SPEC SHEET 1003 - 001 E
SECTION : **1001**
Effective : **February 2009**
Replaces : **March 2005**

A-Series Mouvex Technology

Eccentric disc pump

Exceptional Self-Priming Capabilities

The design of the A-Series pumps, utilizes an eccentric disc according to the Mouvex principle, this enables self-priming, even when dry, and pipe clearing.

Legendary ruggedness

The A-Series pumps maintain their initial performance level over time without any adjustment thanks to the automatic clearance make-up system.

Unchanging characteristics

Even if the viscosity of the fluid changes considerably, the A-Series pumps maintain a regular and constant output, independent of the delivery pressure.

Practically unlimited scope of application

A-Series pumps are perfectly adapted to the transfer of fluid whether it be viscous, non lubricating, volatile or delicate (no shear effect).

ATEX certified

II 2 G II B T2, T3, T4, T5

(according to pumped product temperature)

Can run dry in ATEX environment.





A-Series - Mouvex Technology - Eccentric disc pumps

Reversibility

The unique design of the A-Series pump allows the unit to be continually run in reverse. This enables pumping back of products.

Excellent efficiency

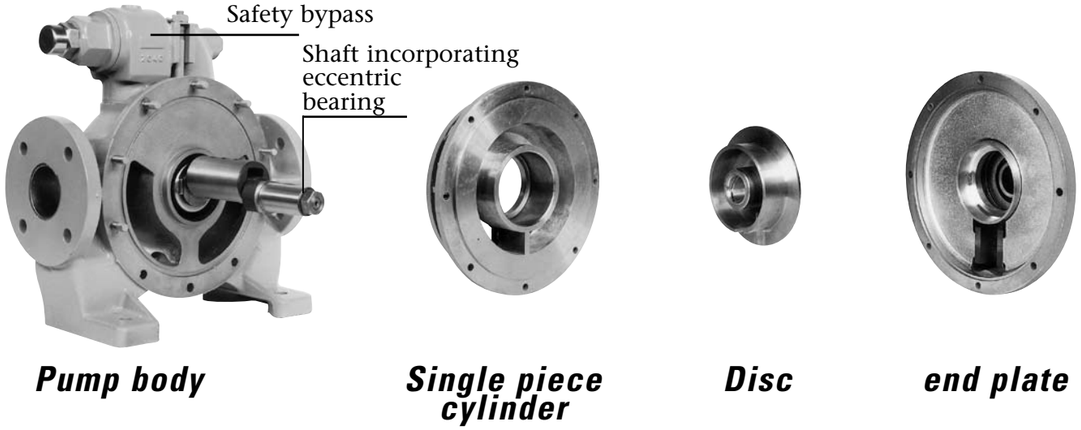
The unique eccentric disc principle ensures a smooth transfer (low rotary speeds) as well as an excellent efficiency.

Wide variety of applications

For many years, A-Series pumps have proven they are capable of meeting the requirements in hugely varied applications:

- Chemistry, para-chemistry *(detergents, glues, inks, paint, etc.)*
- Food industry *(molasses, oils, fatty substances, tallow, etc.)*
- Road works *(asphalt, emulsions, thermal fluids, etc.)*
- Petroleum *(fuel, heavy fuel oil, etc.)*

Construction



Pump body ***Single piece cylinder*** ***Disc*** ***end plate***

A : Cast-iron, Bronze and Steel **O :** Cast-iron and Steel **I* :** Stainless steel Cast-iron (Ni-resist) and stainless steel *** :** Except AR type

All pump models are fitted with self-lubrificating carbon bushings and mechanical shaft seal.

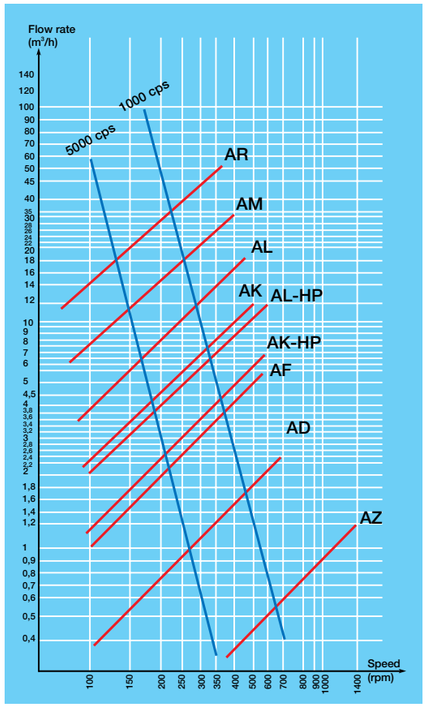
The eccentric disc Mouvex Technology



When the disc moves inside the cylinder, driven by the eccentric bearing installed on the shaft, it makes four chambers that increase and decrease in volume inside the pump body producing the suction and discharge.

These chambers move in pairs 180° apart, thus ensuring that the fluid passes through the pump at a constant and regular flow rate.

Performance





Features

Type of Pump	AZ	AD	AF	AK	AK-HP	AL	AL-HP	AM	AR
Maximum flow rate (m³/h)	1,2	2,3	5,7	11,7	6	18	11	31	50
Maximum speed (rpm)	1500	750	600	500	500	450	450	400	350
Suction and discharge ports with welded or threaded flanges	1”	1”1/4	1”1/2	2”	2”	2”1/2	2”1/2	3”	4”
Total pressure (Bar)	3 to 5 depending on use, HP version up to 10 bar								

Please call us for information on any other specific characteristic.

Options



- Double bypass for protection when operating in both directions.



- Heating or cold jacket for transferring products that can solidify at ambient temperature.

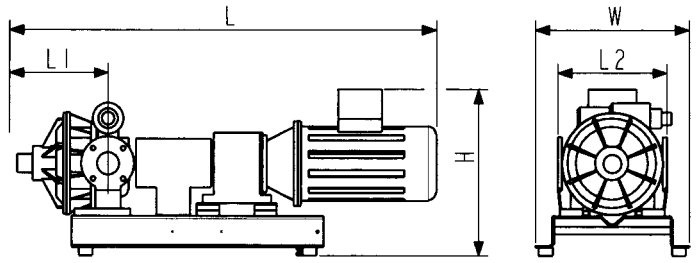


- High temperature: HT version for AF and AK models enables high temperature transfer (up to 250°C).

A-Series

Mouvex Technology
Eccentric disc pump

Dimensions – Maximum weight



Type of Pump	AZ	AD	AF	AF-HT	AK AK-HP	AK-HT	AL	AM	AR
BSP tapped flanges	1″	1″1/4	1″1/2	1″1/2	2″	2″	2″1/2	3″	4″
Welded back flanges for piping	26/34	33/42	40/49	40/49	50/60	50/60	66/76	80/91	102/111
Overall dimensions (mm)									
L	315	778	1047	1150	1120	1270	1330	1680	1720
L1	150	63	200	60	245	70	277	352	425
L2	156	200	240	240	300	300	366	390	450
W	210	340	400	400	460	460	550	550	550
H	455	440	522	522	550	550	672	760	800
Weight kgs									
Bare shaft pump	5	14	21	28	41	45	64	95	150
Power unit	33	78	118	125	156	160	255	362	442

*AZ units: V-belt.

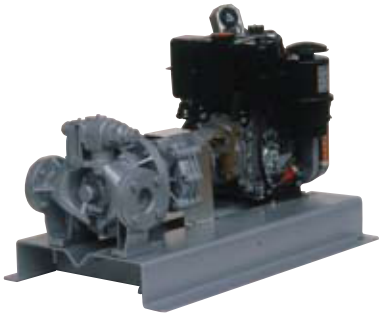


A-Series pumps, double bypass

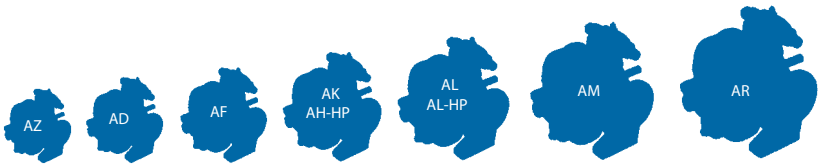
Units

Electrical motors or internal combustion engines

- Drive possible with electric motor, built-in geared motor or variable speed motor (mechanical or electrical).
- Units installed on chassis or mobile version.



Motor pump unit



Mouvex reserves the right to modify the information and illustrations contained in this document without prior notice. This is a not-contractual document. 02/2009

MOUVEX BLACKMER A DOVER COMPANY

ZI la Plaine des Isles
rue des Caillottes
89000 AUXERRE - FRANCE
T + 33.3.86.49.86.30
F + 33.3.86.46.42.10
contact@mouvex.com

DAIS GLOBAL

3, Poruchik Nedelcho Bonchev Str., fl. 5,1528 Sofia, Bulgaria
tel: +359 2 973 27 67
e-mail: office@daisglobal.eu