

Technical Data Sheet



A SERIES BI ROTATIONAL HYDRAULIC GEAR PUMP

Bi Rotational Gear Pumps

The A series pumps are a spur gear design and have been developed and manufactured to be highly efficient and provide high performance levels and long life. The bi rotational nature of this series enables the ease of fitment to a wide variety of applications while helping to reduce inventory.

Manufactured from high quality resilient SG iron this product is well suited for applications such as cranes, elevated work platforms, hook-lift loaders, tippers and garbage compactors.

Suits:

Medium duty and high pressure applications.

Product Features

- **Hi Pressure up to 280BAR (4060 PSI)**
For maximum performance of hydraulic systems.
- **Bi Rotational**
Allows for installation in any application and a reduction in stock holding.
- **Available With Rear & Side Ports**
Allows for options with hydraulic line placement.
- **Robust & Durable**
Designed for maximum performance.
- **Quieter**
Designed to meet more demanding noise pollution requirements.

POWAUTO

DAVID BROWN
HYDRAULICS

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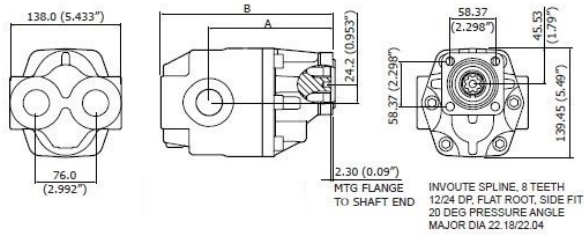
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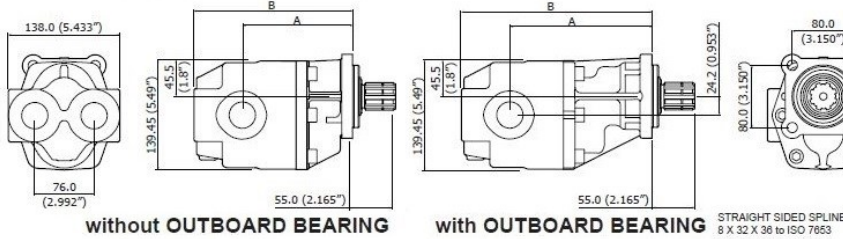
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POWAUTO 08 VERSION



Note: Side Inlet and Outlet Ports are on the same horizontal and vertical centre line

ISO 7653 VERSION



Note: No Axial or Radial Loads are permissible on pumps without an outboard bearing.

PUMP DESIGNATION CODES

A Series

Identifier
PU = Pump

Pump Series
A

Rotation
B = Bi Rotational

Flow @ 1000 RPM
65 = 65 L/min
75 = 75 L/min
90 = 90 L/min
115 = 115 L/min

Porting
R = Rear Porting
S = Side Porting
C = Side and Rear Porting

Input Mounting

Omit = Powauto

23 = DIN 5462 / ISO 7653

23B = DIN 5462 / ISO 7653 with Outboard Bearing

PU A B 90 C 23B

Technical Specifications		Pump Size								
Pump Ratings		15	25	35	45	55	65	75	90	115
		In Development								
Displacement Range	cm ³ /rev	15.0	25.0	35.0	45.0	55.0	65.0	75.0	90.0	115.0
	in ³ /rev	0.92	1.53	2.14	2.75	3.36	3.97	4.58	5.49	7.02
Rated Pressure	bar	250	250	250	250	250	250	230	230	210
	psi	3625	3625	3625	3625	3625	3625	3335	3335	3045
Peak Pressure	bar	280	280	280	280	280	280	260	260	240
	psi	4060	4060	4060	4060	4060	4060	3770	3770	3480
Operating Speeds	Min. Operational	450 RPM						450 RPM		
	Max. Continuous	2000 RPM						2000 RPM		
	Max. Intermittant	2500 RPM						2500 RPM		
Min. Suction Line (I.D)		32mm - 1 1/4"			40mm - 1 1/2"			40mm - 1 1/2"		
Pump Port Sizes		3/4" BSPP			1" BSPP			1 1/4" BSPP		
Powauto Mount	Mass - kg									
	Dim A - mm	142.1	149.2	156.3	151.5	158.6	165.7	149.9	160.6	178.4
	Dim B - mm	178.1	186.2	193.3	200.5	207.6	214.7	221.9	232.6	250.4
DIN 5462 Mount	Mass - kg									
	Dim A - mm	123.6	130.7	137.8	133.0	140.1	147.2	131.4	142.1	159.9
	Dim B - mm	160.6	167.7	174.8	182.0	189.1	196.2	203.4	214.1	231.9
DIN 5462 Mount with Outboard Bearing	Mass - kg									
	Dim A - mm	165.1	172.3	179.4	174.5	181.7	188.8	172.9	183.6	201.5
	Dim B - mm	202.1	209.3	216.4	223.5	230.7	237.8	244.9	255.6	273.5
Seal Kit		With Wear Plates				Without Wear Plates				

Doc: PUAB—12/20

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