel flange models have a fixed center inlet.

Typical System Drawings

Husky 1050 Floor-Mount



Performance Charts



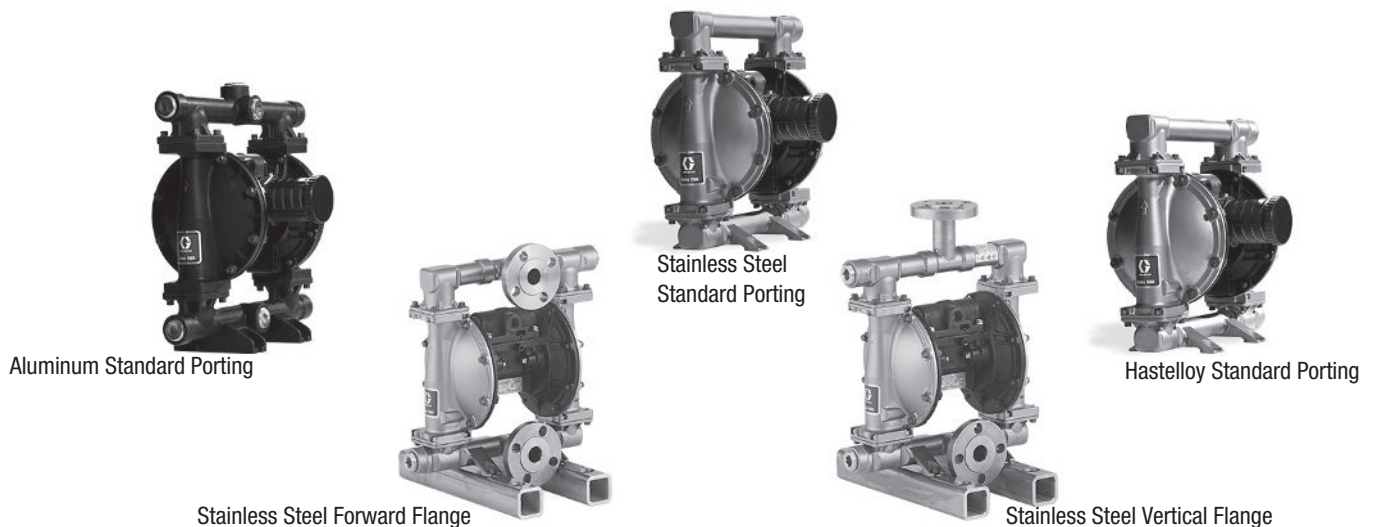
AIR PRESSURE	LEGEND
Ⓐ = at 125 psi (8.3 bar, 0.83 MPa)	Air Consumption.....
Ⓑ = at 100 psi (7 bar, 0.7 MPa)	Fluid Pressure ———
Ⓒ = at 70 psi (4.8 bar, 0.48 MPa)	
Ⓓ = at 40 psi (2.8 bar, 0.28 MPa)	

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)
Natural gas operated pump models	120 psi (8.3 bar, 0.83 MPa)			
Maximum free flow delivery	50 gpm (189 lpm)	50 gpm (189 lpm)		50 gpm (189 lpm)
Natural gas operated pump models	49 gpm (185 lpm)	n/a		n/a
Maximum pump speed	280 cpm	280 cpm		280 cpm
Natural gas operated pump models	275 cpm	n/a		n/a
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
Maximum gas consumption	67 scfm	n/a		n/a
Air consumption at 70 psi (4.8 bar, 0.48 MPa), 20 gpm (76 lpm)	25 scfm	25 scfm		25 scfm
Natural gas consumption at 70 psi (4.8 bar, 0.48 MPa), 20 gpm (76 lpm)	25 scfm	n/a		n/a
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)
Gas pressure operating range	20-120 psi (1.4-8.3 bar, 0.14-0.83 MPa)	n/a		n/a
Air inlet size	1/2 npt(f)	1/2 npt(f)		1/2 npt(f)
Gas inlet size	1/2 npt(f)	n/a		n/a
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 with polypropylene center with aluminum center	36.3 lb (16.5 kg) 37.3 lb (16.9 kg) 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	polypropylene stainless steel
Instruction manual	312877	312877		312877
Natural gas instruction manual	313598	n/a		n/a
Repair/parts manual	313435	313435		313435
Natural gas repair/parts manual	313435	n/a		n/a

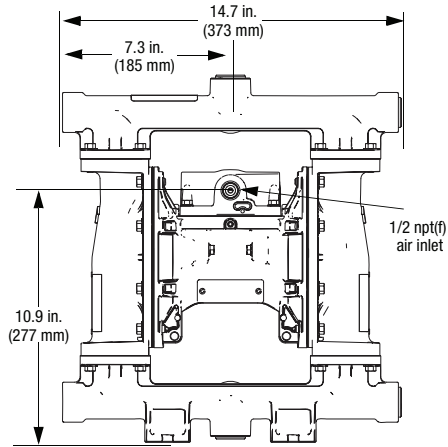
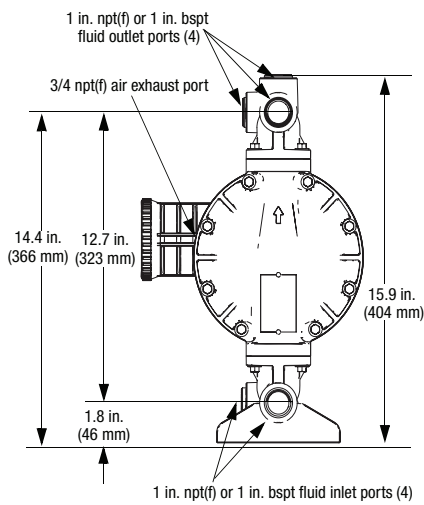
* Sound power measured per ISO-9614-2. ** Sound pressure was tested 3.28 ft (1 m) from equipment.



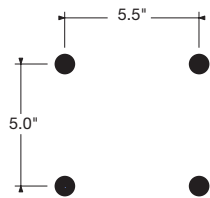
Husky 1050 Metal Pumps

Dimensions

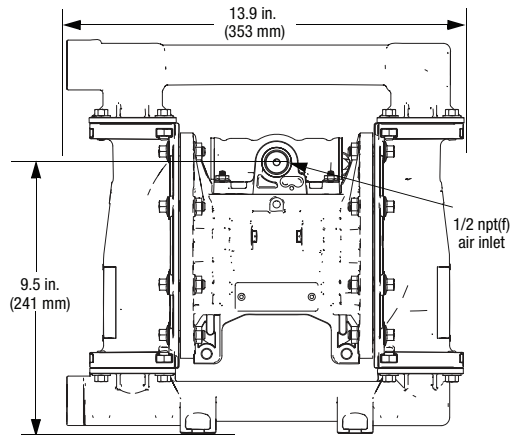
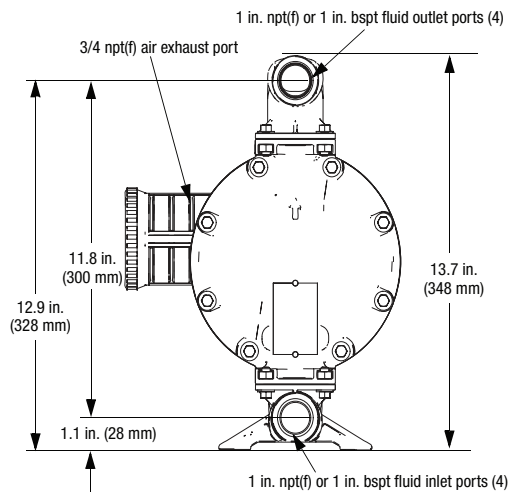
Aluminum



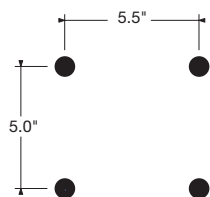
Mounting Pattern



Stainless Steel and Hastelloy



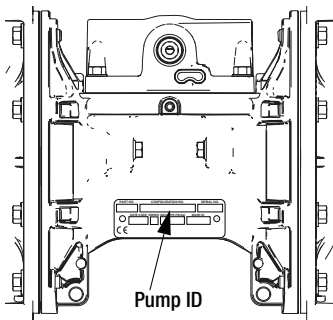
Mounting Pattern



Husky 1050HP Metal Pumps High Pressure Air-Operated Diaphragm

Husky 1050HP Selector Tool

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



NOTE: Options for seats, check balls, diaphragms, and seals vary for pump models.



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

Pump Configuration Options

Pump	Center Section and Air Valve Material		Air Valve	Manifolds	
1050HP Aluminum	Aluminum	A01A	Standard	A1 A2 S1 S2	Aluminum, Standard Ports, NPT Aluminum, Standard Ports, BSPT Stainless Steel, Standard Ports, NPT Stainless Steel, Standard Ports, BSPT

Check Valve Seats		Check Valve Balls		Diaphragm Material		Manifold O-Rings	
SS	316 Stainless Steel	CW	Santoprene	BN	Santoprene	PT	PTFE
SP	Santoprene	GE	Geolast	CO	Polychloroprene Overmolded		
GE	Geolast	SP	Santoprene	PT	PTFE/Santoprene Two-Piece		
		SS	316 Stainless Steel	SP	Santoprene		

Husky 1050HP Metal Pumps

Popular Models

Part No.	Seat	Ball	Fluid Diaphragm	Center Diaphragm	Fluid Covers	Fluid Manifold	Porting
24W756	Stainless Steel	Santoprene	Santoprene	Santoprene	Stainless Steel	Aluminum	NPT
24W757	Stainless Steel	Santoprene	Santoprene	Santoprene	Stainless Steel	Aluminum	BSPT
24W758	Stainless Steel	Santoprene	Santoprene	Santoprene	Stainless Steel	Stainless Steel	NPT
24W759	Stainless Steel	Santoprene	Santoprene	Santoprene	Stainless Steel	Stainless Steel	BSPT
24W762	Santoprene	Santoprene	Santoprene	Santoprene	Stainless Steel	Aluminum	NPT
24W763	Santoprene	Santoprene	Santoprene	Santoprene	Stainless Steel	Aluminum	BSPT
24W764	Geolast	Geolast	Buna-N	Santoprene	Stainless Steel	Aluminum	NPT
24W765	Geolast	Geolast	Buna-N	Santoprene	Stainless Steel	Aluminum	BSPT
24W766	Stainless Steel	Weighted Neoprene	Buna-N	Santoprene	Stainless Steel	Aluminum	NPT
24W767	Stainless Steel	Weighted Neoprene	Buna-N	Santoprene	Stainless Steel	Aluminum	BSPT
24W768	Stainless Steel	Weighted Neoprene	Neoprene Overmold	Santoprene	Stainless Steel	Aluminum	NPT
24W769	Stainless Steel	Weighted Neoprene	Neoprene Overmold	Santoprene	Stainless Steel	Aluminum	BSPT
24X388	Stainless Steel	Stainless Steel	2-piece PTFE/Santoprene	Santoprene	Stainless Steel	Stainless Steel	NPT
24X389	Stainless Steel	Stainless Steel	2-piece PTFE/Santoprene	Santoprene	Stainless Steel	Stainless Steel	BSPT



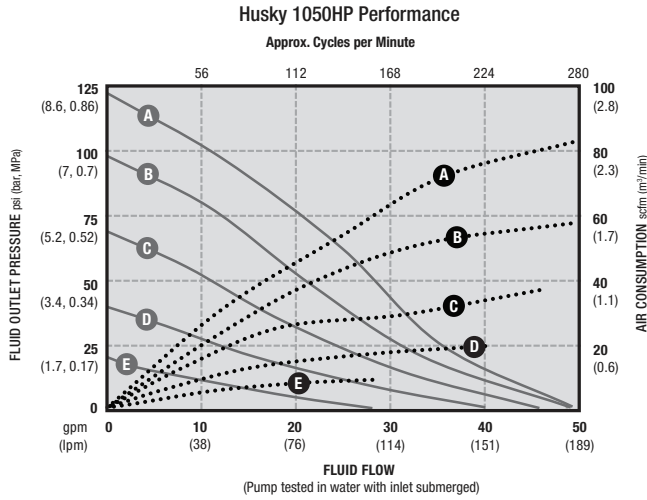
Technical Specifications

Maximum fluid working pressure	250 psi (14 bar, 1.4 MPa)
Air pressure operating range	20-125 psi (1.4-6.9 bar, 0.14-0.69 MPa)
Fluid displacement per cycle	
Low Pressure Setting	0.17 gal (0.64 l)
High Pressure Setting	0.20 gal (0.76 l)
Air consumption at 70 psi (4.8 bar), 20 gpm (76 lpm)	
Low Pressure Setting	.26 scfm (0.7 m3/min)
High Pressure Setting	51 scfm (1.4 m3/min)
Maximum values with water as media under submerged inlet conditions at ambient temperature:	
Maximum air consumption	
Low Pressure Setting	.59 scfm (1.7 m3/min)
High Pressure Setting	.95 scfm (2.7 m3/min)
Maximum free-flow delivery	
Low Pressure Setting	50 gpm (189 lpm)
High Pressure Setting	46 gpm (174 lpm)
Maximum pump speed	
Low Pressure Setting	280 cpm
High Pressure Setting	225 cpm
Maximum suction lift*	
Dry	.16 ft (4.9 m)
Wet	.29 ft (8.8 m)
Maximum size pumpable solids	1/8 in (3.2 mm)
Recommended cycle rate for continuous use	.93-140 cpm (in Low or High setting)
Air inlet size	3/4 npt(f)
Fluid inlet size	1 in npt(f) or bspt
Fluid outlet size	1 in npt(f) or bspt
Weight	
Aluminum manifolds	.48 lb (21.8 kg)
SST manifolds	.60 lb (27.2 kg)
Wetted parts	aluminum or stainless steel plus the material(s) chosen for seat, ball, and diaphragm options
Non-wetted external parts	aluminum, coated carbon steel, sst

*Varies based on ball/seat selection and wear, operating speed, material properties, and other variables

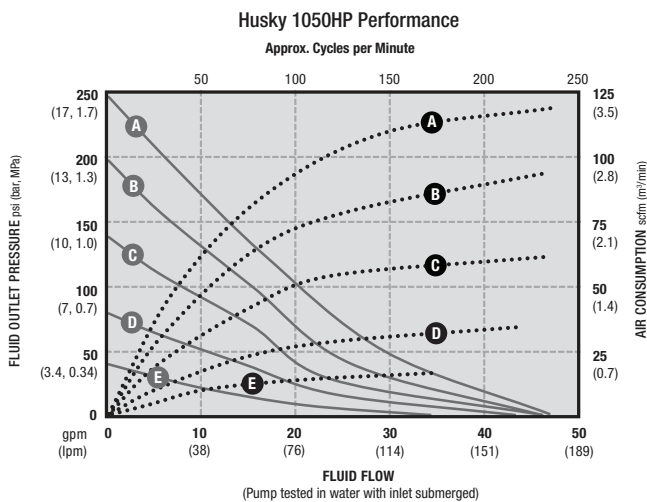
Performance Charts

Low Pressure Setting



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)	

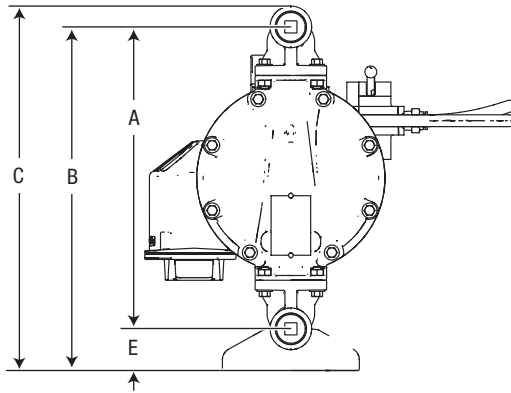
High Pressure Setting



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)	

Husky 1050HP Metal Pumps

Dimensions



Key	Aluminum	SST
A	12.7 in (323 mm)	11.8 in (300 mm)
B	14.4 in (366 mm)	12.9 in (328 mm)
C	15.3 in (389 mm)	13.7 in (348 mm)
D	10.9 in (277 mm)	9.5 in (241 mm)
E	1.8 in (46 mm)	1.1 in (28 mm)
F	10.8 in (274 mm)	10.7 in (272 mm)
G	21.5 in (546 mm)	20.6 in (523 mm)

All dimensions are approximate

