



PN ISO - Process Pump

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Mather & Platt Pumps Ltd. with more than 100 years of experience, are one of the pioneers in the design and manufacture of pumps for trouble-free performance. These pumps consume less power due to better hydraulics and higher efficiencies. PN ISO

Typical cross section

Casing

Highly efficient, volute type, radially split, top center line discharge self venting. Wall thickness corresponds to 16 bar pressure rating. Flanges conform to ANSI B16.5, class 150.

Impeller

Closed type with swept back clearing vanes to balance axial thrust. Hydraulically and dynamically balanced. Designed for best performance, efficiency and low NPSH.

Shaft

Maximum shaft deflection less than 0.05 mm ensures long seal and bearing life and low maintenance.

Back cover

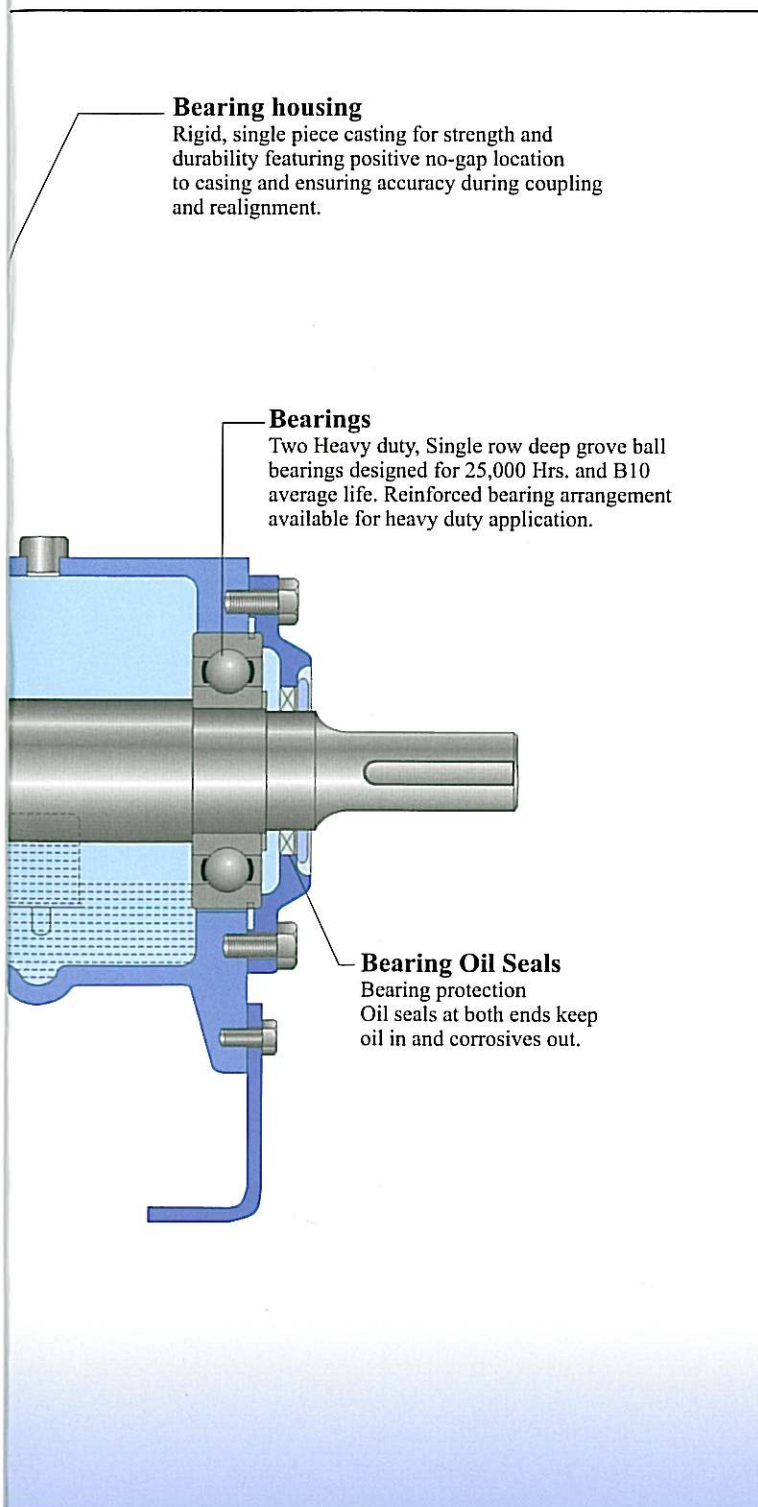
Unique 'O' ring seal for positive, leak proof connection to casing. Houses an extra deep stuffing box with built-in self sealing arrangement, pressure being regulated by impeller back vanes. Accommodates gland packing or mechanical seal without any modification.

Bearing lubrication

Constant oil leveler and oil thrower maintains oil level and uniform lubrication.

Note: PN ISO Pumps are Oil Lubricated

factory of pumps in the world. Mather & Platt Pumps are well known for their rugged construction and ISO Pumps are built to international standards and are offered in a very wide range of duties.



Range :

Capacities	: Up to 750 m ³ /hr.
Heads	: Up to 170 m
Temperatures	: -30 ⁰ C to 110 ⁰ C
Materials of construction	: CF8M, WCB, LG2 as Standard. Other MOC on special request.

Applications :

- Chemical Industries
- Oil Refineries
- Paper Mills
- Petrochemical Industries
- Pharmaceutical Industries
- Power Plants
- Sugar Mills

Features :

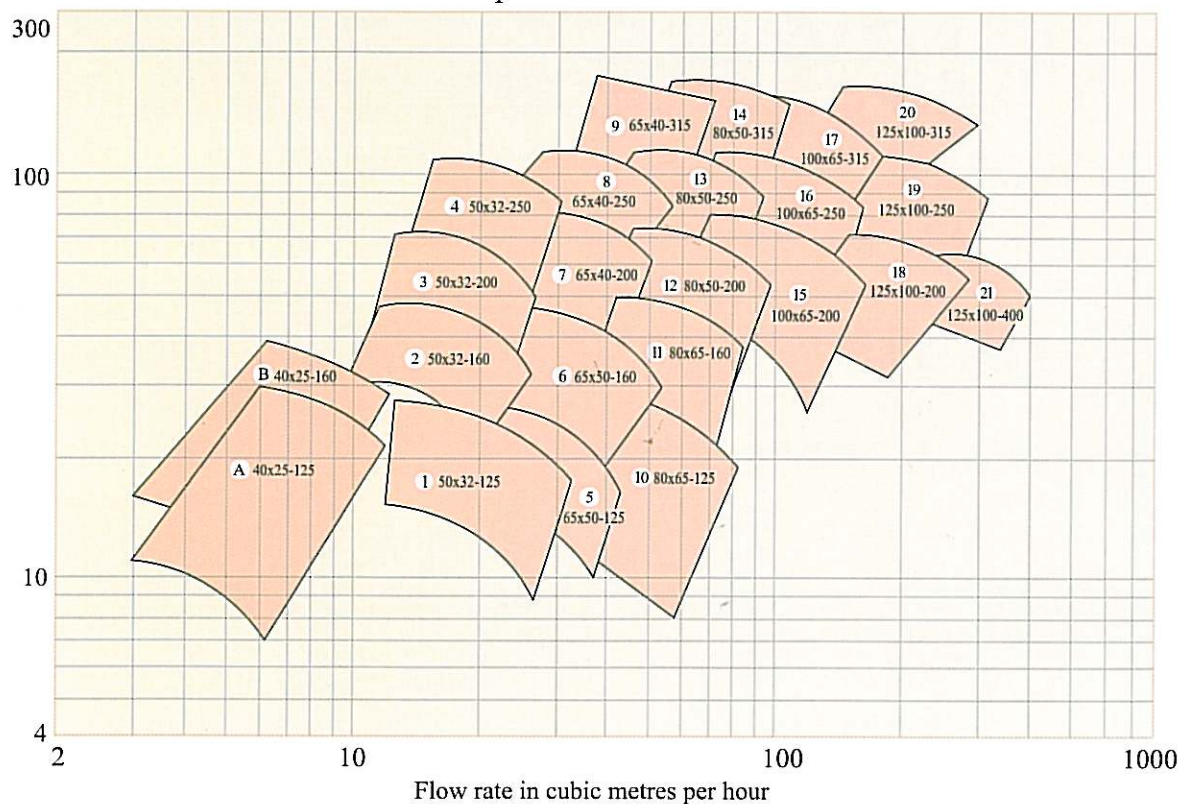
- Built to international standards as per ISO 2858 and ISO 5199
- Excellent Interchangeability :
35 models covered by only 4 sets of rotating assemblies
- Back pull-out design permits simple dismantling of rotating parts without disturbing the piping and driver during routine maintenance
- High pump efficiencies result in lower power costs

Optional Features :

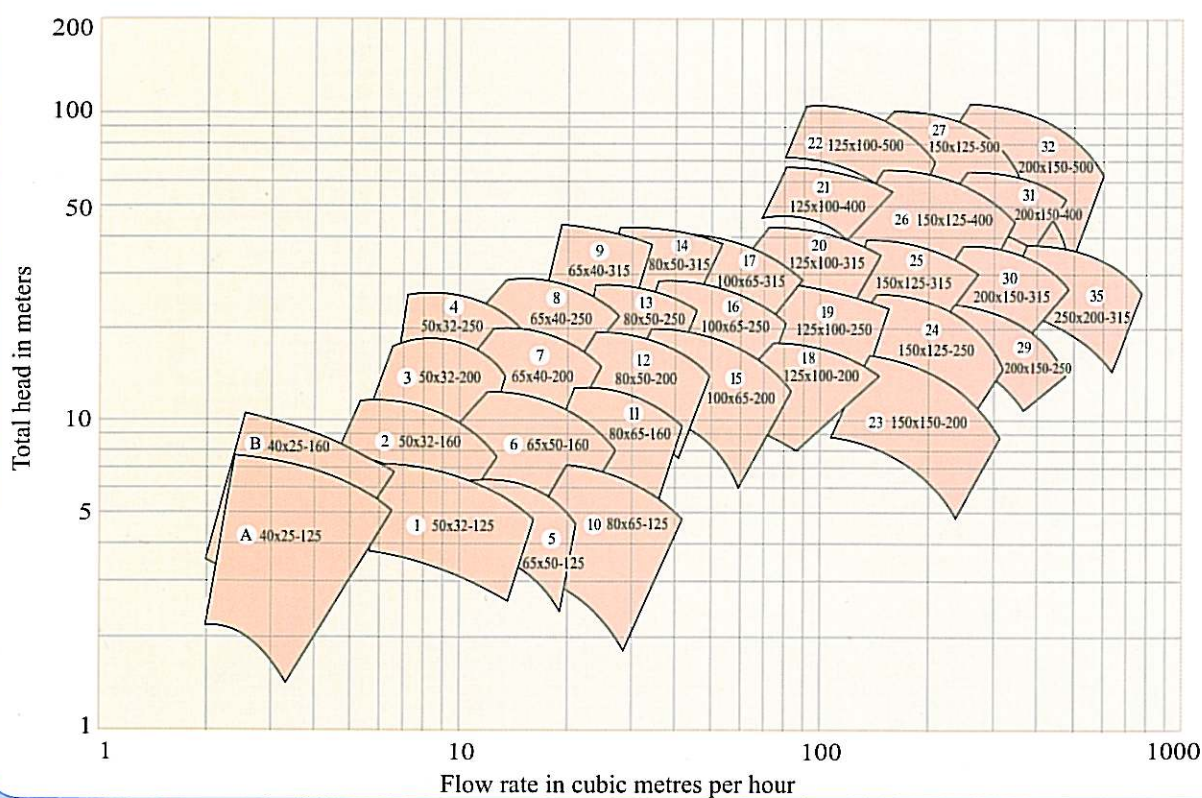
- Semi-open impeller
- Grease lubricated bearing
- Bearing housing cooling
- Stuffing box cooling
- Gland packing arrangement
- Centre-line suspension
- Vertical Execution

Selection Charts

Speed - 3000 RPM



Speed - 1500 RPM

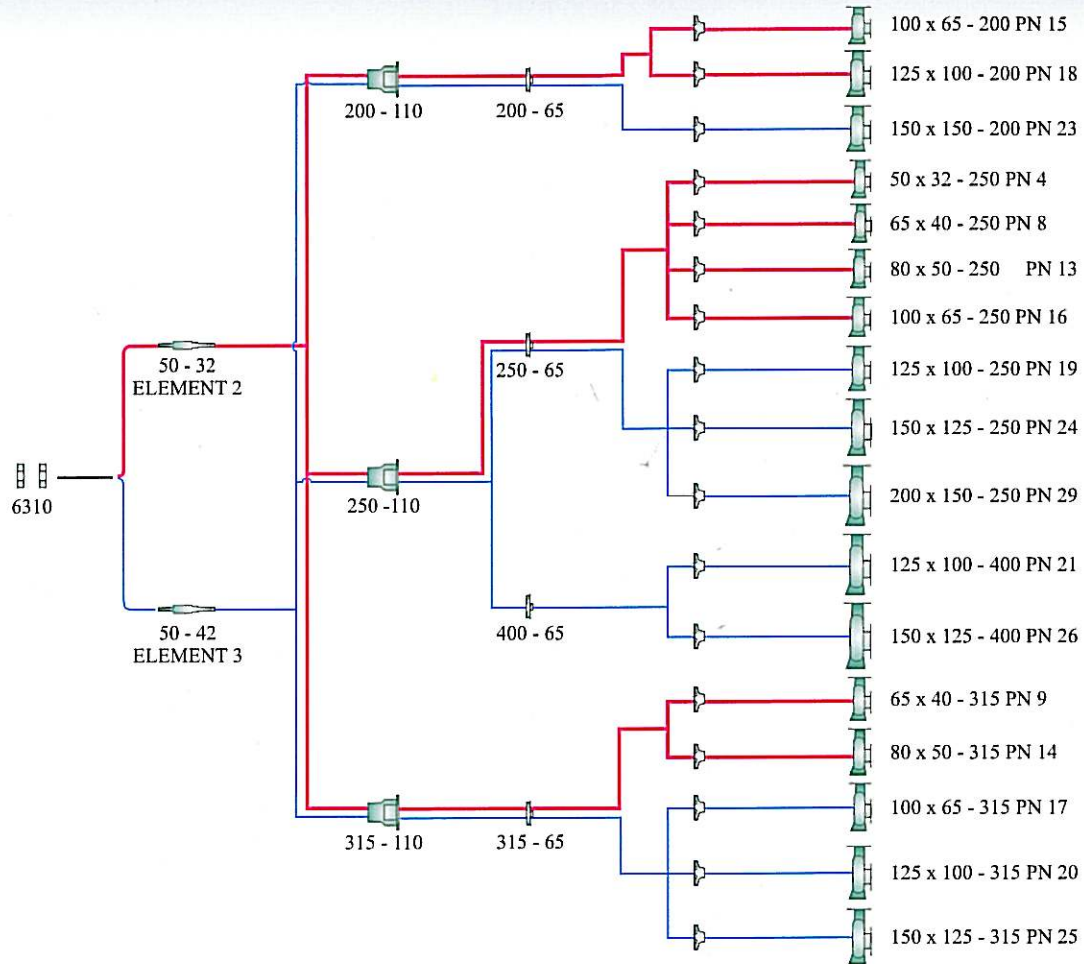


Pump model number - suction /delivery size -nominal impeller dia. are indicated in the Tombstone charts.

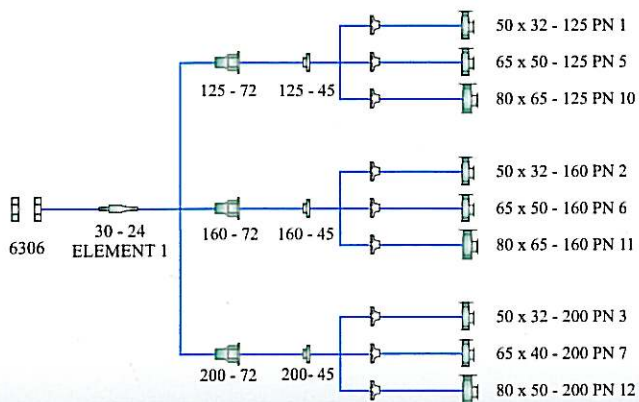
Note : Tombstone charts given above are meant for tentative selections only. For details individual pump family curves must be referred to. Due to continuous design improvements being implemented we reserve the right to change the above without notice.

Interchangeability Chart

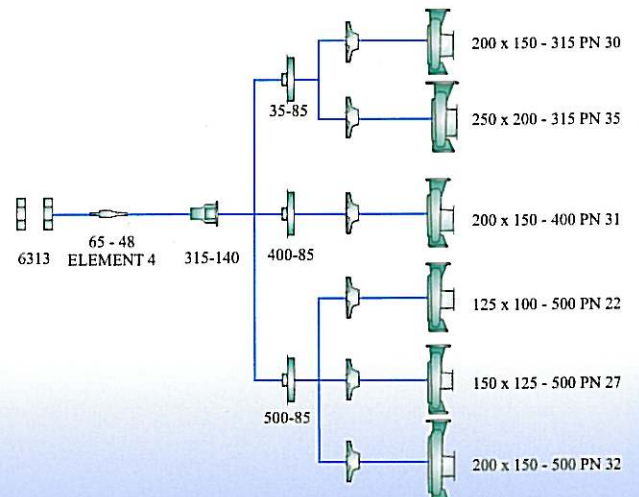
Element No. 2 & 3



Element No. 1



Element No. 4



Product Range

Pump Type	 Axially Split	 End Suction	 Multi-stage	 Multi-stage	 Vertical Wet Pit	 Extraction	 Mix-Flow / Sewage / Non-Clog	 Paper Stock
Ranges	ST / SN, LE / ME, GST, GSN, GME	ET, PN PNC	PB, PJ, FB, RN	PB, FB, FG	VMF	CNE	SK, KN, MF, SW	KF
Capacity upto (cu. m / hr)	17,000	750	1,000	350	30,000	2,000	8,000	950
Head upto (m)	220	170	1,100	1,800	250	450	70	60
Construction features	- Double entry impellers for single stage - Single entry opposed impellers for two stage	- Back pull-out - PN - Temperatures upto 150°C	- Bolted segment - Diffuser design - Axial thrust balanced by hydraulic balancing valve	- Bolted segment - Diffuser design - Axial thrust balanced by hydraulic balancing valve	- Diffuser design - Single & multi-stage pumps - Above or below floor discharge	- Diffuser design - Multi-stage pumps with caisson - Above or below floor discharge	- Horizontal / Vertical units - Special non-clog impellers	- Casing and bearing cover split at an angle to facilitate easy maintenance - Specially designed for high consistency stock
Options	- Vertical execution - Centreline suspension - Mechanical seals	- Vertical execution - Centreline suspension - Oil lubricated bearings - Semi-open / Open impellers - Mechanical seals	- Low NPSH impellers - Multi-outlet design - Mechanical seals	- Low NPSH impellers - Stuffing box cooling - Bearing cooling - Mechanical seals	- Oil lubrication - Shaft enclosing tube - Pull-out design - Open impellers	Double suction first stage impeller design for low NPSH applications.	- Vertical execution - Hand hole covers - Grease packed stuffing box	- Mechanical seal - V-belt drives
Applications	- Water supply - Water circulating systems - Injection water - Spray pond - Air-conditioning - Water treatment - Sprinkler & drip irrigation - Fire fighting - Juices - Mine Dewatering	- General water service - Chemical process - Sprinkler and drip irrigation - Condensate transfer - Drainage - Fire fighting - Juices / Syrups	- Boiler feed services - Mine de-watering - Water supply - Jockey - Condensate transfer	- Boiler feed services - Descaling operations - Hydraulic plants	- Cooling tower - Condensate circulating - Irrigation and water supply - Fire fighting - General industrial water supply	- Condensate extraction for thermal and nuclear power plants - Low NPSH requirements	- Municipal sewage stations - Effluent treatment plants - Unscreened Juices / Syrups	Paper stock

Mather+Platt

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