



CATALOG

YEAR 2025



DOUBLE-DIAPHRAGM PUMP

MODEL : QG SERIES

A NEW LEVEL OF PUMP PERFORMANCE

Expanded field of application owing to improved corrosion resistance.



CHEMICAL
INDUSTRY



POLLUTION
PROCESS



SEMICONDUCTOR



AUTO-PART
INDUSTRY



CHEMTAI Pump Model Selection Guide

QG		25		B		PP		PP		TF		TF		S	
Chemtai		Dimension		Connections		Pump Body		Valve Seat		Valve Ball		Diaphragm		Product STD.	
Pump Inlet/Outlet Size		Connections		Material		Material		Material		Material		Material		Options	
15-1/2in (15 caliber) 25-1in (25 caliber) 40-1.5in (40 caliber) 50-2in (50 caliber) 80-3in (80 caliber) 100-4in (100 caliber)		B = BSP F = Flange		PP = Polypropylene KY = PVDF SS = SUS304 LL = SS316 CI = Cast Iron AL = Aluminum		PP = Polypropylene KY =PVDF SS = SUS304 LL = SS316 AL = Aluminum TF = PTFE		PP = Polypropylene SS = SUS304 LL = SS316 SP = Santoprene AL = Aluminum TF = PTFE BN = Buna N VT = Viton CE = Ceramic		SP = Santoprene TF = PTFE BN = Buna N VT = Viton HY = Hytrel		S = Standard N = Nonstandard			

Main application areas of pneumatic diaphragm pumps and suitable liquids for transportation

1. Chemical Industry: Acid, alkali, solvent, mixture, filter press, latex, etc.
2. Water Treatment: Sewage, wastewater, chemicals, soft sediment, stone slurry, etc.
3. Petrochemical Industry: Crude oil, mud, slurry, grease, etc.
4. Coating Industry: Resin, solvent, colorant, paint, etc.
5. Daily Chemical Industry: Detergent, emulsion, emulsion, shampoo, hand cream, surfactant, etc.
6. Ceramic Industry: Mud, porcelain slurry, lime slurry, clay slurry.
7. Mining Industry: Coal slurry, mud, mortar, magma, lubricant, etc.
8. Construction Industry: Cement slurry, rock slurry, ceiling paint, etc.
9. Papermaking Industry: Resin, paint, ink, pigment, adhesive, hydrogen peroxide, etc.
10. Electronics Industry: Sulfuric acid, nitric acid, corrosive acid, waste acid, solvent, electroplating solution, cleaning fluid, etc.
11. Food Industry: Brine, vinegar, syrup, vegetable oil, animal blood, chocolate, liquid semi-solid, etc.
12. Beverage Industry: Concentrate, yeast, syrup, wine, juice, gas wave mixture, etc.
13. Pharmaceutical Industry: Acid, alkali, solvent, plant extract, plasma and other pharmaceutical liquids.
14. Automobile Industry: Oil, coolant, degreasing liquid, car primer, oil emulsion paint, paint, varnish, etc.
15. Furniture Industry: Solvent, colorant, adhesive, varnish, dispersion system, white wood glue, epoxy resin, etc.
16. Textile Industry: Dyeing chemicals, resin, glue, etc.
17. Alchemy, Casting And Dyeing Industry: Metal slurry, hydroxide, dust washing slurry, etc.

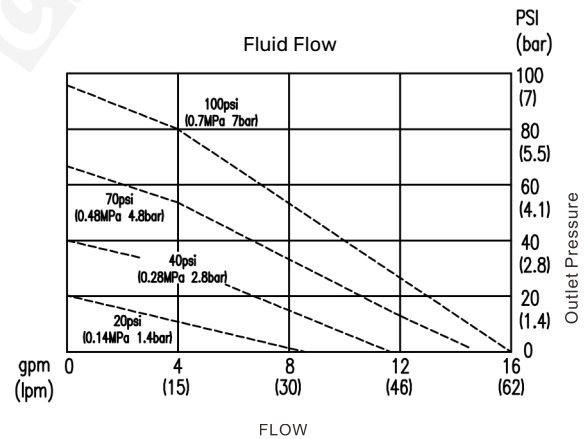
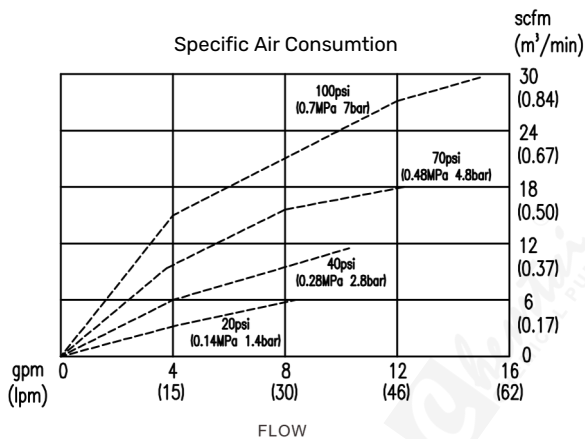
QG-15 Plastic Pump



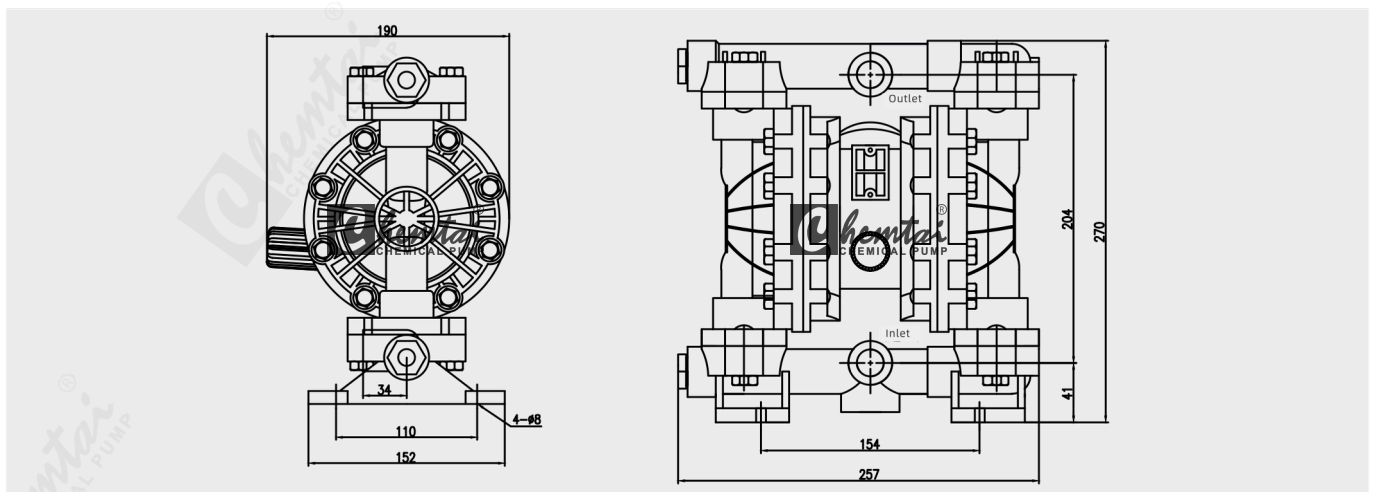
Technical Parameters

Max.Working Pressure	100psi (0.7MPa,7bar)
Max.Flow Rate	15gpm (57lpm)
Suction Height	0-2m
Max.Permiffed Grain	2.5 mm
Air Inlet Size	ZG1/4"
Fluid Inlet/Outlet Size	ZG1/2"

Performance Curves



Installation Size Map



The pictures are for reference only, the actual size shall prevail

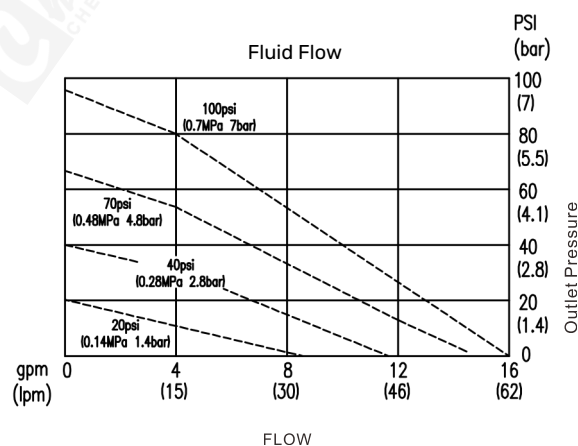
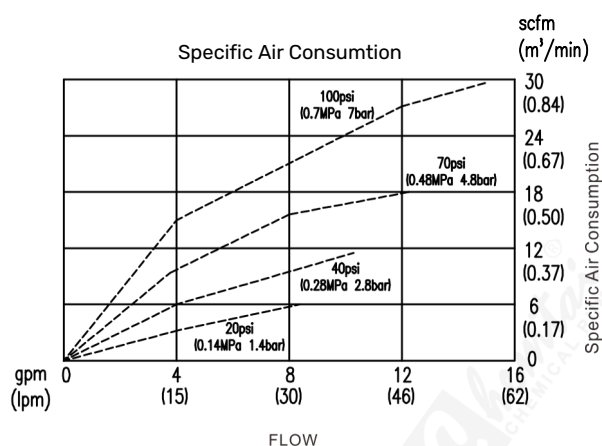
QG-15 Aluminum Pump



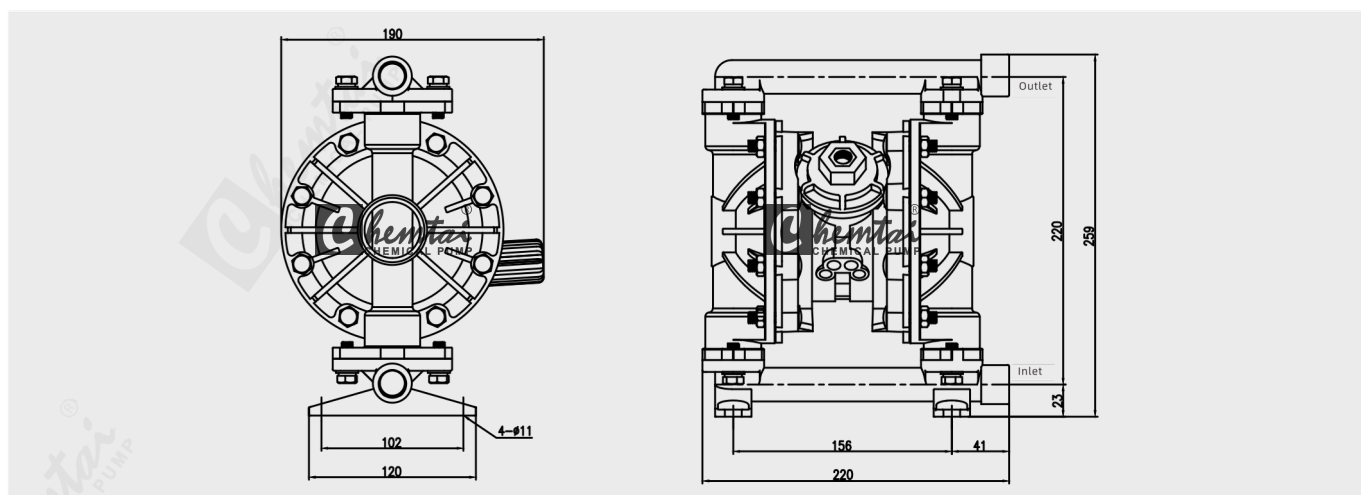
Technical Parameters

Max.Working Pressure	100psi (0.7MPa,7bar)
Max.Flow Rate	15gpm (57lpm)
Suction Height	0-2.5m
Max.Permiffed Grain	2.5 mm
Air Inlet Size	ZG1/4"
Fluid Inlet/Outlet Size	ZG1/2"

Performance Curves

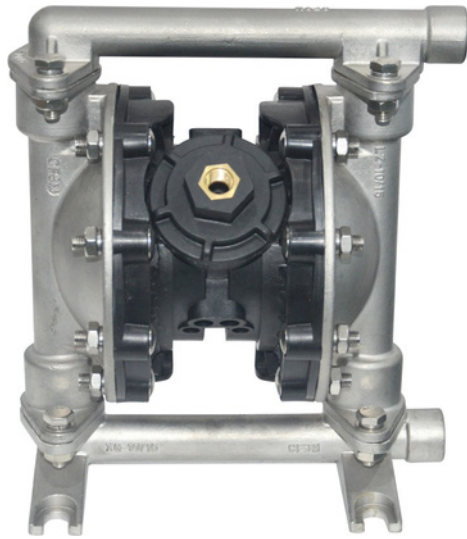


Installation Size Map



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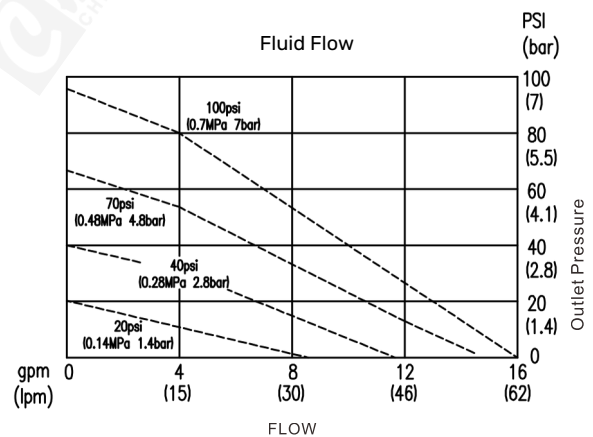
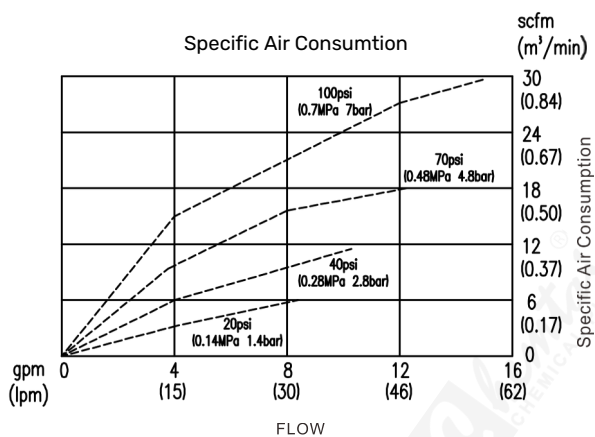
QG-15 Stainless Pump



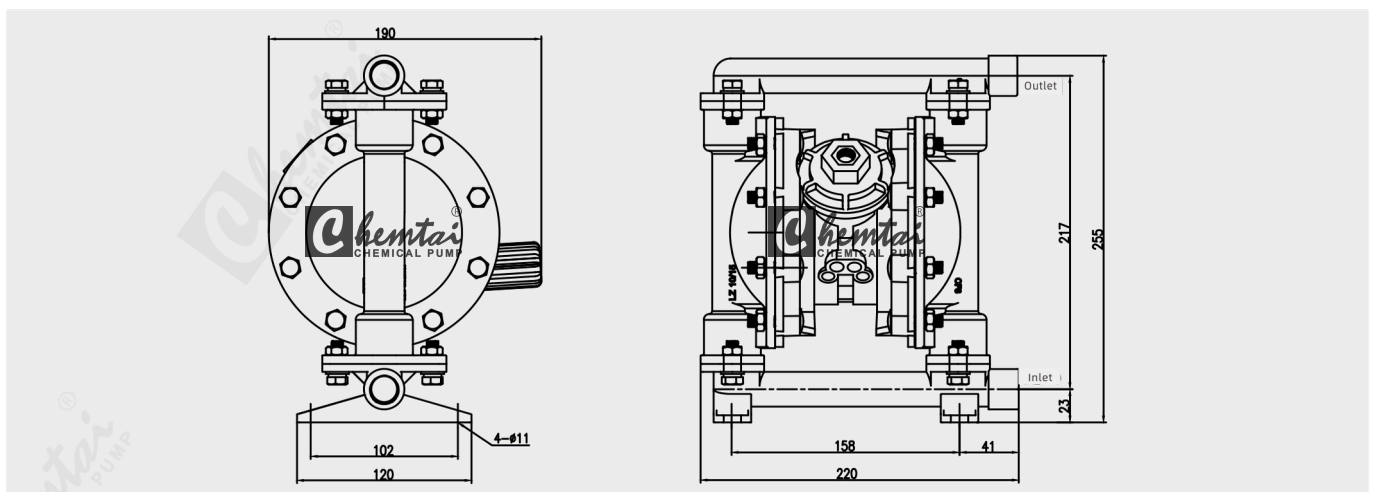
Technical Parameters

Max.working Pressure	100psi (0.7MPa,7bar)
Max.Flow Rate	15gpm (57lpm)
Suction Height	0-2.5m
Max.Permiffed Grain	2.5 mm
Air Inlet Size	ZG1/4"
Fluid Inlet/Outlet Size	ZG1/2"

Performance Curves



Installation Size Map



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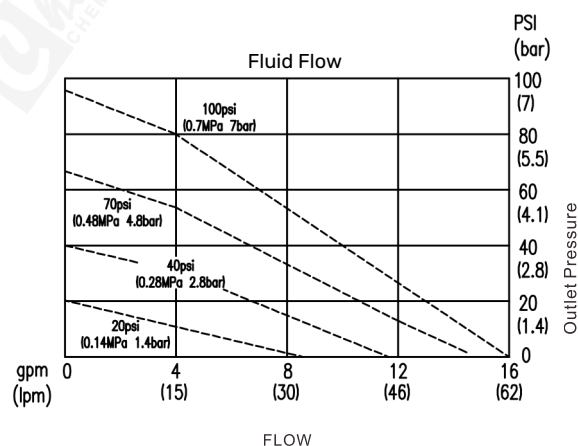
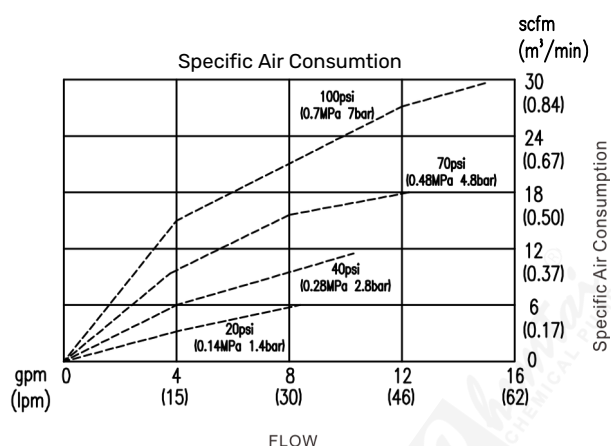
QG-15 Cast-Iron Pump



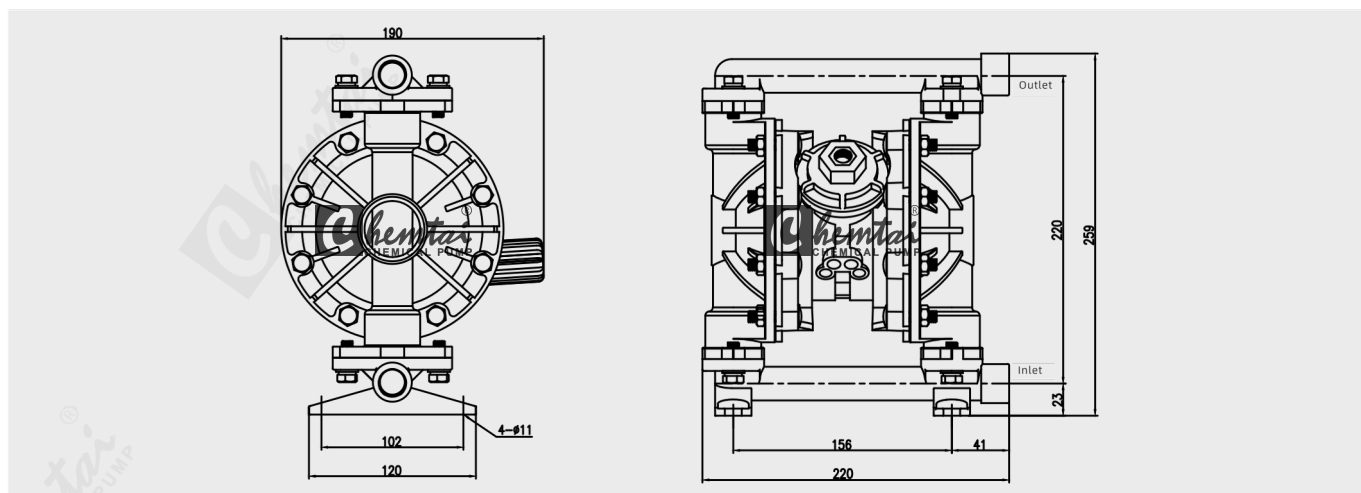
Technical Parameters

Max.Working Pressure	100psi (0.7MPa,7bar)
Max.Flow Rate	15gpm (57lpm)
Suction Height	0-2.5m
Max.Permiffed Grain	2.5 mm
Air Inlet Size	ZG1/4"
Fluid Inlet/Outlet Size	ZG1/2"

Performance Curves



Installation Size Map



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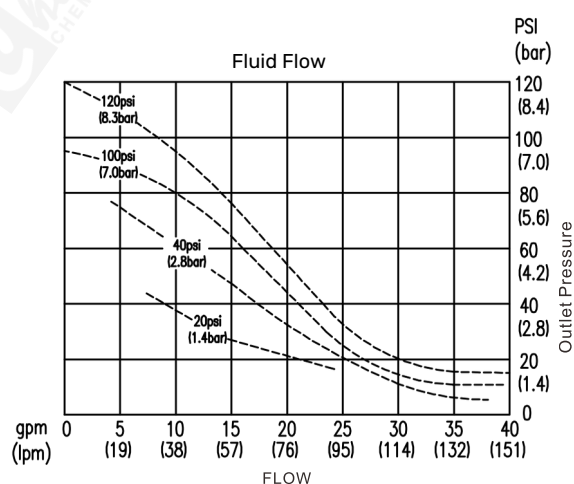
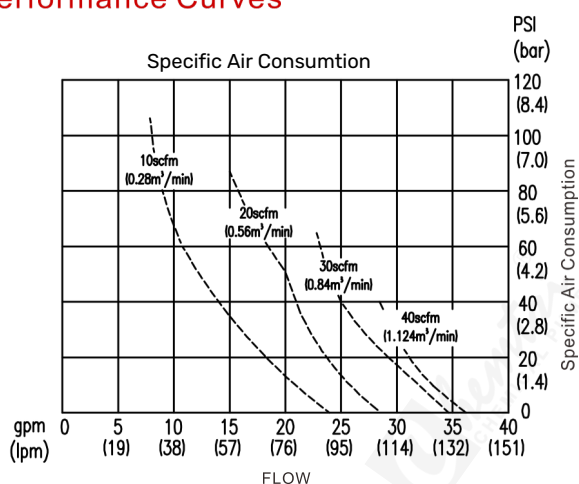
QG-25 Plastic Pump



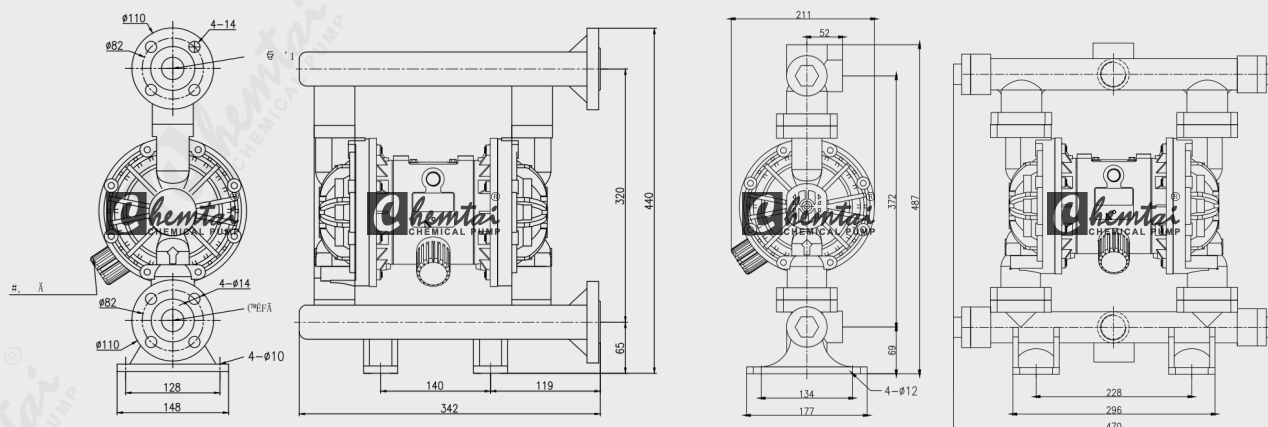
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	40gpm (151lpm)
Suction Height	0-2.5m
Max.Permiffed Grain	3.2 mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1"

Performance Curves



Installation Size Map



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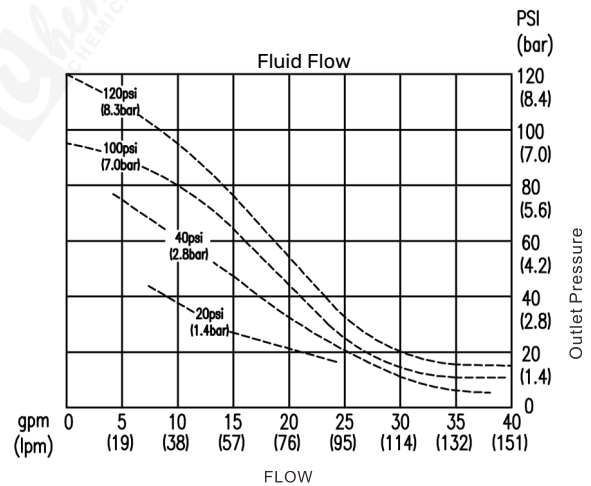
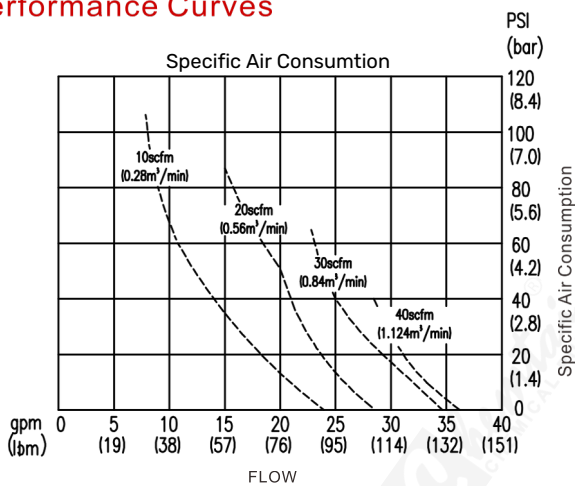
QG-25 Aluminum Pump



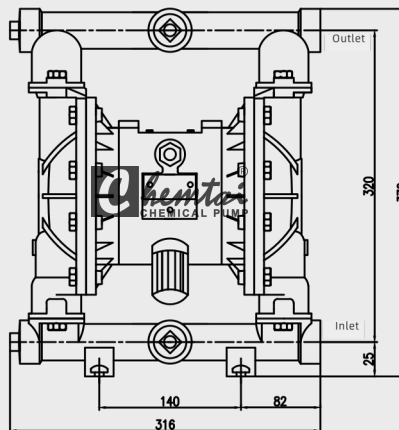
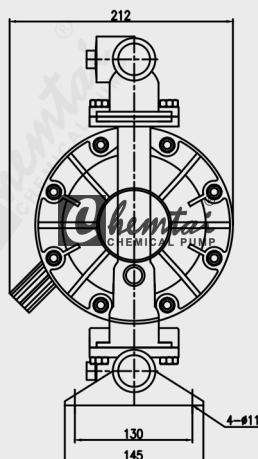
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	40gpm (151lpm)
Suction Height	0-4m
Max.Permitted Grain	3.2 mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1"

Performance Curves



Installation Size Map



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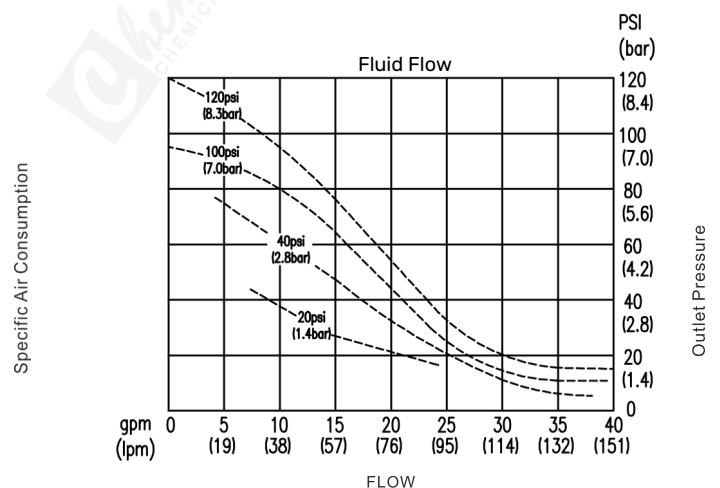
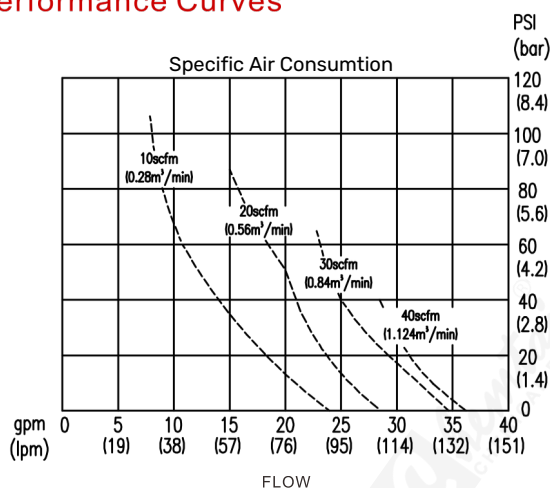
QG-25 Stainless Pump



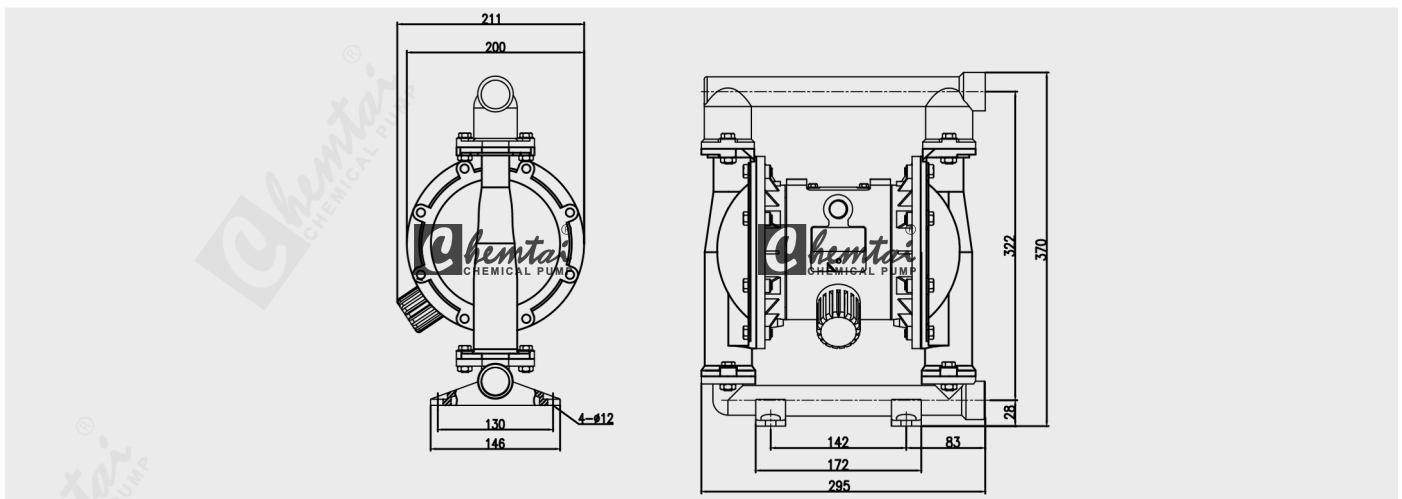
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	40gpm (151lpm)
Suction Height	0-4m
Max.Permiffed Grain	3.2mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1"

Performance Curves



Installation Size Map



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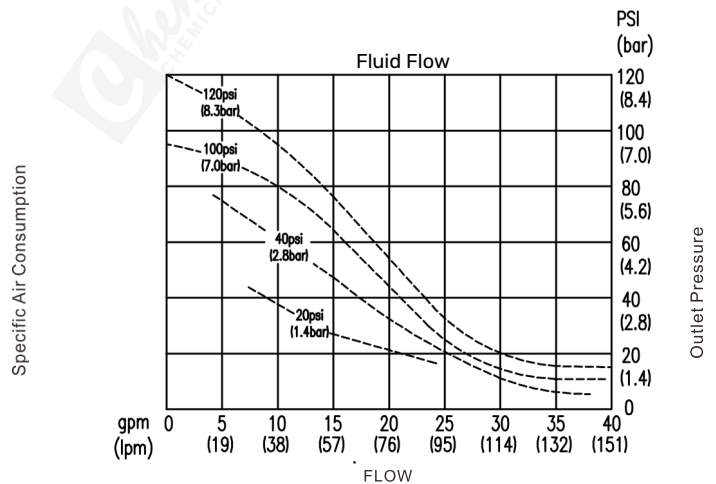
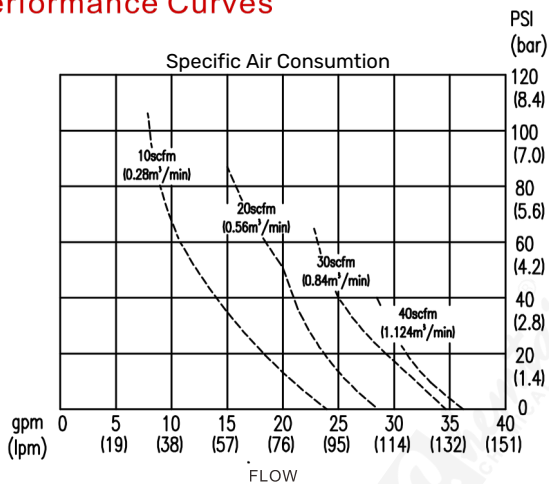
QG-25 Cast-Iron Pump



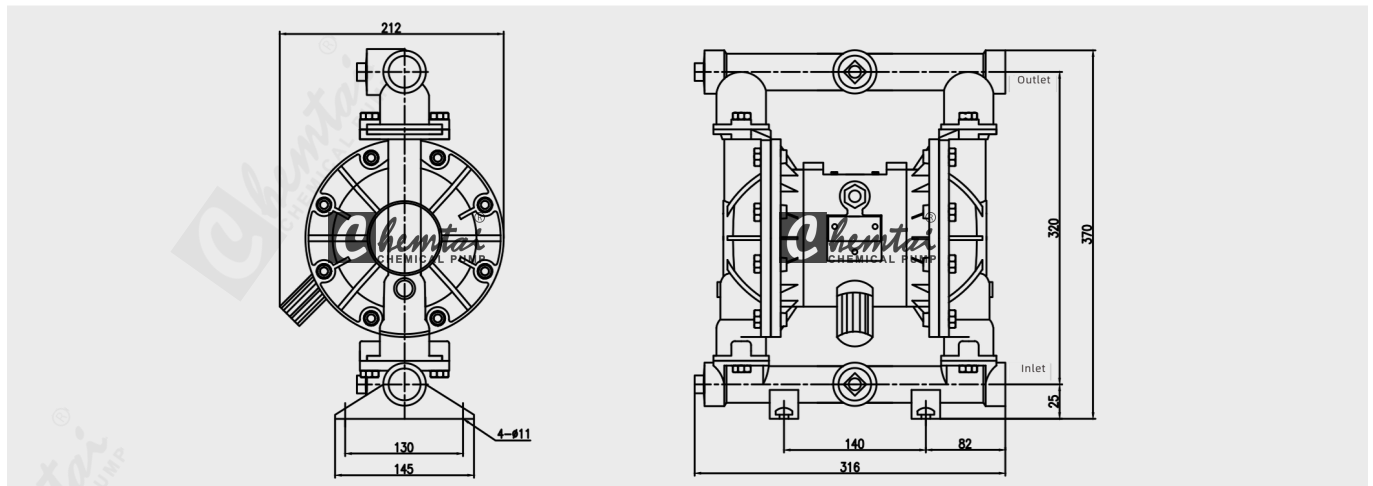
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	40gpm (151lpm)
Suction Height	0-4m
Max.Permitted Grain	3.2mm
Air Inlet Size	ZG1½"
Fluid Inlet/Outlet Size	ZG 1"

Performance Curves



Installation Size Map



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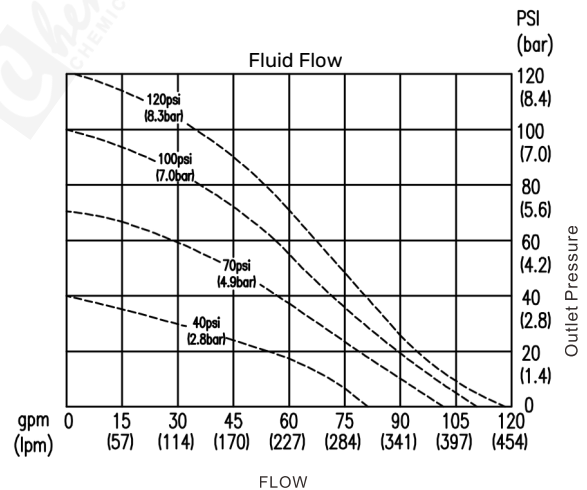
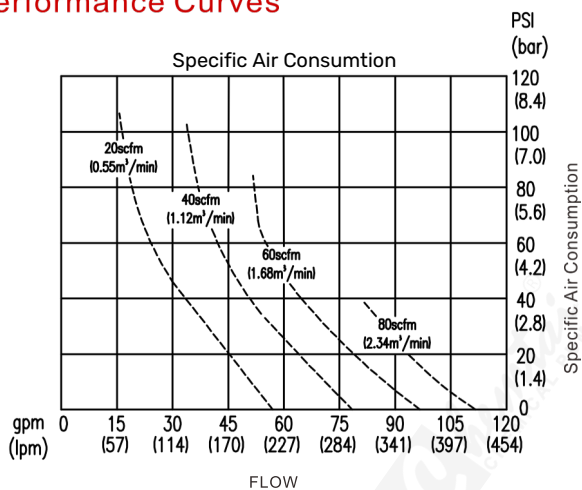
QG-40 Plastic Pump



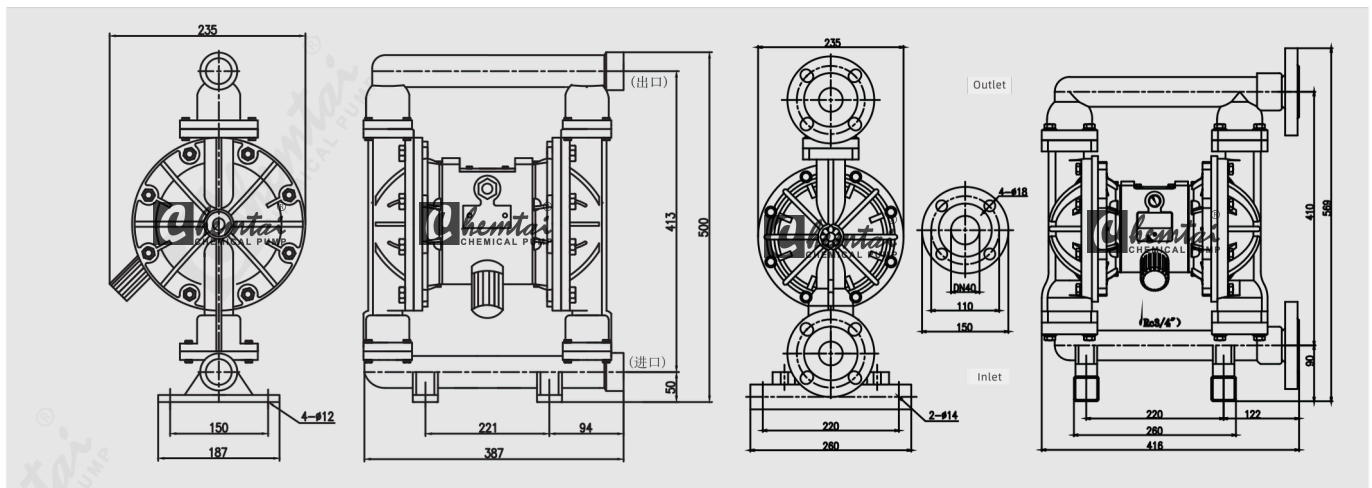
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	100gpm (378.5lpm)
Suction Height	0-3m
Max.permitted grain	4.8mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1-1/2"

Performance Curves

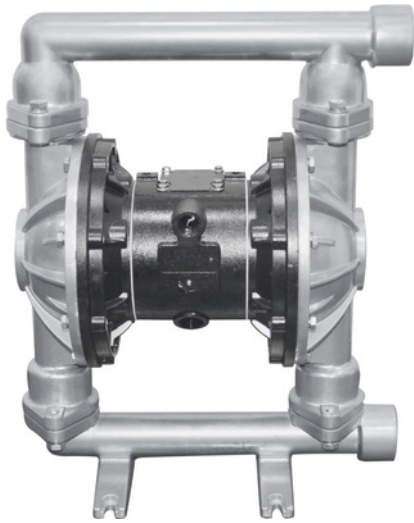


Installation Size Map



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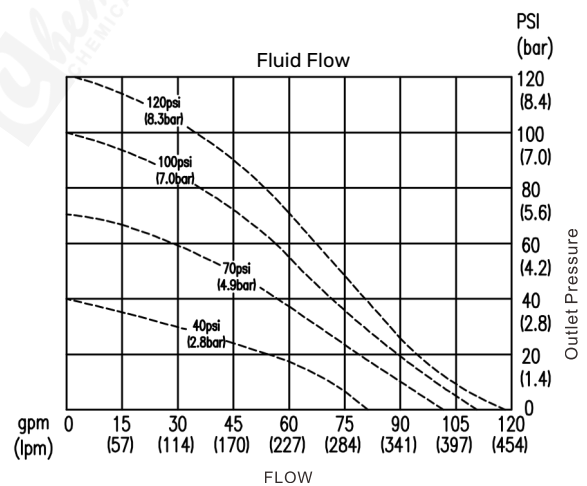
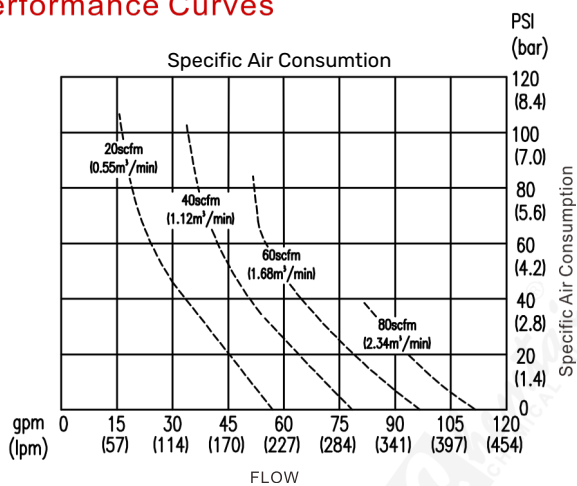
QG-40 Aluminum Pump



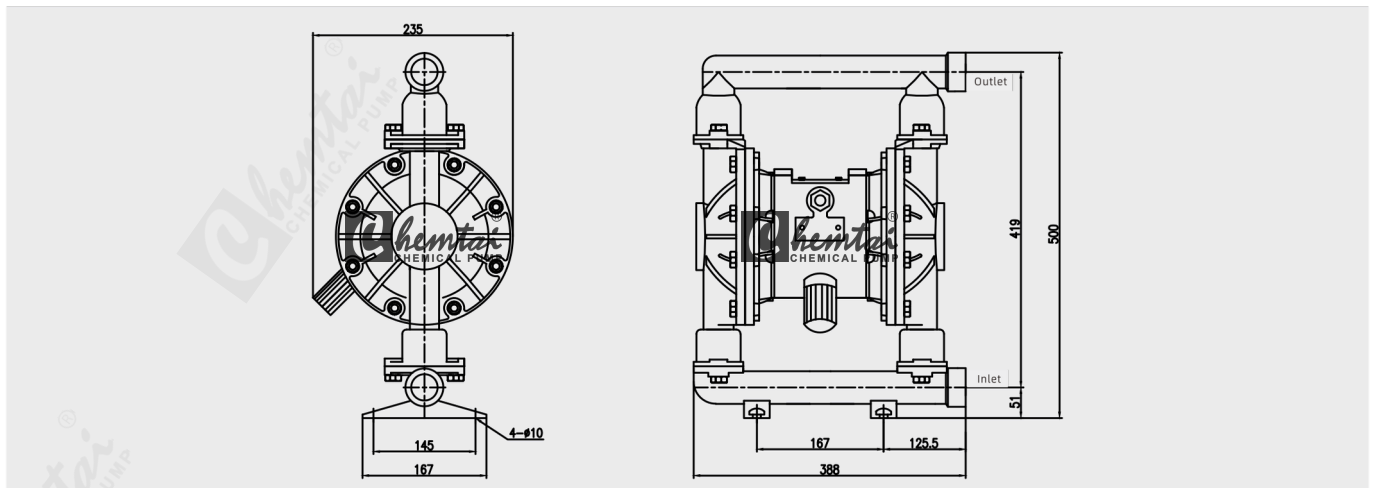
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	100gpm (378.5lpm)
Suction Height	0-5m
Max.Permitted Grain	4.8mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1-1/2"

Performance Curves



Installation Size Map



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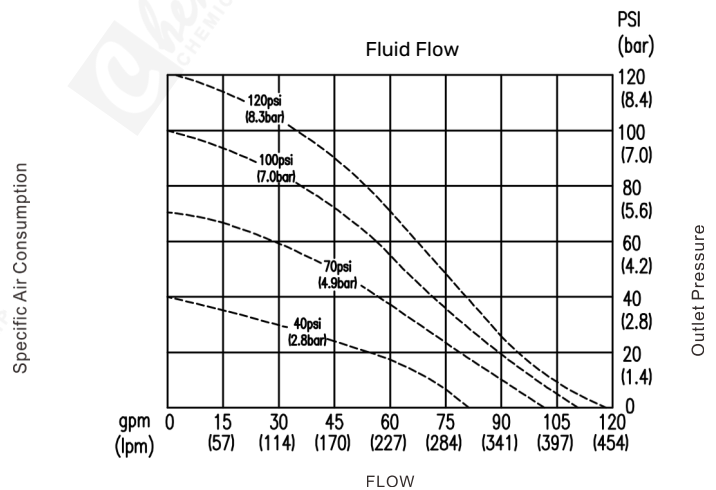
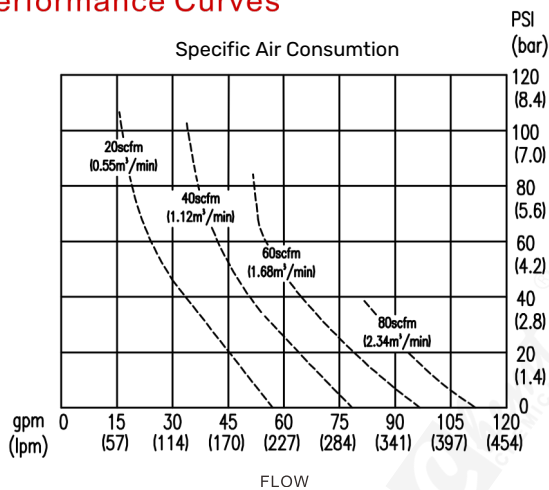
QG-40 Stainless Pump



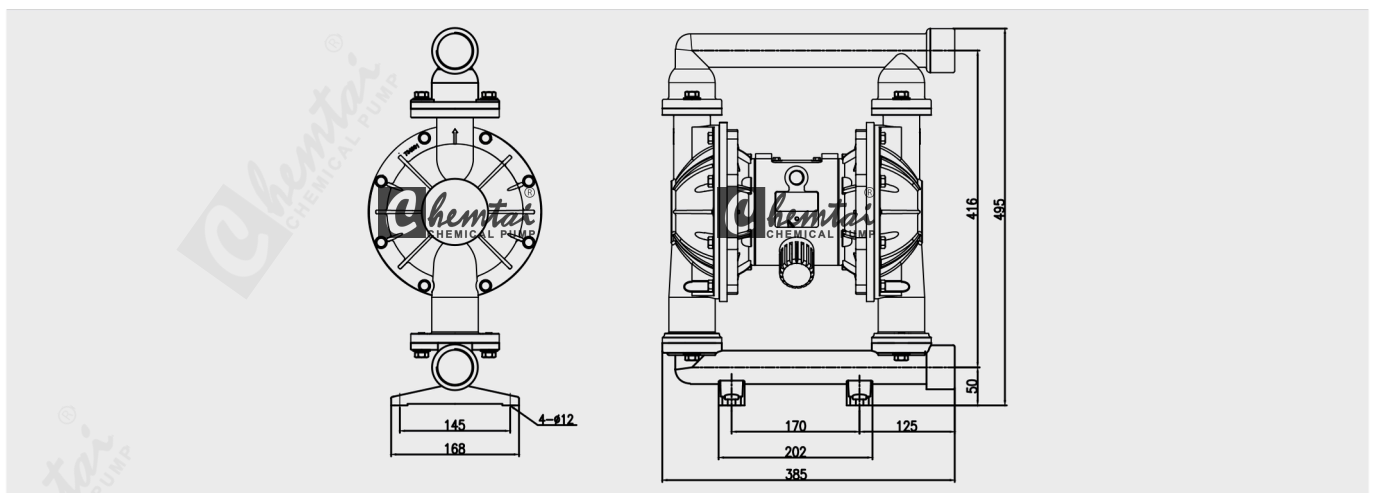
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	100gpm (378.5lpm)
Suction Height	0-5m
Max.Permitted Grain	4.8mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1-1/2"

Performance Curves



Installation Size Map



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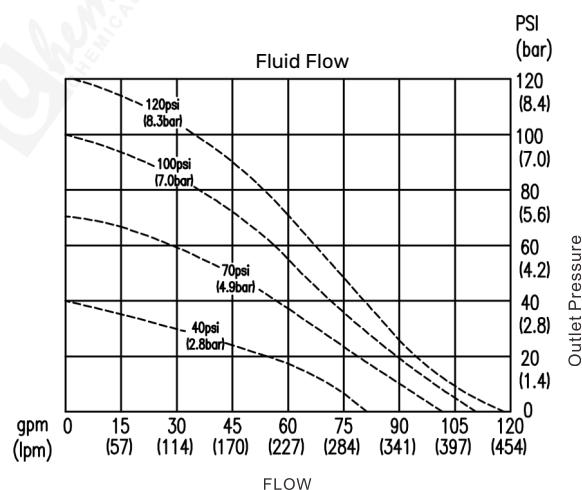
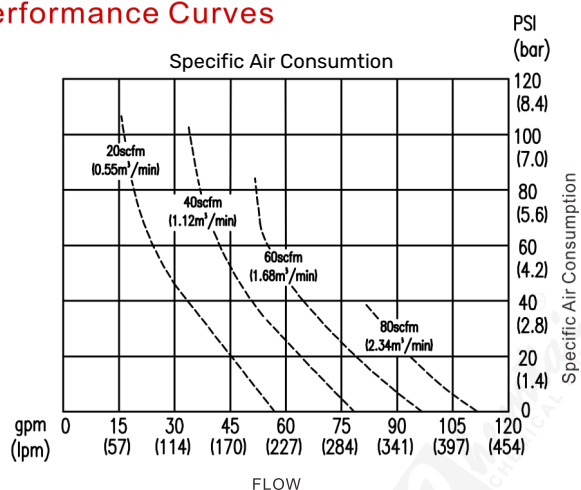
QG-40 Cast-Iron Pump



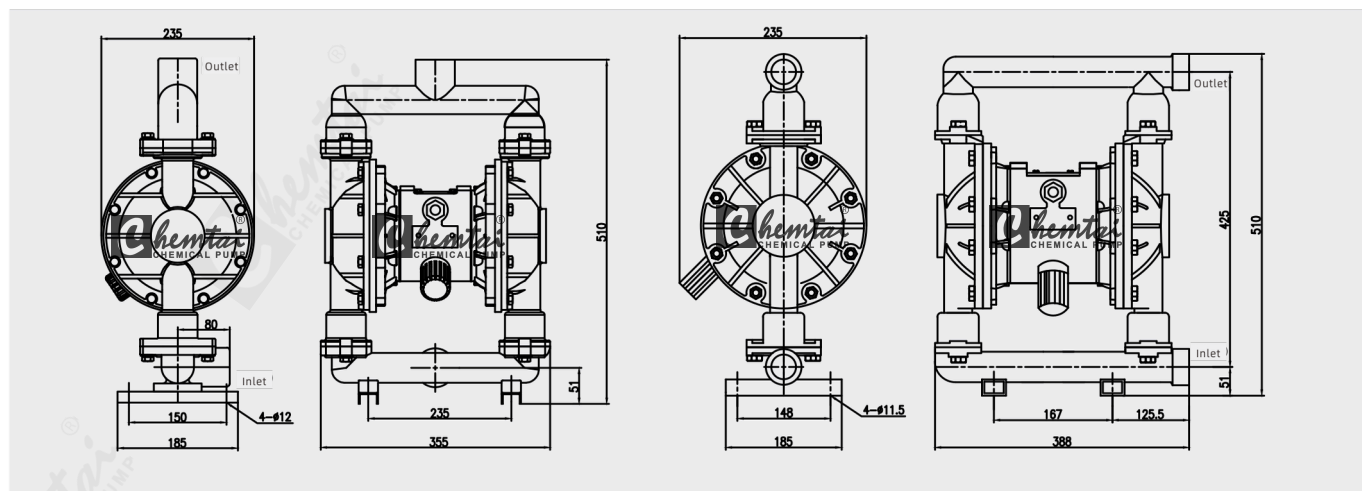
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	100gpm (378.5lpm)
Suction Height	0-5m
Max.Permiffed Grain	4.8mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG 1-1/2"

Performance Curves

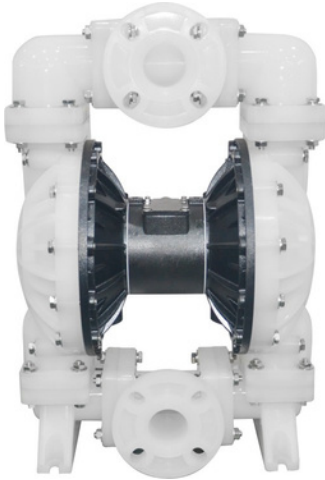


Installation Size Map



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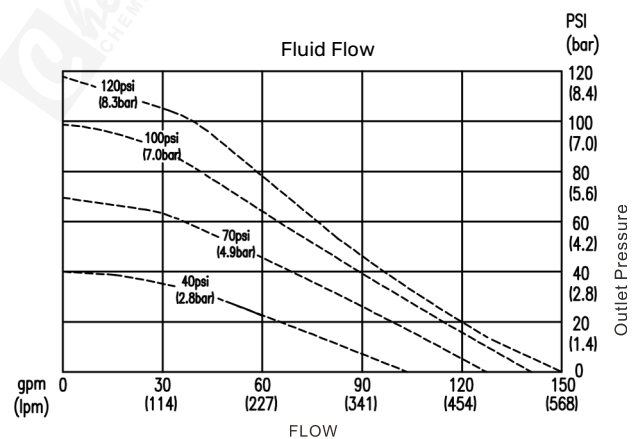
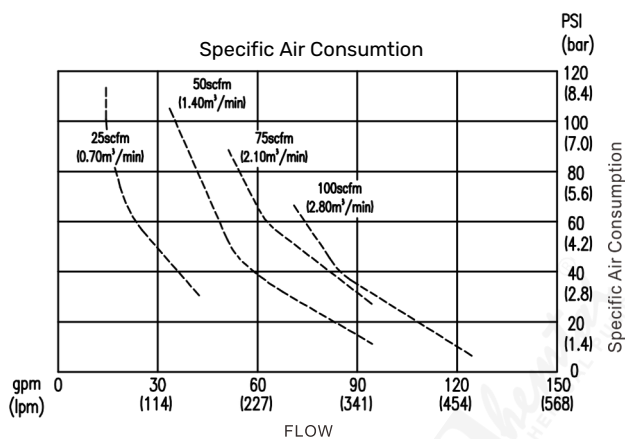
QG-50 Plastic Pump



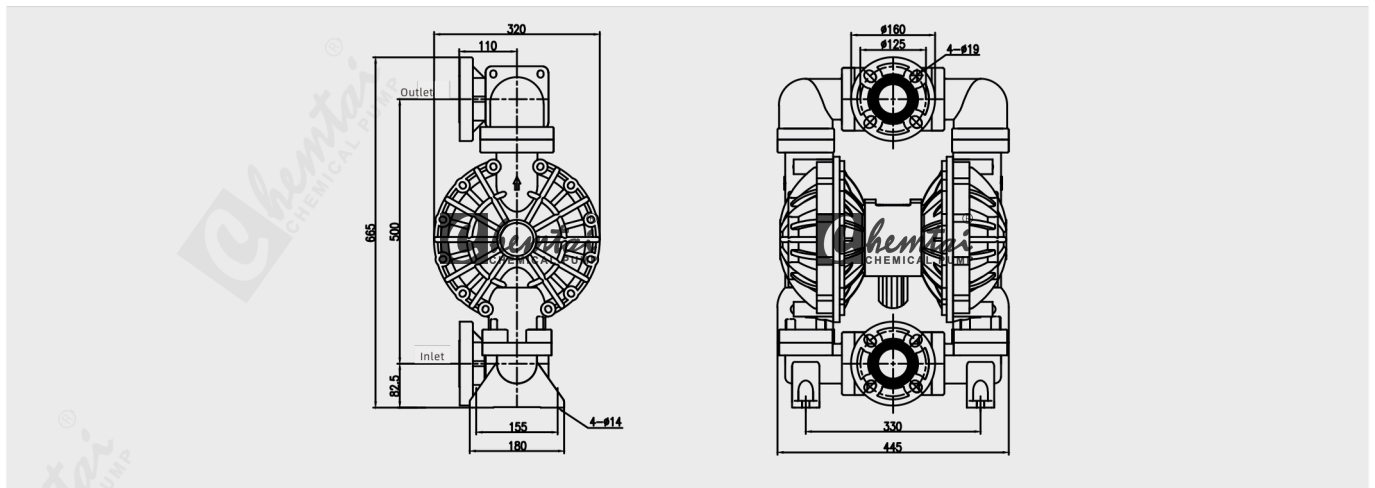
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	150gpm (568lpm)
Suction Height	0-3m
Max.Permiffed Grain	6.3mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	DN50

Performance Curves

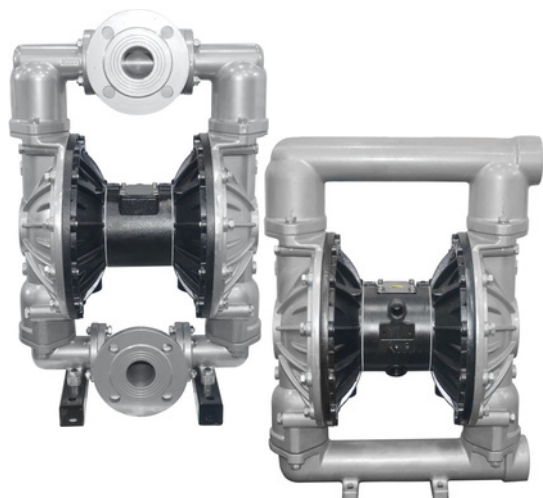


Installation Size Map



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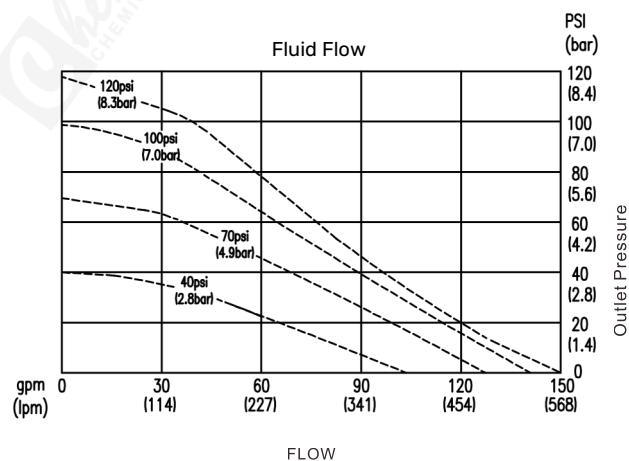
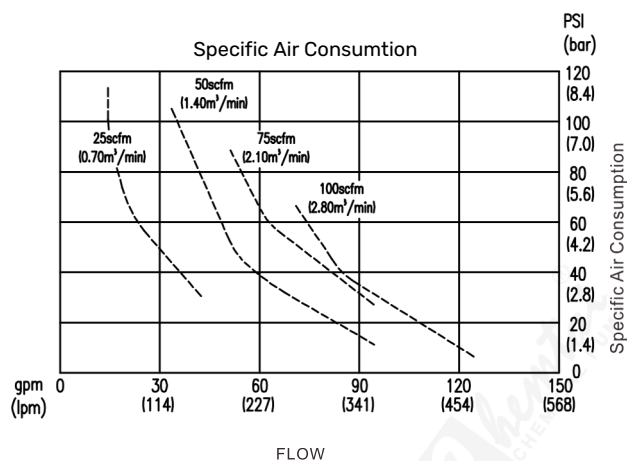
QG-50 Aluminum Pump



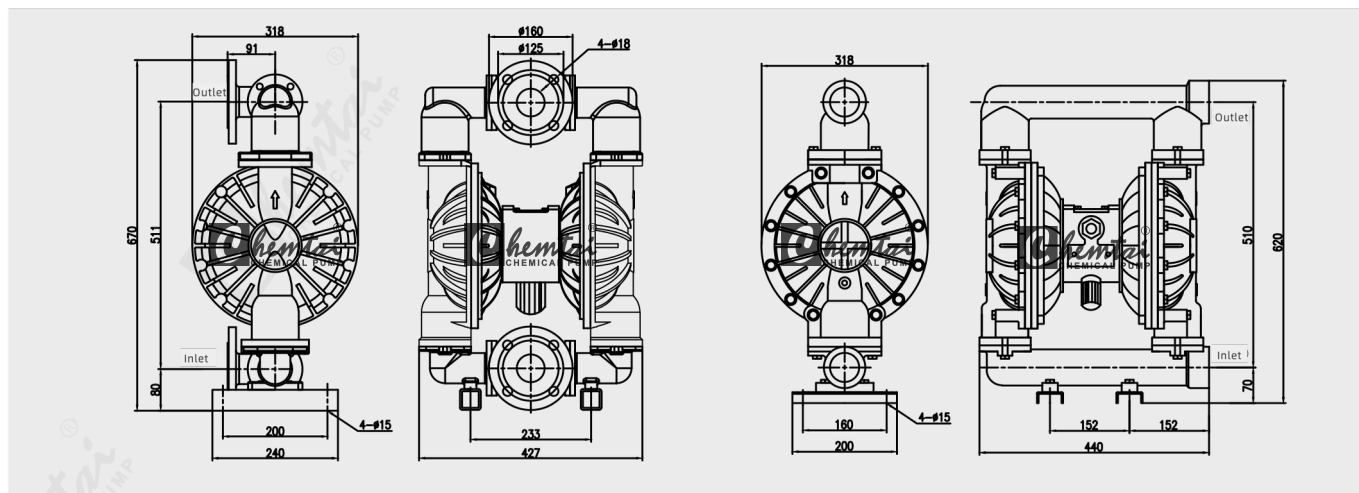
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	150gpm (568lpm)
Suction Height	0-5m
Max.Permitted Grain	6.3mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG2"/DN50

Performance Curves

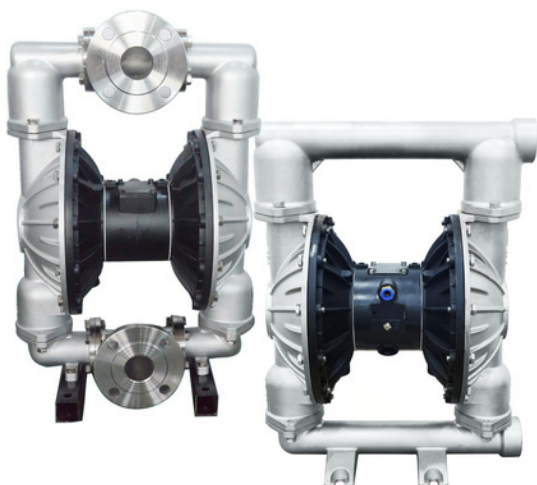


Installation Size Map



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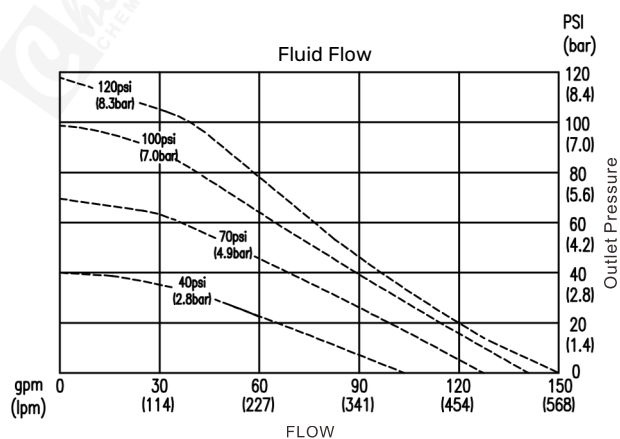
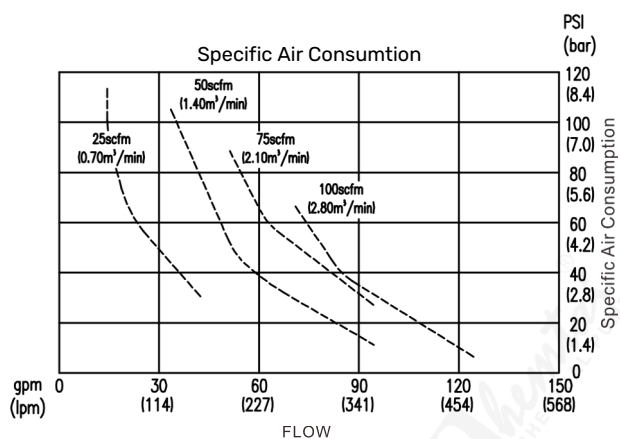
QG-50 Stainless Pump



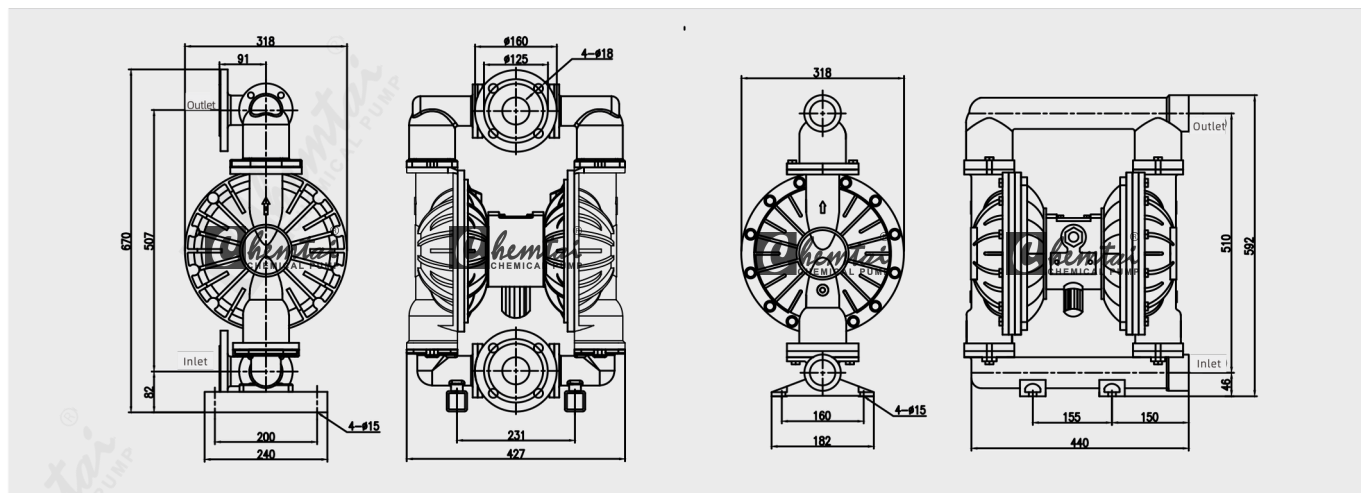
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	150gpm (568lpm)
Suction Height	0-5m
Max.Permiffed Grain	6.3mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG2"/DN50

Performance Curves



Installation Size Map



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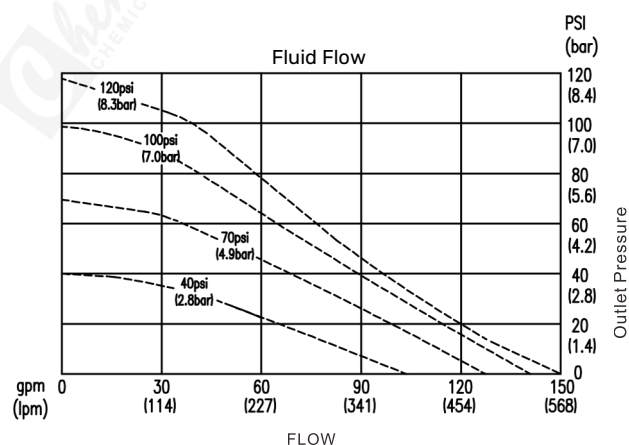
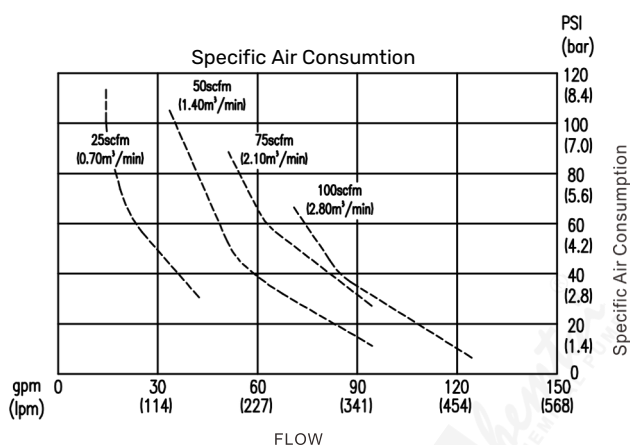
QG-50 Cast-Iron Pump



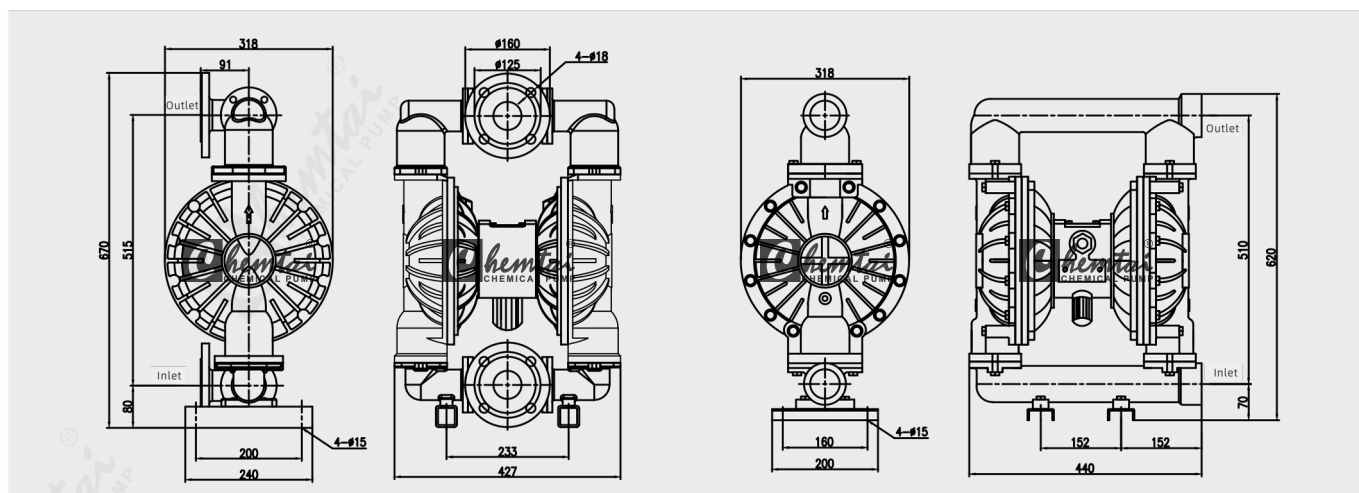
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	150gpm (568lpm)
Suction Height	0-5m
Max.Permiffed Grain	6.3mm
Air Inlet Size	ZG1/2"
Fluid Inlet/Outlet Size	ZG2"/DN50

Performance Curves



Installation Size Map



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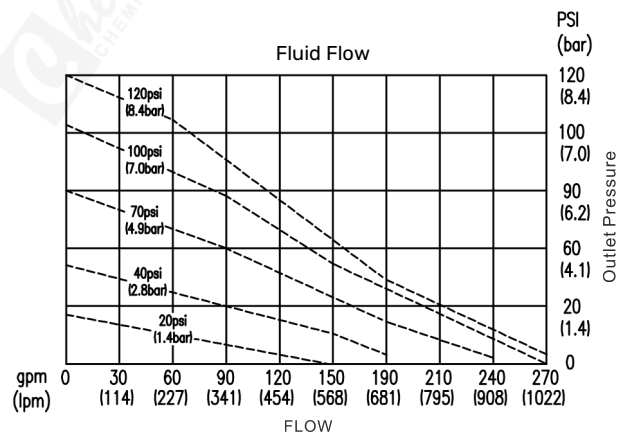
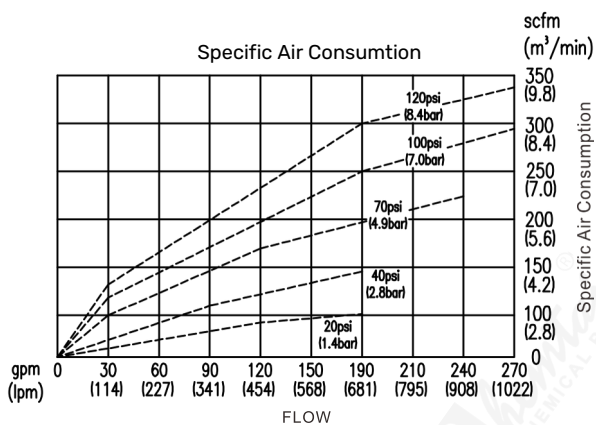
QG-80 Plastic Pump



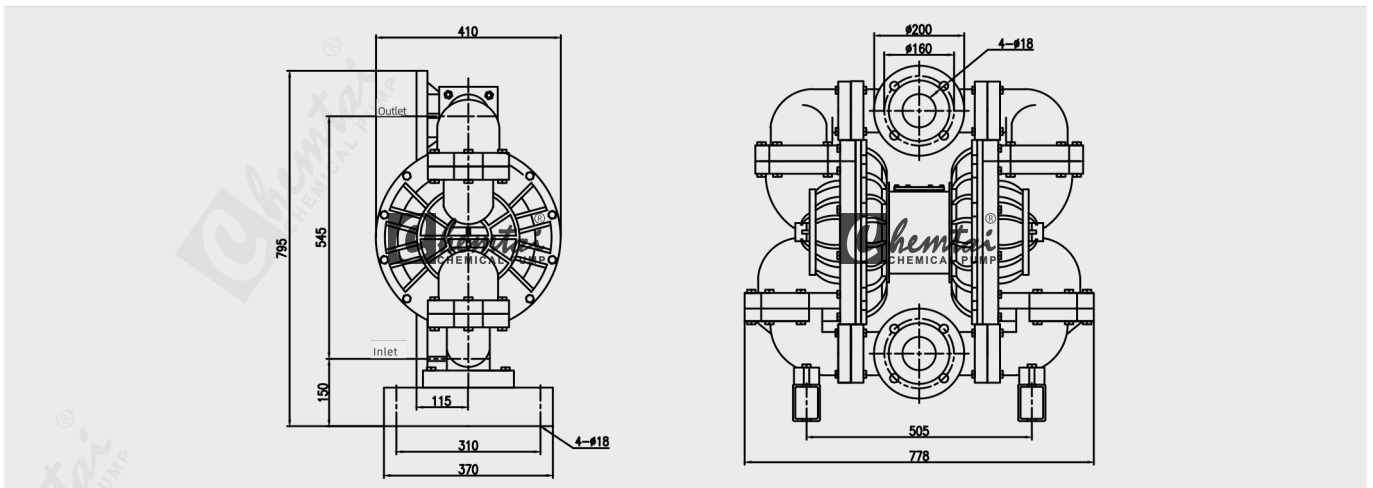
Technical Parameters

Max.Working Oressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-3m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN80

Performance Curves



Installation Size Map



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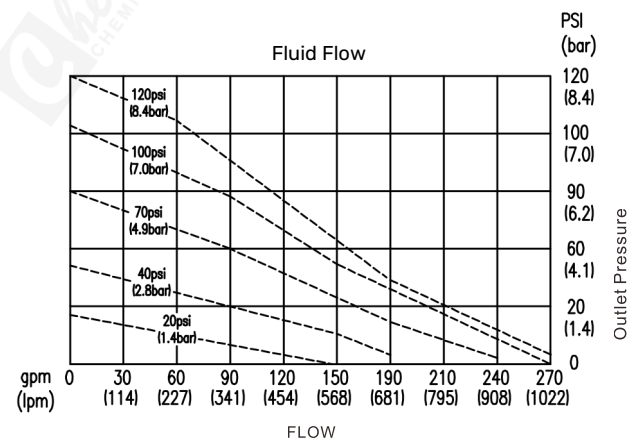
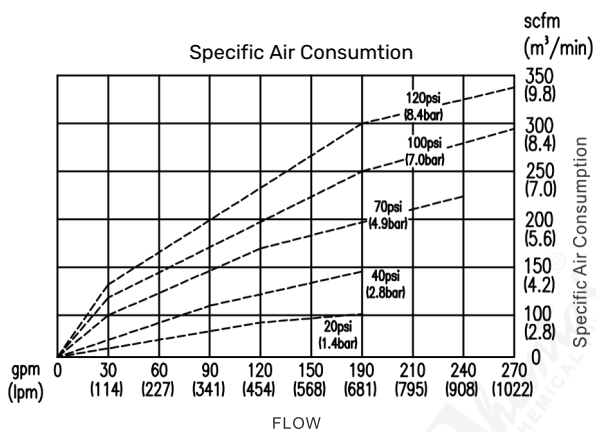
QG-80 Aluminum Pump



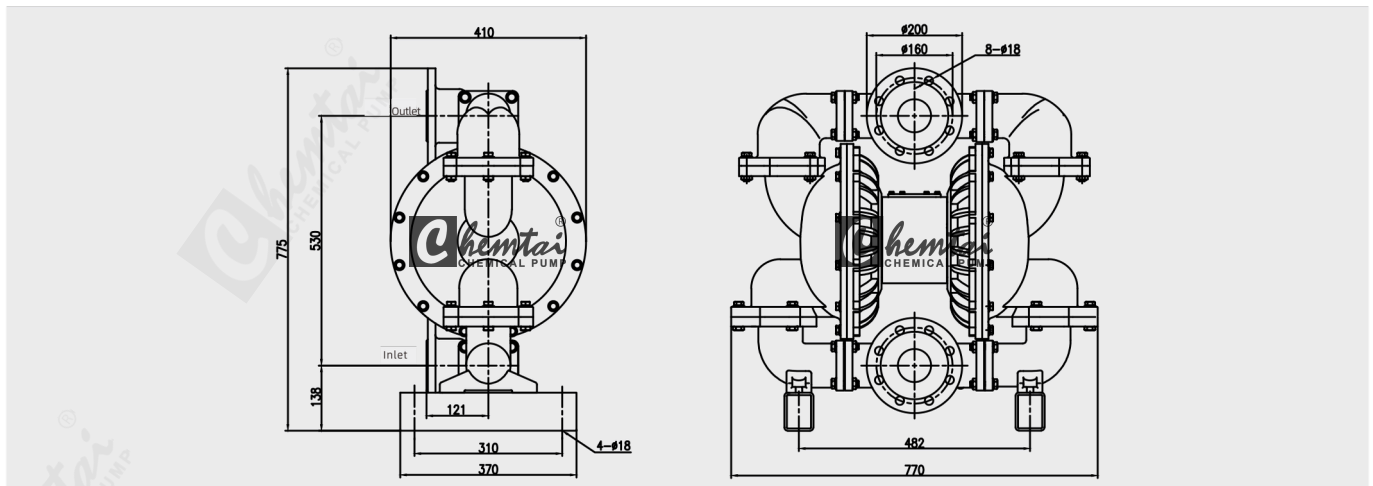
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permitted Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN80

Performance Curves

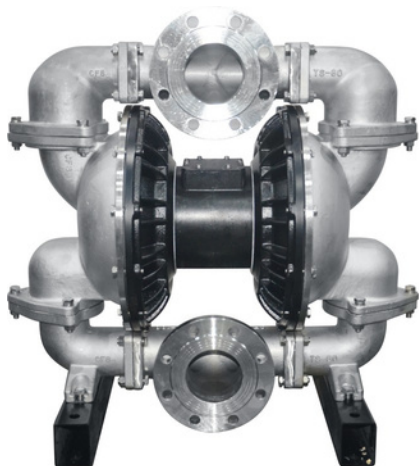


Installation Size Map



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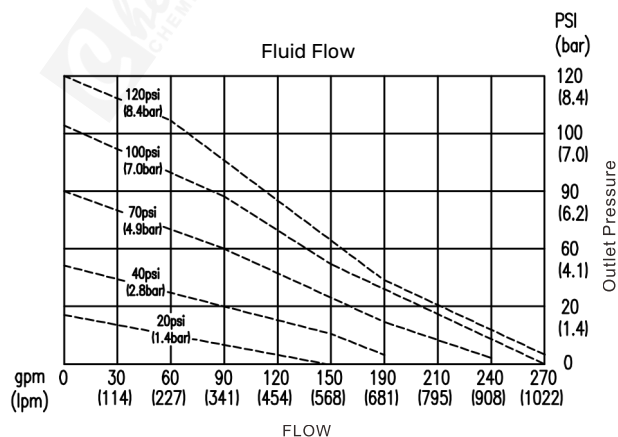
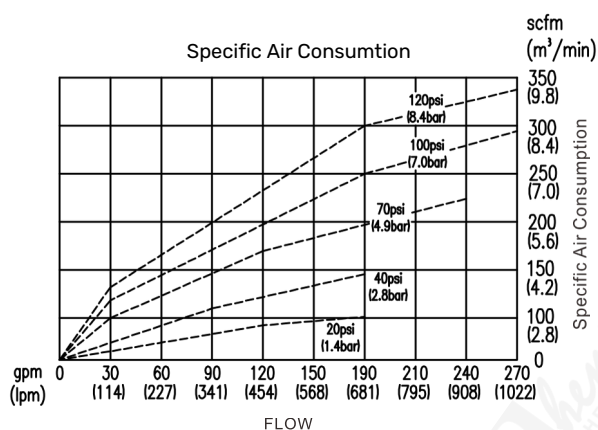
QG-80 Stainless Pump



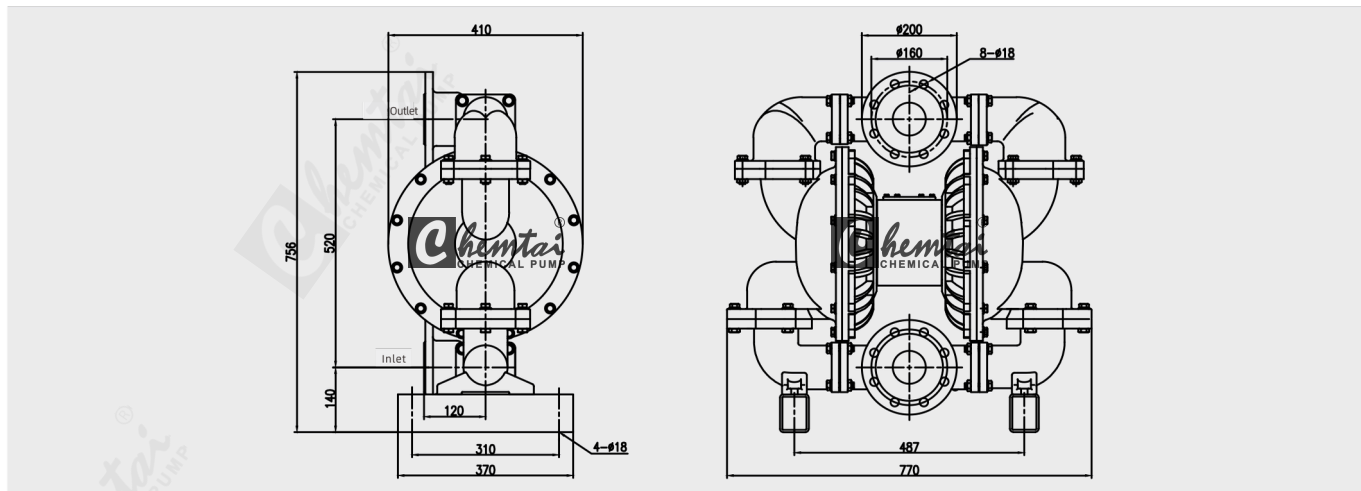
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN80

Performance Curves



Installation Size Map



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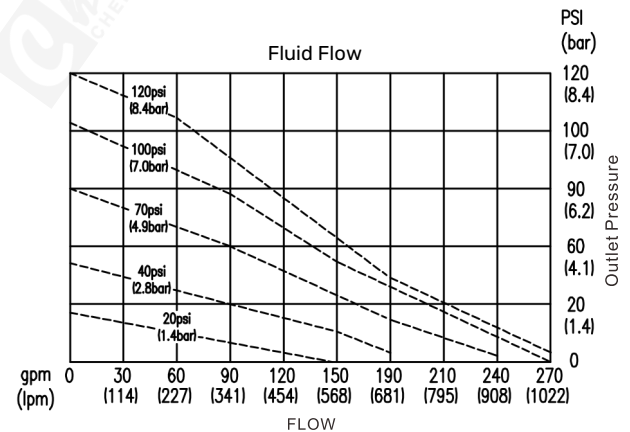
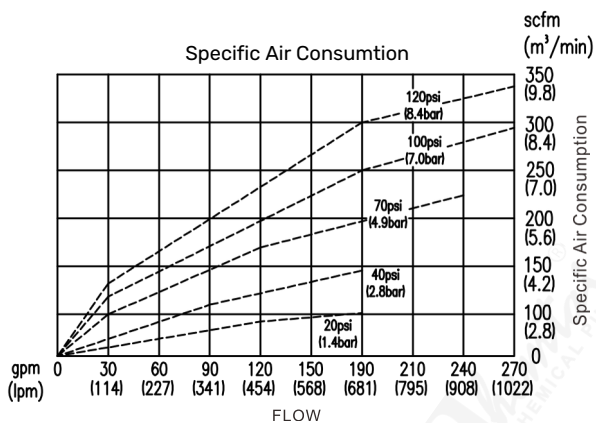
QG-80 Cast-Iron Pump



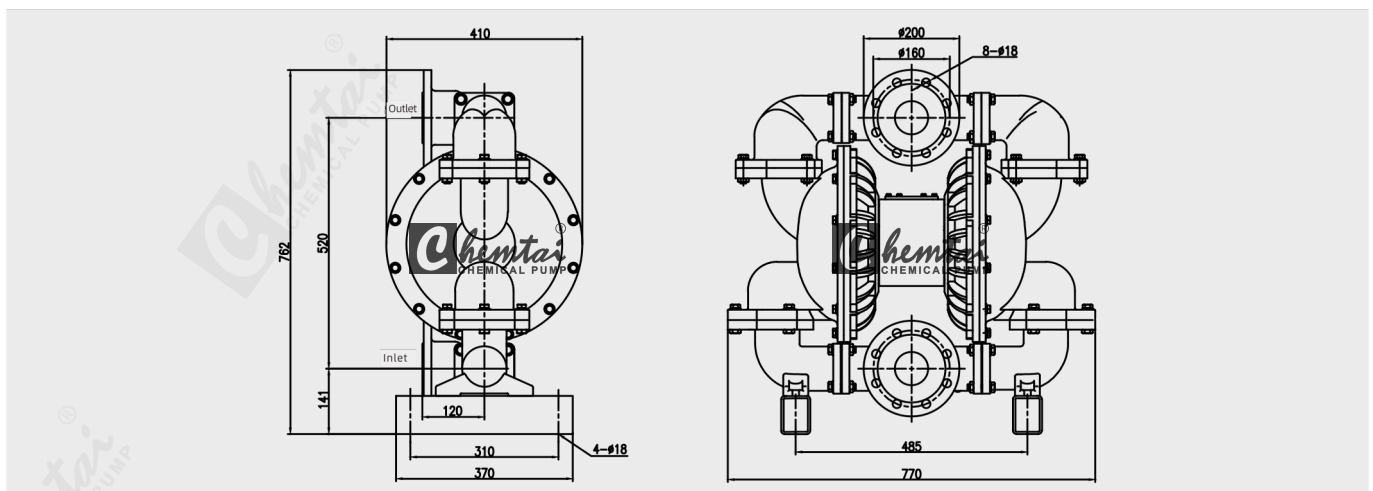
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN80

Performance Curves



Installation Size Map



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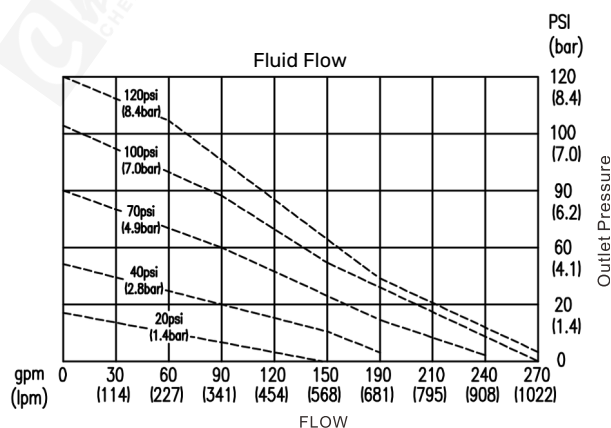
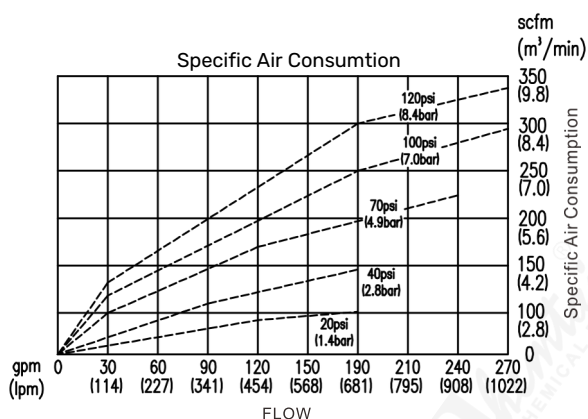
QG-100 Plastic Pump



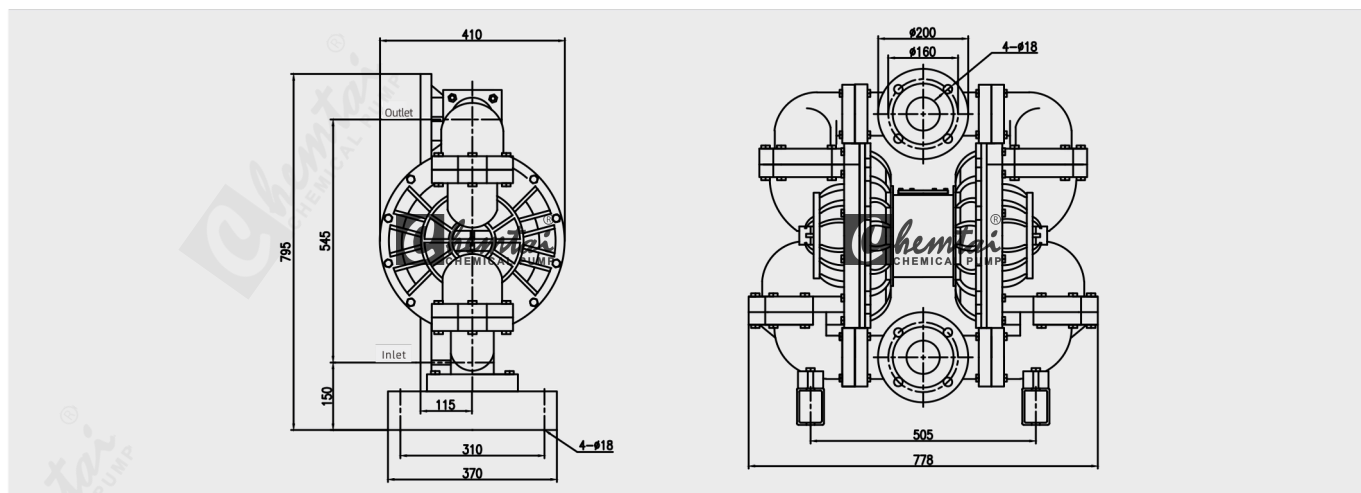
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-3m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN100

Performance Curves



Installation Size Map



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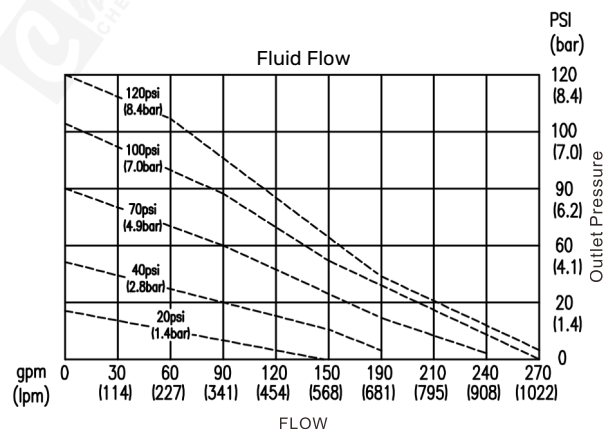
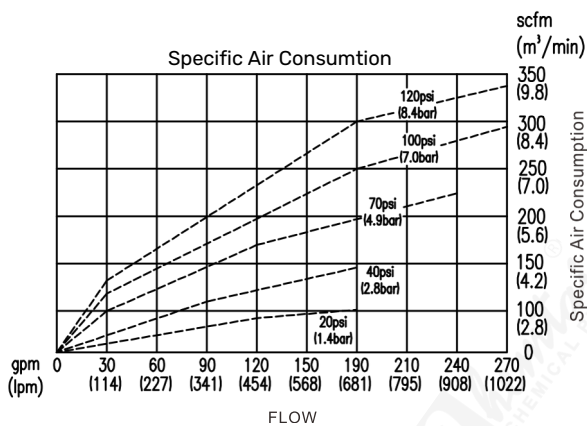
QG-100 Aluminum Pump



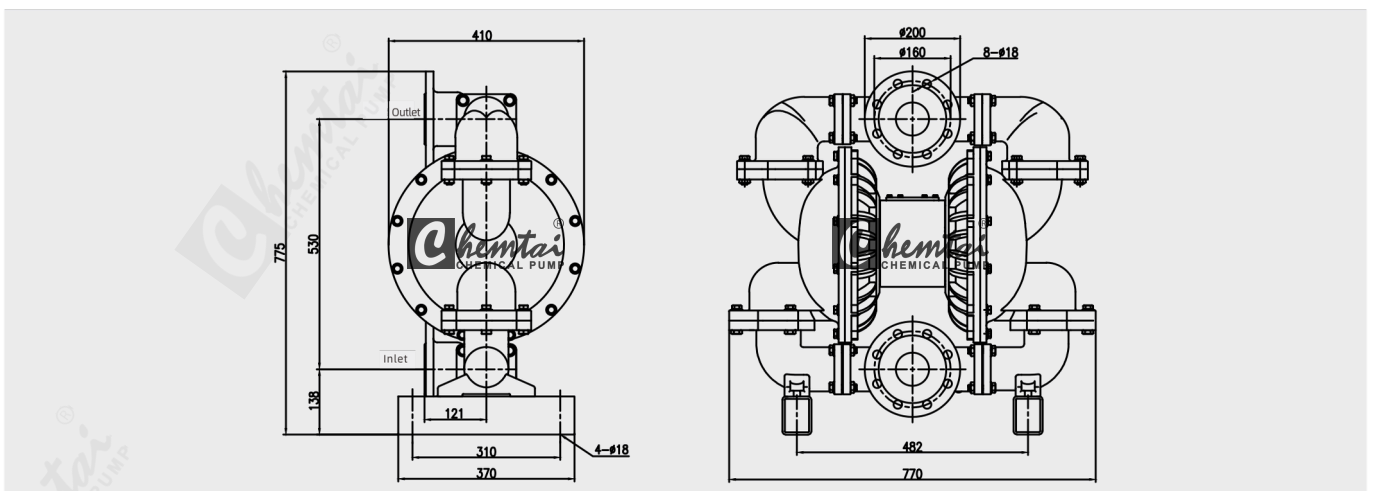
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permitted Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/Outlet Size	DN100

Performance Curves

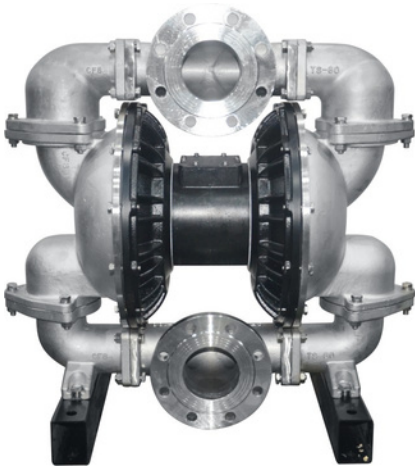


Installation Size Map



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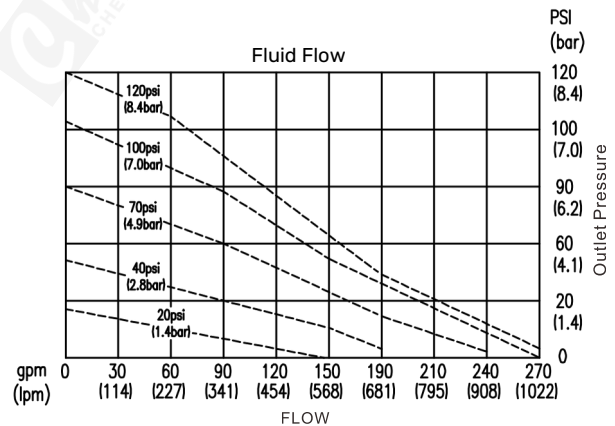
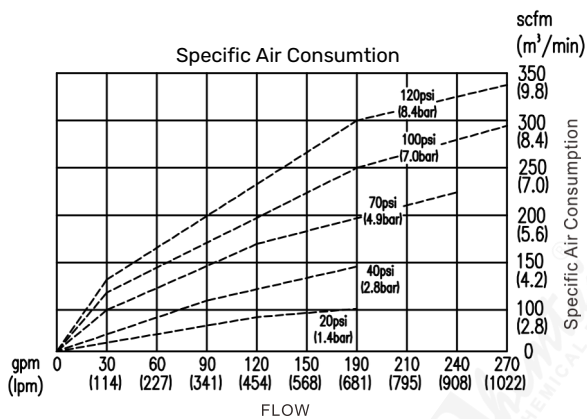
QG-100 Stainless Pump



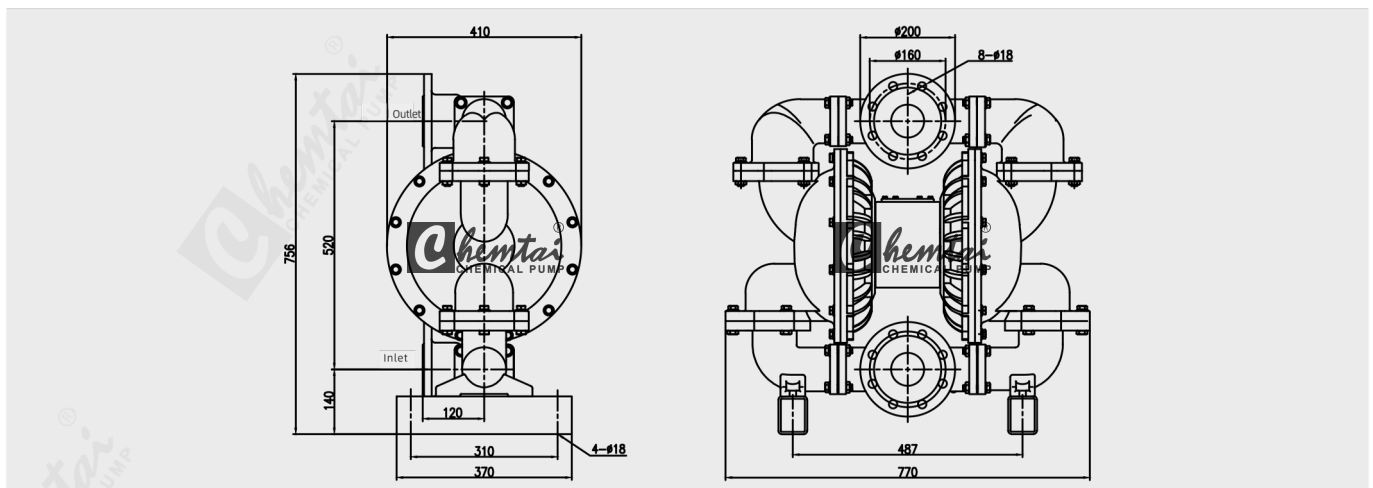
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/outlet Size	DN100

Performance Curves



Installation Size Map



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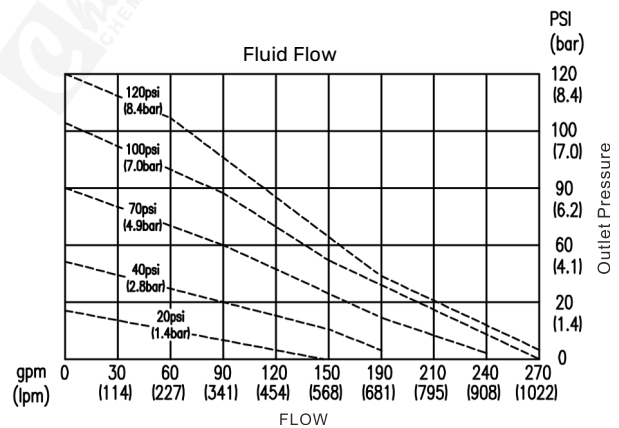
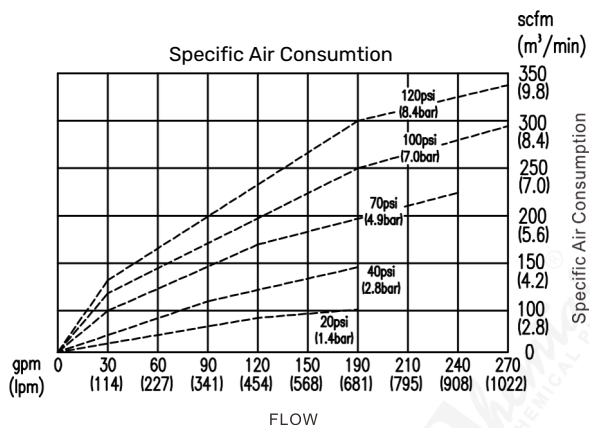
QG-100 Cast Iron Pump



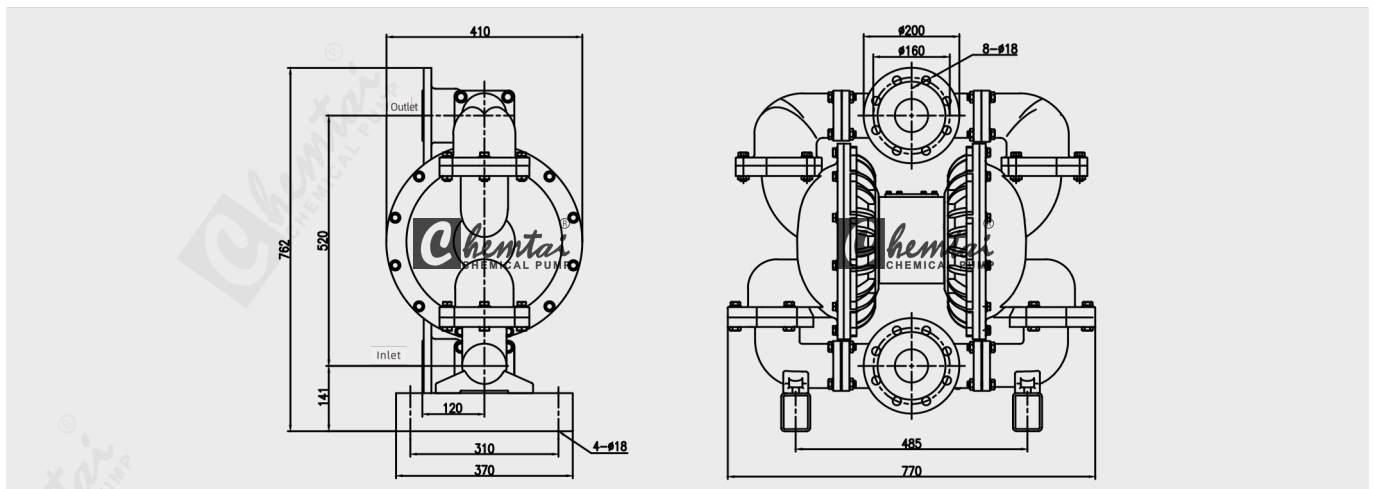
Technical Parameters

Max.Working Pressure	120psi (0.84MPa,8.4bar)
Max.Flow Rate	275gpm (1041lpm)
Suction Height	0-5m
Max.Permiffed Grain	9.4mm
Air Inlet Size	ZG3/4"
Fluid Inlet/outlet Size	DN100

Performance Curves



Installation Size Map



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CORROSION RESISTANCE CHART

Chemical Solution Name	Concentration %	Temperature °C	Body Material			Seal Material			Rubber Material		
			FRPP	CPVC	PVDF / GFR/ETFE	Ceramic	Carbon	Sic	NBR	EPDM	VITON
H₂SO₄ Sulfuric acid	30	40	×	●	●	●	●	●	●	●	●
		60	×	●	●	●	●	●	●	●	●
		80	×	○	●	●	●	●	●	○	●
		95			●	●	●	●			●
	60	40	×	●	●	●	●	●		●	●
		60	×	●	●	●	●	●		●	●
		80	×	△	●	●	●	●		○	●
		95			●	●	●	●			●
	98	40	×	○	●	●	●	●			●
		60	×	△	○	●	●	●			●
		80			●	●	●	●			●
		95			●	●	●	●			●
HCL Hydrochloric acid	25	40	●	●	●	○	●	●		●	●
		60	○	○	●	●	●	●		●	●
		80			●	●	●	●		○	●
	35	40	●	●	●	●	●	●		○	○
		60	○	○	●	●	●	●			
		80			●	●	●	●			
CrO₃ Chromic acid	20	40	×	○	●	●	●	●			●
		60		△	●	●	●	●			●
		80			●	●	●	●			○
HNO₃ Nitric acid	30	40	○	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80	×	×	●	●	○	●			●
	50	40	△	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80			●	●	○	●			●
H₃PO₄ Phosphoric acid	10	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	○	○	●	●	●	●		○	●
	50	40	●	●	●	●	●	●		●	●
		60	●	○	●	●	●	●		○	●
		80	△	△	●	○	●	●		○	●
NaOCl Sodium Hypochlorite	10	40	○	●	●	●	○	●			●
		60	○	○	●	●	△	●			●
		80	△		●	●	×	●			●
CH₃COOH Acetic acid	20	40	●	●	●	●	●	●			×
		60	●	○	●	●	●	●			×
		80	○	△	●	●	●	●			×
HF Hydrofluoric	30	40	×	○	●	×	○	●		●	
		60	×	△	●	×	○	●		●	
		80	×	×	●	×	○	●		○	
HNO₃ + 3HCl Aqua regia	3:1	40	×	△	●	●	×	●	×		○
		60	×	×	●	○	×	●	×		○
		80	×	×	●	●	×	●	×		●
H₂O₂ Hydrogen Peroxide	20	40	●	●	●	●	×	●	×		●
		60	●	○	●	●	×	●	×		●
		80	○	○	●	●	×	●	×		●
NaOH Sodium Hydroxide	45	40	●	○	●	●	×	●	●	●	○
		60	○	△	○	●	×	●	●	●	△
		80	○	×	×	●	×	●	○	○	△
FeCl₃ Ferric chloride	40	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	●	●	●	●	●	●		●	●
Cu(CN)₂ Copper Cyanide		40	●	●	●	△	●	●	●		●
		60	●	●	●	△	●	●	●		●
ZnCl₂ Zinc Chloride		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●
NiSO₄ Nickel Sulfate		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●

● : Excellent ○ : Good △ : Not Good × : Bad



A new level of pump performance.

Expanded field of application owing
to improved corrosion resistance.

