

R MAK
LINE



POMPE GABBIONETA

GENERAL INFORMATIONS

The R Mak line heavy duty magnetic driven pumps are horizontal, radially split, centerline supported, single entry overhung impeller, designed in a back pull-out configuration according to API 685 Std.

Depending on operating conditions, the pumps are hydraulically balanced by front wear rings or front and rear wear rings and balance holes.

Main design features, some of which in detail shown on cross sectional drawings are:



- Back pull-out construction for easy maintenance procedures.
- Centerline mounting for high temperature stability.
- Stiff casing, bearing frame and baseplate to assure minimum shaft deflections under heavy nozzle load conditions (extended life for magnetic coupling and bearings).
- Baseplate overall dimensions according to API 610 8th Ed. recommendations.
- Choice of multiple hydraulics for optimum efficiency over a wide operating range.
- Twin volute configuration to minimize radial loads and shaft deflections (over 2" discharge nozzle size).

• Cooling water or heating jacket on stationary radial/thrust to assure the hydrodynamic balancing and medium lubrication under adverse fluid viscosity conditions.

Main pumps applications refer to heavy duties on:

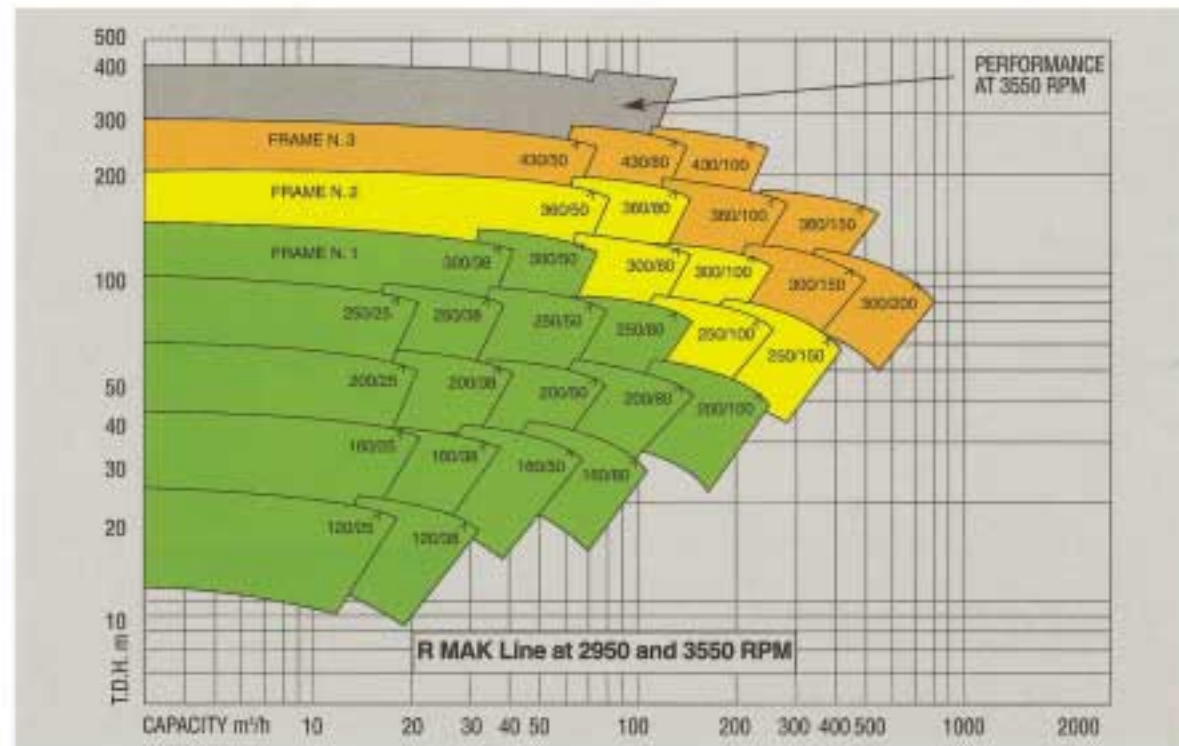
- refineries • petrochemical and chemical plants • feedwater and power plant auxiliaries

OPERATING DATA (EXCEEDING VALUES ON REQUEST)

Capacities	up to	750 m ³ /h	(4000 GPM)
Heads	up to	360 m	(1200 Feet)
Temperatures	from	-100°C	(-150°F) to 250°C (480°F)
Design working pressure	up to	88 bar	(1250 Psig)
Rotational Speed	up to	3600	(RPM)



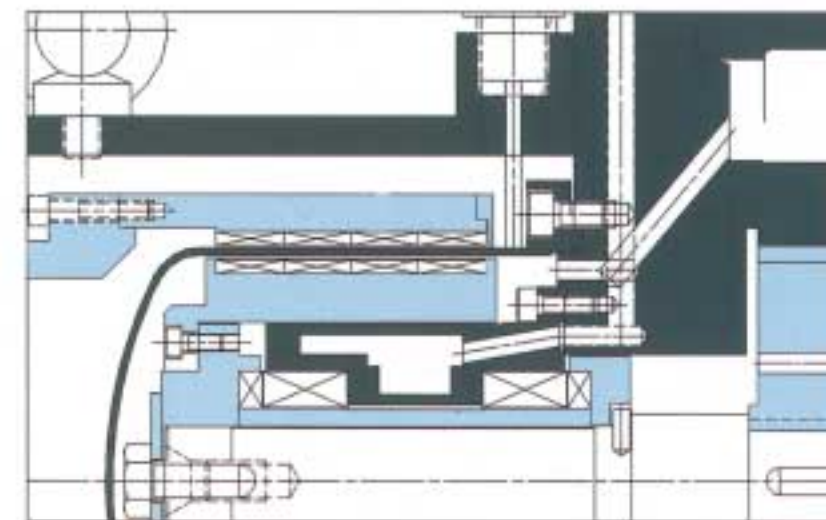
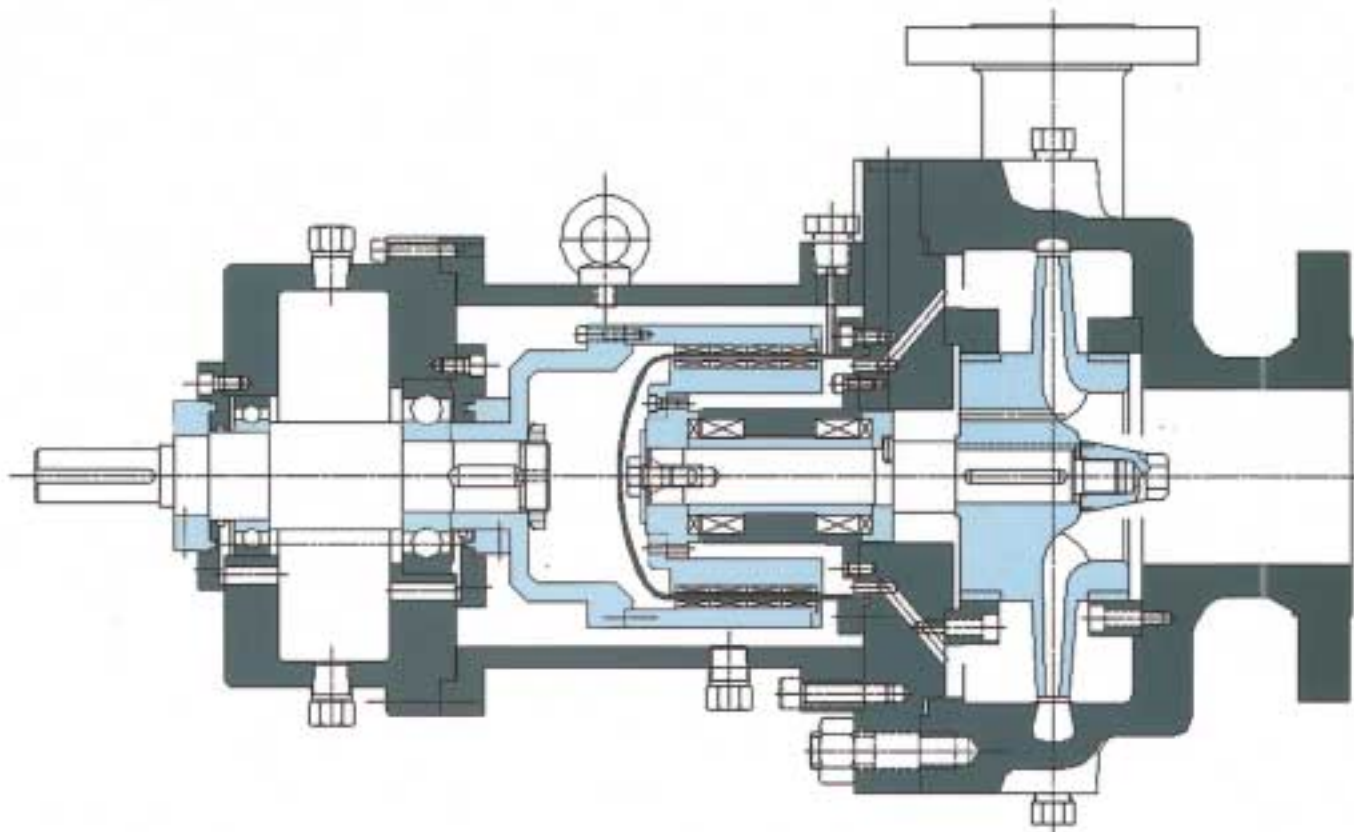
COVERAGE CHART



OPTIONS

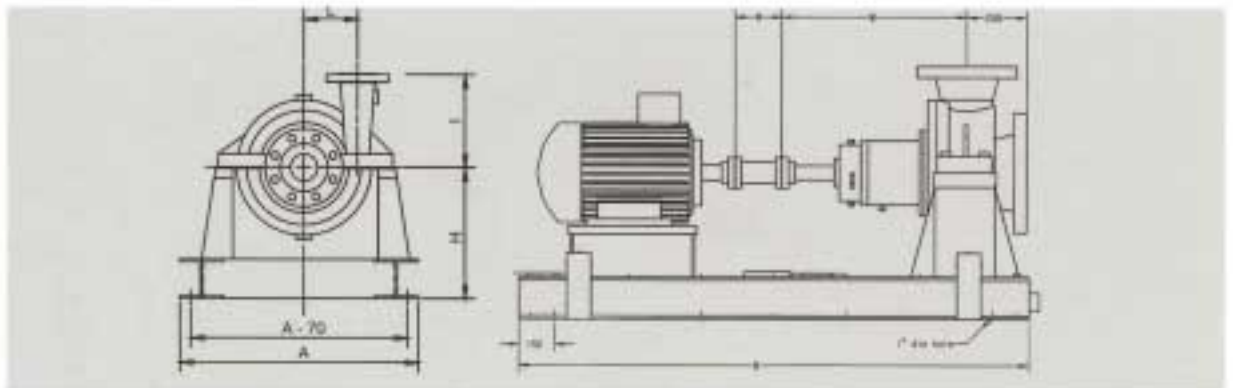
The following pump designs can be provided:

- Casing and cover with full cooling or heating jackets.
- Open impeller.
- Inducer to reduce NPSH requirements.
- External flushing or pump discharge circulation via cyclone separator to permit pumping media containing abrasive or solid particles.
- Can temperature monitoring to improve safety margin.
- Standard or special bearing isolators at either bearing housing ends.
- Water cooling or heating jacket for stationary radial/thrust bearings.



COOLING OR HEATING BEARING JACKET

R MAK LINE OVERALL DIMENSIONS



Pump Type	Nozzles Inches	G mm	H mm	I mm	L mm	M mm	N mm	Max drive motor size	API Base number	A mm	B mm	No of per side		
R 120/25 MAK	3/2	170	400	200	80	575	140	180/132	1.5/1	755	1840/1530	3		
R 120/38 MAK					85									
R 160/25 MAK					90									
R 160/38 MAK					100									
R 160/50 MAK	4/2	210	450	220	105			280/225/132	2/1.5/1	2145/1840/1530	4/3/3			
R 160/80 MAK	4/3				120									
R 200/25 MAK	3/2	170	450	225	115			665	140	315/280/200	4/3.5/3	910	2445/2145/1840	4/3/3
R 200/38 MAK					120									
R 200/50 MAK	4/2	210	450	240	125					315/280/180	6/5.5/5	1060	2445/2145/1840	4/3/3
R 200/80 MAK	6/3				147									
R 200/100 MAK	6/4	170	450	285	160					315/280/200	4/3.5/3	910	2445/2145/1840	4/3/3
R 250/25 MAK	3/2				170									
R 250/38 MAK		140												
R 250/50 MAK	4/2	210	450	270	145					315/280/200	4/3.5/3	910	2445/2145/1840	4/3/3
R 250/80 MAK	6/3				165									
R 300/38 MAK	3/2	170	450	280	160	740	200			315/200	6/5.5	1060	3160/2445/2145	5/4/4
R 300/50 MAK	4/2				165									
R 250/100 MAK	6/4	210	500	285	180					315/280/180	6/5.5/5	1060	2445/2145/1840	4/3/3
R 250/150 MAK	8/6	250	570	335	200									
R 300/80 MAK	6/3	210	500	295	185					315/280/200	4/3.5/3	910	2445/2145/1840	4/3/3
R 300/100 MAK	6/4				200									
R 360/50 MAK	4/2	210	500	315	195			740	200	315/200	6/5.5	1060	3160/2445/2145	5/4/4
R 360/80 MAK	6/3				215									
R 300/150 MAK	8/6	250	570	335	220					400/315/250	6L/6/5.5	3160/2445/2145	5/4/4	
R 300/200 MAK	10/8	290	620	360	250									
R 360/100 MAK	6/4	210	570	345	225					400/315/250	6L/6/5.5	3160/2445/2145	5/4/4	
R 360/150 MAK	8/6				240									
* R 360/200 MAK	10/8	290	620	390	260					315/200	6/5.5	2445/2145	4/4	
R 430/50 MAK	4/2	210	570	350	230									
R 430/80 MAK	6/3				245									
R 430/100 MAK	6/4	210	570	380	255	400/315/250	6L/6/5.5			3160/2445/2145	5/4/4			
* R 430/150 MAK	8/6				250							405	270	

* ONLY AT 1800 RPM

A CENTURY OF EXPERIENCE...

Since the foundation of the company in 1897, Pompe Gabbioneta has been engaged in design and manufacture of high quality centrifugal pumps.

The products and the markets served progressively changed from water to chemical industry and finally, in the last thirty years, to API 610 heavy duty pumps for refinery and petrochemical industries.

The product development is based on a thorough interchange of marketing and operating experience within the company and in close cooperation with project and plant engineers.

The manufacturing is made in a factory equipped with several modern cnc machines and machine tools, special note has to be given to the machining centers where pump casings can be machined completely with only two settings.

In house facilities are designed to meet the performance and NPSH testing requirements of all pumps manufactured in the company in full compliance with API 610 standards.

A quality assurance system in accordance with ISO 9001 is granting the achievement of highest quality for manufactured pumps.



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ISO Cert. n. 0194/1

ISO 9001