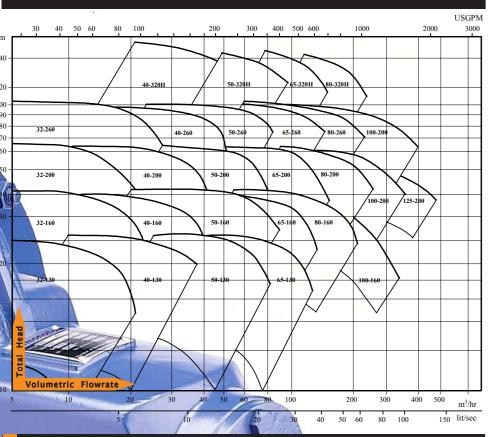
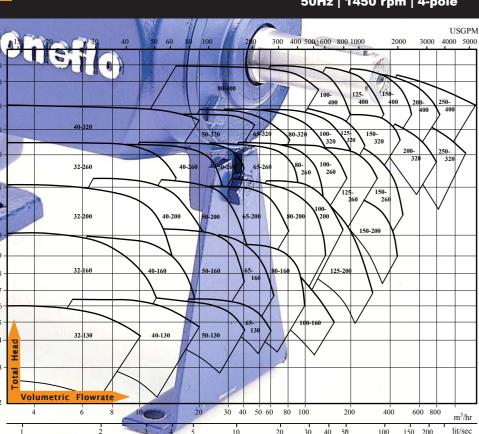
Performance Range

Performance tested to ISO 9906 Class II | Test water temperature of 20°C





50Hz | 1450 rpm | 4-pole



Remarks | Refer to MONOFLO individual pump performance curves for accurate selections

DIN-Master

DMT

DIN 24255 Single Stage Horizontal End Suction Back Pull-out Centrifugal Pump



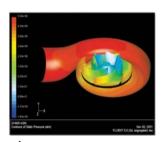
General

The MONOFLO 'DIN-Master' fully conforms to the pump standard DIN 24255 and covers all sizes nominated. For most sizes, the hydraulic performance exceeds the requirements of D I N 2 4 2 5 5 .

All pumps are mounted on standardised bearing assemblies - Modules 25, 35 and 45, giving high parts interchangeability.

The DIN-Master range has been extended to include four models with 200mm & 250mm discharge, catering for flows up to 300 litres/ sec. These sizes are mounted on a 4th standardised bearing assembly - Module 55.

DIN-Master offers users many advantages over equivalent pumps, because the range incorporates a number of features that improve reliability & performance, while simplifying maintenance and spare parts inventory.



Computer Fluid Dynamics (CFD) analysis on the DIN-Master for optimum hydraulic performances

Design Features

VOLUTE CASING | Manufactured in high-grade cast iron as standard with integral cast feet and vertical centerline discharge for automatic self-venting. Ductile iron and cast stainless steel casings are available as an option.

IMPELLERS | Impellers are of the double shrouded type for higher efficiency, and are hydraulically balanced by rear balance vanes for impeller sizes below 300mm. Impellers above dia. 300mm, are achieved with double seal rings and balance holes.

ROBUST BEARING HOUSING | Incorporated with lifting eye to simplify removal of the rotating element during maintenance.

'Safe guards' are installed to prevent rotating shaft from human reach while in operation.

ANGULAR CONTACT BEARING **DESIGN** | Upgraded "pump end" angular contact bearing design with regreaseable bearings, lip seals and water flinger to prevent ingress of dust and moisture. This significantly improves bearing life.

REPLACEABLE WEAR RING Wear rings are fitted to the volute as standard on all sizes. On models with double seal ring impellers, an additional wear ring is fitted in the backcover.

'BACK PULLOUT' FEATURE Feature allows the whole rotating element to be removed for maintenance, without disturbing pipework.

Applications

BUILDING SERVICES General water transfer; pressure boosting systems; chilled & condenser water circulation in air-conditioning systems, fire fighting application; landscaping & water feature applications; and swimming pools.

INDUSTRIAL | Water circulation & machine cooling; cooling tower water circulation; washing system; waste water treatment system handling non-aggressive liquid; heat exchanger and other manufacturing processes.

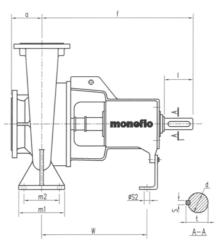
AGRICULTURAL Horticultural irrigation & sprinkler systems.

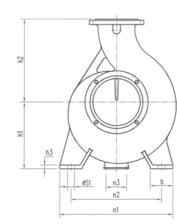
Safety feature | Bearing pedestal incorporated with 'safe guards'



monoflo P U M P S

Dimensions





Pump models	Shaft Module	Nominal flange size		Dim	Dimensions												W t [kg]				
				Pum	р	Foo	Foot mount							Shaft end							
		Inlet	Outlet	a		h,	h ₂	b	m 1	m 2		n ₂	n ₃	w	Øs,	Øs ₂	d				
DMT 32-130	25	50	32	80	360	112	140	50	100	70	190	140	100	267	14	14	24	50	27	8	28
DMT 32-160	25	50	32	80	360	132	160	50	100	70	240	190	100	267	14	14	24	50	27	8	36
DMT 32-200 DMT 32-260	25 25	50 50	32 32	80 100	360 360	160 180	180 225	50 65	100 125	70 95	240 320	190 250	110 110	267 267	14 14	14 14	24 24	50 50	27 27	8 8	43 63
DMT 40-130	25	65	40	80	360	112	140	50	100	70	210	160	100	267	14	14	24	50	27	8	31
DMT 40-160	25	65	40	80	360	132	160	50	100	70	240	190	100	267	14	14	24	50	27	8	37
DMT 40-200	25	65	40	100	360	160	180	50	100	70	265	212	110	267	14	14	24	50	27	8	46
DMT 40-260	25	65	40	100	360	180	225	65	125	95	320	250	110	267	14	14	24	50	27	8	63
DMT 40-320 DMT 40-320H	35 35	65 65	40 40	125 125	470 519	200	250 250	67 67	125 125	95 95	345 345	280 280	110 110	342 364	14 14	14 14	32 42	80 110	35 35	10 10	96 110
DMT 50-130 DMT 50-160	25 25	65 65	50 50	100	360 360	132 160	160 180	50 50	100	70 70	240 265	190 212	100 110	267 267	14 14	14 14	24 24	50 50	27 27	8 8	34 38
DMT 50-160 DMT 50-200	25	65	50 50	100	360	160	200	50	100	70 70	265	212	110	267	14	14	24	50	27	8	48
DMT 50-260	25	65	50	100	360	180	225	65	125	95	320	250	110	267	14	14	24	50	27		65
DMT 50-320	35	65	50	125	470	225	280	65	125	95	345	280	110	342	14	14	32	80	35	10	101
DMT 50-320H	35	65	50	125	524	225	280	65	125	95	345	280	110	364	14	14	42	110	35	12	115
DMT 65-130	25	80	65	100	360	160	180	65	125	95	280	212	110	267	14	14	24	50	27	8	40
DMT 65-160	25	80	65	100	360	160	200	65	125	95	280	212	110	267	14	14	24	50	27	8	44
DMT 65-200	25	80	65	100	360	180	225	65	125	95	320	250	110	267	14	14	24	50	27	8	54
DMT 65-260 DMT 65-320	35 35	80 80	65 65	100 125	470 470	200 225	250 280	80 80	160 160	120 120	360 400	280 315	110 110	342 342	18 18	14 14	32 32	80 80	35 35	10 10	83 110
DMT 65-320H	35	80	65	125	520	225	280	80	160	120	400	315	110	363	18	14	42	110	35	12	124
DMT 80-160	25	100	80	125	360	180	225	65	125	95	320	250	110	267	14	14	24	50	27	8	55
DMT 80-200	35	100	80	125	470	180	250	65	125	95	345	280	110	342	14	14	32	80	35	10	72
DMT 80-260	35	100	80	125	470	200	280	80	160	120	400	315	110	342	18	14	32	80	35	10	92
DMT 80-320	35	100	80	125	470	250	315	80	160	120	400	315	110	342	18	14	32	80	35	10	120
DMT 80-320H	45	100	80	125	521	250	315	80	160	120	400	315	110	363	18	14	42	110	45	12	134
OMT 80-400	45	100	80	125	530	280	355	80	160	120	440	355	110	370	18	14	42	110	45	12	162
DMT 100-160	35	125	100	125	470	200	250	80	160	120	360	280	110	342	18	14	32	80	35	10	72
DMT 100-200 DMT 100-260	35 35	125 125	100 100	125 140	470 470	200 225	280 280	80 80	160 160	120 120	360 400	280 315	110 110	342 342	18 18	14 14	32 32	80 80	35 35	10 10	87 110
DMT 100-200	35	125	100	140	470	250	315	80	160	120	400	315	110	342	18	14	32	80	35	10	134
DMT 100-400	45	125	100	140	530	280	355	100	200	150	500	400	110	370	23	14	42	110	45	12	177
DMT 125-200	35	150	125	140	470	250	315	80	160	120	400	315	110	342	18	14	32	80	35	10	106
DMT 125-260	35	150	125	140	470	250	355	80	160	120	400	315	110	342	18	14	32	80	35	10	115
DMT 125-320	45	150	125	140	530	280	355	100	200	150	500	400	110	370	23	14	42	110	45	12	163
DMT 125-400	45	150	125	140	530	315	400	100	200	150	500	400	110	370	23	14	42	110	45	12	190
OMT 150-200	35	200	150	160	495	280	400	100	200	150	550	450	110	367	23	14	32	80	35	10	156
DMT 150-260	45	200	150	160	530	250	355	100	200	150	450	350	110	370	23	14	42	110	45	12	148
DMT 150-320	45	200	150	160	530	280	400	100	200	150	550	450	110	370	23	14 14	42	110	45	12	175
DMT 150-400	45	200	150	160	530	315	450	100	200	150	550	450	110	370	23	14	42	110	45	12	210
DMT 200-320	55	250	200	180	670	315	480	120	220	170	600	480	110	504	28	14	48	110	51	14	251
DMT 200-400	55	250	200	180	670	335	480	120	220	170	600	480	110	504	28	14	48	110	51	14	295
DMT 250-320	55	300	250	220	691	355	520	150	250	200	660	510	110	525	28	14	48	110	51	14	311
DMT 250-400	55	300	250	220	691	400	560	150	250	200	660	510	110	516	28	14	48	110	51	14	390

As MONOFLO Pumps is constantly improved, we reserve the right to make specification changes without prior notice and without incurring liability | Copyrights Reserved | Monoflo Pumps Pty Ltd



For inquiries, services & spare parts

Distributor



Exceed Basics... The Preferred Choice.

Model Designation

DIN-MASTER MODEL PREFIX |-

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.



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

moneflo

'XceBond' Performance at it's Best in

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

ability in contact with drinking water ..Meets most international requireme

ABRASION & IMPACT RESISTANCE!

LOW FRICTION COEFFICIENT

...Improve flow of fluids, hence impr

VAESTHETICALLY PLEASING

...smooth, attractive & quality surface

	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 16 bar (with exception of some models at 10 bar). Pressure rating up to 24 bar available as option.
Flowrate	Maximum capacity up to 300 litres/sec (1 080 m³/hr).
Discharge head	Maximum discharge pressure up to 150 metres (15 bar or 150kPa).
Operating temperature	The ambient temperature shall not exceed 40°C . Temperature range of medium pumped, from -15°C to 120°C , depending on type of shaft seal.
Operating speed	Nominal operating speed up to 2 900 r.p.m. at 50Hz , and 3 600 r.p.m. at 60Hz .
Flanges	PN 16 ISO7005.2 1988; BS 4504-1969 Table 16/11; DIN 2501/P1PN16 PN 25 as option

Rugged Conditions...

			Material of construction
Parts	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 BS1 504Gr316
Impeller	Cast iron GG25 AS 1830/T260 BS 1452Gr260	Gunmetal [Bronze] AS1565/836 BS1400LG2	Cast stainless steel AS 2074/H6B BS1 504Gr316
Shaft	Stainless steel 420 AS 1444/420 BS 970Gr.420 S37	Stainless steel 316 AS 1444/316 BS 970Gr.316 S16	Duplex stainless steel
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 PT

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

