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Partnership: ACEFLO ENGINEERING PTE LTD www.aceflo.com Reliability

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ISO2858/5199 Std End Suction Back Pull-Out Centrifugal Pump



No.611.19th Street .Watervliet New York 12189.USA www.amegagrp.com

DESIGNED BY AMEGA
PUMPS - MOTORS - SYSTEMS

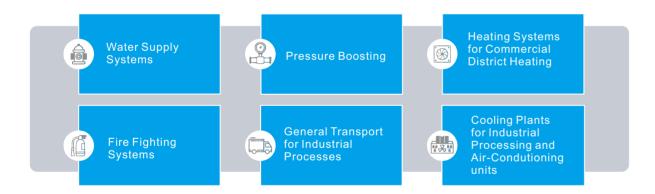




Design & Features

PISO design is in accordance with international standards of ISO2858/5199, which means PISO Series pumps are interchangeable with other similar pumps, conforming to the same standards. This ensures a robust, long lasting, high performing product consumers have come to depend on from Preeminence.

Applications



Model Designation(Examples): PISO 300X250-500

PISO Series 300

Suction(mm)

250

Discharge(mm)

500

Impeller Norminal Diameter(mm)

Design



Design	Performance and dimension as per ISO 2858/5199
Structure	Horizontal ,End suction, Single suction,Volute casing
DN(mm)	Suction size: 50~350, Discharge size: 32~300
Flange	DIN 2501,PN16

Material





Pump parts	Material
Casing / Impeller	Cast iron/Stainless steel
Shaft	Stainless steel
Shaft seal	Mechanical Seal
Bearing lubrication	Grease Life
Bearing Brand	NTN

Operating Data



Speed	Up to 3600rpm
Flow Rate(Q)	Up to 1900m3/h-1450rpm 2430m3/h-1750rpm
Head(H)	Up to 160m
Pressure	PN16 as standard
Liquid Temperature	Up to 105 C



highly efficient cast iron volute casings, with flanges rated to PN1.6MPa (16bar), drilled to ISO7005.2: 1988).

Enlarge Shaft

reduces shaft deflection.

Standard in 420SS, **304SS**&316SS as an option. Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation

Bearings

Heavy duty NTN or approved equivalent, greased for life, reducing maintenance. Protected by a quality manufactured lip seal reducing ingress of moisture or foreign matter. Housed within removable bearing cap cover assembly

Bearing housing

Robust / heavy duty, manufactured in high strength cast iron providing trouble-free life complete with lifting provision and support foot.

Shaft seal

single, high quality John Crane or approved equivalent mechanical seal with **carbon vs ceramic/viton** fitted as standard to all PISO Series pumps with other options such as Silicone vs Silicone or high temp also available.

Wear Ring

Cast Iron wear rings - fitted as standard, replaceable front & rear wear rings with optional materials, for a trouble-free lifecycle.

Casing O-Ring

Re-usable o-rings in Nitrile for ease of re-assembly

Tappings

Convenient suction & discharge pressure gauge tappings plus volute drain, fitted as standard to all **PISO** Series pumps.

Painting

Prior to painting, the pump is thoroughly cleaned of foreign material. The pump is then painted with a high quality/ undercoat/ primer and industrial enamel paint.

Accessories

Drive

The pump is only recommended for direct drive via a flexible spacer coupling. Spacer couplings enable the utilization of the back pull out feature.

Where belt drives are necessary a separate jack (intermediate) shaft with bearings to carry the belt loads may be required.

All drive systems, where supplied by **PASON PUMP** are appropriately protected by suitable guards.

Pump Selection

For pump selection the hydraulic performance curves should be used. These curves are based on water at 15°C and SG equal to 1.0.

NPSH values are indicated on the performance curves. At least 0.5m should be added as a safety margin

To overcome variations between actual and design requirements it is recommended that the driver power exceeds the absorbed pump shaft power.

Absorbed Pump Shaft kW	Driver Power Reserve
up to 7.5	Approx. 20%
7.5~40	Approx. 15%
Above 40	Approx. 10%

Impeller

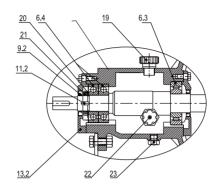
Cast Iron/SS304/SS316 impeller-fitted as standard, in a closed design is fitted as standard to prevent corrosion in stationary or inactive situations. he use of 3-D solid model (CAD) Computer Aided Design and (CFD) Computational Fluid Dynamics ensures **high efficiencies**, reducing overall running costs. Impeller diameters can be trimmed to suit specified performance. PISO impellers are dynamically balanced, providing smooth, vibration free operation, preventing premature bearing failure.

Back pull-out design - allowing for easy removal of rotating element without disturbing the pipework, lagging or pump volute casing. This is proven to reduce downtime whilst performing routine maintenance.

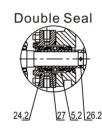
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Section Drawing

Optional-Heavy Duty

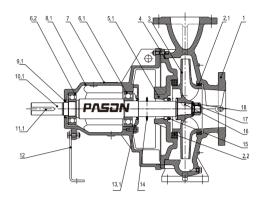






S/N	Part Name
1	Pump Casing
2.1/2.2	Wear Ring
3	Impeller
4	O-Ring
5.1	Casing Cover
5.2	Casing Cover (Double Mech seal)
5.3	Casing Cover (Gland Packing)
5.4	Casing Cover (Cartridge seal)
5.5	Casing Cover (Dynamic seal)
6.1/6.2	Deep groove ball bearing
6.3	Cylindrical roller bearing
6.4	Angular contact ball bearing
7	Nameplate
8	Bearing Housing
9	Oil Seal
10	Shaft
11	Impeller Key
12	Support Foot
13	Bearing cover
14	Slinger

Standard--Single seal







S/N	Part Name
15	Single mechanical seal
16	Woodruff key
17	Impeller Washer
18	Impeller Nut
19	Oil hole cover
20	Tab washer
21	Nut
22	Oil indicator
23	Drain plug
24.2	seal Gland
26.2	Mech.shaft sleeve
26.3	Packing. Shaft Sleeve
27	Double mechanical seal
28	Packing Gland
29	Gland Packing
30	Lantern Ring
31	Cartridge seal
32	Seal plate
33	Vice impeller



Intalling Dimensions-1



Drive Shaft Dimensions

Service Connections

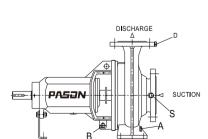
Shaft No	ød			t
1	24	50	8	27
2	32	80	10	35
3	42	110	12	45
4	48	110	14	51.5
5	65	140	18	69
6	75	170	20	79.5

Flange Connecting Dimension(ISO 2084,PN16)

DN	ød	øk	ØD	n	øS
32	76	100	140	4	18
40	84	110	150	4	18
50	99	125	165	4	18
65	118	145	185	4	18
80	132	160	200	8	18
100	156	180	220	8	18
125	184	210	250	8	18
150	211	240	285	8	22
200	266	295	340	12	22
250	319	355	405	12	26
300	370	410	460	12	26
350	429	470	520	16	26

Notes: 1. Optional Flange: AS2129-1982, ANSI 16.1-1975, JISB 2210-1984

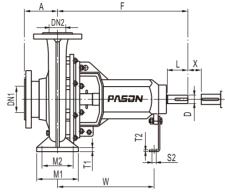
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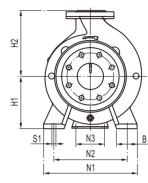


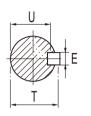
				S		
Pump Model	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain		
50X32-160	1/4	3/8	1/4	1/4		
50X32-200	1/4	3/8	1/4	1/4		
65X40-200	1/4	3/8	1/4	1/4		
65X40-250	1/4	3/8	1/4	1/4		
65X40-315	1/4	3/8	1/4	1/4		
65X50-160	1/4	3/8	1/4	1/4		
80X50-200	1/4	3/8	1/4	1/4		
80X50-250	1/4	3/8	1/4	1/4		
80X50-315	1/4	3/8	1/4	1/4		
80X65-160	1/4	3/8	1/4	1/4		
100X65-200	1/4	3/8	1/4	1/4		
100X65-250	1/4	3/8	1/4	1/4		
100X65-315	1/4	3/8	1/4	1/4		
100X80-160	1/4	3/8	1/4	1/4		
125X80-400	1/4	3/8	1/4	1/4		
125X100-200	1/4	3/8	1/4	1/4		
125X100-250	1/4	3/8	1/4	1/4		
125X100-315	1/4	3/8	1/4	1/4		
125X100-400	1/4	3/8	1/4	1/4		

Pump Model	Casing Drain	Housing Drain	Gauge Drain	Gauge Drain		
125X100-500	3/8	3/8	3/8	3/8		
150X125-250	1/4	3/8	1/4	1/4		
150X125-315	1/4	3/8	1/4	1/4		
150X125-400	1/4	3/8	1/4	1/4		
150X125-500	3/8	3/8	3/8	3/8		
200X150-315	3/8	3/8	3/8	3/8		
200X150-400	3/8	3/8	3/8	3/8		
200X150-500	3/8	3/8	3/8	1/4		
250X200-200	3/8	3/8	3/8	3/8		
250X200-250	1/2	3/8	1/2	1/2		
250X200-315	3/8	3/8	3/8	3/8		
250X200-400	3/8	3/8	3/8	3/8		
250X200-500	1/2	3/8	1/2	1/2		
300X250-250	1/2	3/8	1/2	1/2		
300X250-315	3/8	3/8	3/8	3/8		
300X250-400	1/2	3/8	1/2	1/2		
300X250-500	1/2	3/8	1/2	1/2		
350X300-400	1/2	3/8	1/2	1/2		
350X300-500	1/2	3/8	1/2	1/2		

Intalling Dimensions-2



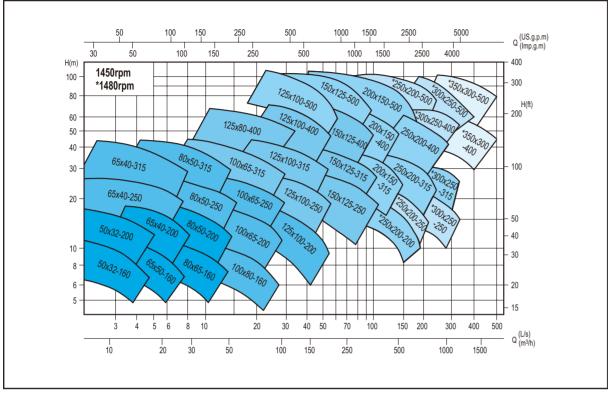


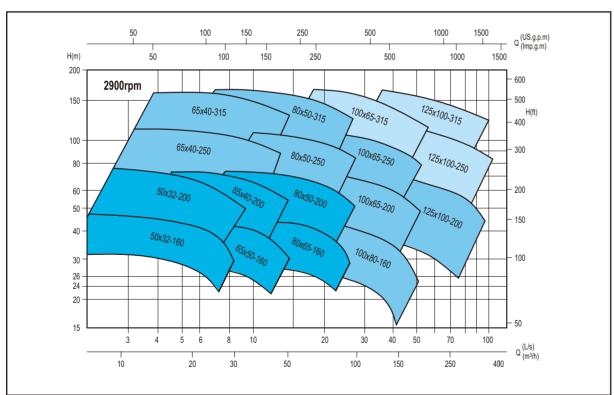


N1 N1																									
Pump Model Stratt						ump Dimensions Foot Dimensions E								Bolt	Holes	Shaft End					Spacer	Net.			
	No.	DN1	DN2	Α	F	H1	H2	В	М1	M2	N1	N2	N3	W	T1	T2	S1	S2	D	L	Т	Ε	U	X≥	Weight
50X32-160	1	50	32	80	385	132	160	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	38
50X32-200	1	50	32	80	385	160	180	50	100	70	240	190	110	285	12	6	M12	M12	24	50	27	8	20	100	46
65X40-200	1	65	40	100	385	160	180	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	48
65X40-250	2	65	40	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	100	70
65X40-315	2	65	40	125	500	200	250	65	125	95	345	280	110	370	16	6	M12	M12	32	80	35	10	27	100	80
65X50-160	1	65	50	80	385	132	160	50	100	70	240	190	110	285	11	6	M12	M12	24	50	27	8	20	100	40
80X50-200	1	80	50	100	385	160	200	50	100	70	265	212	110	285	13	6	M12	M12	24	50	27	8	20	100	52
80X50-250	2	80	50	125	500	180	225	65	125	95	320	250	110	370	15	6	M12	M12	32	80	35	10	27	100	72
80X50-315	2	80	50	125	500	225	280	65	125	95	345	280	110	370	18	6	M12	M12	32	80	35	10	27	100	87
80X65-160	1	80	65	100	385	160	180	50	100	70	265	212	110	285	11	6	M12	M12	24	50	27	8	20	100	46
100X65-200	2	100	65	100	500	180	225	65	125	95	320	250	110	370	14	6	M12	M12	32	80	35	10	27	140	70
100X65-250	2	100	65	125	500	200	250	80	160	120	360	280	110	370	16	6	M16	M12	32	80	35	10	27	140	80
100X65-315	3	100	65	125	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	142
100X80-160	2	100	80	100	500	160	200	65	125	95	280	212	110	370	14	6	M12	M12	32	80	35	10	27	100	68
125X80-400	3	125	80	125	530	280	355	80	160	120	435	355	110	370	20	6	M16	M12	42	110	45	12	37	140	165
125X100-200	2	125	100	125	500	200	280	80	160	120	360	280	110	370	17	6	M16	M12	32	80	35	10	27	140	85
125X100-250	3	125	100	140	530	225	280	80	160	120	400	315	110	370	18	6	M16	M12	42	110	45	12	37	140	126
125X100-315	3	125	100	140	530	250	315	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	135
125X100-400	3	125	100	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	175
125X100-500	4	125	100	160	670	355	450	100	200	150	550	450	110	500	25	10	M20	M16	48	110	51.5	14	42.5	180	338
150X125-250	3	150	125	140	530	250	355	80	160	120	400	315	110	370	19	6	M16	M12	42	110	45	12	37	140	140
150X125-315	3	150	125	140	530	280	355	100	200	150	500	400	110	370	20	6	M20	M12	42	110	45	12	37	140	150
150X125-400	3	150	125	140	530	315	400	100	200	150	500	400	110	370	21	6	M20	M12	42	110	45	12	37	140	186
150X125-500	4	150	125	160	670	355	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	350
200X150-315	4	200	150	160	670	315	400	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	222
200X150-400	4	200	150	160	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	300
200X150-500	4	200	150	160	670	400	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	382
250X200-200	4	250	200	180	670	315	450	100	200	150	550	450	140	500	22	10	M20	M16	48	110	51.5	14	42.5	180	345
250X200-250	5	250	200	180	885	315	450	100	200	150	550	450	180	670	25	12	M24	M16	65	140	69	18	58	250	490
250X200-315	4	250	200	180	670	315	450	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	277
250X200-400	4	250	200	180	670	355	500	100	200	150	550	450	140	500	25	10	M20	M16	48	110	51.5	14	42.5	180	340
250X200-500	5	250	200	225	885	400	580	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	600
300X250-250	5	300	250	225	885	355	560	125	250	190	630	500	180	670	24	12	M24	M16	65	140	69	18	58	250	450
300X250-315	4	300	250	225	670	355	500	125	250	190	690	560	180	500	24	12	M20	M16	48	110	51.5	14	42.5	180	350
300X250-400	5	300	250	225	885	450	560	150	250	190	690	560	180	670	28	12	M24	M16	65	140	69	18	58	250	480
300X250-500	5	300	250	225	885	450	630	150	315	250	760	630	180	670	28	12	M24	M16	65	140	69	18	58	250	690
350X300-400	6	350	300	250	975	450	600	180	315	250	760	630	180	730	24	12	M24	M16	75	170	79.5	20	67.5	250	780
350X300-500	6	350	300	250	975	500	650	225	360	270	900	750	180	730	32	12	M30	M16	75	170	79.5	20	67.5	250	910

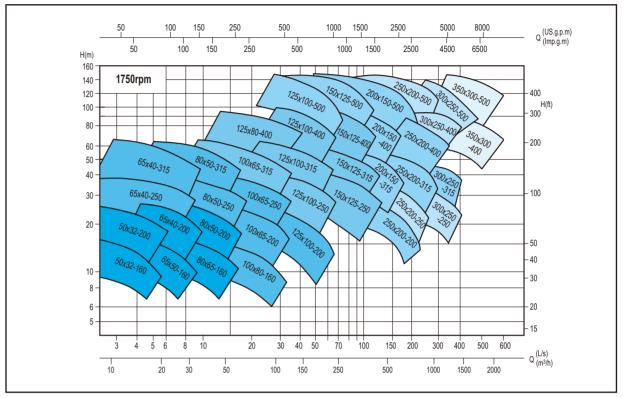
AMEGA PUMPS

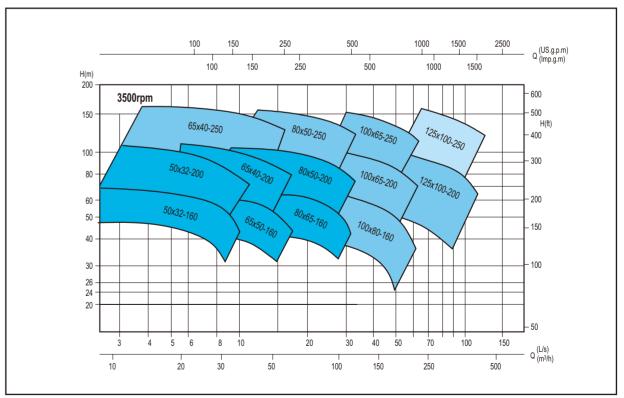
Performance Chart (50Hz)





Performance Chart (60Hz)



















OUR PURSUIT OF QUALITY IS ALWAYS THE SAME.



