



# BAKERFLOW™ SW SERIES PUMPS

The Bakerflow™ SW series is a range of general purpose centrifugal pumps that are commonly coupled to electric motors and diesel engines via a spacer coupling.

# MASTERFLOW

# BAKERFLOW™ SW SERIES: BACK PULL-OUT CENTRIFUGAL PUMPS

Economy, reliability and the convenience of being designed and manufactured to one of the world's most widely accepted pump standards DIN 24255/EN733. Bakerflow™ SW series is a range of general purpose centrifugal pumps designed and built for long service and low maintenance in a wide range of 'clear liquid' applications.

Bakerflow™ have reduced the number of pump sizes required to cover a broad performance range, making selection easier and reducing the spare inventory required for multiple pump installations.

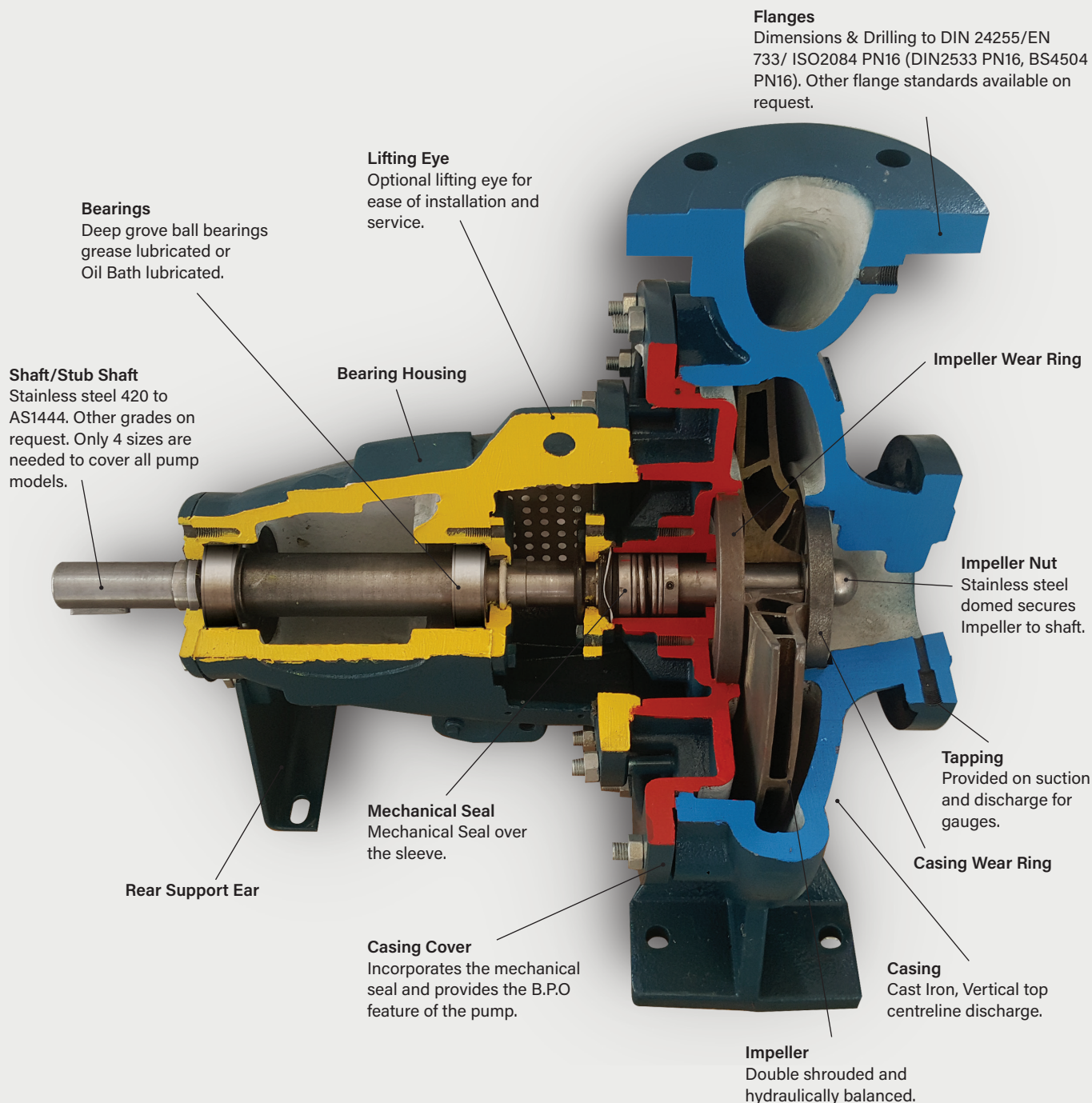
Standard construction features rugged back pull-out design which includes integral cast iron volute casing (foot mounted) and bearing frame, bronze, or stainless steel impellers, high quality stainless shaft and sleeve with mechanical seals (packed gland on request).

## APPLICATIONS

- Air Conditioning
- Fire Fighting
- Irrigation
- Mining
- General Industry
- Commercial or Domestic Plumbing

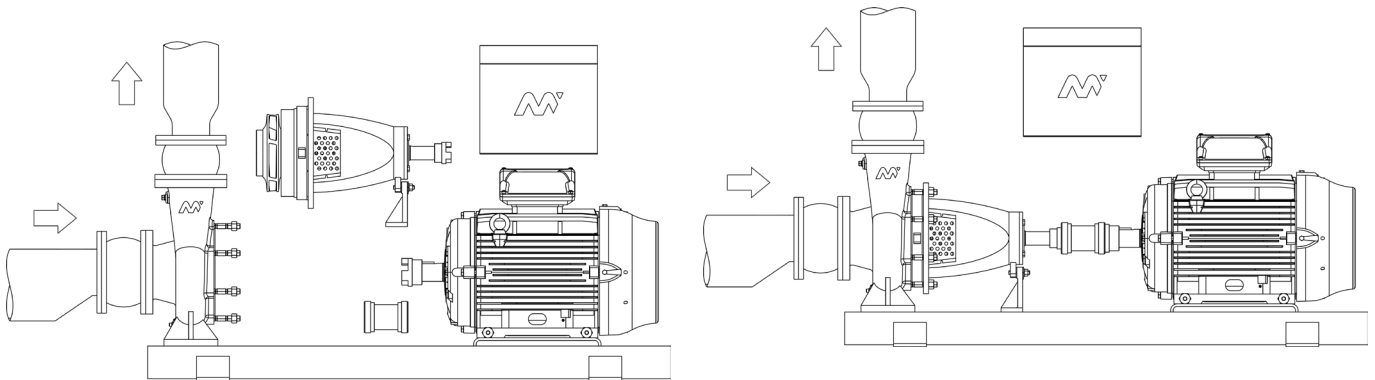


# QUALITY FEATURES AND MULTIPLE OPTIONS MAKE BAKERFLOW™ THE SUPERIOR CHOICE



# DESIGN FEATURES

The back-pull-out design enables the pump rotating unit to be removed without disturbing the pipe connections. Using spacer-type coupling, the prime mover is also undisturbed. This advantage reduces service time resulting in lower maintenance costs and reduction in production losses.

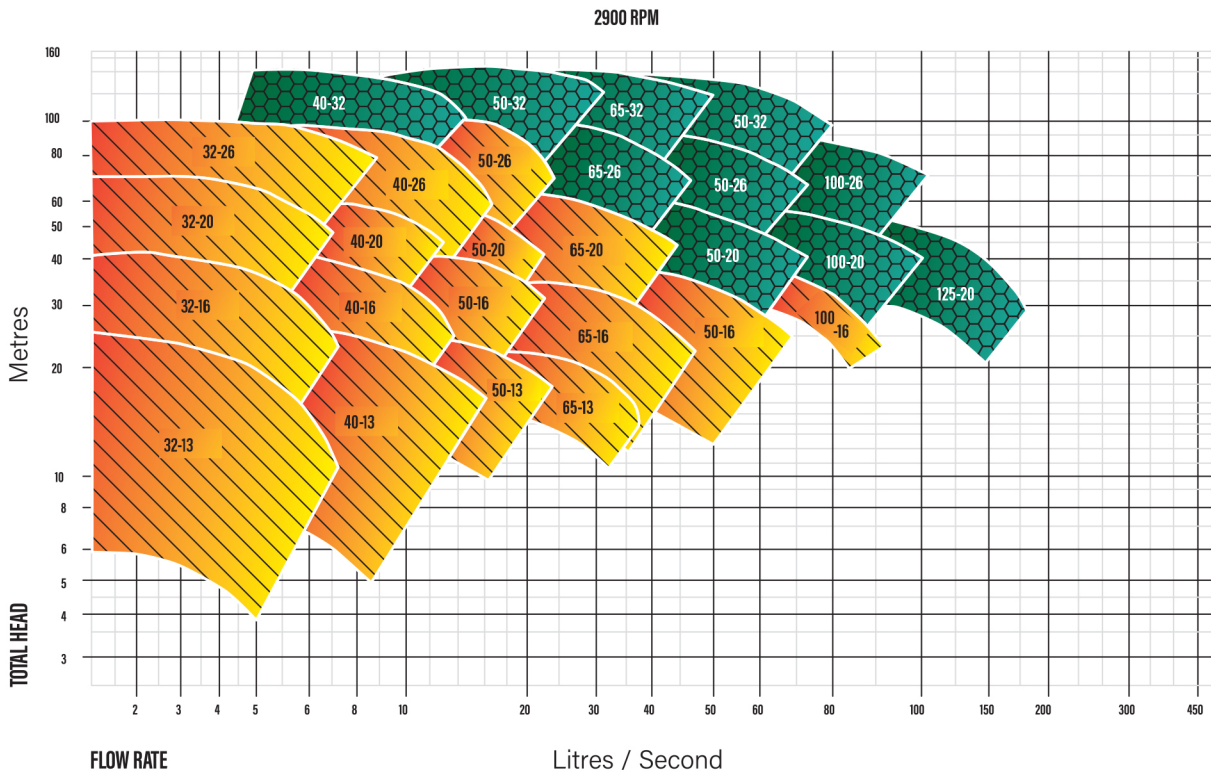
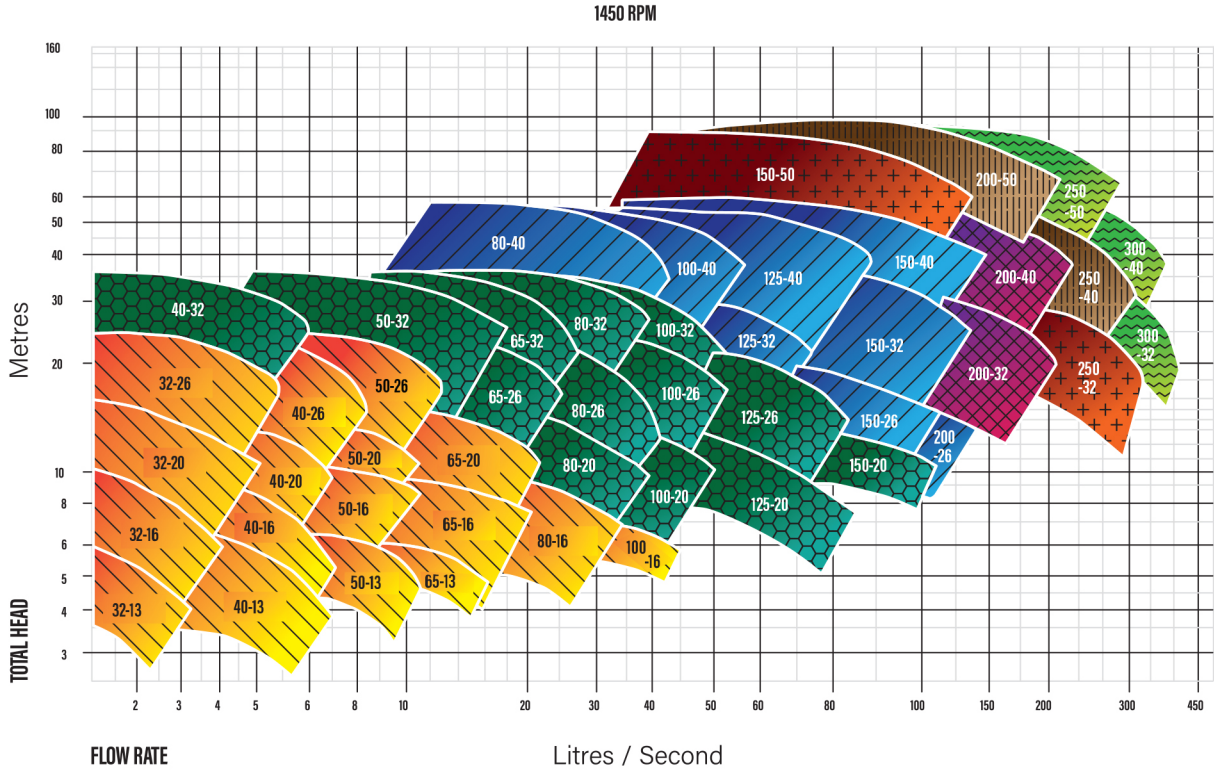


# PUMP MATERIAL OPTIONS

CODE	CASING	IMPELLER	SHAFT	SHAFT SLEEVE	WEAR RING
10	Cast Iron AS1830 T220	Bronze (zinc free) AS1565 C95210	Stainless Steel AS1449 GR420	Stainless Steel AS1449 316Ti	Bronze (zinc free) AS1830 T220
50	Cast Iron AS1830 T220	Stainless Steel AS1449 316Ti	Stainless Steel AS1449 GR420	Stainless Steel AS1449 316Ti	Cast Iron AS1830 T220
52	Cast Iron AS1830 T220	Cast Iron AS1830 T220	Stainless Steel AS1449 GR420	Stainless Steel AS1449 316Ti	Cast Iron AS1830 T220
60	Stainless Steel AS1449 316Ti	Stainless Steel AS1449 316Ti	Stainless Steel AS1449 316Ti	Stainless Steel AS1449 316Ti	Stainless Steel AS1449 316Ti



# PERFORMANCE CURVES - BAKERFLOW



# TECHNICAL DATA

## GENERAL INFORMATION

The Bakerflow™ range fully complies to both performance and dimensional standards of international standard DIN 24255 (EN 733) exceeding the specified nominal impeller diameter

## CASING

Volute casing is radially split to allow removal of rotating element without disturbing casing and piping.

## BRANCH POSITIONS

Axial end suction. Radial vertically upwards centre-line discharge, makes casing self-venting gauge connections are provided as standard.

## MOUNTING

Volute casing has integral cast support feet with holes for holding down bolts.

## AXIAL HYDRAULIC THRUST BALANCING OF IMPELLERS

Smaller sizes are balanced by back vanes on the impeller and other sizes by balance holes and wear ring on rear of impeller.

## IMPELLER PERIPHERAL SPEED

The maximum impeller peripheral speed is 40m/sec for cast iron impellers and 60m/sec for bronze/stainless steel impellers.

## ROTATION

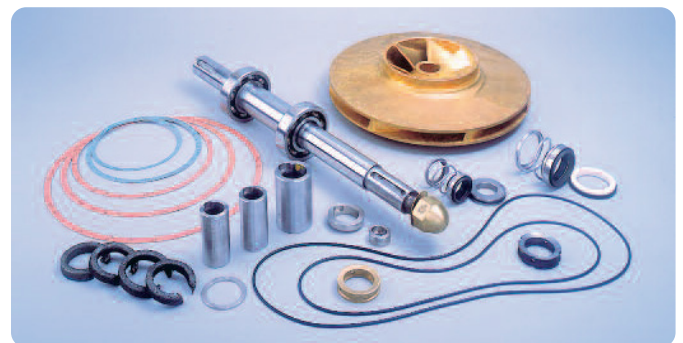
Clockwise viewed from driven end.

## LUBRICATION

Bearings should be lubricated in accordance with the Instruction Operational Manual and with respect to the application.

## SPARES AND ACCESSORIES

By using a module system, the Bakerflow™ pump spare parts are interchangeable within each module. Masterflow stock spare parts plus a range of other accessories required in pump installations.



# MAXIMUM WORKING AND TEST PRESSURES

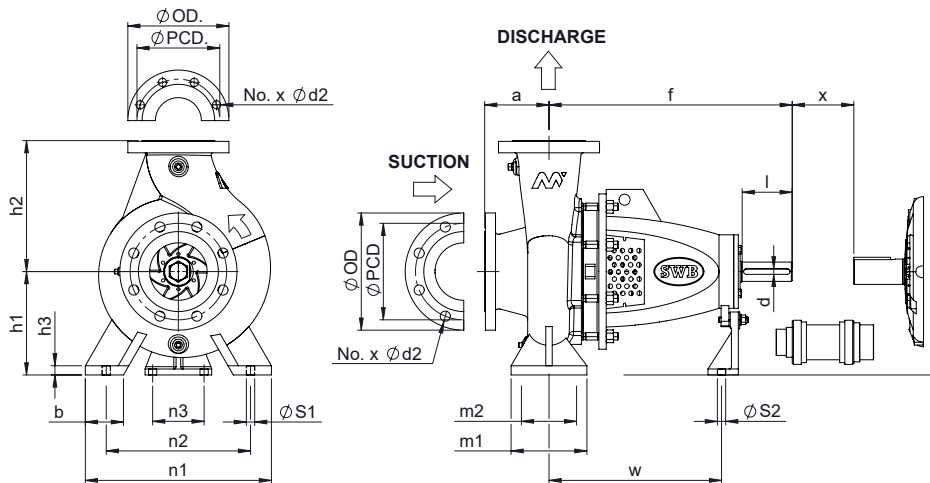
## BASIC OPERATING LIMITS

PRESSURE	MECH. SEAL	TEMPERATURE	MAX SPEED
MAX. OPERATING PRESSURE	1600 kPa		
HYDROSTATIC: TEST PRESSURE	2400 kPa	-10° to 105° C	3600 rpm
SUCTION PRESSURE 1450 rpm	800 kPa		
SUCTION PRESSURE 2900 rpm	600 kPa		

- Refer to specific model for exact limit.
- Pumps are fitted with 850 kPa seals as standard. If system pressure is higher than this, pump seal and possible will need to be upgraded.
- Higher Pressure ratings available. [Please contact Masterflow.](#)

PUMP MODEL	HYDROSTATIC TEST PRESSURE MAXIMUM			MAX WORKING PRESSURE		
	BAR	kPa	PSI	BAR	kPa	PSI
SW 32-13	24.0	2400	348	16.0	1600	232
SW 32-16	24.0	2400	348	16.0	1600	232
SW 32-20	24.0	2400	348	16.0	1600	232
SW 32-26	24.0	2400	348	16.0	1600	232
SW 40-13	24.0	2400	348	16.0	1600	232
SW 40-16	24.0	2400	348	16.0	1600	232
SW 40-20	24.0	2400	348	16.0	1600	232
SW 40-26	24.0	2400	348	16.0	1600	232
SW 40-32	24.0	2400	348	16.0	1600	232
SW 50-13	24.0	2400	348	16.0	1600	232
SW 50-16	24.0	2400	348	16.0	1600	232
SW 50-20	24.0	2400	348	16.0	1600	232
SW 50-26	24.0	2400	348	16.0	1600	232
SW 50-32	24.0	2400	348	16.0	1600	232
SW 65-13	24.0	2400	348	16.0	1600	232
SW 65-16	24.0	2400	348	16.0	1600	232
SW 65-20	24.0	2400	348	16.0	1600	232
SW 65-26	24.0	2400	348	16.0	1600	232
SW 65-32	24.0	2400	348	16.0	1600	232
SW 80-16	24.0	2400	348	16.0	1600	232
SW 80-20	24.0	2400	348	16.0	1600	232
SW 80-26	24.0	2400	348	16.0	1600	232
SW 80-32	24.0	2400	348	16.0	1600	232
SW 80-40	24.0	2400	348	16.0	1600	232
SW 100-20	24.0	2400	348	16.0	1600	232
SW 100-26	24.0	2400	348	16.0	1600	232
SW 100-32	24.0	2400	348	16.0	1600	232
SW 100-40	24.0	2400	348	16.0	1600	232
SW 125-20	24.0	2400	348	16.0	1600	232
SW 125-26	24.0	2400	348	16.0	1600	232
SW 125-32	24.0	2400	348	16.0	1600	232
SW 125-40	24.0	2400	348	16.0	1600	232
SW 125-50	24.0	2400	348	16.0	1600	232
SW 150-20	24.0	2400	348	16.0	1600	232
SW 150-26	24.0	2400	348	16.0	1600	232
SW 150-32	24.0	2400	348	16.0	1600	232
SW 150-40	24.0	2400	348	16.0	1600	232
SW 150-50	24.0	2400	348	16.0	1600	232
SW 200-26	24.0	2400	348	16.0	1600	232
SW 200-32	24.0	2400	348	16.0	1600	232
SW 200-40	24.0	2400	348	16.0	1600	232
SW 200-50	24.0	2400	348	16.0	1600	232
SW 250-32	24.0	2400	348	16.0	1600	232
SW 250-40	24.0	2400	348	16.0	1600	232
SW 250-50	24.0	2400	348	16.0	1600	232
SW 300-32	24.0	2400	348	16.0	1600	232
SW 300-40	24.0	2400	348	16.0	1600	232

# DIMENSIONS



PUMP SIZE	BEARING HOUSING	SUCTION	DISCHARGE	PUMP DIMENSIONS				FOOT DIMENSIONS							SPACER		SHAFT END		WEIGHT (kg)		
				a	f	h1	h2	b	m1	m2	n1	n2	n3	h3	Øs1	Øs2	w	x		d	l
SW 32-13	25	50	32	80	360	112	140	50	100	70	190	140	100	14	14	14	267	140	24	50	27
SW 32-16	25	50	32	80	360	132	160	50	100	70	240	190	100	14	14	14	267	140	24	50	35
SW 32-20	25	50	32	80	360	160	180	50	100	70	240	190	110	14	14	14	267	140	24	50	41
SW 32-26	25	50	32	100	360	180	225	65	125	95	320	250	110	14	14	14	267	140	24	50	59
SW 40-13	25	65	40	80	360	112	140	50	100	70	210	160	100	14	14	14	267	140	24	50	30
SW 40-16	25	65	40	80	360	132	160	50	100	70	240	190	100	14	14	14	267	140	24	50	36
SW 40-20	25	65	40	100	360	160	180	50	100	70	265	212	110	14	14	14	267	140	24	50	44
SW 40-26	25	65	40	100	360	180	225	65	125	95	320	2580	110	14	14	14	267	140	24	50	61
SW 40-32	35	65	40	125	470	200	250	65	125	95	345	280	110	14	14	14	267	140	32	80	96
SW 50-13	25	65	50	100	360	132	160	50	100	70	240	190	100	14	14	14	267	140	24	50	34
SW 50-16	25	65	50	100	360	160	180	50	100	70	265	212	110	14	14	14	267	140	24	50	38
SW 50-20	25	65	50	100	360	160	200	50	100	70	265	212	110	14	14	14	267	140	24	50	46
SW 50-26	25	65	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	140	24	50	63
SW 50-32	35	65	50	125	470	225	280	65	125	95	345	280	110	14	14	14	342	140	32	80	101
SW 65-13	25	80	65	100	360	160	180	65	125	95	280	212	110	14	14	14	267	140	24	50	39
SW 65-16	25	80	65	100	360	160	200	65	125	95	280	212	110	14	14	14	267	140	24	50	43
SW 65-20	25	80	65	100	360	180	225	65	125	95	320	250	110	14	14	14	267	140	24	50	70
SW 65-26	35	80	65	100	470	200	250	80	160	120	360	280	110	16	18	14	342	140	32	80	81
SW 65-32	25	80	65	125	470	225	280	80	160	120	400	315	110	14	18	14	342	140	32	80	110
SW 80-16	35	100	80	125	360	180	225	65	125	95	320	250	110	14	14	14	267	140	24	50	54
SW 80-20	35	100	80	125	470	180	250	65	125	95	345	280	110	14	14	14	342	140	32	80	70
SW 80-26	25	100	80	125	470	200	280	80	160	120	400	315	110	16	18	14	342	140	32	80	91
SW 80-32	35	100	80	125	470	250	315	80	160	120	400	315	110	16	18	14	342	140	32	80	120
SW 80-40	35	100	80	125	530	280	355	85	160	120	440	355	110	14	18	14	368	140	42	110	161
SW 100-20	35	125	100	125	470	200	280	80	160	120	360	280	110	14	18	14	342	140	32	80	85
SW 100-26	35	125	100	140	470	225	280	80	160	120	400	315	110	16	18	14	342	140	32	80	106
SW 100-32	35	125	100	140	470	250	315	80	160	120	400	315	110	16	18	14	342	140	32	80	134
SW 100-40	35	125	100	140	530	280	355	100	200	150	500	400	110	16	18	14	370	140	42	110	174
SW 125-20	35	150	125	140	470	250	315	80	160	120	500	315	110	16	18	14	343	140	32	80	106
SW 125-26	35	150	125	140	470	250	355	80	160	120	550	315	110	16	18	14	343	140	32	80	115
SW 125-32	45	150	125	140	530	280	355	100	200	150	450	400	110	18	23	14	373	140	42	110	163
SW 125-40	45	150	125	140	530	315	400	100	200	150	550	400	110	18	23	14	370	140	42	110	181
SW 125-50	60	150	125	180	670	375	500	100	200	150	550	450	110	24	24	14	511	180	55	110	225
SW 150-20	35	200	150	160	498	280	400	100	200	150	550	450	110	20	23	14	368	140	32	80	156
SW 150-26	45	200	150	160	530	250	355	100	200	150	550	350	110	18	23	14	370	140	42	110	148
SW 150-32	45	200	150	160	535	280	400	100	200	150	550	450	110	18	23	14	373	140	42	110	170
SW 150-40	45	200	150	160	530	315	450	100	200	150	550	450	110	18	23	14	373	140	42	110	209
SW 150-50	60	200	150	180	670	375	500	100	200	150	550	450	140	24	23	14	511	180	55	110	320
SW 200-26	45	250	200	180	545	280	400	100	200	150	550	450	110	25	26	14	389	180	42	110	206
SW 200-32	55	250	200	200	670	355	450	100	200	150	550	450	110	20	23	14	511	180	48	110	251
SW 200-40	55	250	200	200	670	355	500	100	200	150	550	450	110	20	23	14	500	180	48	110	295
SW 200-50	60	250	200	210	675	400	500	160	300	240	720	600	140	30	27	14	511	180	55	110	410
SW 250-32	55	300	250	200	670	355	525	100	250	175	600	500	110	24	24	14	511	180	48	110	311
SW 250-40	60	300	250	250	670	400	500	120	300	250	710	600	140	25	24	14	511	180	55	110	390
SW 250-50	75	300	250	240	875	425	545	160	300	200	720	600	140	30	27	19	625	180	70	140	630
SW 300-32	75	350	300	260	875	400	560	140	300	200	750	600	140	30	27	19	625	180	70	140	660
SW 300-40	75	350	300	280	875	500	600	150	300	200	800	660	140	40	27	23	625	180	70	140	700

Dimensions in mm.

Dns & Dnd	32	40	50	65	80	100	125	150	200	250	300	350
øOD.	140	150	165	185	200	220	250	285	340	405	460	520
øPCD.	100	110	125	145	160	180	210	240	295	255	410	470
No. x ød2	4x18	1x18	4x18	4x18	8x18	8x18	8x18	8x18	12x22	12x16	12x28	16x28

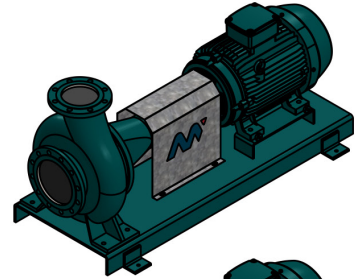
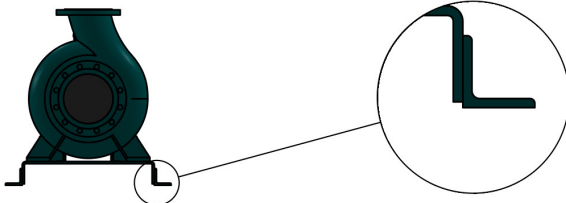
Flange mating dimensions to ISO2084 PN16 (DIN2533 PN16, BS4504 PN16)

Note: Other flange standards available on request. All content is subject to change without notice.

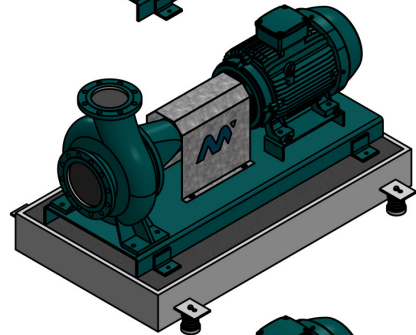
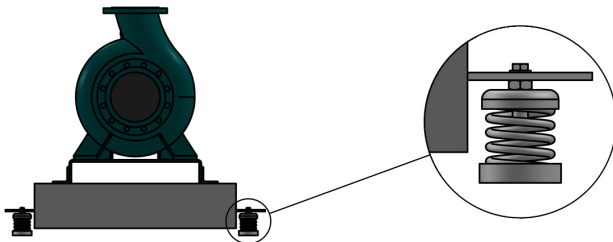


# BASE DESIGN OPTIONS

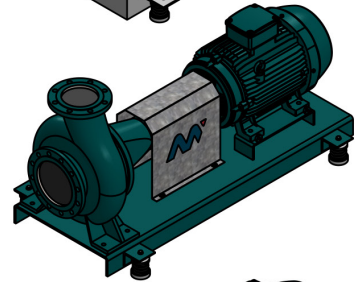
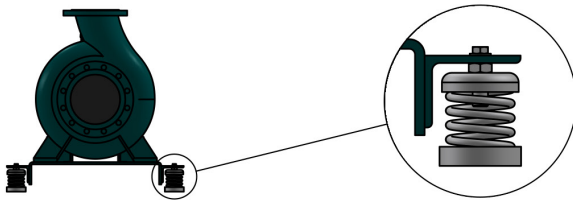
"00" EXISTING INERTIA MOUNT:



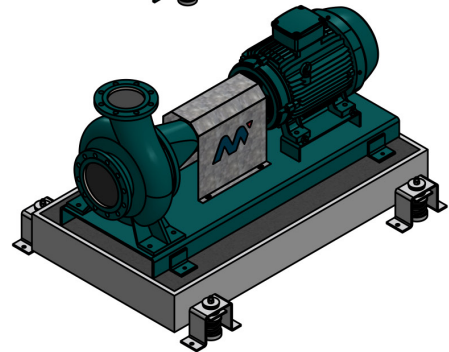
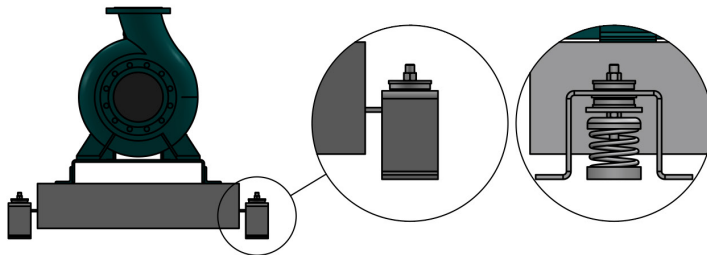
"01" STANDARD INERTIA MOUNT:



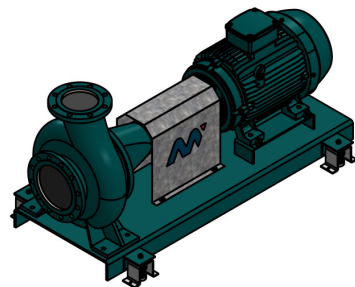
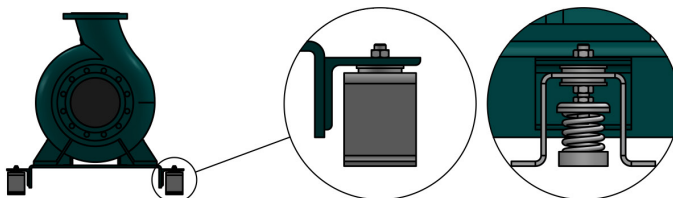
"02" STANDARD SPRING MOUNT:



"03" SEISMIC INERTIA MOUNT:



"04" SEISMIC SPRING MOUNT:





# MASTERFLOW

Better by Degrees®

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