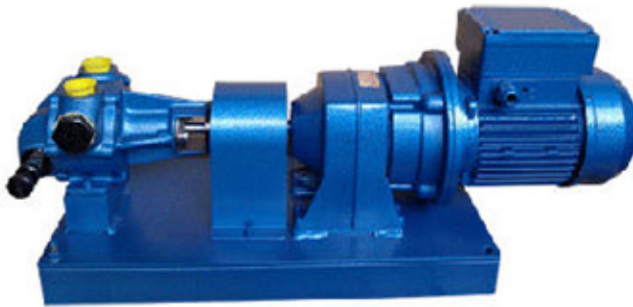




## Rotary Piston Pumps



### Performance:

Flow rate	64 m <sup>3</sup> /h
Pressure	5 bar
Temperature	300 °C
Sizes	3/8" - 6"
Viscosity	20,000 Cst

This series of rotary piston pumps are self-priming pumps with high suction capabilities capable of handling low to high viscosity products at high temperatures. The smooth, low pulsation action of these pumps assures that the nature of the product is not altered during pumping, which makes them excellent at handling shear sensitive products. The most common applications includes thermal oils, vegetable oils, alcohols, gas oils, fuels, asphalt, paints, glues, resins, edible oils, juices and chocolates.

### Technical Features:

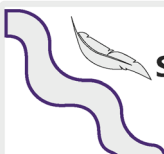
- ✓ High suction capability
- ✓ Self-priming operation
- ✓ Reversible flow
- ✓ High volumetric efficiency regardless of fluid viscosity thanks to piston type action and water tight fitting of the movable parts
- ✓ Robust cast iron, bronze or stainless steel construction
- ✓ Suitable for handling high temperature fluids up to 300°C
- ✓ Suitable for thermal oils including Marlotherm, Duratherm, Paratherm, Multitherm, Mobiltherm and Dowtherm
- ✓ Fixed head models (AX, AXP) or bypass models available for when flow or pressure needs to be regulated (ACC, ACCP)
- ✓ Chamber head models available for maintaining the temperature of the pumped product (ACP, AXP, ACCP)
- ✓ 230v, three phase 50Hz/60Hz motors available
- ✓ V-belt, close coupled and long coupled with gear reducer motor options
- ✓ Available mounted on steel base
- ✓ ATEX approved



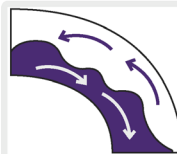
**ATEX RATED**



**MARINE TYPE  
APPROVED**



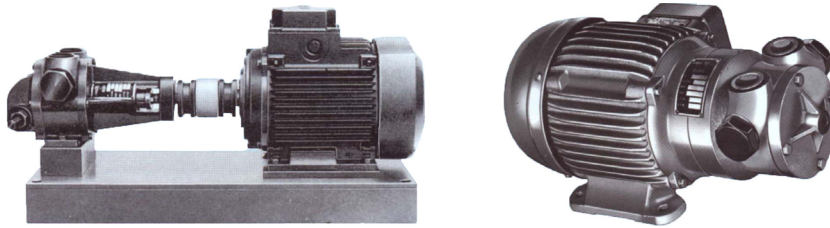
**SMOOTH, LOW  
PULSE FLOW**



**REVERSIBLE  
OPERATION**



Performance - Monoblock and direct groups:

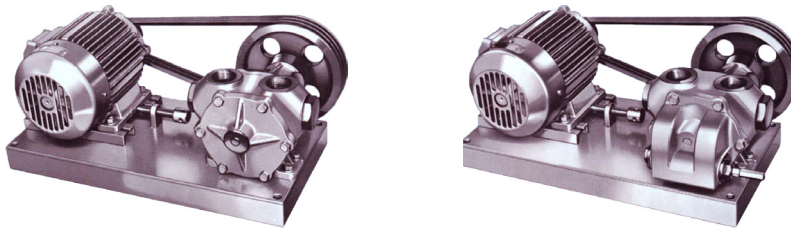


Series	Model	Flow Rate (L/hr)	Height (M)	Power (HP)	RPM	Aperture
100	AXM-001 ACCM-001	800	10	0.50	1450	THREAD 3/8"
			20			
			30			
			40			
			50			
200	AXM-01 ACCM-01	1500	10	0.50	1450	THREAD 3/4"
			20			
			30	0.75		
			40			
			50			
300-M	AXM-1 ACCM-1	2500	10	1	930	THREAD 1"
			20	1.5		
			30	2		
			40			
			50			
300	AX-3 ACC-3	3600	10	1	930	THREAD 1"
			20	1.5		
			30	2		
			40			
			50			
400	AX-13 ACC-13	8500	10	2	930	THREAD 1 1/2"
			20			
			30	3		
			40			
			50			

\*Performance tables calculated at 375 Cst up to 300°C



Performance - Steel base mounted with trapezium belt:

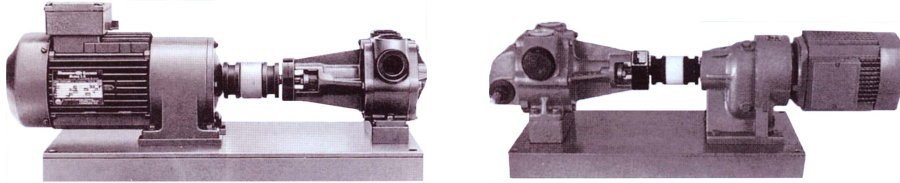


Series	Model	Flow Rate (L/hr)	Height (M)	Power (HP)	RPM	Aperture	
300	AX-1 ACC-1	2500	10	1	580	THREAD 1"	
			20	1.5			
			30	2			
			40				
			50				
400	AX-11 ACC-11	6000	10	2	490	THREAD 1½"	
			20	3			
			30				
			40				
			50				
500	AX-81 ACC-81	15000	10	3	465	THREAD 2½"	
			20	4			
			30	5.5			
			40	7.5			
			50				
600	AX-101 ACC-101	25000	10	5.5	365	THREAD 3½"	
			20	7.5			
			30				
			40				10
			50				15
600-B	AX-101-B ACC-101-B	25000	10	5.5	365	CLAMP 4" DIN-2573	
			20	7.5			
			30				
			40				10
			50				15
700	AX-111 ACC-111	43000	5	5.5	345	CLAMP 5" DIN-2501	
			10	7.5			
			20	10			
			30	15			
			40	15			
800	AX-121 ACC-121	64000	5	7.5	325	CLAMP 6" DIN-2501	
			10	10			
			20	15			
			30	15			
			40	20			
			50	25			

\*Performance tables calculated at 375 Cst up to 300°C



Performance - Motor reducer:



Series	Model	Flow Rate (L/hr)	Height (M)	Power (HP)	RPM	Aperture	
300	AX-4 ACC-4	2500	10	1	580	THREAD 1"	
			20	1.5			
			30	2			
			40				
			50				
400	AX-14 ACC-14	6000	10	2	490	THREAD 1½"	
			20				
			30	3			
			40				
			50				
500	AX-84 ACC-84	15000	10	3	465	THREAD 2½"	
			20	4			
			30	5.5			
			40				
			50				7.5
600	AX-104 ACC-104	25000	10	5.5	365	THREAD 3½"	
			20	7.5			
			30				
			40				10
			50				15
600-B	AX-104-B ACC-104-B	25000	10	5.5	365	CLAMP 4" DIN-2573	
			20	7.5			
			30				
			40				10
			50				15
700	AX-114 ACC-114	43000	5	5.5	345	CLAMP 5" DIN-2501	
			10	7.5			
			20	10			
			30	15			
			40	15			
800	AX-124 ACC-124	64000	5	7.5	325	CLAMP 6" DIN-2501	
			10	10			
			20	15			
			30	15			
			40	20			
			50	25			

\*Performance tables calculated at 375 Cst up to 300°C



**Pump Models:**

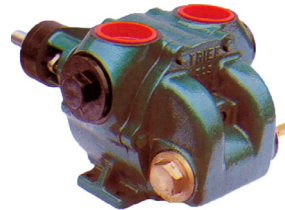
**AX –**

Model has a fixed head for applications that do not require flow or pressure to be regulated.



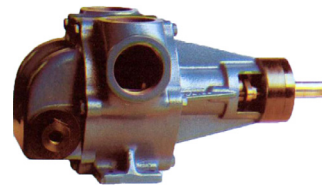
**ACC –**

Comes with bypass head for when regulating flow and pressure is required - also acts as a safety valve.



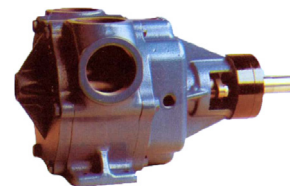
**ACP –**

Version with chamber head to heat/cool pumped product when it is required to maintain the temperature of the product.



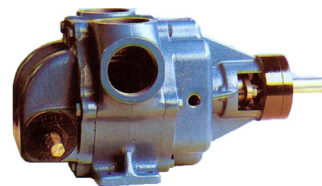
**AXP –**

Model with fixed head meaning flow and pressure can't be regulated, and chamber head to heat/cool pumped product when temperature of product needs to be maintained.



**ACCP –**

Comes with bypass head for regulating flow and pressure and a chamber head to heat/cool pumped product when product temperature needs to be maintained.



**Pump Models - According to assembly:**

**AX-0** – Free axle pump

**AX-1** – Pump on base with trapezium belts

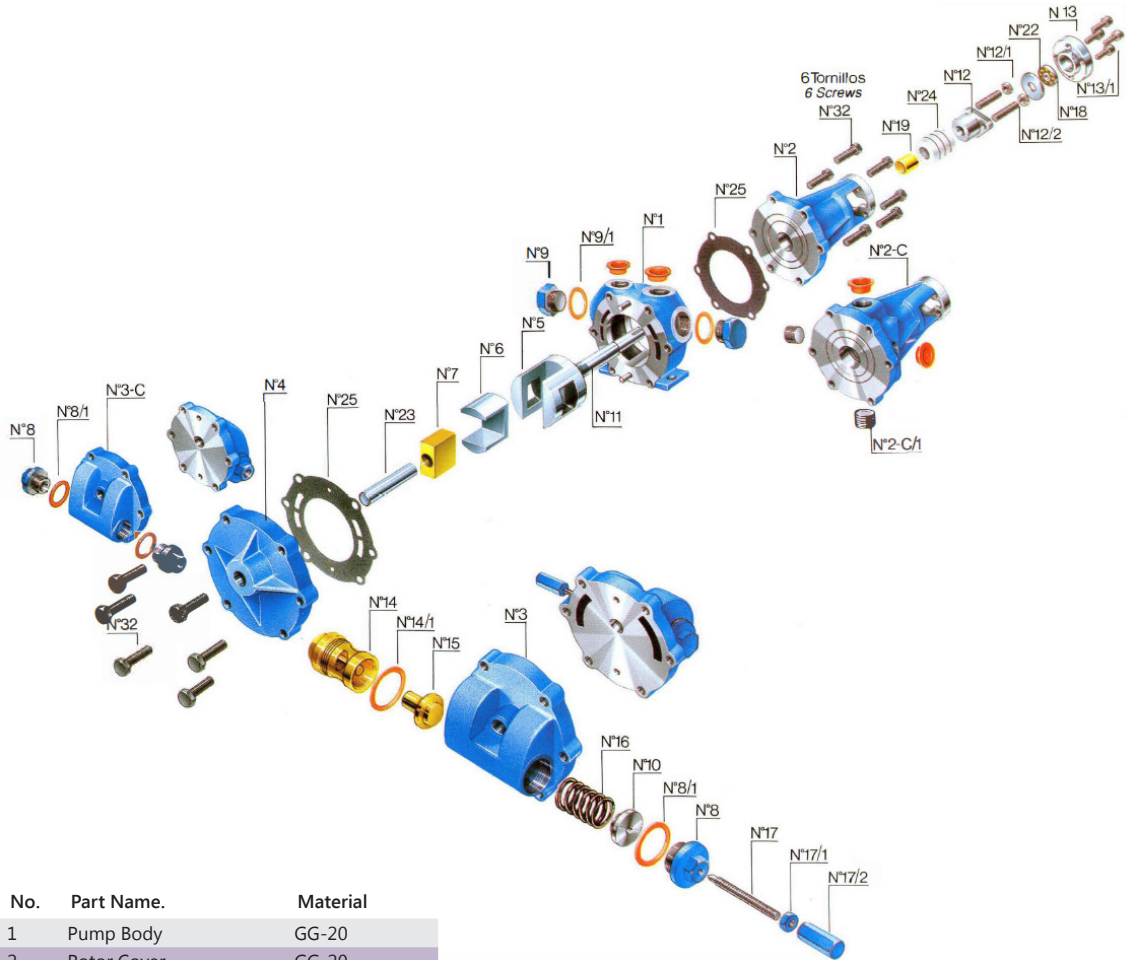
**AX-2** – Pump on carriage with trapezium belts

**AX-3** – Pump on base direct to motor

**AX-4** – Pump on base direct to motor-reducer



Parts Diagram:



No.	Part Name.	Material
1	Pump Body	GG-20
2	Rotor Cover	GG-20
3	Chamber Rotor Cover	GG-20
4	Chamber Cover	STEEL
5	Bypass Cover	GG-20
6	Chamber Cover	GG-20
7	Fixed Cover	GG-20
8	Rotor	GG-20
9	Piston	GG-40
10	Block	BRONZE
11	Tensor Plug	GG-20
12	Tensor Plug Washer	KLINGER
13	Entrance Plug	GG-20
14	Entrance Plug Washer	KLINGER
15	Grill	GG-20
16	Axle	F-114
17	Press Topper	GG-20
18	Press Nut	F-111
19	Press Screw	F-111
20	Bearing Cover	GG-20
21	Bearing Cover Screws	DIN 912-8.8
22	Body Valve	BRONZE
23	Body Valve Joint	KLINGER
24	Valve Seating	BRONZE
25	Spring	STEEL
26	Tensor Screw	F-111
27	Nut	BRASS
28	Locknut	BRASS
29	Bearing	BALLS
30	Sleeve Cap	BRONZE
31	Bearing Cover Washer	F-111
32	Gasket Cover	STEEL
33	Packaging	AM.GRAPHITE
34	Body Washer	KILNGER
35	Fastening Screws	DIN-933-8.8