



# ‘Exceed Basics... The Preferred Choice.’

available as option...

## ‘XcelBond’ coating

Performance at it's Best in  
Rugged Conditions...

- ✓ **PROTECT AGAINST CORROSION**  
...No more rusty water! Resistance to water effluent, sea water, sea mist, solvents, most hydro-carbons and large number of chemicals!
- ✓ **GOOD RESISTANCE TO WEATHERING & TOUGH ENVIRONMENT!**
- ✓ **PRESERVING WATER QUALITY**  
...Meets most international requirements on suitability in contact with drinking water.
- ✓ **ABRASION & IMPACT RESISTANCE!**
- ✓ **LOW FRICTION COEFFICIENT**  
...Improve flow of fluids, hence improve pump performance!
- ✓ **AESTHETICALLY PLEASING**  
...smooth, attractive & quality surface finish!

### Model Designation

**DIN-MASTER MODEL PREFIX** | **DMT** **80** **320** / **M** **B**

### DIMENSIONS

Pump nominal discharge diameter in mm |  
Impeller nominal diameter in mm |

### TYPE OF SHAFT SEAL

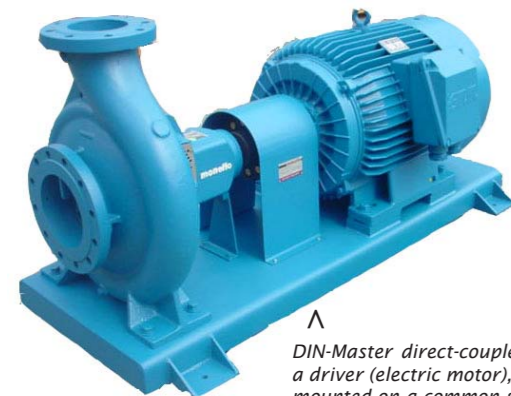
**M** | Mechanical seal  
**P** | Packed gland

### MATERIAL EXECUTION

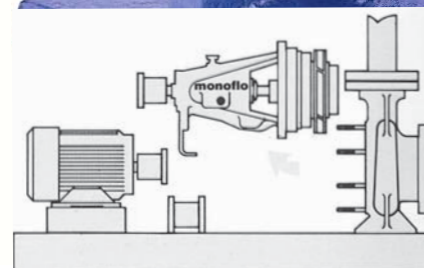
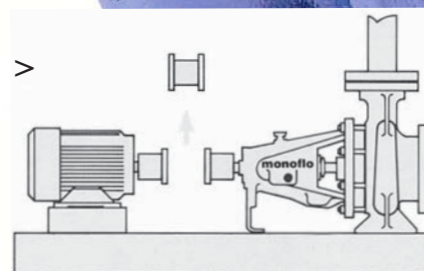
**G** | Cast iron casing; cast iron impeller  
**B** | Cast iron casing; bronze impeller  
**NG** | Nodular cast iron casing; cast iron impeller  
**NB** | Nodular cast iron casing; bronze impeller  
**S** | Stainless steel casing; stainless steel impeller

### ‘Back pull-out’ Feature

If spacer coupling is installed, pump can be separated from the driver without having to dismantle the driver or pump from the common skid.



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DIN-Master direct-coupled to a driver (electric motor), all mounted on a common skid



Bearing housing assembly can be removed for repair or servicing without having to disturb the connected piping.



Pump   Operating limits & data	
Liquid handled	Clean water or slightly-aggressive liquid compatible to pump material of construction
Working pressure	Maximum working pressure up to <b>16 bar</b> (with exception of some models at 10 bar). Pressure rating up to <b>24 bar</b> available as option.
Flowrate	Maximum capacity up to <b>300 litres/sec (1 080 m<sup>3</sup>/hr)</b> .
Discharge head	Maximum discharge pressure up to <b>150 metres (15 bar or 150kPa)</b> .
Operating temperature	The ambient temperature shall not exceed <b>40°C</b> . Temperature range of medium pumped, from <b>-15°C to 120°C</b> , depending on type of shaft seal.
Operating speed	Nominal operating speed up to <b>2 900 r.p.m.</b> at 50Hz, and <b>3 600 r.p.m.</b> at 60Hz.
Flanges	PN 16   ISO7005.2 1988; BS 4504-1969 Table 16/11; DIN 2501/P1PN16 PN 25 as option

Parts	Material of construction		
	Standard	Optional	
Casing & Backplate	Cast iron GG25 AS 1830/T260   BS 1452Gr260	Nodular (Ductile) cast iron AS1831/400   BS2789Gr500/7	Cast stainless steel AS 2074/H6B   BS1504Gr316
Impeller	Cast iron GG25 AS 1830/T260   BS 1452Gr260	Gunmetal [Bronze] AS1565/836   BS1400LG2	Cast stainless steel AS 2074/H6B   BS1504Gr316
Shaft	Stainless steel 420 AS 1444/420   BS 970Gr.420 S37	Stainless steel 316 AS 1444/316   BS 970Gr.316 S16	Duplex stainless steel 1.4460
Shaft sleeves [Gland packed shaft seal]	Stainless steel 420 AS 1444/420   BS 970Gr.420 S37	Stainless steel 316 AS 1444/316   BS 970Gr.316 S16	Duplex stainless steel 1.4460
Casing wear ring	Cast iron GG25 AS 1830/T260   BS 1452Gr260	Gunmetal [Bronze] AS1565/836   BS1400LG2	
Shaft seal	Mechanical seal Carbon/Silicon Carbide, Nitrile o-ring	Mechanical seal SiC/SiC, Viton o-ring	Packed gland Ramie fiber impregnated with PTFE

Remarks: For more comprehensive pump construction material, and equivalent material specification, refer to MONOFLO Pumps technical data sheets.