کالا صنعتی

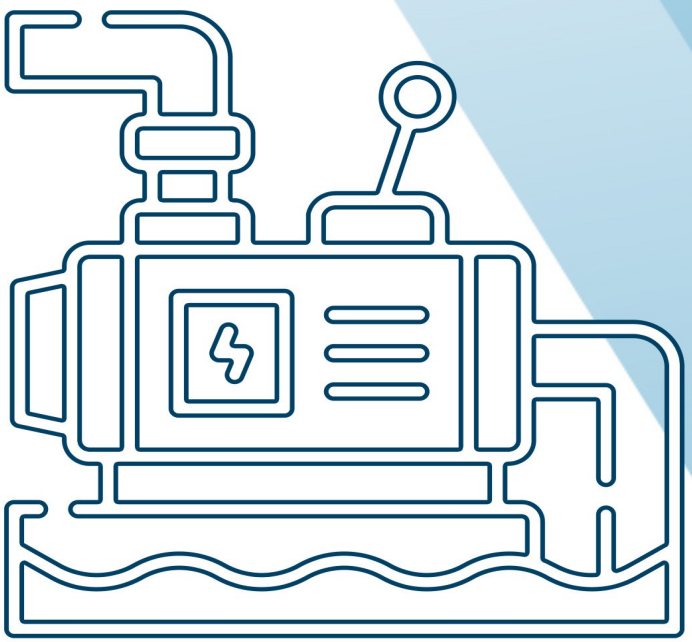
پمپ هاسکی گراکو

GRACO 3275

kalasanati.com

@kalasanati.ir

+982188544230



Catalog 2021

PUMP

GRACO

Pump

Husky 3275 Aluminum Pumps

Air-Operated Double-Diaphragm

Features

- 3 in (76.2 mm) ANSI center-porting that is internally threaded 3 npt or bspt
- Bolted leak-free, flanged connections — no clamp bands used
- Patented, high-reliability closed center air valve is externally serviceable
- Large flow paths for high viscosities
- Easy air valve maintenance
- Heavy-duty construction
- Fluid flow up to 275 gpm (1040 lpm)

Husky 3275 Aluminum DK3XXX

Typical Applications

- Chemical transfers
- Filter press-feed
- Dewatering

Typical Fluids Handled

- Chemicals
- Bulk paint resins
- Ceramic slip

Husky 3275

Aluminum Pumps

Technical Specifications

Maximum fluid working pressure	120 psi (8.4 bar, 0.84 MPa)
Maximum free flow delivery*	275 gpm (1,041 lpm)
Maximum pump speed	135 cpm
Displacement per cycle**	2.0 gallon (7.6 liter)
Maximum suction lift (DK3666)	8 ft (2.4 m) dry
Maximum size pumpable solids	0.38 in (9.4 mm)
Maximum diaphragm operating temperature***	
PTFE	220°F (104.4°C)
Santoprene	180°F (82.2°C)
TPE	150°F (65.5°C)
Geolast	150°F (65.5°C)
Typical sound level at 70 psi air (4.9 bar, 0.49 MPa) air @ 105 cpm	79 dBa
Maximum air consumption	325 scfm (9.1 m3/min)
Air consumption at 70 psi (4.7 bar, 0.47 MPa)/100 gpm (379 lpm)	120 scfm (1.26 m3/min)
Air pressure operating range	20 to 120 psi (1.4 to 8.4 bar, 0.14 to 0.84 MPa)
Air inlet size	3/4 npt(f)
Fluid inlet & outlet size	3 in (76.2 mm) ANSI 4 bolt flange/DIN 8-bolt flange internal thread is 3 npt or bspt
Wetted parts	varies by model, see instruction manual
Weight	150 lb (68 kg)
Instruction manual	308639

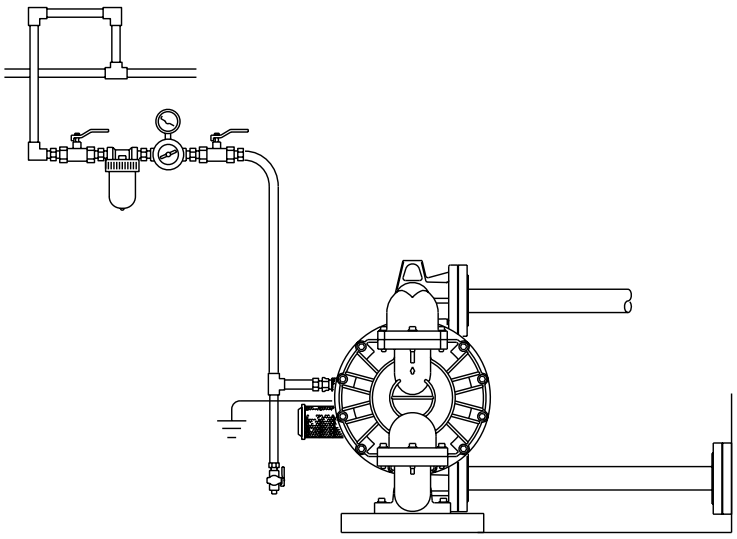
** Flow rates are with muffler and do not vary based on diaphragm material*

*** 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*

Typical System Drawing

Husky 3275 Above Ground Gravity Feed



Husky 3275

Aluminum Pumps

Ordering Information

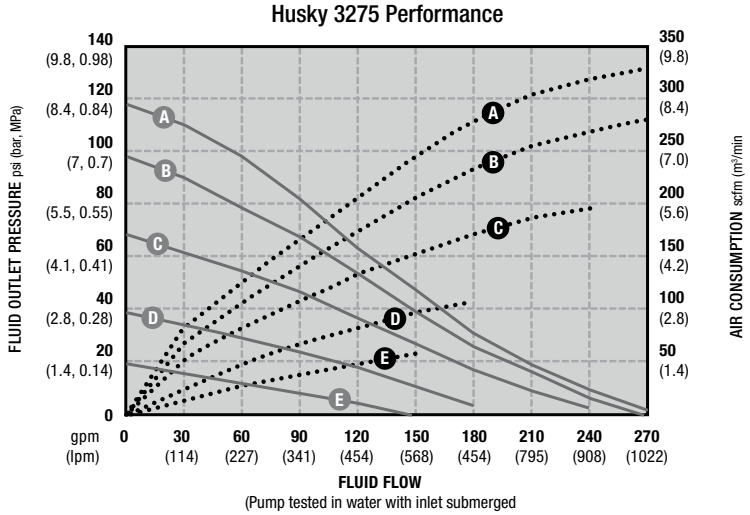
D	X	X	X	X	X
Diaphragm Pump	Pump Size	Wetted Parts	Seats	Balls/ Checks	Diaphragms

PUMP SIZE (AIR MOTOR TYPE AND MATERIAL)	WETTED PARTS	SEATS	BALLS	DIAPHRAGM
K = 3" (76.2 mm) Standard: aluminum center section	3 = Aluminum (npt)	3 = Stainless Steel	1 = PTFE	1 = PTFE
	C = Aluminum (bsp)	5 = TPE	2 = Acetal	5 = TPE
		6 = Santoprene	G = Geolast	6 = Santoprene
		G = Geolast		G = Geolast

Accessories

See page 76 for additional accessories.

Performance Chart



(Pump tested in water with inlet submerged

AIR PRESSURE	LEGEND
(A) = at 120 psi (8.4 bar, 0.84 MPa)	Air Consumption
(B) = at 100 psi (7 bar, 0.7 MPa)	Fluid Flow
(C) = at 70 psi (4.8 bar, 0.48 MPa)	
(D) = at 40 psi (2.8 bar, 0.28 MPa)	
(E) = at 20 psi (1.4 bar, 0.14 MPa)	

Husky 3275

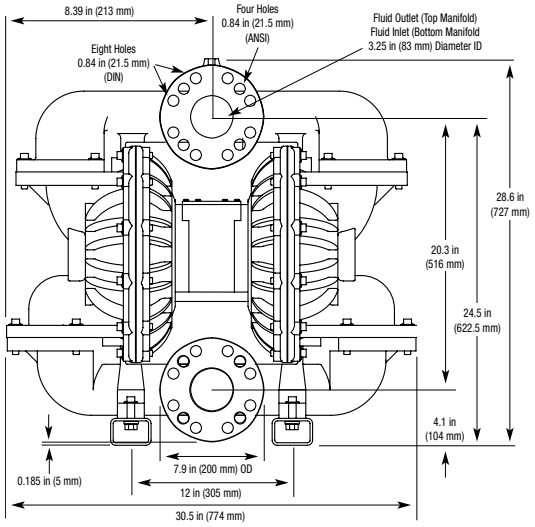
Aluminum Pumps

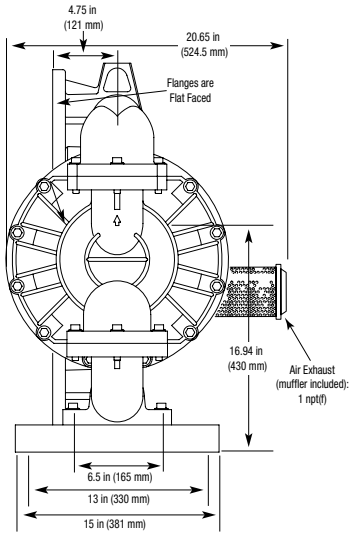
Popular Models

Material	Part Number (NPT Ported)		Part Number (BSP Ported)		Materials for Seats	Materials for Balls	Materials for Diaphragms	Fluid Kit	Air Kit	Air Control*
	Standard Air Valve	Remote Air Valve	Standard Air Valve	Remote Air Valve						
Aluminum	DK3311	NA	DKC311	NA	Stainless Steel	PTFE	PTFE	D0K311	238765	246948
	DK3316	NA	DKC316	NA	Stainless Steel	PTFE	Santoprene	D0K316	238765	246948
	DK3366	NA	DKC366	NA	Stainless Steel	Santoprene	Santoprene	D0K366	238765	246948
	DK3515	NA	DKC515	NA	TPE	PTFE	TPE	D0K515	238765	246948
	DK3525	NA	DKC525	NA	TPE	Acetal	TPE	D0K525	238765	246948
	DK3565	NA	DKC565	NA	TPE	Santoprene	TPE	D0K565	238765	246948
	DK3611	NA	DKC611	NA	Santoprene	PTFE	PTFE	D0K611	238765	246948
	DK3616	NA	DKC616	NA	Santoprene	PTFE	Santoprene	D0K616	238765	246948
	DK3666	NA	DKC666	NA	Santoprene	Santoprene	Santoprene	D0K666	238765	246948
	DK3GG6	NA	DKCGG6	NA	Geolast	Geolast	Santoprene	D0KGG6	238765	246948
	DK3GGG	NA	DKCGGG	NA	Geolast	Geolast	Geolast	D0KGGG	238765	246948

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

Dimensions





Pump Selection Key

Wetted Parts Material Options

Acetal *Material used for seats, balls & wetted body parts*

- Wide range of solvent resistance
- Withstands extreme fatigue
- Good level of abrasion resistance
- Groundable for use with flammables
- Not for use with acids or bases

Aluminum *Material used for air motor & wetted body parts*

- Medium corrosion and abrasion resistance
- Not for use with HHC's

Ductile Iron *Material used for wetted body parts*

- High abrasion resistance
- Low cost alternative to stainless steel

Hardened SST *Material used for seats and balls*

- Moderate chemical resistance
- Good abrasion resistance
- Abrasion resistant balls and seats

PVDF *Material used for wetted body parts & seats*

- Strong chemical resistance: acids and bases
- Good abrasion resistance
- High temperature resistance

Polypropylene *Material used for air motor, wetted body parts, seats & balls*

- Wide chemical compatibility
- General purpose
- Inexpensive alternative

Stainless Steel *Material used for air motor, wetted body parts, and seats and balls*

- High level of corrosion and abrasion resistance
- Passivated for use with waterbase coatings

Buna-N *Material used for seats, balls and diaphragms*

- Good for petroleum-based fluids
- Not for use with strong solvents or chemicals
- Food grade

Geolast *Material used for seats, balls & diaphragms*

- Good abrasion resistance
- Same chemical compatibility as Buna-N and TPE

TPE *Material used for seats, balls & diaphragms*

- Good abrasion resistance
- Often substituted for Buna-N

Santoprene® *Material used for seats, balls & diaphragms*

- Good abrasion and chemical resistance
- Not for use with solvents
- Often substituted for EPDM or EPR
- Food grade

PTFE *Material used for balls & diaphragms*

- Excellent when used with solvents
- Poor abrasion resistance
- Widest chemical compatibility with fluids
- Food grade

Fluoroelastomer *Material used for seats, balls & diaphragms*

- High level of corrosion resistance with acids
- Resists unleaded fuels
- Food grade

Diaphragm Compatibility

Diaphragm Material Compatibility

Material / Resistance to:	Acids	Alcohols	Solvents	Detergents/Soap	Gasoline Unleaded	Gasoline Leaded	Animal Fat/Oil	Vegetable Oil	Vegetable Juice	Milk Products	Ketchup/Tomato Juice	Fruit Juice	Petroleum-based Oils	Natural Gas	Water	Steam
PTFE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Viton	E	E	P	E	E	E	E	E	E	E	E	E	E	E	E	E
Buna-N	P	E	P	E	P	E	E	E	E	E	E	E	E	E	E	P
EPDM*	F	F	P	E	P	P	F	F	F	E	E	E	P	P	E	E
Santoprene	E	E	P	F	P	P	F	E	E	E	E	E	P	P	E	P
Geolast	P	E	P	E	P	P	E	F	E	E	E	E	E	E	E	P
Hytrel	P	F	F	E	?	?	?	?	?	E	?	?	?	P	E	P
Neoprene	P	F	P	F	P	P	P	P	P	P	?	P	F	E	F	P
EPDM (3A)	F	F	P	E	P	P	F	F	F	E	E	E	P	P	E	E

* Used only as backer for PTFE diaphragm

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Key

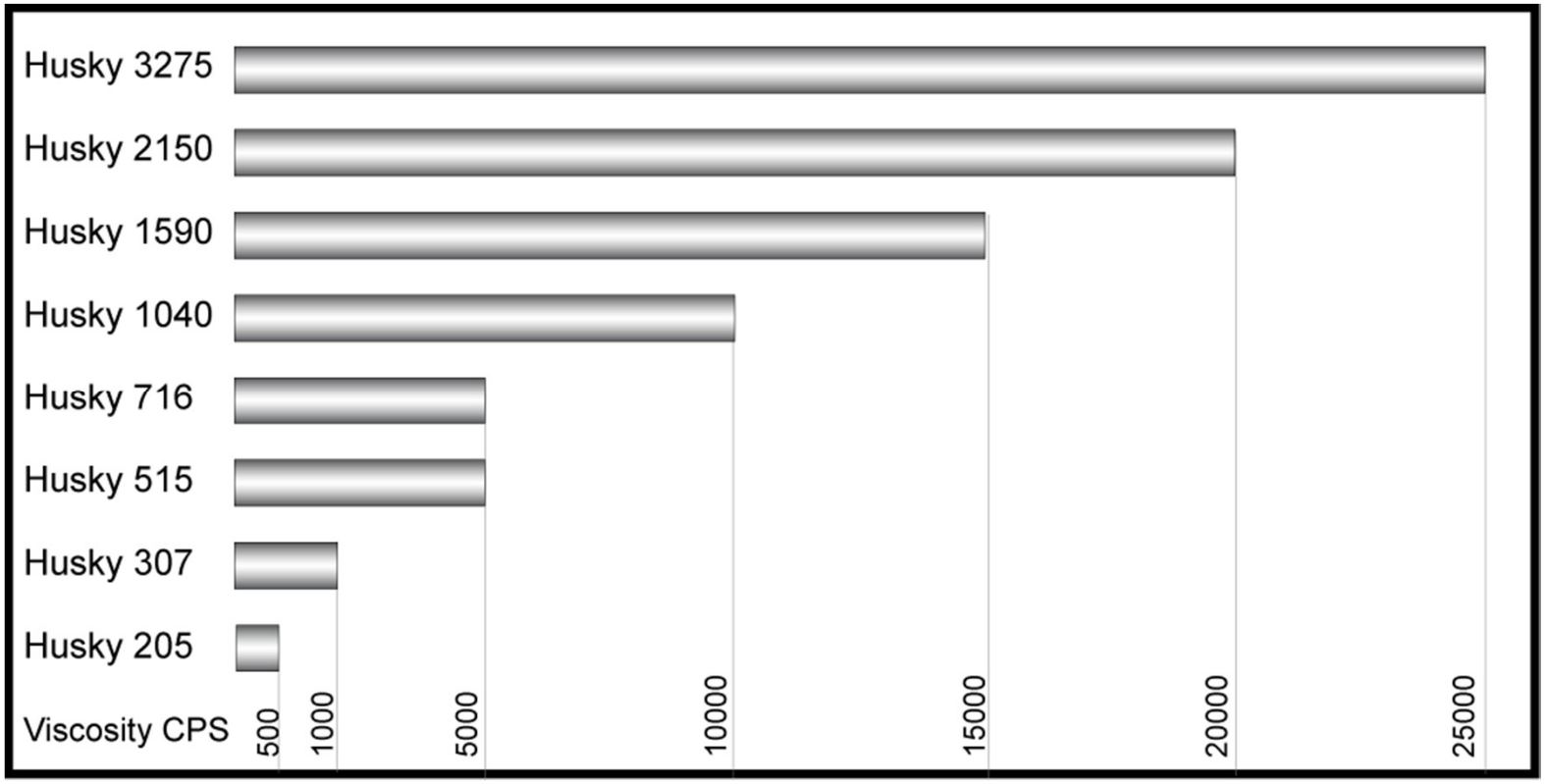
E	Excellent Compatibility
F	Fair Compatibility
P	Poor Compatibility
?	Unknown

Diaphragm Compatibility

Material	Strengths	Weakness
PTFE/EPDM Two Piece	Widest chemical compatibility, extreme corrosion resistance, very low frictional coefficient, non-adhesive, high heat resistance.	Poor abrasive resistance.
PTFE/EPDM Over-molded	Same as above. Over-molded design does not entrap materials, making it easier to clean. Longer life than above	Same as above. Higher cost.
Thermoplastic Polyester Elastomer (Hytrel)	Good low temp properties. Good abrasion resistance. Often substituted for Buna-N.	Not good with acids. Poor with solvents and alcohols.
Santoprene	Good abrasion and chemical resistance. OK for use with some solvents (e. g. MEK, Acetone), caustic solutions, dilute acids, and alcohols. Often substituted for EPDM or EPR.	Not for use with most solvents.
Buna	Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals (e. g. mineral spirits).	Not for use with strong solvents or chemicals (e.g. acetone, MEK, ozone, chlorinated hydrocarbons, and nitro hydrocarbons)
Fluoroelastomer (Viton)	High heat resistance. Good resistance to aggressive chemicals including acids and some solvents (e.g. xylene and mineral spirits). Good resistance to steam as well as animal, vegetable, and petroleum oils. Resists unleaded fuels.	Not for use with ketones, low molecular weight esters and nitro containing compounds.
Geolast	Good abrasion resistance. Approximately same chemical compatibility as Buna-N.	Not for use with strong solvents or chemicals (e.g. acetone, MEK, ozone, chlorinated hydrocarbons, and nitro hydrocarbons)
Polychloroprene Over-molded (Neoprene)	High resilience. Good with whiskey, wine, beer and natural gas. One source calls an "all purpose polymer ". About 30% higher abrasion resistance than Buna.	Not for use with strong oxidizing acids, esters, ketones, chlorinated aromatic and nitro hydrocarbons.
EPDM, used with 3A pump (Ethylene Propylene Diene M-class rubber)	High heat resistance. Good resistance to gas permeability and to steam. OK with caustic solutions, dilute acids, ketones and alcohols. Recommended for use with CIP Sanitizing Agent OXONIA.	Poor petroleum oil and solvent resistance. Not for use with aromatic hydrocarbons.

Material Viscosity Considerations

- The Husky 205 can handle up to 500 cps material
- The Husky 3275 can handle up to 25,000 cps material



info@kalasanati.com
Tel: 02191004647

kalasanati.com
Training, Selecting, Purchasing