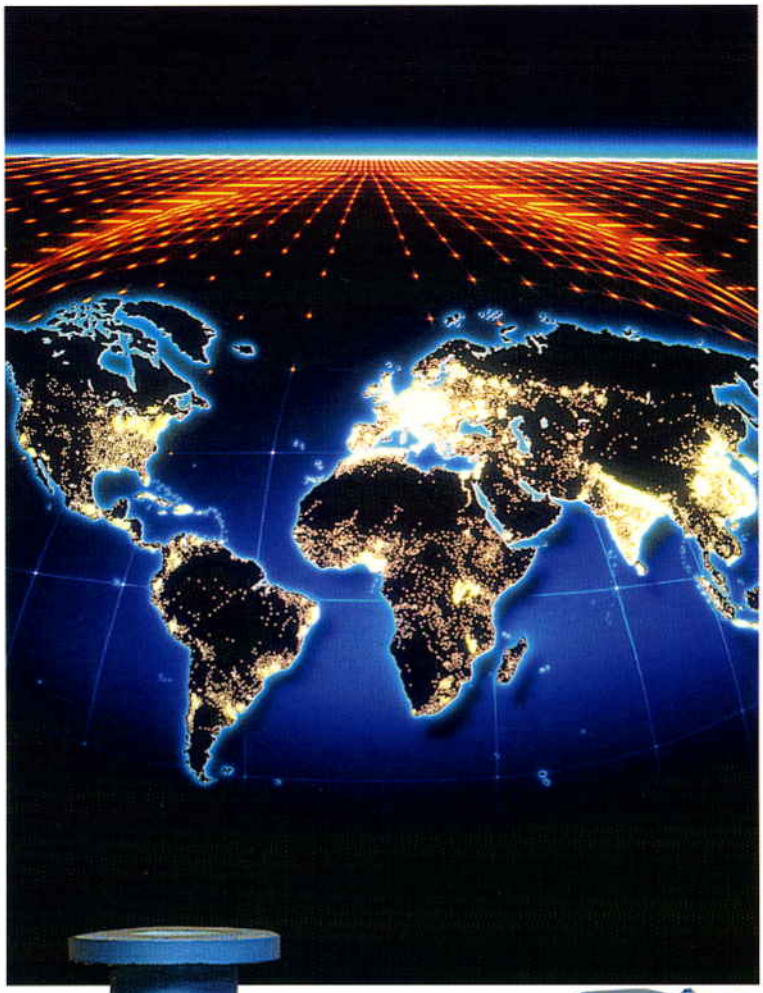
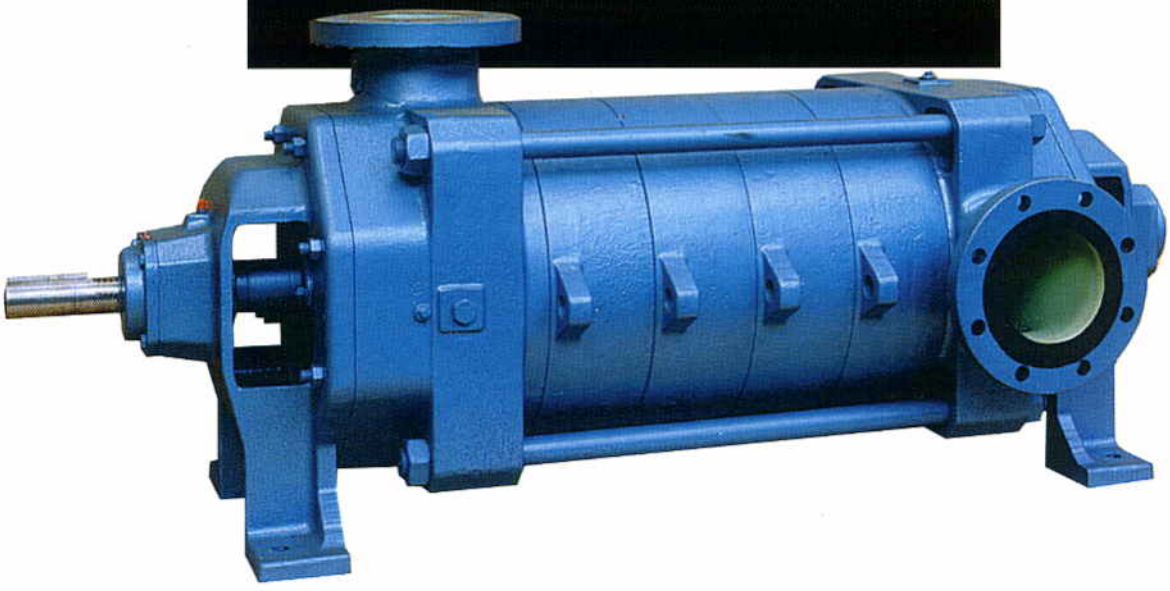
NM Multistage Pumps
25/30 bar





Ingersoll·Dresser Pumps

Multistage water pumps
NM 25/30 bar

In the design and manufacture of the new generation of NM 25/30 bar pumps, the technical expertise and experience of INGERSOLL-DRESSER PUMPS is apparent.

The following features are incorporated in the hydraulic and mechanical design of this pump range :

- improved hydraulics,
- improved safety,
- improved reliability.

The objective was to improve upon current standards to achieve better design, performance and manufacturing targets, thus giving customers the best service.

Many options were analysed bringing together Marketing, Engineering and Manufacturing in a concurrent engineering project assisted by Computer Aided Draughting and Design.

Casting development was evaluated using the latest foundry processes and techniques, ensuring high performance and reliability.

The NM range complies with the latest international standards and specifications used in Europe.

The modular concept gives maximum interchangeability of components with subsequent low inventory costs.

This range consists of 5 sizes and 10 hydraulics respectively identified by : **E** for low flow, **L** for high flow.

The following arrangements are available :

NM
- horizontal, 2 bearings,
- defined by the discharge diameter,
- adjustable side suction and discharge nozzles.

FP
- horizontal, 1 bearing,
- defined by the suction diameter,
- axial suction and adjustable side discharge nozzles.

NMD, NMAD
- vertically mounted,
- defined by the discharge diameter,
- with semi-elastic coupling and thrust bearing housing (NMD),
- with rigid coupling (NMAD),
- adjustable side suction and discharge nozzles.

OPERATING LIMITS

Maximum working pressure (bar)	NM	122	152	202	252	352
	suction side	10	10	10	16	16
	discharge side	25	30	35	40	40
	FP	152	202			
	discharge side	25	25			
	NMD/NMAD	122	152	202		
	discharge side	25	30	35		
Test pressure		1,5 maximum working pressure				
Maximum liquid temperature		gland packing 105 °C mechanical seal 80 °C				

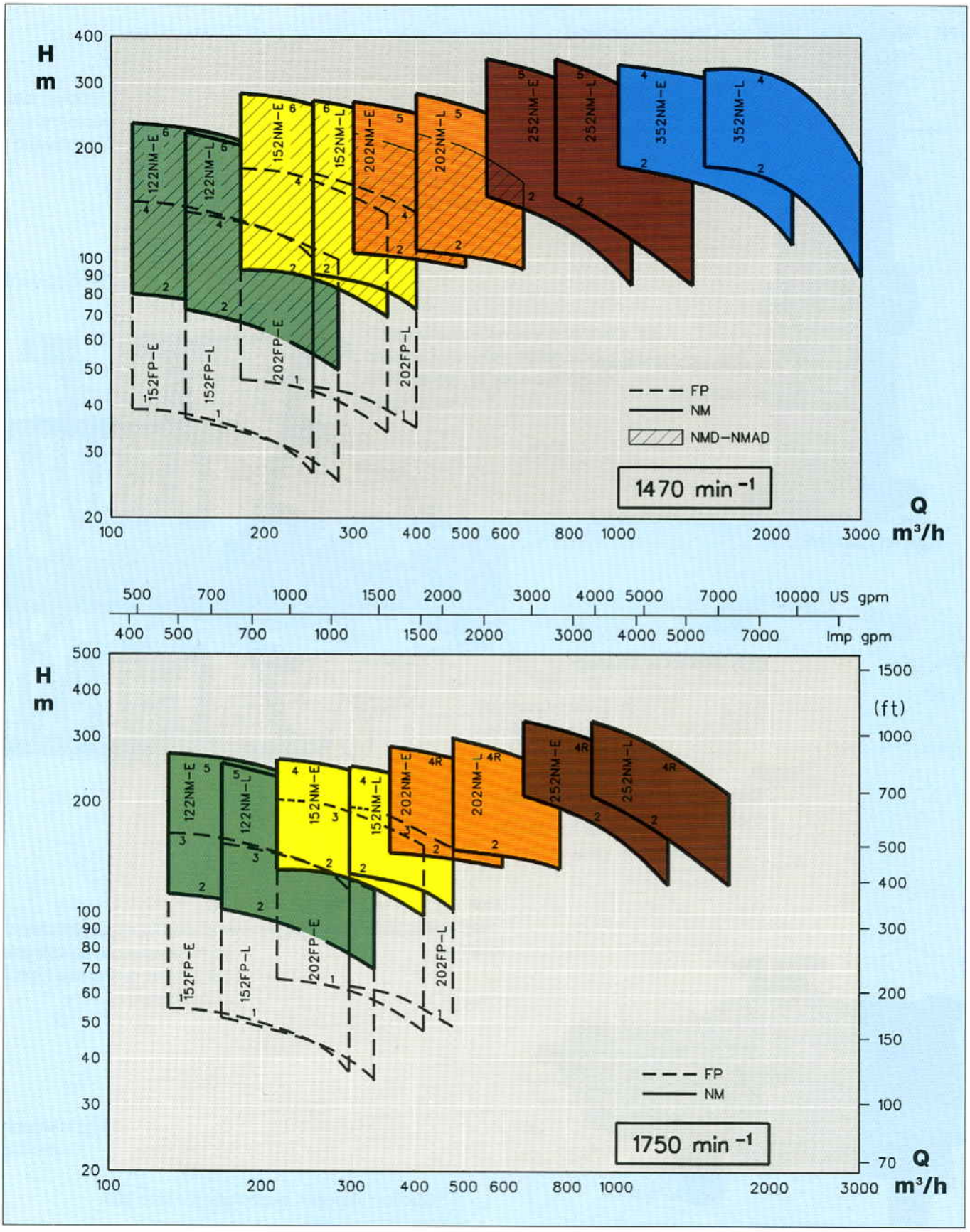
5 sizes

NM	122	152	202	252	352
FP	152	202			
NMD/NMAD	122	152	202		

MATERIALS

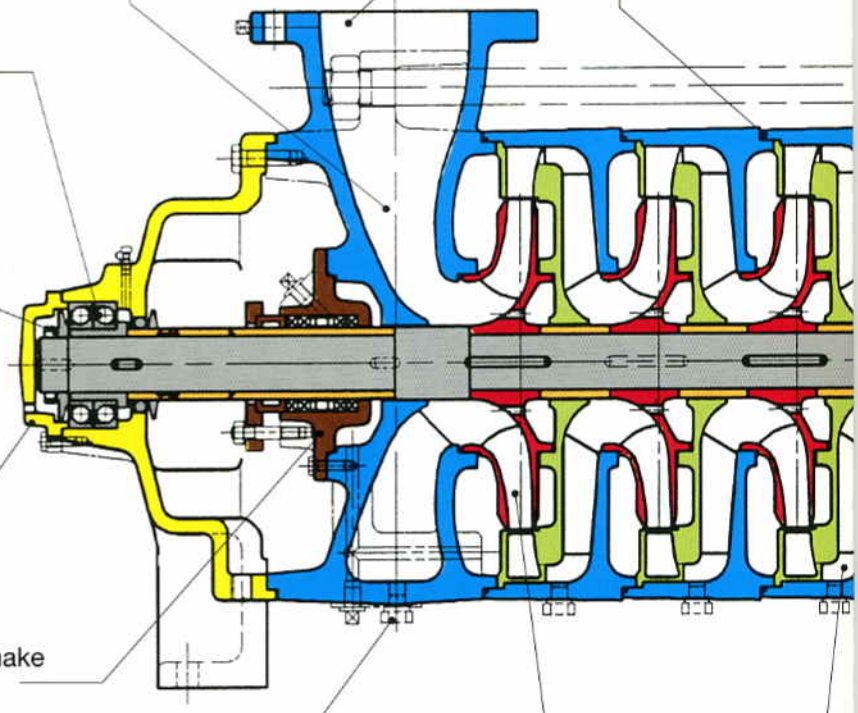
DESCRIPTION		STANDARD	OPTIONS
Suction casing		Cast iron	
Discharge casing		Cast iron	
Stage casing		Cast iron	
Diffuser		Cast iron	
Wear ring			13 % Chromium stainless steel
Impeller	122 to 252	Cast iron	Bronze
	352	Bronze	
Shaft	NM	13 % Chromium steel	
	FP	Steel	13 % Chromium steel
Shaft sleeve		13 % Chromium stainless steel	
Shaft seal		Gland packing Graphite + PTFE	Mechanical seal Graphite/stainless steel

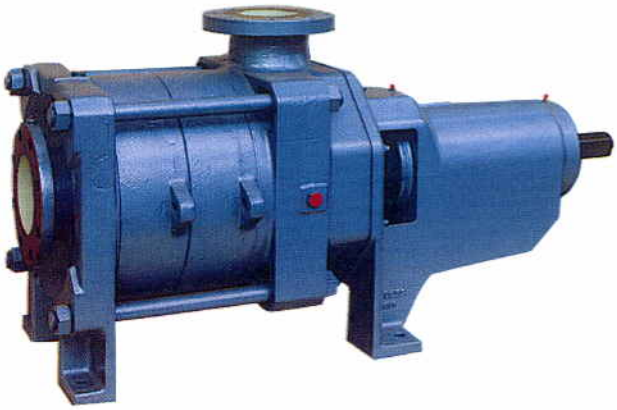
Coverage charts



Design features

FP Wide open axial suction giving an optimal NPSH value.
One single sealing system to make maintenance easier.

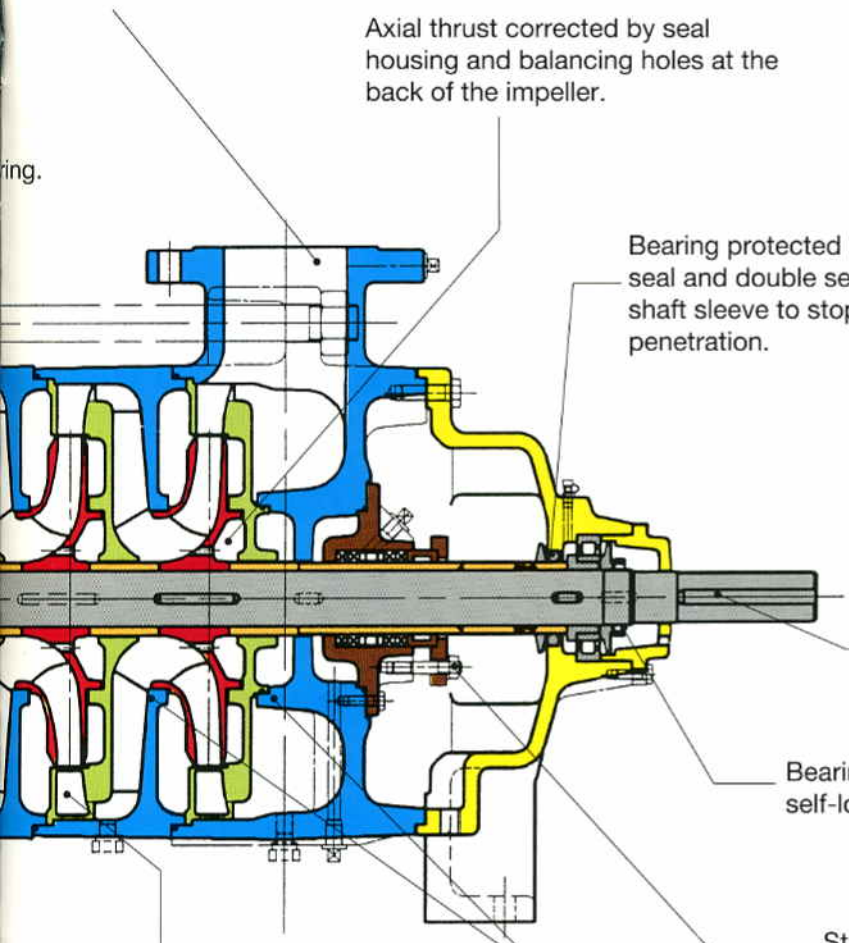




* Suction impeller, especially for size 352.

charge nozzle
ation easier, with

ring.



surface to maintain
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NMD **NMAD**	Vertically mounted to reduce space required at ground level.
	Motor-pump self-alignment.
	One single sealing system to simplify maintenance.
	Bearing bush lubricated by liquid.