



Multistage Centrifugal Pump

Type MPM (50Hz)

APPLICATIONS

- Water Supply and Pressure Boosting
- Irrigation and Agriculture
- Light Industry
- Water Treatment

HANDLE LIQUIDS

Clean or slightly contaminated low viscosity liquids without solid & fibrous particles.

FEATURES

- Horizontal ring section, multistage, centrifugal pumps with close impeller and diffuser
- 10 Models from DN 32 up to 250 discharge flange diameter
- Suction nozzle flanges conform to EN 1092-2 / PN16 and discharge nozzle flanges conform to EN 1092-2/ PN 40 (PN 63) (for steel or stainless steel casing pumps, flanges conform to related pressure class ratings defined in EN 1092-1)

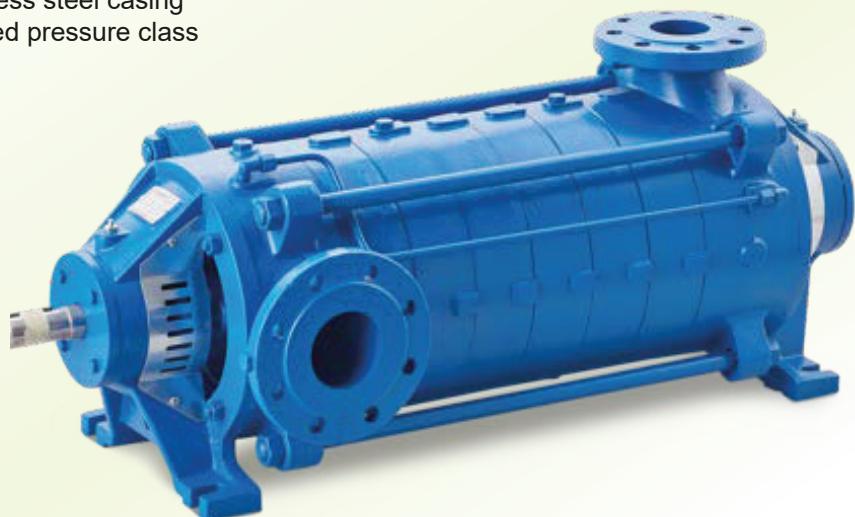
TECHNICAL DATA

Discharge Flange	: DN 32...DN 150 mm
Capacity	: up to 1000 m ³ /h
Head	: up to 550m
Speed	: up to 2900rpm
Operating Temperature	: 10°C up to +140°C*
Casing Pressure (Pmax)	: 30 bar (63 bar)*

(Pmax : Suction pressure + Shut off head)

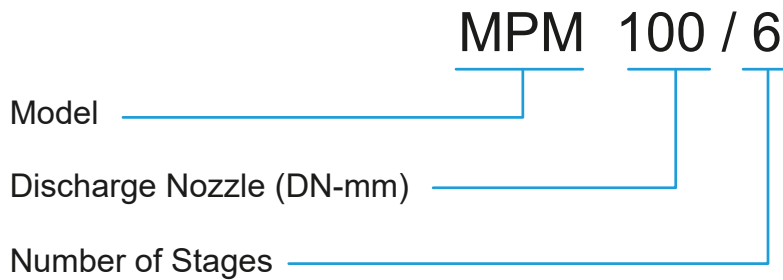
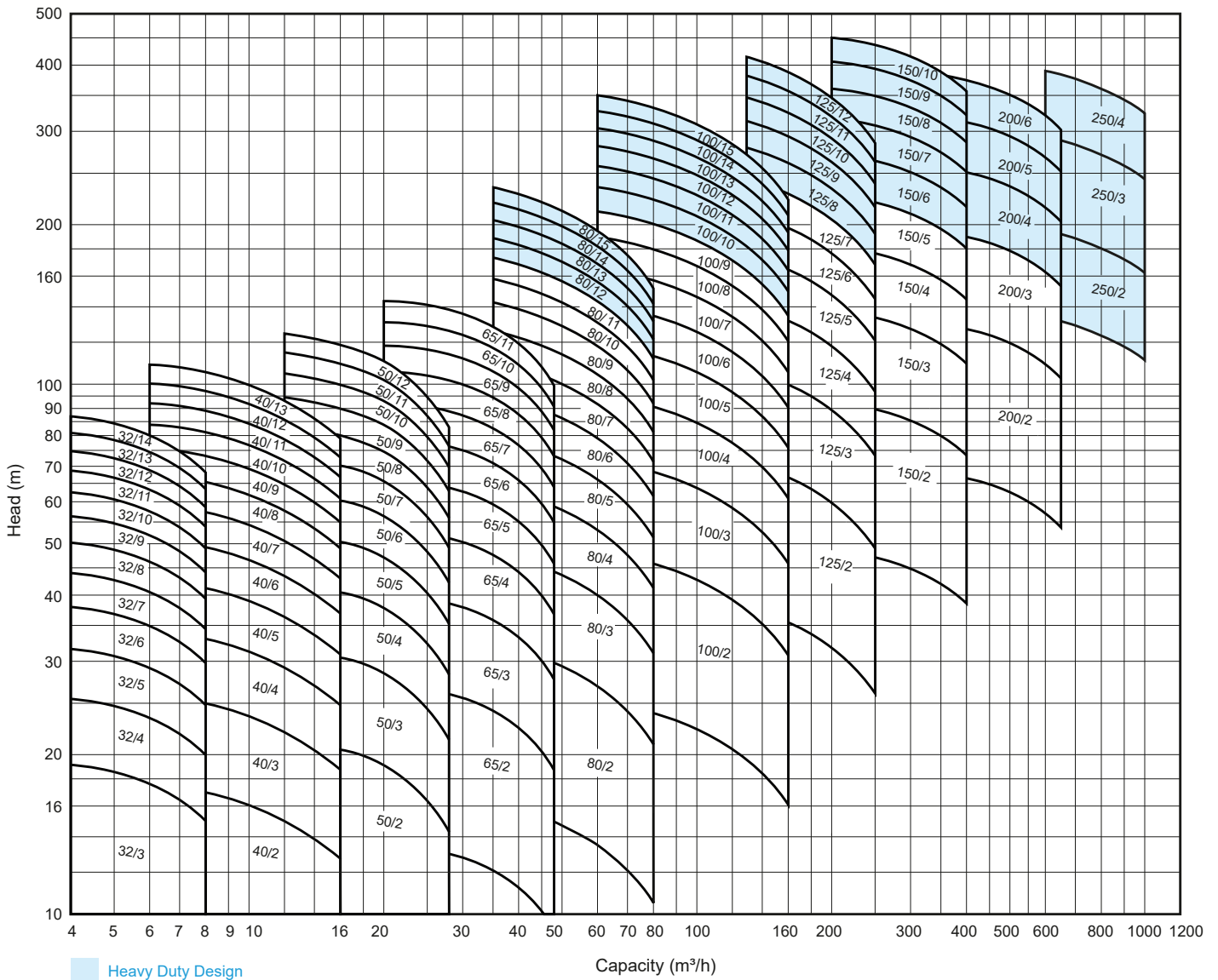
(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure.

- In standard production, suction flange is placed on the right side and close to the coupling while discharge flange is at the other end and radially upwards (R 3/0). If other flange position is required, it should be indicated in the order.
- All impellers are balanced dynamically or statically according to ISO 1940 class 6.3.
- Axial thrust is balanced by impeller balancing holes system.
- Direction of rotation is clockwise viewed from drive end.
- Bearings of MPM type pumps are always grease lubricated.



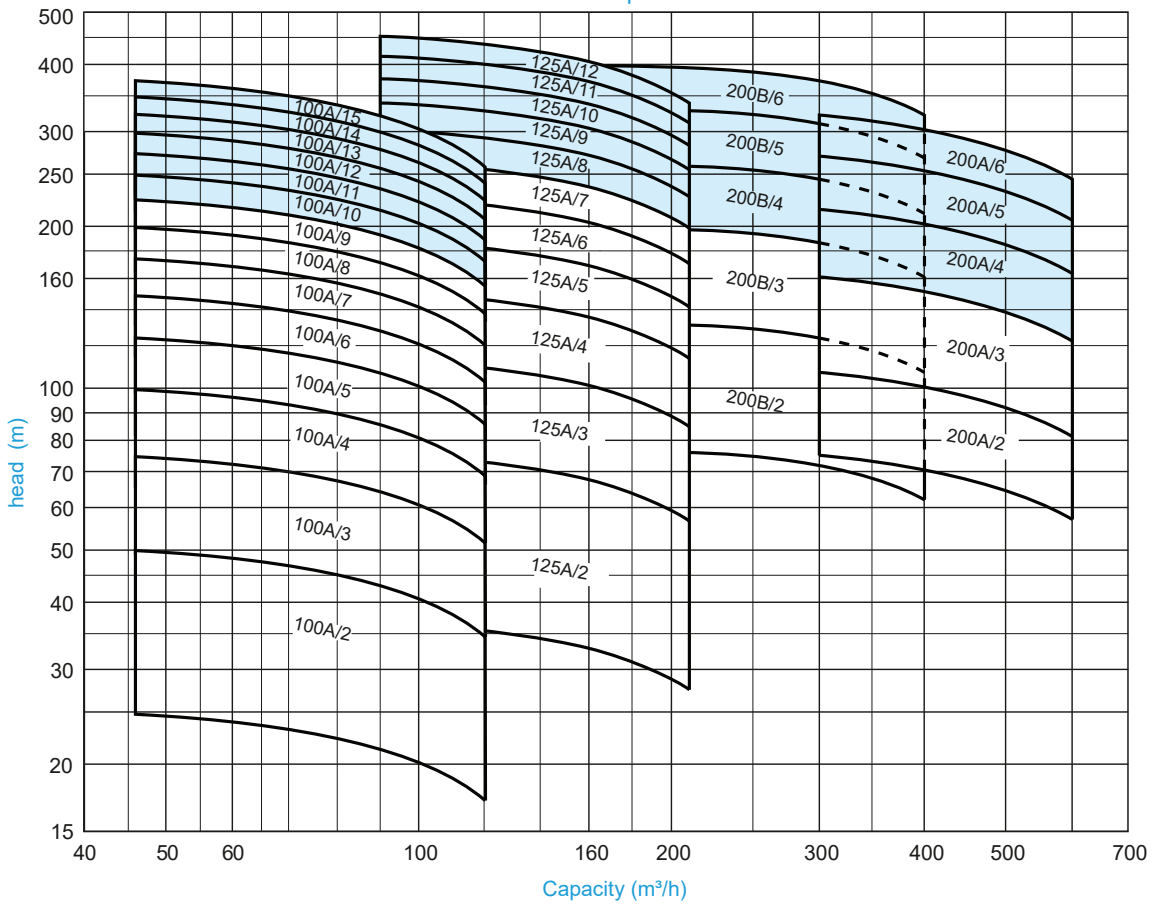
PERFORMANCE CHART

1450 rpm

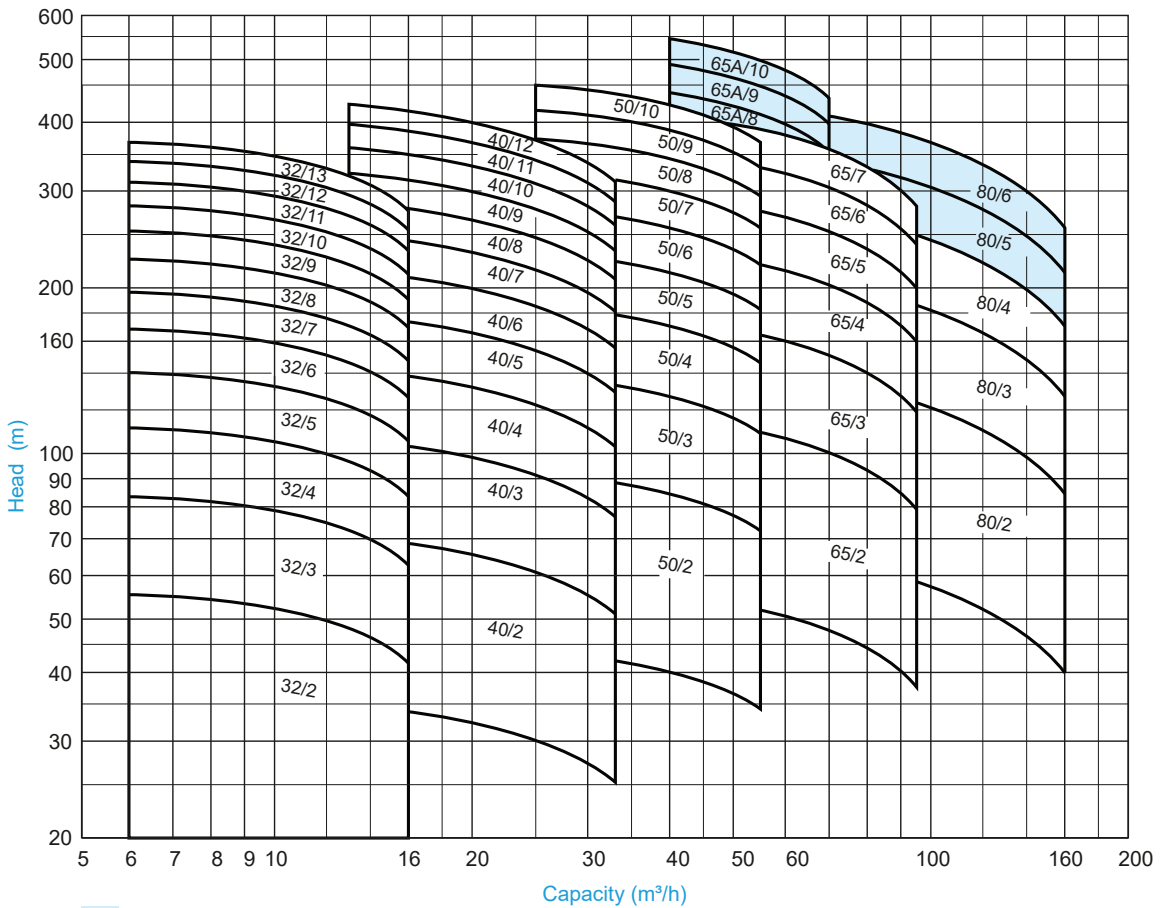


Narrow Impellers

1450 rpm



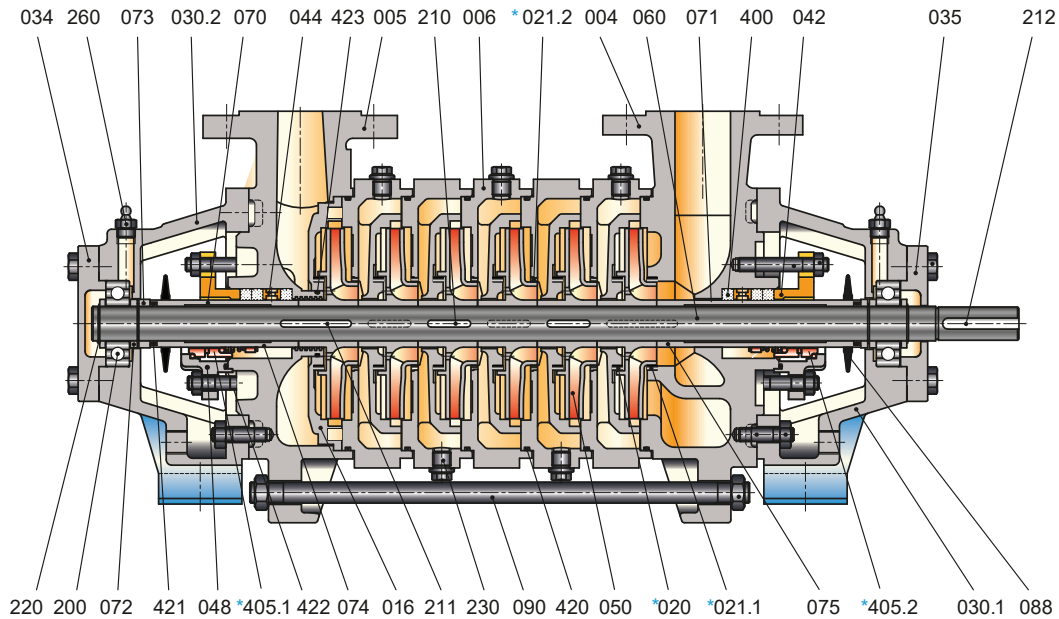
2900 rpm



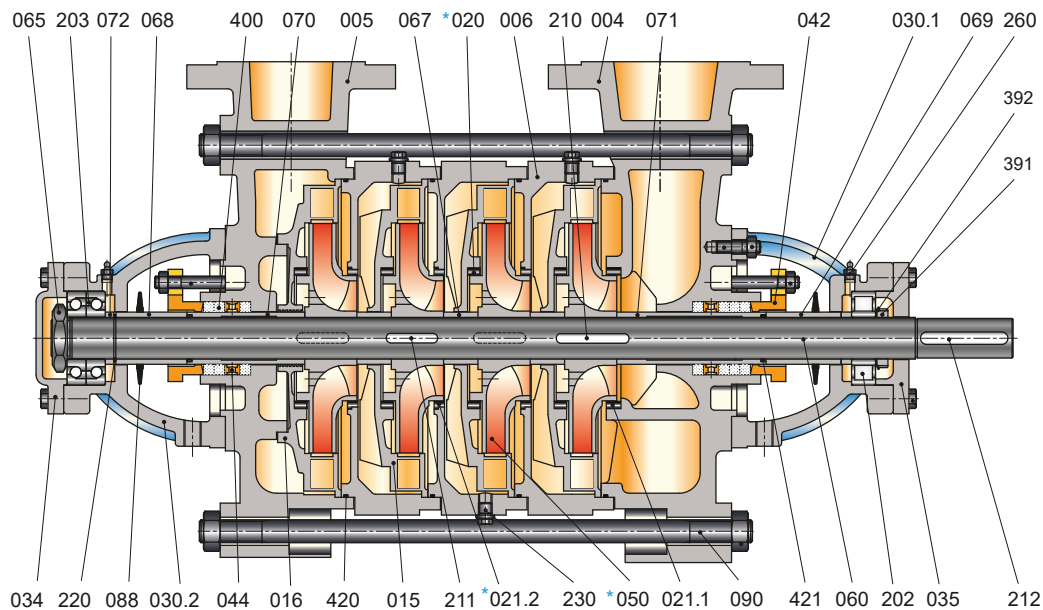
Heavy Duty Design

SECTIONAL VIEW

MPM - 32 - 40 - 50 - 65 Series



MPM - 80 - 100 - 125 - 150 - 200 - 250 Series



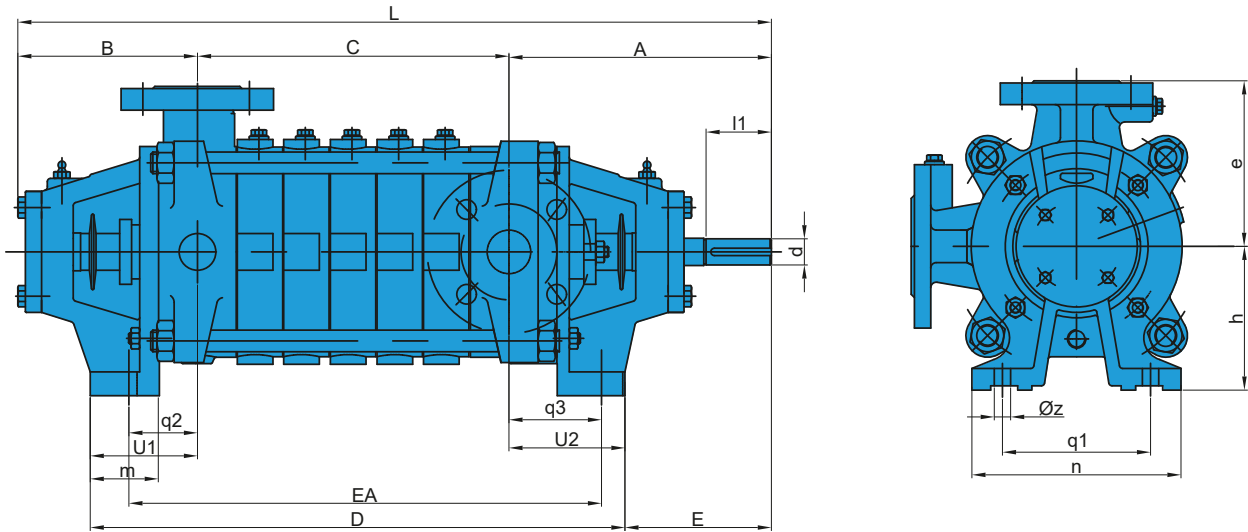
Part List

004	Suction Casing	060	Shaft	210	Impeller Key
005	Discharge Casing	065	Shaft Nut	211	Stage Key
006	Stage Casing	067	Interstage Sleeve	212	Coupling Key
015	Diffuser	068	Spacer Sleeve (discharge side)	220	Retaining Ring
016	Final Stage Diffuser	069	Spacer Sleeve (suction side)	230	Drain Plug
*020	Wear Ring (stage casing)	070	Shaft Protecting Sleeve (discharge side)	260	Grease Nipple
*021.1	Wear Ring (suction casing)	071	Shaft Protecting Sleeve (suction side)	391	Shaft Nut
*021.2	Wear Ring (stage casing)	072	Spacer Sleeve (discharge side)	392	Lock Washer
030.1	Bearing Housing (suction casing)	073	Spacer Sleeve	400	Stuffing Box Packing
030.2	Bearing Housing (discharge casing)	074	Mechanical Seal Sleeve (discharge)	*405.1	Mechanical Seal (Discharge)
034	Bearing End Cover	075	Mechanical Seal Sleeve (suction)	*405.2	Mechanical Seal (Suction)
035	Bearing Cover (coupling side)	088	Thrower	420	O-Ring (stage casing)
042	Stuffing Box Gland	090	Casing Tiebolt	421	O-Ring (shaft protecting sleeve)
044	Lantern Ring	200	Ball Bearing	422	O-Ring (mechanical seal cover)
048	Mechanical Seal Cover	202	Cylindrical Roller Bearing	423	O-Ring (discharge casing)
050	Impeller	203	Angular Contact Ball Bearing		

(*) Optional

DIMENSION

MPM - 32 - 40 - 50 - 65 Series



Discharge Nozzle (DN-mm)	Dimensions (mm)														
	ABe	ABb	A	B	E	e	h	m	n	n1	q1	q2	øz	u1	u2
32	40	32	241	165	145	152	132	60	192	55	136	85	15	98,5	106,5
40	50	40	238	165	134	175	160	60	232	55	175	86,5	15	109,5	109,5
50	65	50	254	175	145	190	160	60	256	60	200	91,5	15	117	113
65	80	65	271	195	150	215	180	60	294	60	240	95	15	124	120
80	100	80	321	250	259	265	210	85	410	90	340	42	15	62	62
100	125	100	389	285	319	300	250	90	450	90	370	48	15	70	70
125	150	125	412	300	332	375	300	105	560	105	450	55	20	83	83
150	200	150	486	360	381	425	350	130	655	110	550	65	26	103	105
200	250	200	515	385	410	500	400	130	675	120	550	65	27	105	105
250	300	250	708	444	577	627	472	155	775	150	625	74	32	130	129

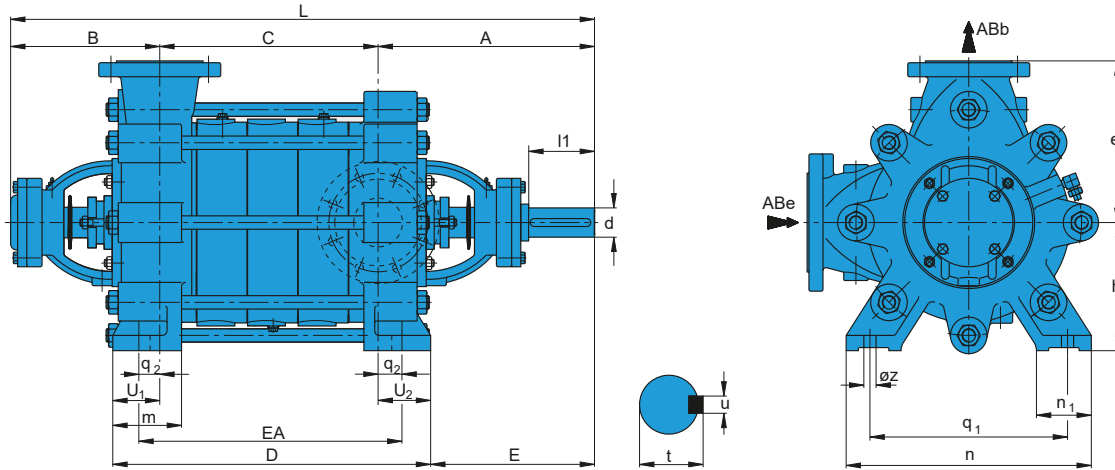
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Heavy Duty Design

Model	Series	Dimensions (mm)			
		C	L	EA	D
MPM	32/2	114	520	284	319
	32/3	157	563	327	362
	32/4	200	606	370	405
	32/5	243	649	413	448
	32/6	286	692	456	491
	32/7	329	735	499	534
	32/8	372	778	542	577
	32/9	415	821	585	620
	32/10	458	864	628	663
	32/11	501	907	671	706
	32/12	544	950	714	749
	32/13	587	993	757	792
	32/14	630	1036	800	835
	40/2	133	536	306	352
	40/3	188	591	361	407
	40/4	243	646	416	462
	40/5	298	701	471	517
	40/6	353	756	526	572
	40/7	408	811	581	627
	40/8	463	866	636	682
40/9	518	921	691	737	
40/10	573	976	746	792	
40/11	628	1031	801	847	
40/12	683	1086	856	902	
40/13	738	1141	911	957	

Model	Series	Dimensions (mm)			
		C	L	EA	D
MPM	50/2	152	581	335	382
	50/3	214	643	397	444
	50/4	276	705	459	506
	50/5	338	767	521	568
	50/6	400	829	583	630
	50/7	462	891	645	692
	50/8	524	953	707	754
	50/9	586	1015	769	816
	50/10	648	1077	831	878
	50/11	710	1139	893	940
	50/12	772	1201	955	1002
	65/2	178	644	368	644
	65/3	249	715	439	715
	65/4	320	786	510	786
	65/5	391	857	581	857
	65/6	462	928	652	928
	65/7	533	999	723	999
	65/8	604	1070	794	1070
	65A/8	604	1070	794	1070
	65/9	675	1141	865	1141
65A/9	675	1141	865	1141	
65/10	746	1212	936	1212	
65A/10	746	1212	936	1212	
65/11	817	1283	1007	1283	

MPM - 80 - 100 - 125 - 150 - 200 - 250 Series



Model	Series	Dimensions (mm)			
		C	L	EA	D
MPM	80/2	195	766	279	319
	80/3	278	849	362	402
	80/4	361	932	445	485
	80/5	444	1015	528	568
	80/6	527	1098	611	651
	80/7	610	1181	694	734
	80/8	693	1264	777	817
	80/9	776	1347	860	900
	80/10	859	1430	943	983
	80/11	942	1513	1026	1066
	80/12	1025	1596	1109	1149
	80/13	1108	1679	1192	1232
	80/14	1191	1762	1275	1315
	80/15	1274	1845	1358	1398
	100/2	233	907	337	373
	100A/2	233	907	337	373
	100/3	333	1007	437	473
	100A/3	333	1007	437	473
	100/4	433	1107	537	573
	100A/4	433	1107	537	573
	100/5	533	1207	637	673
	100A/5	533	1207	637	673
	100/6	633	1307	737	773
	100A/6	633	1307	737	773
	100/7	733	1407	837	873
	100A/7	733	1407	837	873
	100/8	833	1507	937	973
	100A/8	833	1507	937	973
	100/9	933	1607	1037	1073
	100A/9	933	1607	1037	1073
100/10	1033	1707	1137	1173	
100A/10	1033	1707	1137	1173	
100/11	1133	1807	1237	1273	
100A/11	1133	1807	1237	1273	
100/12	1233	1907	1337	1373	
100A/12	1233	1907	1337	1373	
100/13	1333	2007	1437	1473	
100A/13	1333	2007	1437	1473	
100/14	1433	2107	1537	1573	
100A/14	1433	2107	1537	1573	
100/15	1533	2207	1637	1673	
100A/15	1533	2207	1637	1673	

Model	Series	Dimensions (mm)			
		C	L	EA	D
MPM	125/2	280	992	390	404
	125A/2	280	992	390	404
	125/3	395	1107	505	519
	125A/3	395	1107	505	519
	125/4	510	1222	620	634
	125A/4	510	1222	620	634
	125/5	625	1337	735	749
	125A/5	625	1337	735	749
	125/6	740	1452	850	864
	125A/6	740	1452	850	864
	125/7	855	1567	965	979
	125A/7	855	1567	965	979
	125/8	970	1682	1080	1094
	125A/8	970	1682	1080	1094
	125/9	1085	1797	1195	1209
	125A/9	1085	1797	1195	1209
	125/10	1200	1912	1310	1324
	125A/10	1200	1912	1310	1324
	125/11	1315	2027	1425	1439
	125A/11	1315	2027	1425	1439
	125/12	1430	2142	1540	1554
	125A/12	1430	2142	1540	1554
	150/2	363	1209	493	571
	150/3	508	1354	638	716
	150/4	653	1499	783	861
	150/5	798	1644	928	1006
	150/6	943	1789	1073	1151
	150/7	1088	1934	1218	1296
	150/8	1233	2079	1363	1441
	150/9	1378	2224	1508	1586
150/10	1523	2369	1653	1731	
200/2	437	1337	575	647	
200A/2	437	1337	575	647	
200B/2	437	1337	575	647	
200/3	607	1507	745	817	
200A/3	607	1507	745	817	
200B/3	607	1507	745	817	
200/4	777	1677	915	987	
200A/4	777	1677	915	987	
200B/4	777	1677	915	987	
200/5	947	1847	1085	1157	
200A/5	947	1847	1085	1157	
200B/5	947	1847	1085	1157	
200/6	1117	2017	1255	1327	
200A/6	1117	2017	1255	1327	
200B/6	1117	2017	1255	1327	
250/2	520	1672	668	780	
250/3	722	1874	870	982	
250/4	924	2076	1072	1184	

Technical Data

PART LIST	0.6025	0.7040	0.7043	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	1.4008	2.1050.01	2.0975.01	2.1096.01	1.0503	1.4021	1.4021+QT	1.4301	1.4404	1.4460	1.4462	
Suction Casing	●	○	○		○	○	○	○	○	○	○	○	○	○										
Discharge Casing	●	○	○		○	○	○	○	○	○	○	○	○	○										
Stage Casing	●	○	○		○	○	○	○	○	○	○	○	○	○										
Diffuser	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○							○	
Shaft																		●	○	○	○			○
Bearing Housing	●	○	○	○	○	○	○	○																
Wear Ring	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
Spacer Sleeve																	●	○	○	○	○			○
Shaft Protecting Sleeve																	●	○	○	○	○			○
Interstage Sleeve																	●	○	○	○	○			○
Mechanical Seal (*)	EN 12756																							

(*) Optional :Depending on customer requirement or request different types and brands of mechanical seals are applicable.

● Standard manufacturing
○ Optional

Material Equivalentents

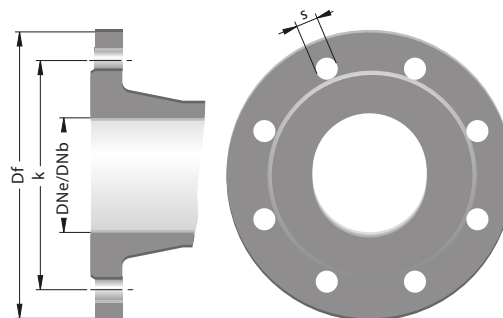
Description	DIN / EN	AISI / SAE / ASTM	
Cast Iron	0.6025	EN-GJL-250 (GG25)	A48 Class 40B
Nodular Cast Iron	0.7040	EN-GJS-400-15 (GGG40)	A536 60-40-18
Nodular Cast Iron	0.7043	EN-GJS-400-18-LT (GGG40.3)	A536 60-40-18
Cast Steel	1.0619	GP240GHGS-C25	A216 WCB
Chrome Nickel Cast Steel	1.4308	GX5CrNi19-10	A351 CF8
Chrome Nickel Cast Steel (low carbon)	1.4309	GX2CrNi19-11	A351 CF3
Chrome Nickel Molybdenum Cast Steel	1.4408	GX5CrNiMo19-11-2	A351 CF8M
Chrome Nickel Molybdenum Cast Steel (low carbon)	1.4409	GX2CrNiMo19-11-2	A351 CF3M
Austenitic Cast Steel	1.4500	GX7NiCrMoCuNb25-20	A351 CN7M
Austenitic - Ferritic Cast Steel (duplex)	1.4517	GX2CrNiMoCuN25-6-3-3	A890 CD4MCuN
Austenitic - Ferritic Cast Steel (super duplex)	1.4469	GX2CrNiMoN26-7-4	A890 CE3MN
Martenzitic Stainless Cast Steel	1.4317	GX4CrNi13-4	A352 CA6NM
Martenzitic Stainless Cast Steel	1.4008	GX7CrNiMo12-1	A217 CA15
Cast Bronze (tin alloy)	2.1050.01	G-CuSn10	B427 C90700
Cast Bronze (nickel alloy)	2.0975.01	G-CuAl10Ni	B148 C95500
Cast Bronze (lead)	2.1096.01	G-CuSn5ZnPb	B584 C83600
Carbon Steel	1.0503	C45	AISI 1045
Chrome Steel	1.4021	X20Cr13	A276 Type 420
Chrome Steel (heat treated)	1.4021	X20Cr13	A276 Type 420+QT
Chrome Nickel Steel	1.4301	X5CrNi18-10	A276 Type 304
Chrome Nickel Steel (low carbon)	1.4404	X2CrNiMo17-12-2	A276 Type 316L
Duplex (austenitic-ferritic) Steel	1.4460	X3CrNiMoN27-5-2	AISI 329
Duplex (austenitic-ferritic) Steel	1.4462	X2CrNiMoN22-5-3	UNS S32205

Flange Dimensions

EN 1092 - 2

DNe/DNb	Suction & Discharge (PN 16)				Suction & Discharge (PN 40)			
	Df	k	s	n	Df	k	s	n
32	140	100	19	4	140	100	19	4
40	150	110	19	4	150	110	19	4
50	165	125	19	4	165	125	19	4
65	185	145	19	4	185	145	19	8
80	200	160	19	8	200	160	19	8
100	220	180	19	8	235	190	23	8
125	250	210	19	8	270	220	28	8
150	285	240	23	8	300	250	28	8
200	340	295	23	12	375	320	31	12
250	405	355	28	12	450	385	34	12
300	460	410	28	12	515	450	34	16

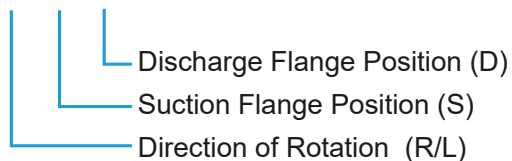
" n " number of holes



Flange Positions

			<p>Clockwise rotation viewed from driver (Suction flange is on the motor side)</p>

R 3/0



Direction of rotation viewed from driver end
 R : Right
 L : Left

* All specifications are subject to change without prior notice. * Dimensional details are provided for reference only.



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