

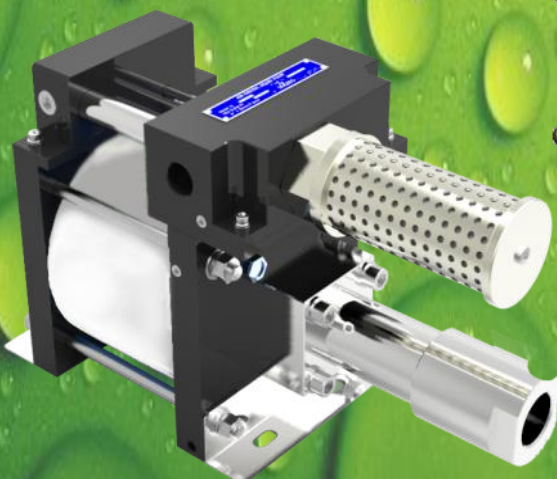
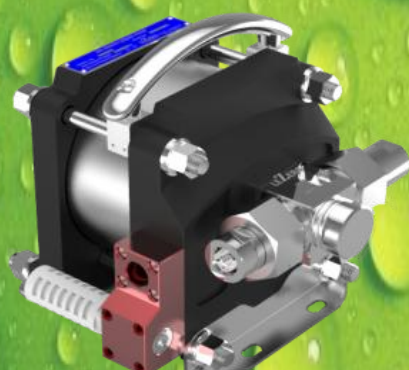
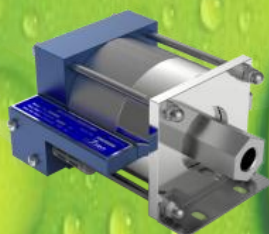


RELIABILITY

Ultra High-Pressure Technology

Air Driven Liquid Pump

Max 60,000 Psi(4,000 bar)



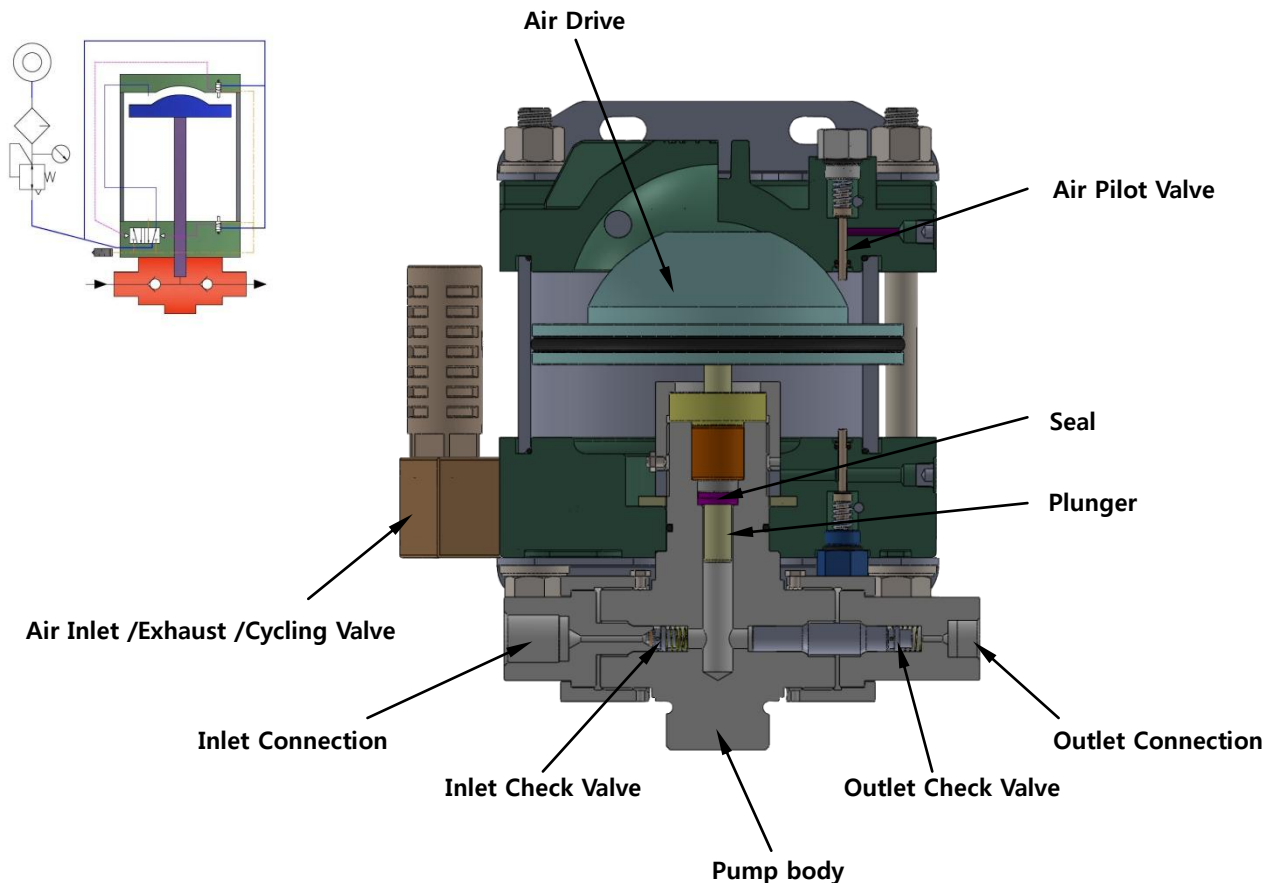
QUALITY

ADVANTAGES OF THE LEZERO

- *Air Drive Line Lubrication Not Required.*
- *Does not require electrical connection.*
- *High pressure capability - up to 60,000 psi*
- *Easy & Safe Operation.*
- *Compact, light-weight and weatherproof.*
- *Easy to adapt automatic controls.*
- *Simple maintenance.*
- *Ideal for stop-start applications under full load.*
- *Easy installation*

SAFETY

Principle of Operation



LEZERO Co., Ltd. is a professional high-tech company that combines High Pressure Unit design, manufacturing and maintenance. We own strong ability of R & D and advanced equipment for manufacturing and testing. We sincerely hope that our products will contribute to develop in every field of industry.

LEZERO PUMP is a comprehensive range of air driven liquid Pumps [Up to 60,000psi (4000bar) capability].

Compact size and light weight is able to operate in various environments. The pumps convert simple air pressure into ultra-high liquid pressures by utilizing a large area piston on the air side to move a small area plunger and compressing the liquid into very high liquid pressures.

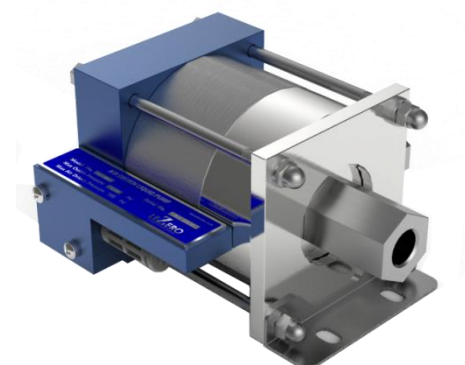
The Pumps will be driven automatically when a simple air pressure (1.5 to 10bar) is applied to the drive. (Normal using simple air pressure: 3 to 7bar). The principal of operation is very similar with reciprocating amplifier. The pumps will start cycling at its maximum speed thus producing maximum fluid flow. The number of cycle will be slowdown when the pressure is built up. The pump stops automatically when out pressure balances with the incoming air drive pressure times the ratio. The pump will automatically restart cycling when the outlet pressure is slight dropped or the air drive pressure will be increased.

Application

- Testing
 - Hydraulic/ Tensile/ Pressure etc
- Water blasting
- Aviation and Automotive Testing
- Brake fluid, skydrol, transmission fluid
- Holding/clamping
- Jacking/lifting
- Valve actuator control
- Chemical Fluid Transfer and Pressurization.

Air Driven Liquid Pumps

Single Acting, Single Drive



LZS3 - 220

P - W

Ratio

8	8.2
12	12.1
25	25
80	79
220	227.8

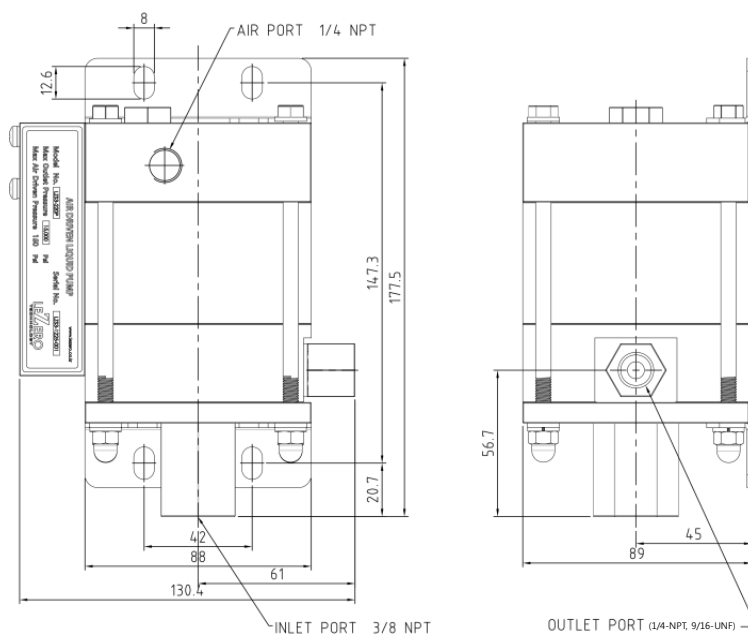
Fluid

W	Water
O	Oil

Specification

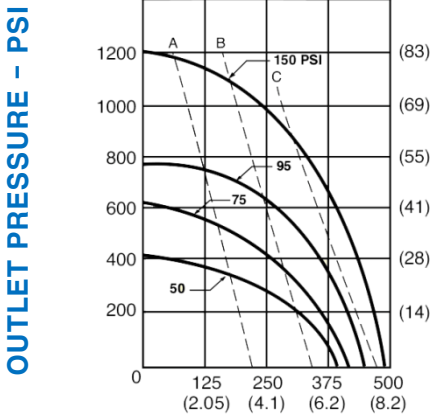
Model	Ratio	Max Outlet Pressure(Psi)/bar		Volume Displacement Per Cycle(in ³)/cm ³		Maximum flow/min (cu-in ³)/l		Conneting Port	
								Inlet	Outlet
LZS3	8	1,100	75	0.714	11.693	360	5.8	3/8" NPT	1/4" NPT
	12	1,700	110	0.481	7.890	240	3.9	3/8" NPT	1/4" NPT
	25	3,600	250	0.233	3.818	116	1.9	3/8" NPT	1/4" NPT
	80	11,600	800	0.074	1.208	37	0.6	3/8" NPT	1/4" NPT
	220	25,000	1,720	0.026	0.419	13	0.2	3/8" NPT	9/16-18 UNF

Dimension



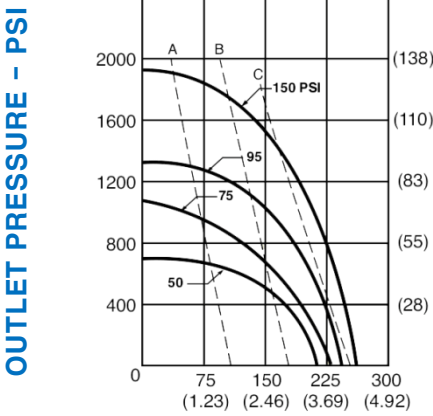
Flow Chart

LZS3-8P



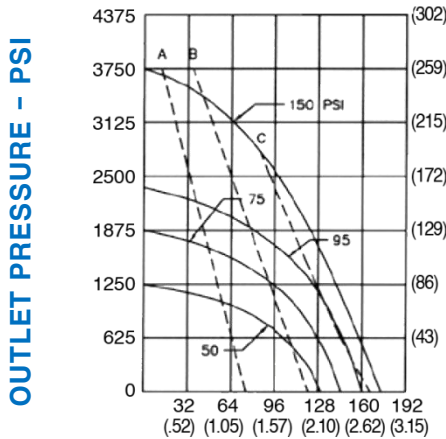
FLOW RATE · IN/MIN

LZS3-12P



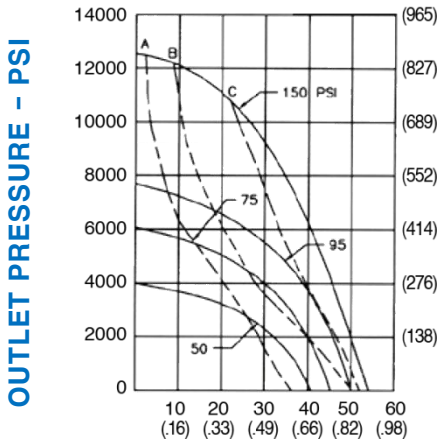
FLOW RATE · IN/MIN

LZS3-25P



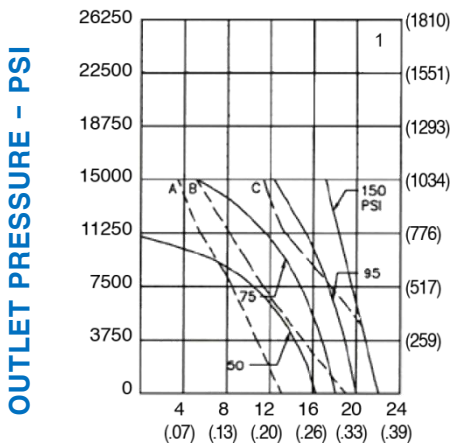
FLOW RATE · IN/MIN

LZS3-80P



FLOW RATE · IN/MIN

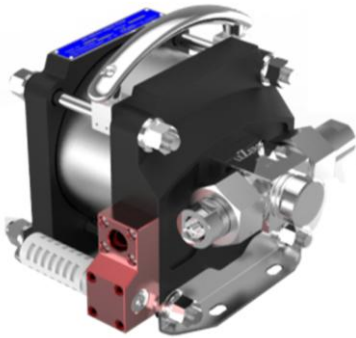
LZS3-220P



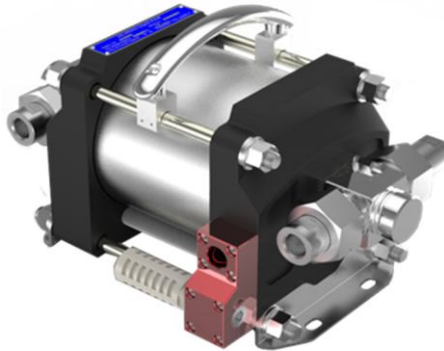
FLOW RATE · IN/MIN

Air Driven Liquid Pumps

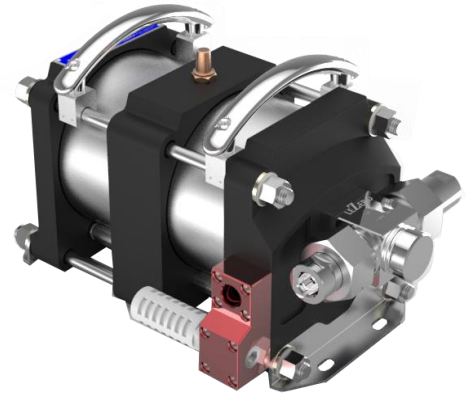
LZS5



LZD5



LZT5



How to Oder

LZ S 5 - 150 P - W

Type

S	Single Acting, Single Air Drive
D	Single Acting, Double Air Drive
T	Double Acting, Single Air Drive

Fluid

W	Water
O	Oil
CH	Chemical

S & D-Type Ratio

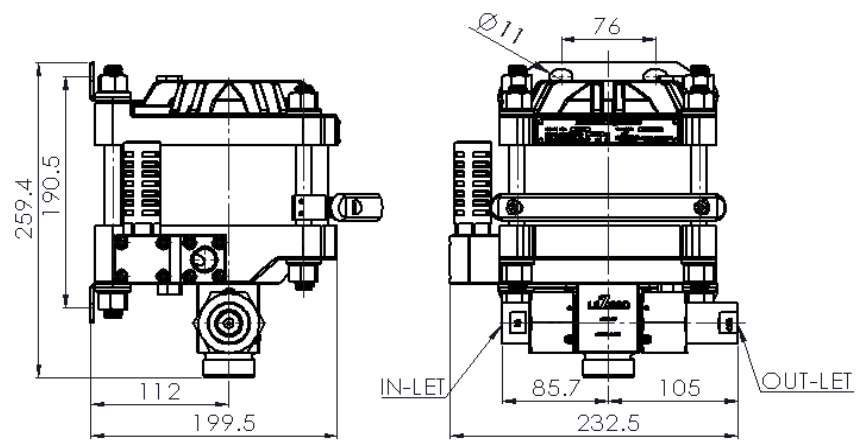
35	39.1
60	56.3
110	114.8
150	186.0
300	277.8
450	459.2

T- Type Ratio

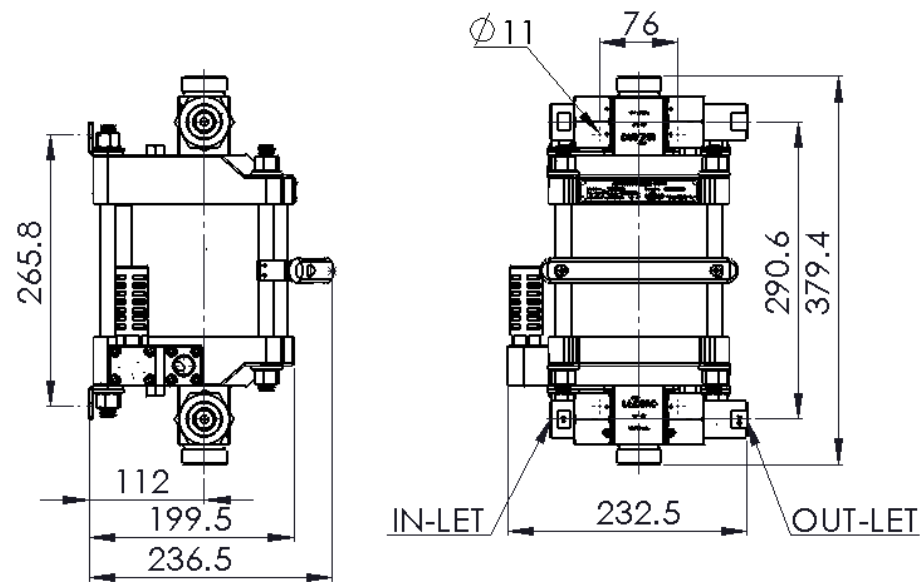
60	78.2
120	112.6
300	372
600	555.6

Dimensions

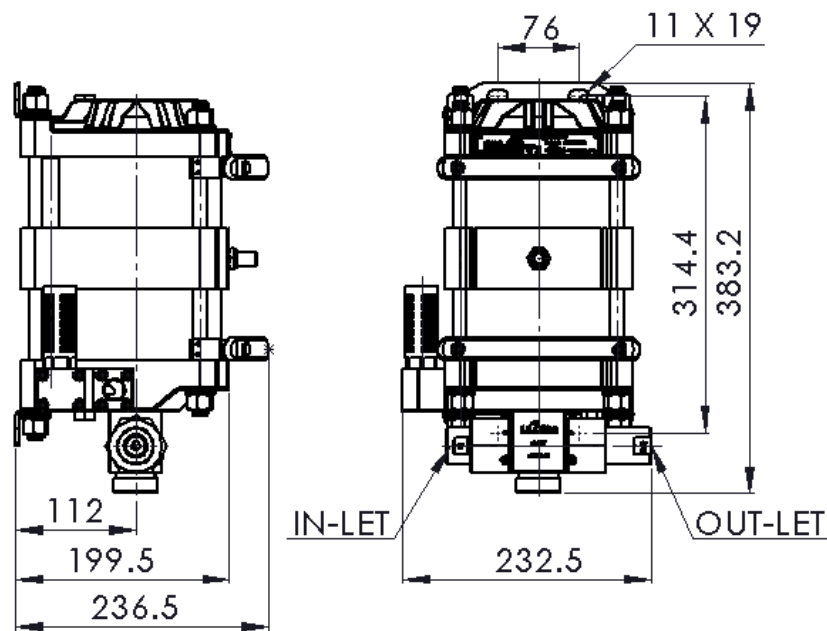
LZS5-***P



LZD5-***P



LZT5-***P



Model Selection Table

LZS5

Type	Model With Ratio	Max Outlet Pressure(Psi)/ bar		Volume Displacement Per Cycle(IN ³)/cm ³ .		Max Cycle Per Min	Liquid port Detail	
							Inlet	Outlet
Single Acting, Single air drive	LZS5-35P	4,300	300	1.4	22.6	120	1/2" NPT	1/2" NPT
	-60P	8,000	500	0.96	15.7	120	1/2" NPT	1/2" NPT
	-110P	16,500	1,100	0.47	7.7	150	1/2" NPT	1/2" NPT
	-150P	25,000	1,500	0.29	4.7	180	1/2" NPT	9/16-18 UNF
	-300P	40,000	2,500	0.19	3.2	180	1/2" NPT	9/16-18 UNF
	-450P	66,500	4,000	0.12	1.9	180	1/2" NPT	9/16-18 UNF

LZD5

Type	Model With Ratio	Max Outlet Pressure(Psi)/ bar		Volume Displacement Per Cycle(IN ³)/cm ³ .		Max Cycle Per Min	Liquid port Detail	
							Inlet	Outlet
Single Acting, Double Air Drive	LZD5-35P	4,300	300	2.8	45.2	100	1/2" NPT	1/2" NPT
	-60P	8,000	350	1.92	31.4	100	1/2" NPT	1/2" NPT
	-110P	16,500	500	0.94	15.4	120	1/2" NPT	1/2" NPT
	-150P	25,000	1,100	0.58	9.4	150	1/2" NPT	9/16-18 UNF
	-300P	40,000	2,500	0.38	6.4	150	1/2" NPT	9/16-18 UNF
	-450P	66,500	4,000	0.24	3.8	150	1/2" NPT	9/16-18 UNF

LZT5

Type	Model With Ratio	Max Outlet Pressure(Psi)/ bar		Volume Displacement Per Cycle(IN ³)/cm ³ .		Max Cycle Per Min	Liquid port Detail	
							Inlet	Outlet
Single Acting, Double Air Drive	LZT5-60P	8,600	600	1.4	22.6	120	1/2" NPT	1/2" NPT
	-120P	33,000	2,200	0.96	15.7	120	1/2" NPT	1/2" NPT
	-300P	50,000	3,000	0.29	4.7	180	1/2" NPT	9/16-18 UNF
	-600P	80,000	5,000	0.19	3.2	180	1/2" NPT	9/16-18 UNF

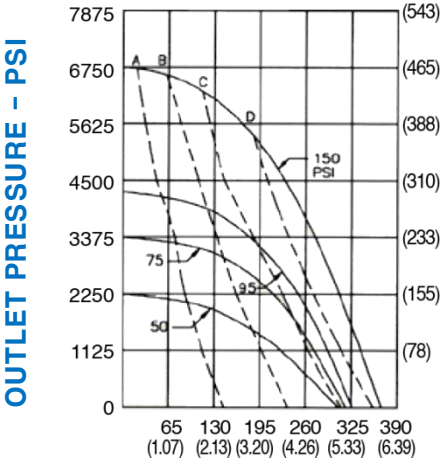
** The products' dimension could be changed by user requirements for improving the quality **

Materials In Contact with Fluid

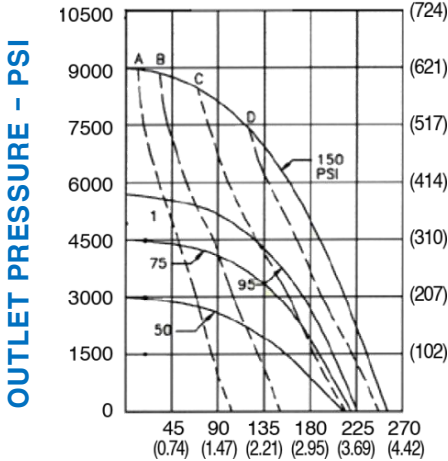
LZ5 Ratio	Water or Hydraulic Pump Body	Water or Hydraulic Pump Plunger	Check Valve		Static O-Ring	Plunger Seal
			Inlet	Outlet		
35-150	17-4 PH	17-4PH	17-4 PH	17-4 PH	NBR	UHMW-PE
300-600	17-4 PH	Stellite	17-4 PH	17-4 PH	NBR	UHMW-PE

Flow Chart

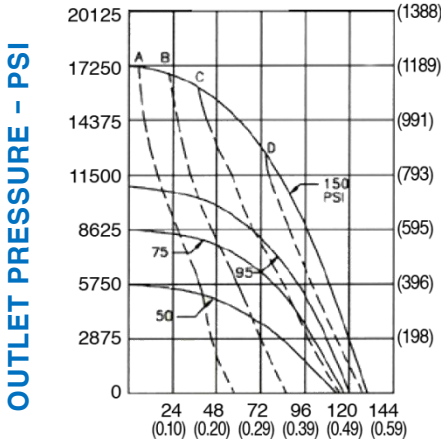
LZS5-35P



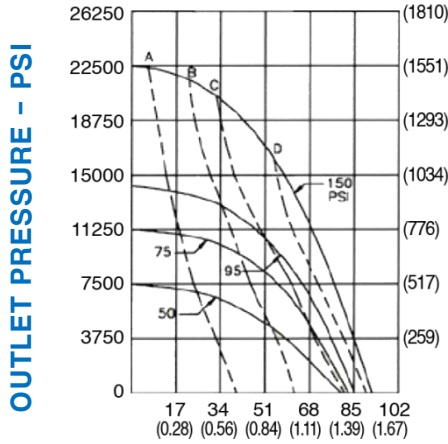
LZS5-60P



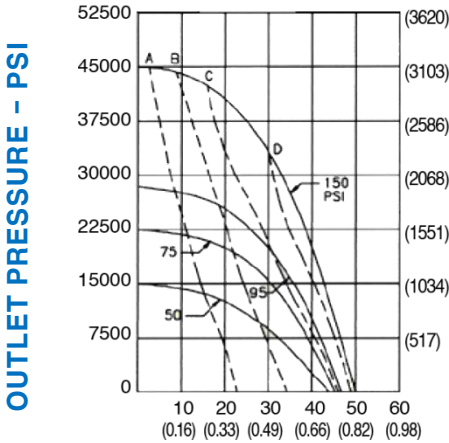
LZS5-110P



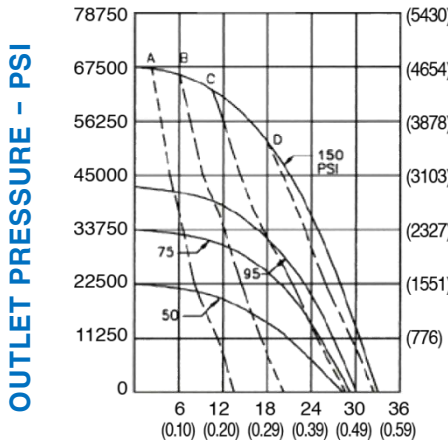
LZS5-150P



LZS5-300P

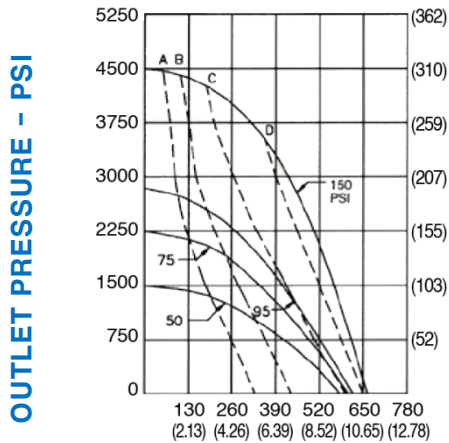


LZS5-450P

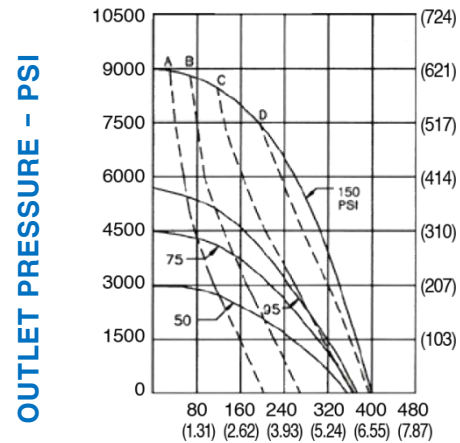


Flow Chart

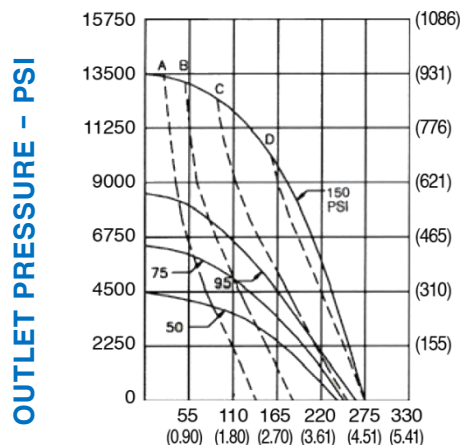
LZD5-35P



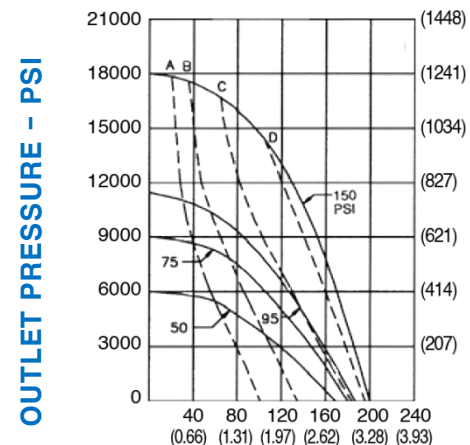
LZD5-60P



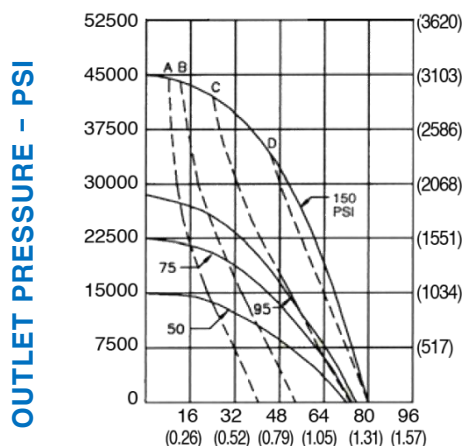
LZD5-110P



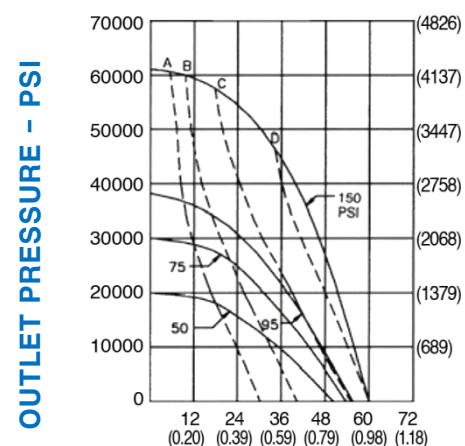
LZD5-150P



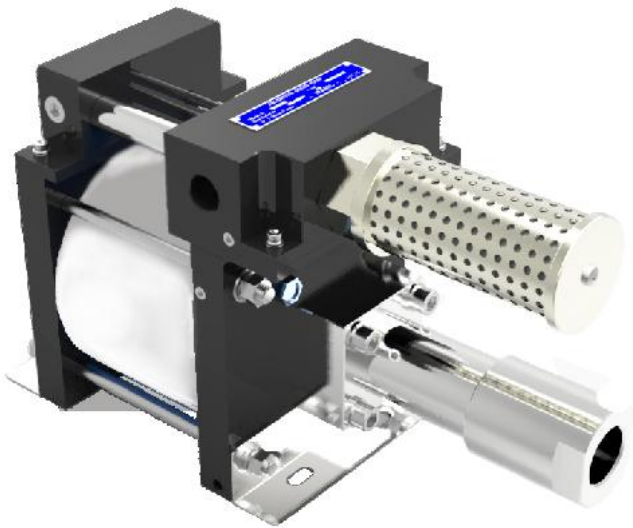
LZD5-300P



LZD5-450P



Air Driven Liquid Pumps



How to Oder

LZ

S

7

-

150

P

-

W

Type

S	Single Acting, Single Air Drive
T	Double Acting, Single Air Drive

Ratio

60	61.2
100	100
200	225

※ Ratio 200 is only being type "t"

Fluid

W	Water
O	Oil

Specification

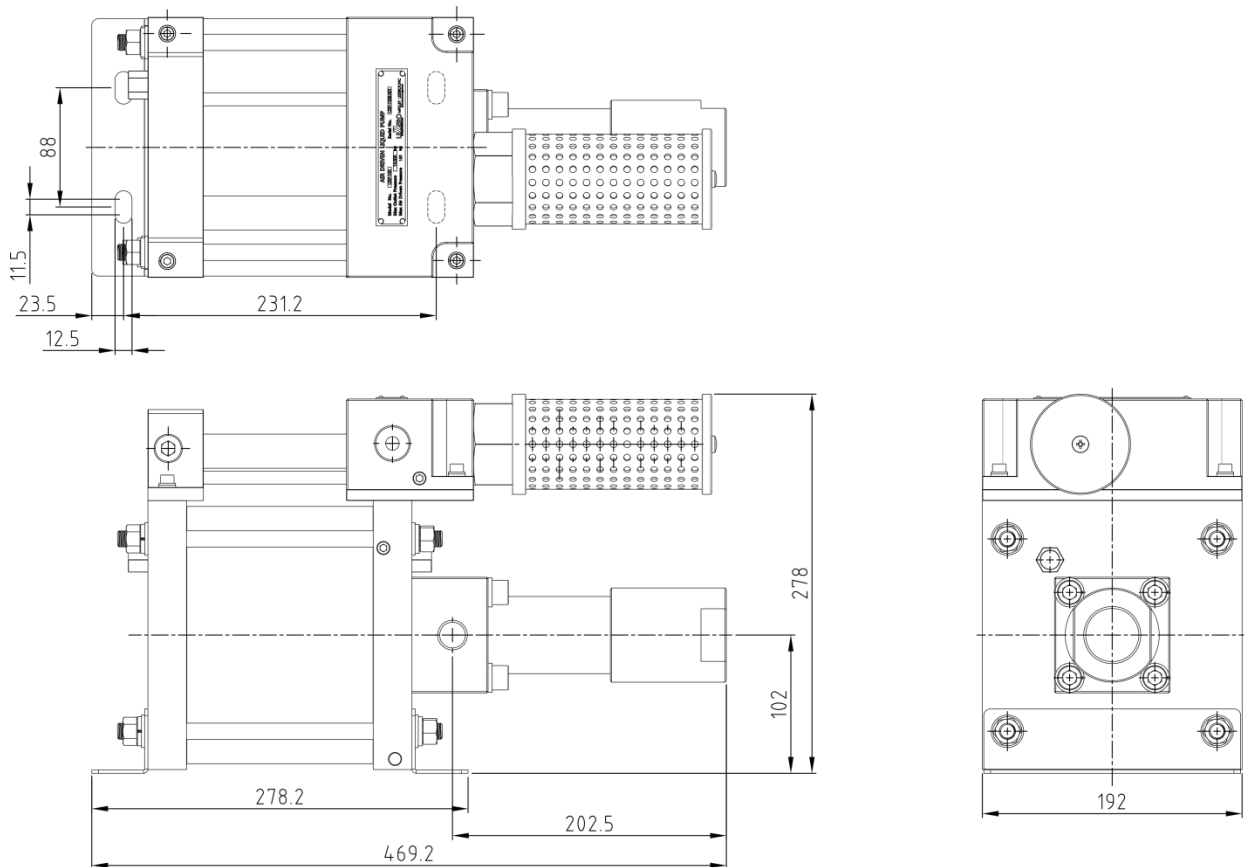
Model	Ratio	Max Outlet Pressure(Psi)/bar		Volume Displacement Per Cycle(in³)/cm³		Maximum flow/min (cu-in³)/cm³		Conneting Port	
								Inlet	Outlet
LZS7	60	6,000	420	2.58	42.4	310	5,080	1-1/4" NPT	1/2 NPT
	100	10,000	700	1.58	25.9	190	3,100	1-1/4" NPT	1/2 NPT
	200	20,000	1,400	1.58	25.9	190	3,100	1-1/4" NPT	13/16-16 UNF

Materials In Contact with Fluid

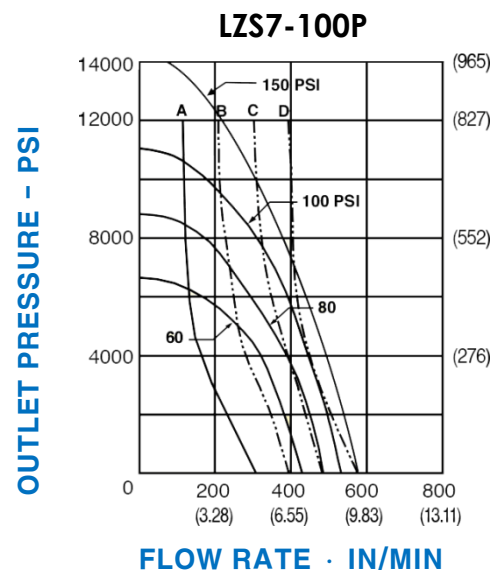
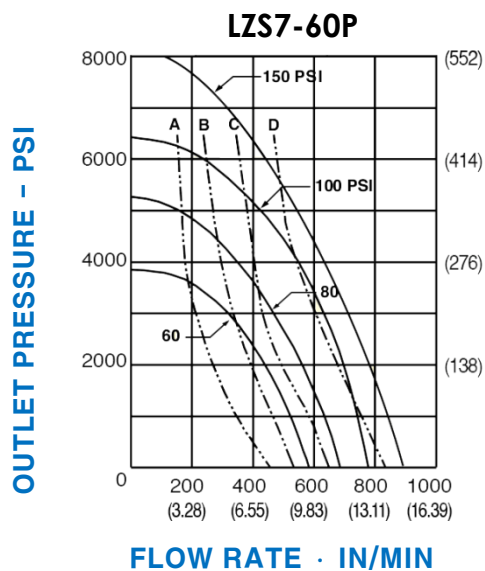
LZS7 Ratio	Water or Hydraulic Pump Body	Water or Hydraulic Pump Plunger	Check Valve		Static O-Ring	Plunger Seal
			Inlet	Outlet		
60-100	17-4 PH	17-4 PH	17-4 PH	17-4 PH	NBR	UHMWPE

Dimension / Flow Chart

Dimension



Flow Chart





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