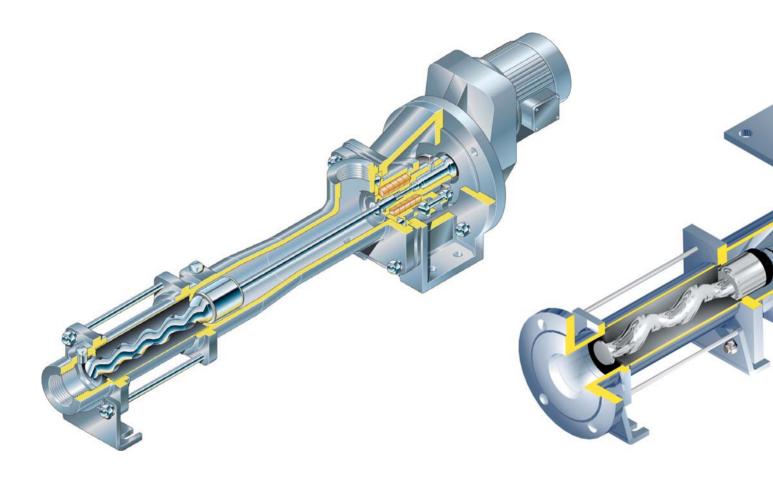
THE MONOBLOC® B RANGE





The Monobloc® B Range

Mono®. The name in bloc pumps



The Mono Pedigree

Mono Pumps Ltd., have been at the forefront of progressing cavity pump design since 1935. With the experience gained from over 60 years we are able to reflect the varying needs of our extensive customer base worldwide. And an all round efficiency and quality which our customers demand, and to which we are committed.

A long term commitment which is underlined by our attainment of ISO 9001:2000.

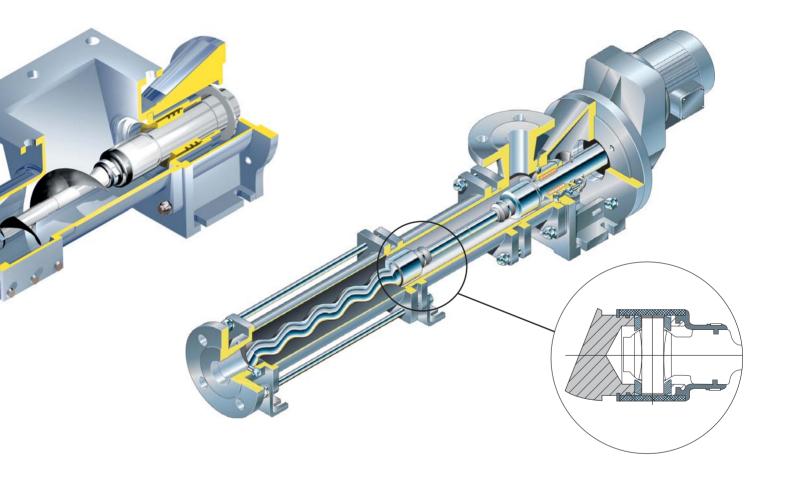
Monobloc® B Range

The design philosophy behind the range is one of value for money, combined with compact construction and maximum performance characteristics.

There are a number of B Range models available in cast iron or stainless steel, capable of achieving capacities up to 225m³/h and differential pressures up to 24 bar.

For sludge applications, where the solids content requires assistance into the pumping element, the Monobloc B Range can be supplied with a square inlet.





Design

The Monobloc B Range design incorporates many features developed, proven and more importantly, manufactured by Mono Pumps Ltd. within their internationally recognised and approved ISO 9001:2000 Quality Management System.

The rotor/drive train utilises an upgraded sealed pin joint design or Mono's unique Flexishaft® drive resulting from our continuous programme of research and development.

The criteria adopted by the Company for the design and development of new products, as documented in our ISO 9001:2000 procedures, ensure that all products are endurance tested at maximum speed and pressure.

Varying gearbox/motor drive arrangements are flange mounted with a plug-in shaft fixing to facilitate ease of assembly and dismantling.

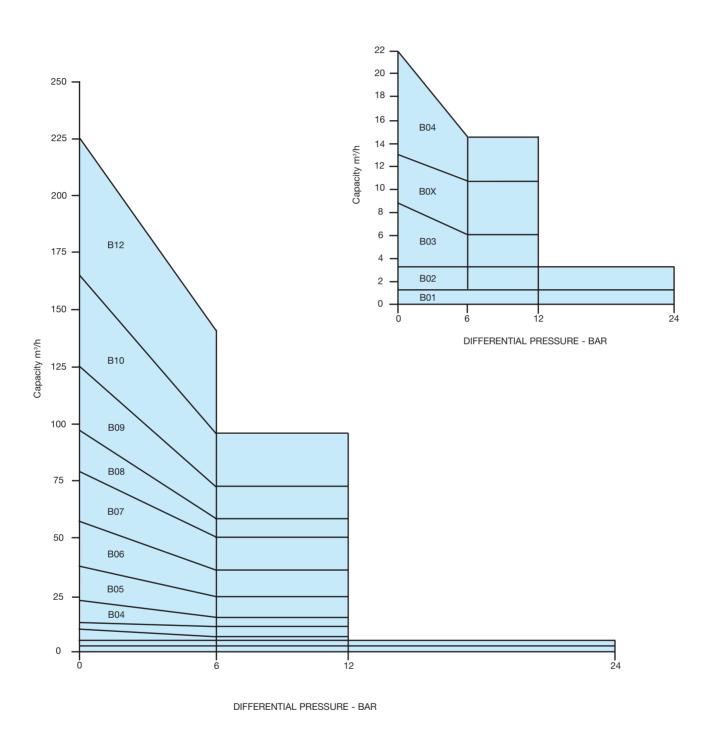
B Range Pump Coding

1 2 3 4 5 6 7 8 9 10 0 / 12 13 14 1	FEATURES	DESCRIPTION			В	ASIC	PU	IMP	CO	DE					IATI	ANDARD RIATION		
Stainless Steel			1	2	3	4	5	6	7	8	9	10	/	12	13	14	15	
PUMP DESIGN Monobloc B B	DODY MATERIAL C	Cast Iron	С															
1.3m²/h @ 1750 rev/min	BODY MATERIALS	Stainless Steel	S															
3.3m²/h @ 1750 rev/min	PUMP DESIGN	Monobloc		В														
10m/l/ @ 1500 rew/min		1.3m³/h @ 1750 rev/min			0	1												
NOMINAL PUMP CAPACITY AT MAXIMUM SPEED AND ZERO A BOOD rew/min		3.3m ³ /h @ 1750 rev/min			0	2										14		
NOMINAL PUMP CAPACITY AT A S S S S S S S S S		10m³/h @ 1500 rev/min			0	3												
CAPACITY AT MAXIMUM SPEED AND ZERO TWO rev/min		13m³/h @ 1500 rev/min			0	Х										TION		
MAXIMUM SPEED AND ZERO SPEED S		22m³/h @ 1000 rev/min			0	4												
AND ZERO PRESSURE 57m/h @ 700 rev/min		37m³/h @ 800 rev/min			0	5												
PRESSURE 79m³/h @ 600 rev/min		57m³/h @ 700 rev/min			0	6												
125m²/h @ 450 rev/min		79m³/h @ 600 rev/min			0	7												
165m³/h @ 400 rev/min		97m³/h @ 500 rev/min			0	8												
PUMP STAGES		125m³/h @ 450 rev/min			0	9												
Low Pressure		ERIALS Cast from Cas																
Doe		225m³/h @ 350 rev/min			1	2	L											
Two		Low Pressure					K											
Two Four F	DUMAD OTA CEC	One					1											
BUILD OPTIONS Bareshaft (Size 041 & above)	PUMP STAGES	Two					2	[
BUILD OPTIONS Refer to Build Options in Volume 1		Four					4	L										
BUILD OPTIONS Refer to Build Options in Volume 1		Bareshaft (Size 041 & above)						Н										
Refer to Build Options in Volume 1		,		П				Α										
Str.thro E/C, Mk 1 rotor	BUILD OPTIONS							В										
Str.thro E/C, Mk 1 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 1 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Str.thro		Refer to Build Options in Volume 1						С										
MECHANICAL SEAL END COVER & DUTY Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 1 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Str.thro E/C																		
Succession Suc		Str.thro E/C, Mk 1 rotor							Ε	ĺ								
Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Mk 1 rotor Str.thro E/C, Mk 0 rotor Str.thro E/C, Std duty Str.thro E/C, Std duty Conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts Str.thro E/C, Std duty Conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts Str.thro E/C, Std duty Conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts C B 0 5 1 B K 1 A 3 / G Str.thro E/C, Std duty Str.thro E/C, Mk 0 rotor Str.thro E/C, M		90° E/C, Mk 1 rotor							F	l								
PACKED GLAND Str. thro E/C, Mk 1 rotor		Str.thro E/C, Mk 0 rotor							к	l								
STATOR DESIGN & Str.thro E/C, Mk 0 rotor Str.thro E/C, Std duty Str.thro E/C, Std duty Str.thro E/C, Std duty Conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts Str.thro E/C, Std duty Str.thro E/C,	CONDITIONS	90° E/C, Mk 0 rotor							М						RIATIO			
END COVER, STATOR DESIGN & Str.thro E/C, Mk 0 rotor	DACKED GLAND	Str.thro E/C, Mk 1 rotor							С	ĺ								
STATOR DESIGN & Str.thro E/C, Mk 0 rotor 90° E/C, Mk 0 rotor		90° E/C, Mk 1 rotor							G	l								
DUTY CONDITIONS 90° E/C, Mk 0 rotor		Str.thro E/C, Mk 0 rotor							х	l								
DESIGN MARK NUMBER B-Range Square Inlet C B D D S D D D D D D D D D D D D D D D D	DUTY CONDITIONS	90° E/C, Mk 0 rotor							_	l								
NUMBER										1	İ							
B-Range Square Inlet RA, RR etc. ROTATING PARTS 1, 3, 4, 5, 8 Cast Iron Monobloc size 05 single stage. Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts CB 0 5 1 B K 1 A 3 PRIME MOVER AND PORT OPTIONS B-Range Square Inlet S										2	Ī							
ROTATING PARTS 1, 3, 4, 5, 8 Cast Iron Monobloc size 05 single stage. Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts CBB 0 5 1 B K 1 A 3 PRIME MOVER AND PORT OPTIONS 1, 3, 4, 5, 8 Cast Iron Monobloc size 05 single stage. Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts CBB 0 5 1 B K 1 A 3 GB 1 B K 1 A 3 / G	NUMBER	B-Range Square Inlet								s	1					11101		
TYPICAL BASIC PUMP CODING Cast Iron Monobloc size 05 single stage. Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts CBB 0 5 1 B K 1 A 3 FRIME MOVER AND PORT OPTIONS CBB 0 5 1 B K 1 A 3 CBB 0 5 1 B K 1 A 3	STATOR MAT'L	RA, RR etc.									Α							
TYPICAL BASIC PUMP CODING Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural rubber stator, Code 3 rotating parts C B 0 5 1 B K 1 A 3 G'- Standard Bloc 'H' - Standard Bareshaft 'C' - Bareshaft - Mono Australia Only PORT OPTIONS C B 0 5 1 B K 1 A 3 / G	ROTATING PARTS											3						
C B O 5 1 B K 1 A 3 / G		Mechanical seal, str thro E/C, Std duty conditions, Mk 0 rotor, Design 1, Natural	С	В	0	5	1	В	К	1	Α	3						
		'H' - Standard Bareshaft 'C' - Bareshaft - Mono Australia Only	С	В	0	5	1	В	к	1	А	3	/	G				
'J' - Japan		'E' - Standard ANSI]															
		'J' - Japan															L	

NOTES:

- 1) Pump sizes B01-B03, B0X1 and B0X2 are fitted with a Flexishaft® and carry the 5 year Flexishaft Warranty.
- 2) Pump sizes B012-B032 have BSP Parallel threads. All others are flanged to BS4504.
- 3) A wide range of stator materials are available to cover various liquids.
- 4) Hard faced, single mechanical seal is the standard offering, other options available.

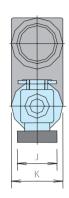
B Range Performance Data

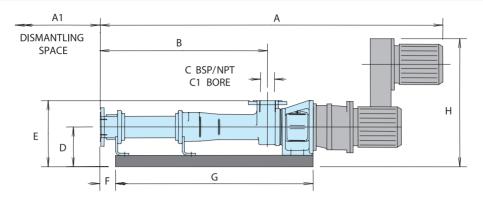


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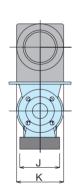
For guidance in selecting a pump, please refer to Mono Pumps Ltd., Audenshaw, Manchester.

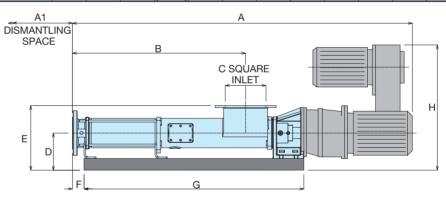
B Range Unit Dimensions





MODEL	Α	A 1	В	С	C1	D	E	F	G	Н	J	K	Wt
B012	1121	115	444	1 1/4"	\times	174	235	42	535	587	229	254	90
B014	1265	250	588	1 1/4"	\times	174	235	42	679	652	229	270	101
B021	1121	115	444	1 1/4"	\times	174	235	42	535	587	229	254	90
B022	1265	250	588	11/4"	\supset	174	235	42	679	652	229	270	101
B024	1895	525	944	1 1/2"	>	174	239	46	1035	652	229	270	122
B03K	1331	250	650	1 1/2"	\times	174	239	46	741	652	229	270	108
B031	1186	165	505	1 1/2"	\times	174	239	46	596	652	229	270	101
B032	1331	300	650	1 1/2"	\times	174	239	46	741	652	229	270	108
B0XK	1450	302	752	\times	50	174	279	51	855	652	229	270	119
B0X1	1267	135	569	\times	50	174	279	51	672	652	229	270	115



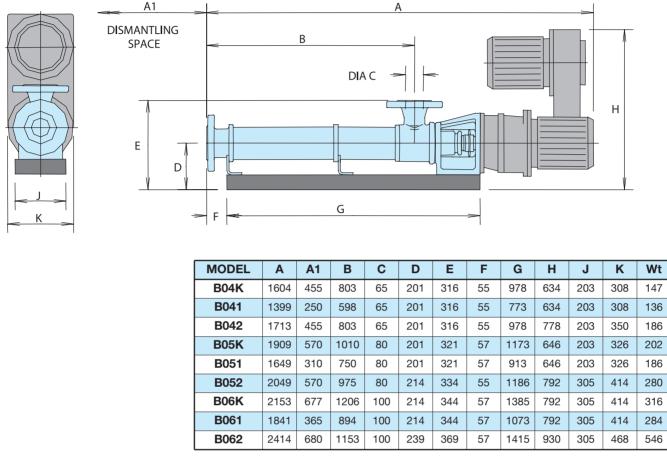


MODEL	Α	A1	В	C	D	Е	F	G	Н	J	K	Wt
B041	1399	250	572	165	201	316	55	773	634	203	308	142
B04K	1604	455	777	165	201	316	55	978	634	203	308	153
B051	1566	310	631	165	201	321	57	913	646	203	326	187
B05K	1826	570	891	165	201	321	57	1173	646	203	326	203
B061	1841	365	844	200	214	344	57	1073	792	305	414	287
B06K	2153	677	1156	200	214	344	57	1385	792	305	414	319
B071	2249	430	973	240	239	399	57	1250	918	305	468	547
B07K	2618	799	1341	240	239	399	57	1619	918	305	468	601
B081	2293	475	1017	240	239	399	57	1355	918	305	468	555
B08K	2701	883	1425	240	239	399	57	1763	918	305	468	610



Wt is the approximate weight of the largest combination of pump and drive (kg). Dimensions shown represent the largest combination of pump and drive. Dimensions in mm.

B Range Unit Dimensions



B07K	2618	799	1396	125	239	399	57	1619	918	305	468	598
B071	2249	430	1027	125	239	399	57	1250	918	305	468	544
B072	2659	707	1395	125	239	399	57	1618	930	305	468	602
B08K	2762	883	1539	125	239	399	57	1763	918	305	468	609
B081	2354	475	1131	125	239	399	57	1355	918	305	468	554
B082	2835	880	1484	150	249	409	57	1795	940	305	468	630
B09K	2988	992	1727	150	249	434	50	1992	940	305	468	707
B091	2526	530	1265	150	249	434	50	1530	940	305	468	625
B092	3026	990	1727	150	249	434	90	1952	963	305	468	753

B10K	3174	1141	1875	150	249	434	90	2100	940	305	468	757
B101	2643	610	1344	150	249	434	90	1569	940	305	468	668
B102	3282	1050	1937	150	327	512	90	2250	1154	432	470	914
B12K	3708	1213	2344	200	327	552	32	2734	1154	432	470	1052
B121	3074	570	1710	200	327	552	32	2100	1154	432	470	890

Wt is the approximate weight of the largest combination of pump and drive (kg). Dimensions shown represent the largest combination of pump and drive. Dimensions in mm.

Applications

The Monobloc B Range has been designed for sections of industry where a compact pump is required at exceptional value for money, particularly with the water and waste treatment industry in mind. Specific areas of suitability are:-

Waste Water Treatments

Liquids of various viscosities: water to thickened sludges, slurries to non-flowing, de-watered sludges



Solids inclusions:

suspended or settled solids, fibrous or raggy solids.

Abrasive particles: sand, gravel and industrial wastes.

In addition, polyelectrolytes, lime, acids, carbon slurries, chlorine, digested sewage sludge, filter pressed sludges, macerated raw sewage sludge and aluminium sulphate can also be handled by these pumps.

Other features that make the Monobloc B Range ideal for the water industry are its good suction lift capability of over 8 metres, positive displacement for



process control and variable speed for accurate dosing.

The small pumps use the latest technology incorporating the proven Mono Flexishaft principle. This feature improves pump reliability and coupled with the modularity of components, the cost of stocking spare parts is significantly reduced.

The Monobloc B Range is ideally suited to the following applications:

Paper and Ceramics Industry

titanium dioxide bentonite slurry
latex coating mixes
starch ceramic slip
clay slurry

Chemical Industry

phosphoric acid alum caustic solutions petroleum spirit diesel fuel oil ferric chloride ethylene glycol



Mining Industry

grouting mixes cavi coal slurries nuis

cavity filling nuisance and waste water

Food Industry

molasses sauces
cooking oil whey
jellies fruit juices
yoghurt pet food



Service and Technology

At Mono Pumps Ltd. full pre-sales support and post-order back up is all part of the service.

We use the latest technology, such as computer based flexible manufacturing systems, computerised bar stores and information systems.

These control systems are supported by advanced manufacturing facilities, for example, a comprehensive stator manufacturing plant, to ensure that we always produce pumps and parts to a consistently high standard.

Attention to detail, combined with a wealth of technical advice and CAPS (Computer Aided Pump Selection), ensures clients will receive a product that is quality assured.

A quality and reliability you can count on, with the added reassurance that all products are supplied and delivered on time - every time.



Quality

It is the policy of Mono Pumps Ltd. to achieve Total Quality performance in meeting the requirements of both external and internal customers. Total Quality performance means understanding who the customer is, what the requirements are, and meeting those requirements, without error, on time, every time.

Mono Pumps Ltd. has been approved to ISO 9001 by Lloyds Register of Quality Assurance since 1990.

This continuing commitment to Quality is a major element of the Company's strategy of product development. The Company manufactures products within a Quality Management System which is independently measured against industry recognised standards throughout the world.

Genuine Mono® Parts

Quality is assured. Strict quality procedures ensure dimensionally accurate interchangeable parts. Quick delivery and easy availability are provided by Mono Pumps Ltd. or our International Distributor Network. Full back-up services are also on hand to give technical advice to customers and distributors as and when necessary.

By using only genuine Mono spares you automatically reduce the risk of pump breakdown and preserve the full Mono guarantee.

Mono spares result in lower fitting costs, greater efficiency, reduced running costs and longer pump life - as well as guaranteed quality and value for money.

