

**EVERY MINUTE
AN UNSEEN ENEMY
IS EATING UP
YOUR PROFITS**



FIGHT BACK WITH



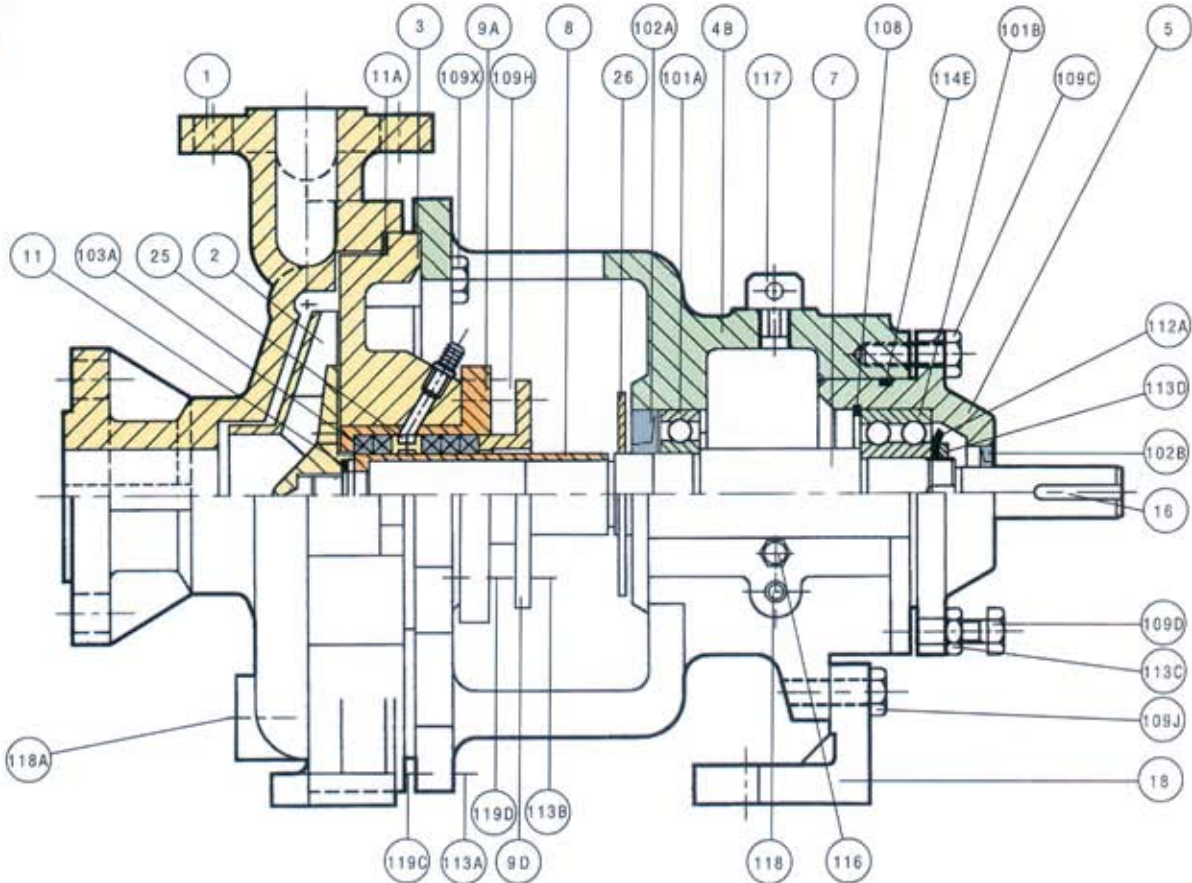
...SINCE 1989

ANSI PROCESS PUMPS

SERIES 'AER' METALLIC PUMPS

Raje-Dia Pumps Pvt. Ltd. now presents metallic pumps to meet the demanding requirements of the Process Industries.

Series 'AER' ANSI Chemical Process Pumps are designed for operating reliability, easy maintenance and maximum interchangeability. These pumps offer superior hydraulics and wide coverage to meet exact requirements at best efficiency. Heavy duty bearing frame assembly ensures rugged and dependable service. Improved hydraulic coverage and higher efficiencies can be obtained from various models. Wide range of materials available to meet any service requirement. The pumps are manufactured in well-equipped manufacturing plant located at Pirojpara, north Gujarat state.



PART NO	DESCRIPTION	QTY	MATERIAL							PART NO	DESCRIPTION	QTY	MATERIAL						
			CI	CS	304	316	A20	HC	HB				CI	CS	304	316	A20	HC	HB
1	CASING	1	CI	CS	304	316	A20	HC	HB				CI	CS	304	316	A20	HC	HB
2	IMPELLER	1	CI	CS	304	316	A20	HC	HB	108	CIRCLIP	1	STEEL						
3	BACK PLATE	1	CI	CS	304	316	A20	HC	HB	109C	HEX BOLT	3	STEEL	304					
4B	BEARING FRAME	1	CI							109D	HEX BOLT	3	STEEL	304					
5	BEARING CUP	1	CI							109J	HEX BOLT	1	STEEL	304					
7	SHAFT	1	EN-8	316						109H	HEX BOLT	4	STEEL	304					
8	SLEEVE	1	410*	316	A20	HC	HB	109X	HEX BOLT	2	STEEL								
9A	GLAND BUSH	1	CS	316	A20	HC	HB	112A	LOCKING WASHER	1	STEEL								
9D	GLAND PUSHER	1	CS	316	A20	HC	HB	113A	NUT	8/12	STEEL	316							
11	GASKET	1	PTFE							113C	LOCK NUT	3	STEEL	304					
11A	GASKET	1	PTFE							113D	BEARING LOCK NUT	1	STEEL						
16	KEY	1	STEEL	316						114E	'O' RING	1	NEOPRENE						
18	SUPPORT PLATE	1	CI							116	OIL VIEWER	1	ALUMINIUM						
25	LANTERN RING	1	CS	316	A20	HC	HB	117	BREATHER	1	STEEL								
26	DEFLECTOR	1	304							118	DRAIN PLUG	1	STEEL						
101A	INBOARD BEARING	1	STEEL							118A	DRAIN PLUG (CASING)	1	STEEL	304	316	A20	HC	HB	
101B	OUTBOARD BEARING	1	STEEL							119C	STUD	8/12	STEEL	316					
102A	INBOARD OIL SEAL	1	NEOPRENE							119D	STUD	2	STEEL	316					
102B	OUTBOARD OIL SEAL	1	NEOPRENE							113B	NUT	2	STEEL	316					
103A	GLAND PACKING	5	TIWA#																

NOTE:-
 1. * 316 IN CASE OF MECHANICAL SEAL
 2. # BRAIDED PTFE/GRAFOIL PACKING ALSO OFFERED DEPENDING ON REQUIREMENT

CASING

Top centreline discharge self-venting casing design - fully confined casing gasket - casing foot support for handling misalignment, distortion from pipe loads and suitable for back pull-out construction.

BACK PLATE

The back plate is designed for gland packing and mechanical seal installation. The large bore provided in case of mechanical seal arrangement enhances the mechanical seal life. The flow path in series 'AER' pumps is between the rear of the impeller and face of the back plate. The abrasive and erosive wear takes place on the face of the back plate and not on the expensive casing. This feature reduces the replacement costs.

SHAFT

A single piece shaft is designed for minimum deflection. All critical surfaces are ground for precision fitment of bearings, coupling hubs, etc. Shaft threads are machined with close tolerances for effective impeller fitment. PTFE impeller gasket provides maximum protection to impeller and shaft threads.

UNIQUE IMPELLER DESIGN

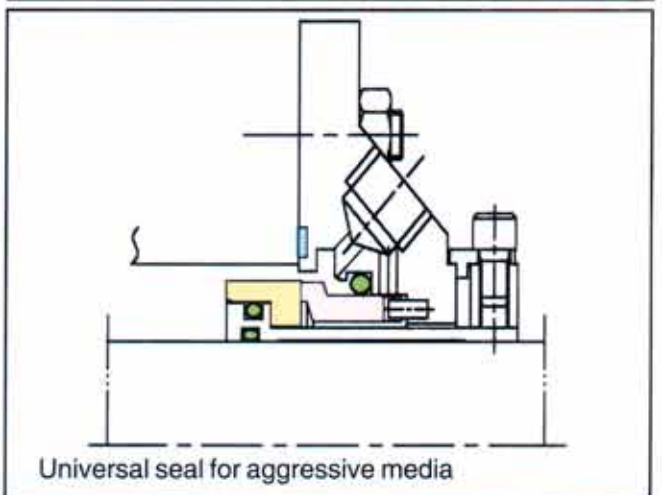
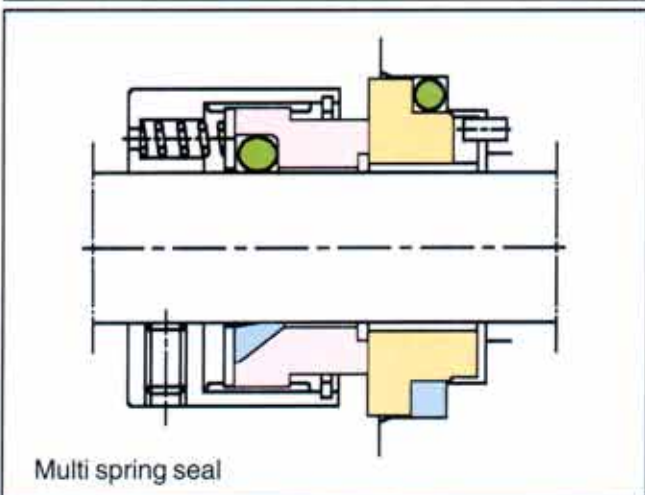
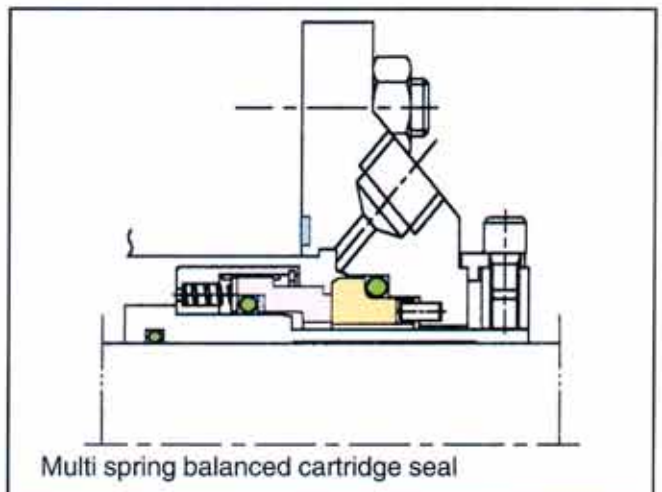
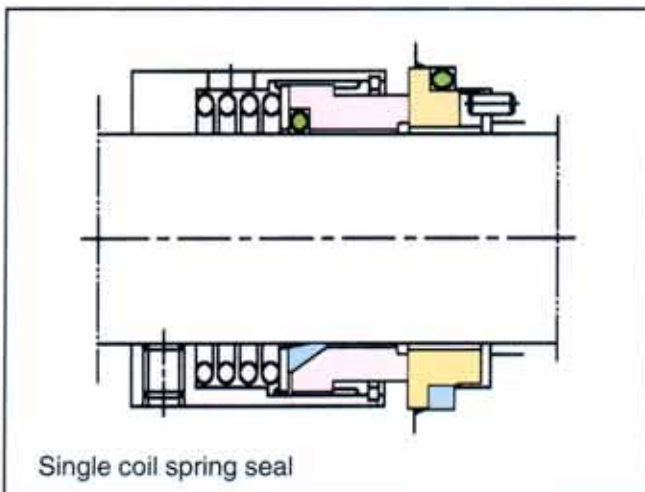
The unique impeller design offers special advantages not available on conventional impellers:

- Impeller clearance of rotor assembly can be adjusted on the maintenance shop bench itself. This reduces down time of the equipment.
- Efficient pump operation even in marginal NPSH conditions is possible which helps to reduce cavitation problems.
- Helps to maintain low seal chamber pressure, aids efficient shaft sealing and improved seal life.
- The impeller vanes located on the back plate side greatly reduce the thrust loads on the bearings and provide enhanced bearing life.

SELF-PRIMING PUMP

The casing of the self-priming pump has a built-in priming chamber. The rotor assembly of the standard series 'AER' pump can be used for this pump. There is no need of foot valve or frequent priming of the pump.

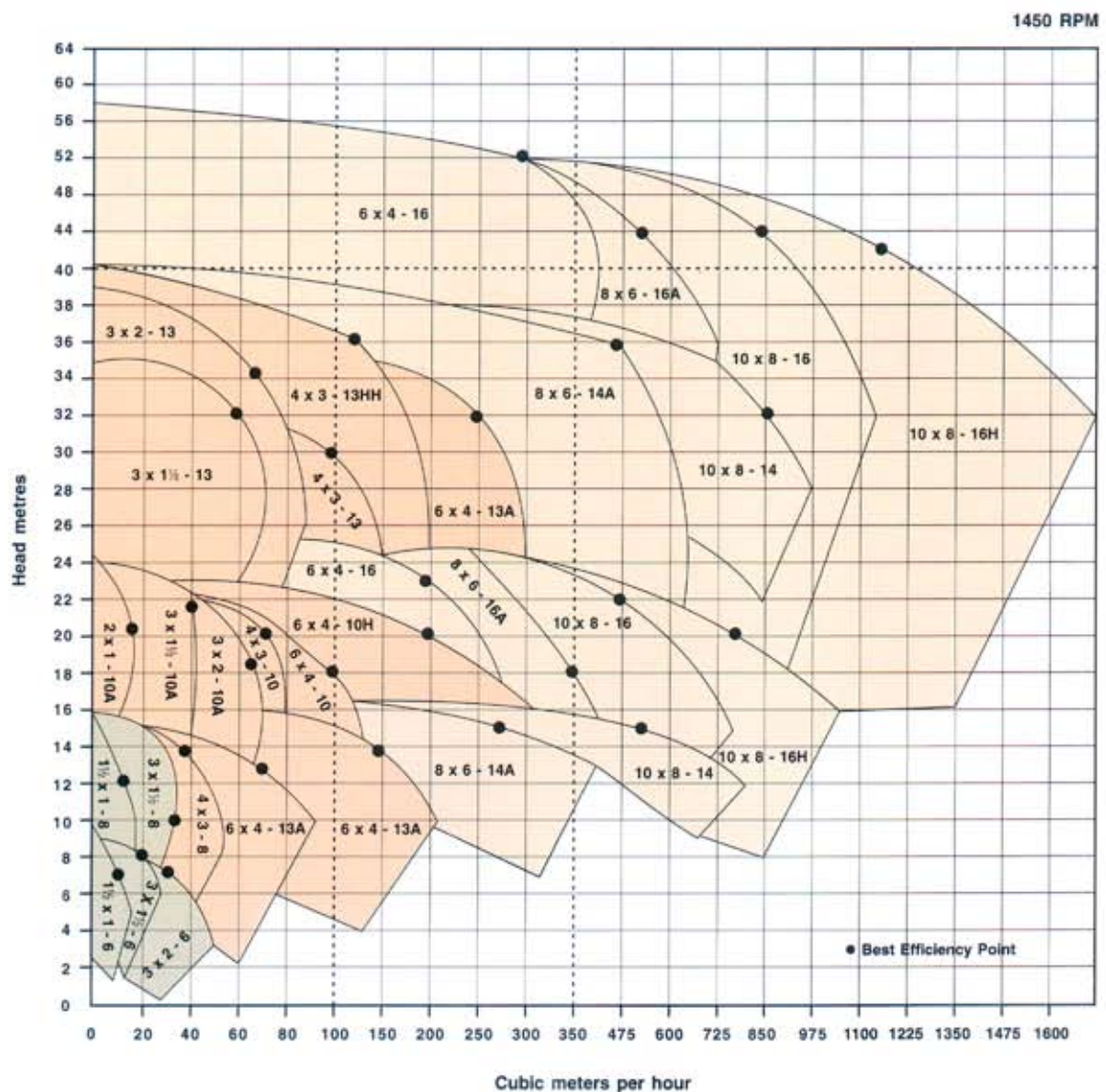
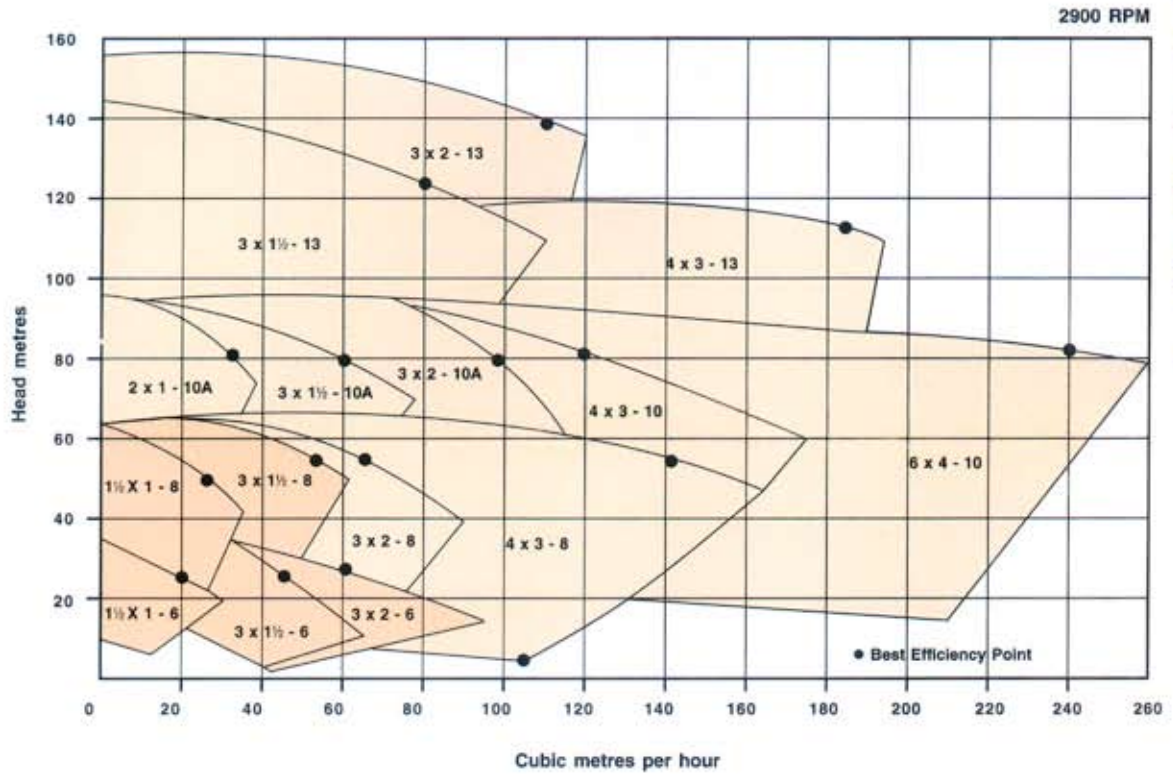
VARIOUS MECHANICAL SEAL ARRANGEMENTS



Mechanical Seal offered as optional. Back plate cover is designed to accommodate various types of seals and different environmental controls depending on the requirement.

Consult Raje-Dia for appropriate selection of Mechanical Seals for trouble free operation.

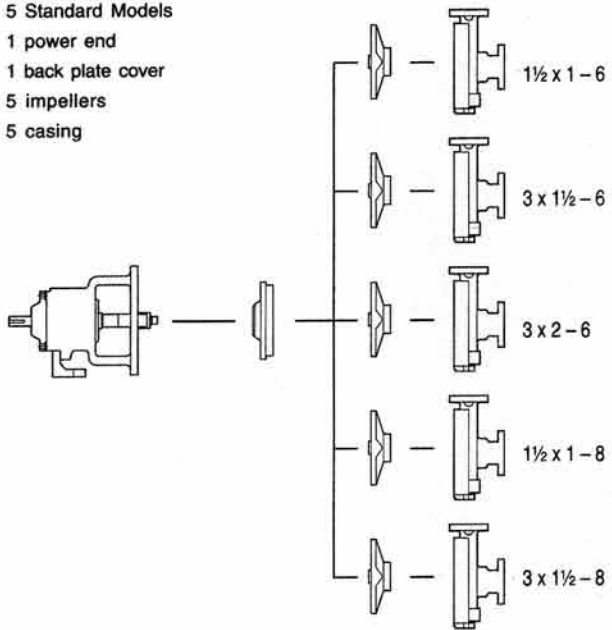
COMPOSITE PERFORMANCE CHARACTERISTICS



SERIES AER STANDARD INTERCHANGEABILITY

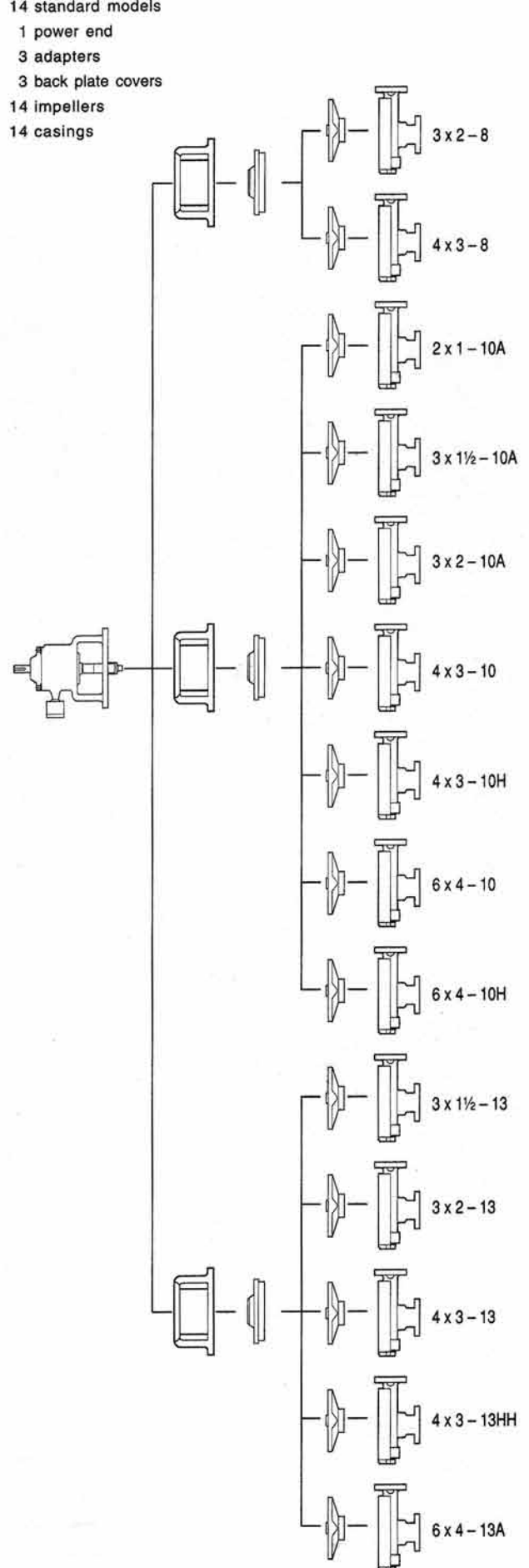
POWER END I

- 5 Standard Models
- 1 power end
- 1 back plate cover
- 5 impellers
- 5 casing



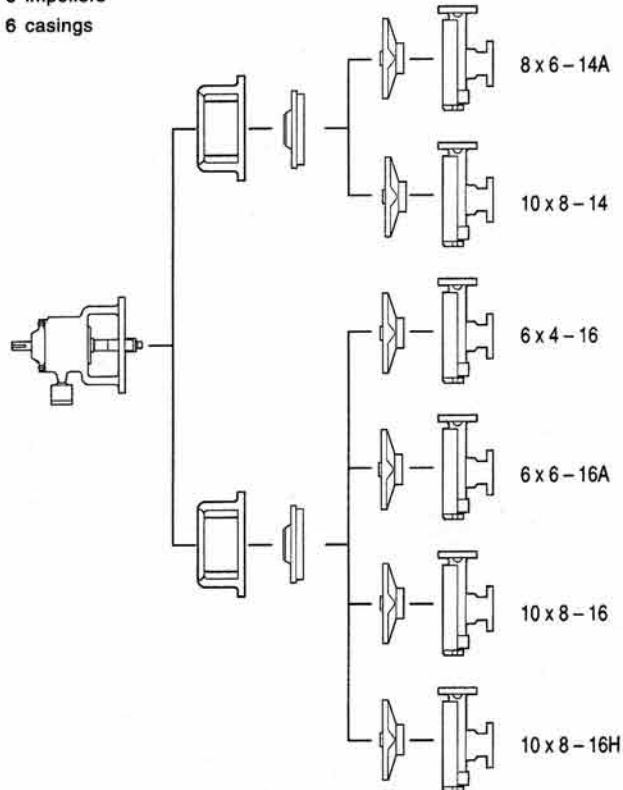
POWER END II

- 14 standard models
- 1 power end
- 3 adapters
- 3 back plate covers
- 14 impellers
- 14 casings



POWER END III

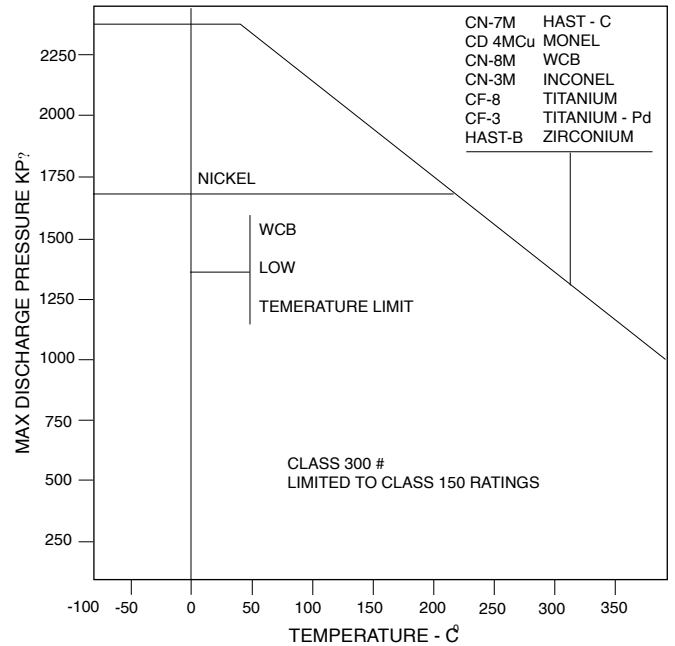
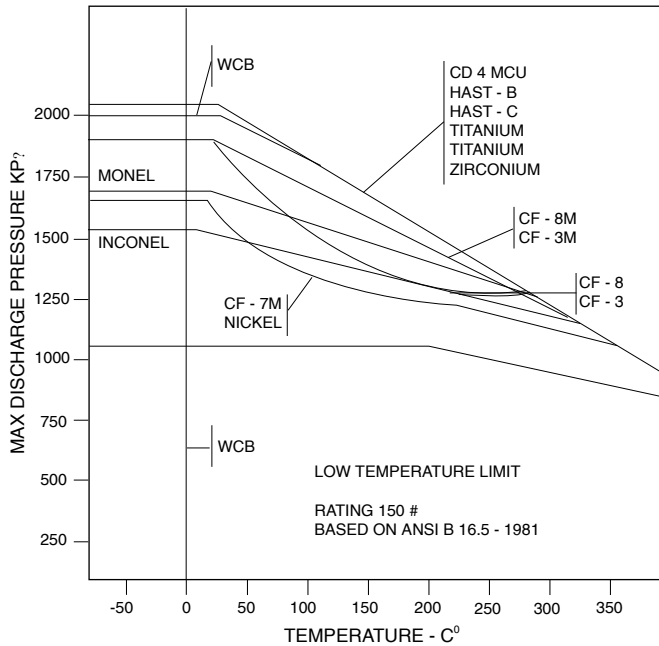
- 6 standard models
- 1 power end
- 2 adapters
- 2 back plate covers
- 6 impellers
- 6 casings



PRESSURE TEMPERATURE RATING

SERIES AER PUMPS FOR LOW AND HIGH TEMPERATURE SERVICES

Series AER pumps can be used successfully to handle liquids with wide temperature range from -212 to 300° C. This combined with superior hydraulics, easy maintenance and readily available components, give specific design options and extremely reliable pump performance for demanding service requirements.... at a cost less than previously used pumps.



APPLICATIONS AND INDUSTRIES SERVED

- Chemical Processing • Effluent Treatment • Fumes scrubbing • Acid pickling • Recirculation process
- Photographic processing • Drugs and Pharmaceuticals • Food processing • Agro chemicals • Perfumeries
- Detergents and Caustics • Breweries • Petrochemicals • Dyes and Pigments • Tanneries • Paper and Pulp industries



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THE HI-TECH SOLUTION FOR CORROSION

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