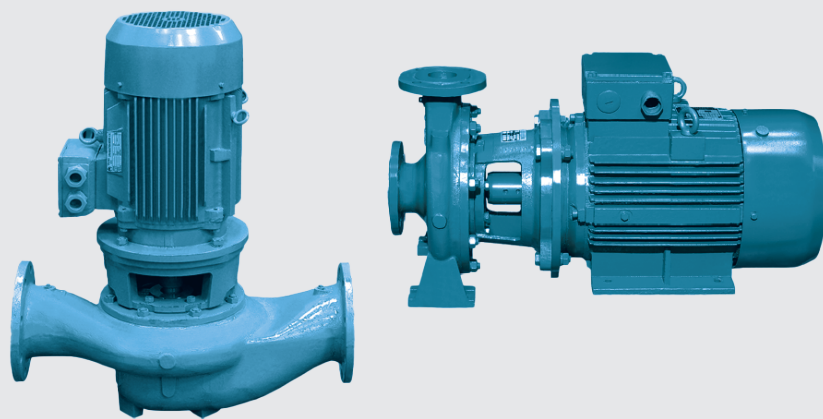
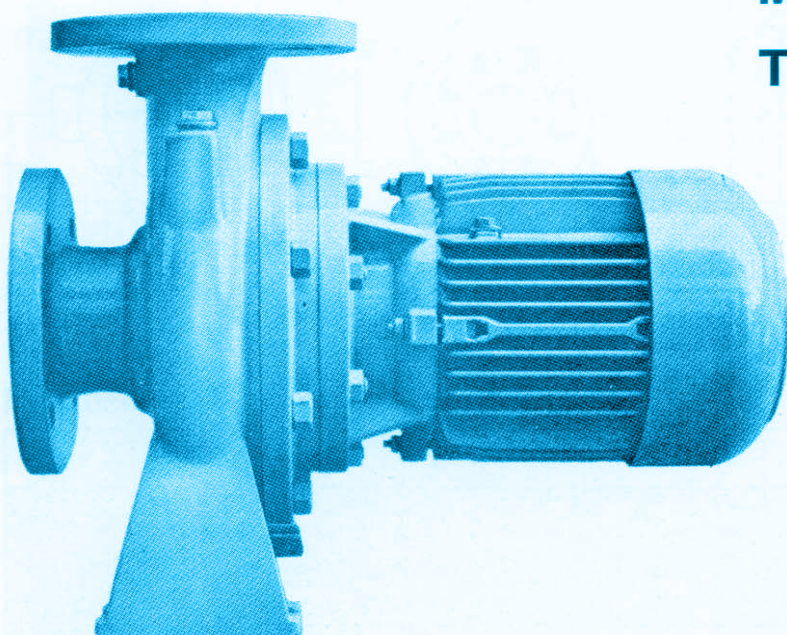




DP-BLOCK IL-N

CENTRIFUGAL MONO-BLOCK & IN-LINE SINGLE STAGE PUMPS

CENTRIFUGAL PUMPS FOR LOW AND MEDIUM PRESSURE TYPE DP-BLOC



Applications

For clean or turbid liquids, free from large solids.
For pumping water, petrol, benzene, oil, brine, alkali solution and mild acids.
For circulation, irrigation and drainage purposes.
For water supply and booster stations.
For Industrial and Agricultural applications and in public services.

Hydraulic Data

Capacity up to 300 m³/h.
Total head up to 90 m.
Temperature up to 140° C.
Pressure up to 10 bar.

Design Features

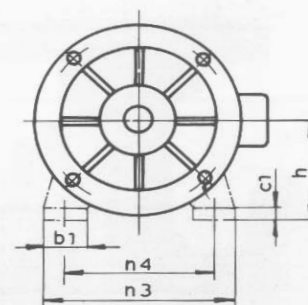
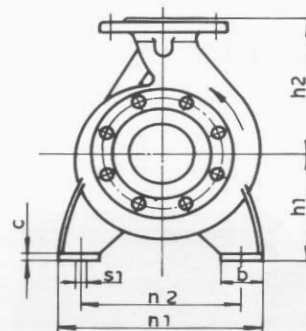
Single stage centrifugal pump in compact design.
Back pull-out design allows easy access to rotating elements for routine maintenance without disturbing pipework.
Simple installation.
No alignment problems.
All pumps fitted with self adjusting mechanical seals, of design proven to eliminate gland leakage.
Possibility of horizontal and vertical installation (see also page 4). Vertical installation only possible with motor above pump.

Standard motor, motorstool flange DIN 42948.

Direction of rotation

Clockwise looking from the motor end.

Technical drawing of a pump assembly showing dimensions: a , f , p , NWD , NWS , m_1 , m_2 , m_3 , m_4 , m_5 , and s .



With pump and motor footing (from motor size 160 M/1450 RPM and 132S/2900 RPM).

Pump size	Selected drive power (KW)			NW _S	NW _D	a	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	b	c	s ₁	Pump Weight (KP)
32-125	0,37			50	32	80	124	112	140	100	70	190	140	50	12	14	24
32-160	0,37					80	124	132	160	100	70	240	190	50	12	14	30
	0,55						144										32
32-200	0,55	0,75				80	144	160	180	100	70	240	190	50	12	14	36
32-250	1,1	1,5				100	144	180	225	125	95	320	250	65	14	14	53
	2,2						154										56
40-125	0,37			65	40	80	124	112	140	100	70	210	160	50	12	14	26
	0,55						144										28
40-160	0,55	0,75				80	144	132	160	100	70	240	190	50	12	14	32
40-200	0,75					100	144	160	180	100	70	265	212	50	12	14	41
	1,1																42
40-250	1,5					100	144	180	225	125	95	320	250	65	12	14	56
	2,2	3					154										59
40-315	3	4				125	165	225	250	125	95	345	280	65	12	14	77
	5,5						185										81
50-125	0,37			65	50	100	124	132	160	100	70	240	190	50	12	14	28
	0,55	0,75					144										30
50-160	0,75					100	144	160	180	100	70	265	212	50	12	14	36
	1,1	1,5															37
50-200	1,1	1,5				100	144	160	200	100	70	265	212	50	12	14	43
	2,2						154										46
50-250	2,2	3	4			100	154	180	225	125	95	320	250	65	12	14	60
50-315	4			125	165	225	280	125	95	345	280	65	12	14	80		
	5,5	7,5			185											84	
65-125	0,75			80	65	100	144	160	180	125	95	280	212	65	12	14	39
	1,1																40
65-160	1,1	1,5				100	144	160	200	125	95	280	212	65	12	14	44
	2,2						154										47
65-200	2,2	3	4			100	154	180	225	125	95	320	250	65	14	14	52
65-250	3	4				100	165	200	250	160	120	360	280	80	16	18	71
	5,5						185										75
65-315	5,5	7,5		125	185	225	280	160	120	400	315	80	18	18	89		
	11				215											91	
80-160	1,5			100	80	125	144	180	225	125	95	320	250	65	12	14	45
	2,2	3					154										48
80-200	2,2	3	4			125	165	180	250	125	95	345	280	65	12	14	64

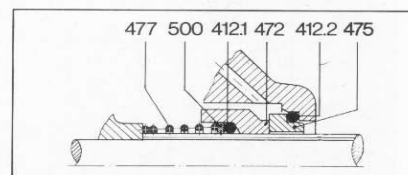
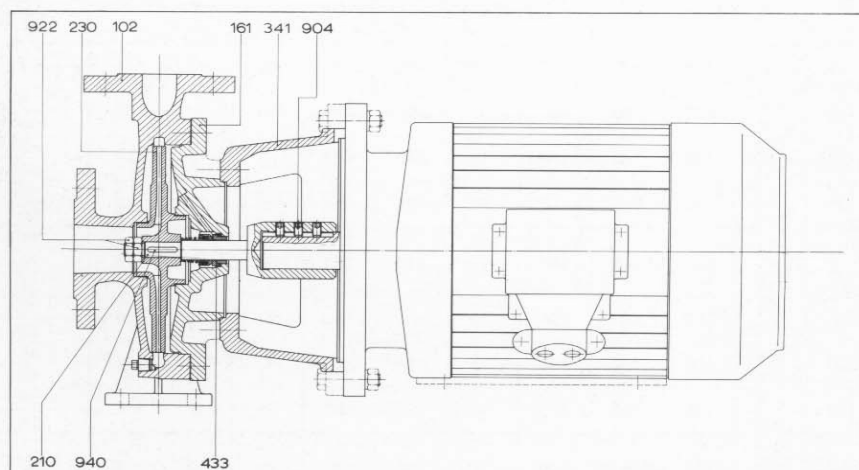
Pump size	Selected drive power (KW)			NW _S	NW _D	a	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	b	c	s ₁	Pump Weight (KP)		
32-125	0,75	1,1		50	32	80	144	112	140	100	70	190	140	50	12	14	26		
	1,5						27												
32-160	1,5	2,2				80	144	132	160	100	70	240	190	50	12	14	33		
	3		154				36												
32-200	3	4				80	154	160	180	100	70	240	190	50	12	14	40		
	5,5		174				42												
32-250	7,5					100	174	180	225	125	95	320	250	65	14	14	58		
	11	15	204				62												
40-125	1,1					65	40	80	144	112	140	100	70	210	160	50	12	14	28
	1,5	2,2							154										29
40-160	3	4						80	154	132	160	100	70	240	190	50	12	14	36
	5,5		174						38										
40-200	4			100	154			160	180	100	70	265	212	50	12	14	45		
	5,5	7,5	174		46														
40-250	7,5			100	174			180	225	125	95	320	250	65	12	14	61		
	11	15	204		64														
50-125	1,5	2,2		65	50			100	144	132	160	100	70	240	190	50	12	14	31
	3	4							154										34
50-160	5,5							100	174	160	180	100	70	265	212	50	12	14	36
	4		154						40										
50-200	5,5	7,5				100	174	160	200	100	70	265	212	50	12	14	41		
	7,5		204				48												
50-250	11	15				100	174	180	225	125	95	320	250	65	12	14	51		
	11	15	18,5				204										66		
65-125	5,5	7,5				80	65	100	174	160	180	125	95	280	212	65	12	14	67
	11								204										45
65-160	7,5							100	174	160	200	125	95	280	212	65	12	14	48
	11	15							204										49
65-200	15	18,5		100	204			180	225	125	95	320	250	65	14	14	53		
	22																57		
65-250	22			100	204			180	225	125	95	320	250	65	14	14	59		
	30	37															84		
80-160	30			100	80			100	215	200	250	160	120	360	280	80	16	18	88
	45																		90
80-200	11	15	18,5					125	204	180	225	125	95	320	250	65	12	14	53
	22																		
80-250	18,5					125	215	180	225	125	95	345	280	65	12	14	76		
	30	37															79		
100-200	30					125	215	200	280	160	120	360	280	80	15	18	81		
	30	37															96		
100-250	45					140	215	225	280	160	120	400	315	80	20	18	98		
	55						245										105		
100-200	22					125	215	200	280	160	120	360	280	80	15	18	88		
	30	37															245	92	
100-250	45			140	215	225	280	160	120	400	315	80	20	18	94				
	55				245										100				
100-250	45			140	215	225	280	160	120	400	315	80	20	18	106				
	55				245										116				

Electric motor

Motor size	Motor				p	h	m	m ₃	m ₄	m ₅	n ₃	n ₄	b ₁	c ₁	s
	Power (KW) 1450 RPM	Weight (KP)	Power (KW) 2900 RPM	Weight (KP)											
71	0,37	7,5			217										
80	0,55	12	0,75	11	251										
	0,75	13,5	1,1	13											
90S	1,1	16,5	1,5	16	266										
90L	1,5	20,5	2,2	19	286										
100L	2,2	30	3	31	323										
	3	34	—	—											
112M	4	46	4	32	366										
132S	5,5	65	5,5	52	371										
132M	—	—	7,5	68	371	132	60	89							
	7,5	78	—	—					202	140	278	216	62	21	12
160M	11	115	11	115	486	160	60	108	240	178	324	254	70	24	14
	—	—	15	120					270	210					
160L	15	135	18,5	135	530				314	254					
180M	18,5	185	22	185	544				300	241					
180L	22	200	22	158	579	180	60	121	340	279	346	279	70	25	14
200L	—	—	30	206	665	200	60	133	385	305	398	318	80	30	18
	—	—	37	230											
225M	—	—	45	385	700	225	60	149	370	311	436	356	85	33	18
250M	—	—	55	460	795	250	90	168	440	349	501	406	95	37	22

Standard motor. Three phase squirrel case with extended shaft.
Enclosure IP 54, Voltage $\Delta 380V$. Frequency 50 Hz. Insulation class F.

Sectional View



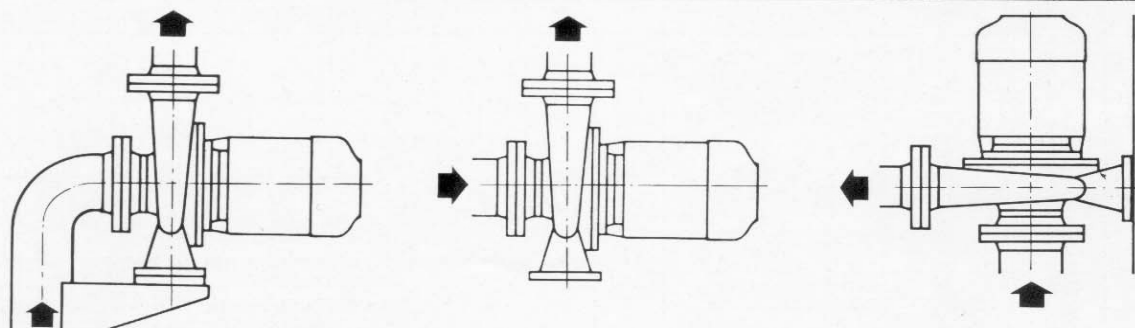
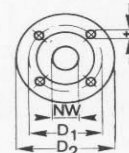
Parts List

VDMA Number	Part name	Material of construction	
		Standard	Special
102	Pump casing	GG	GuSn 10
161	Seal housing	GG	GuSn 10
210	Shaft	1.4021	1.4401
230	Impeller	GG	GuSn 10
341	Motor stool	GG	GG
412.1	O-ring	viton	Butyl
412.2	O-ring	viton	Butyl
433	Mechanical seal		
472	Rotarign seal ring	Carbon	Hard metal
475	Stationary seal ring	Ceramic	Hard metal
477	Spring	V4A	V4A
500	Seal ring	V4A	V4A
904	Grub screw	4A	4A
922	Impeller nut	MS	MS
940	Impeller key	1.4571	1.4571

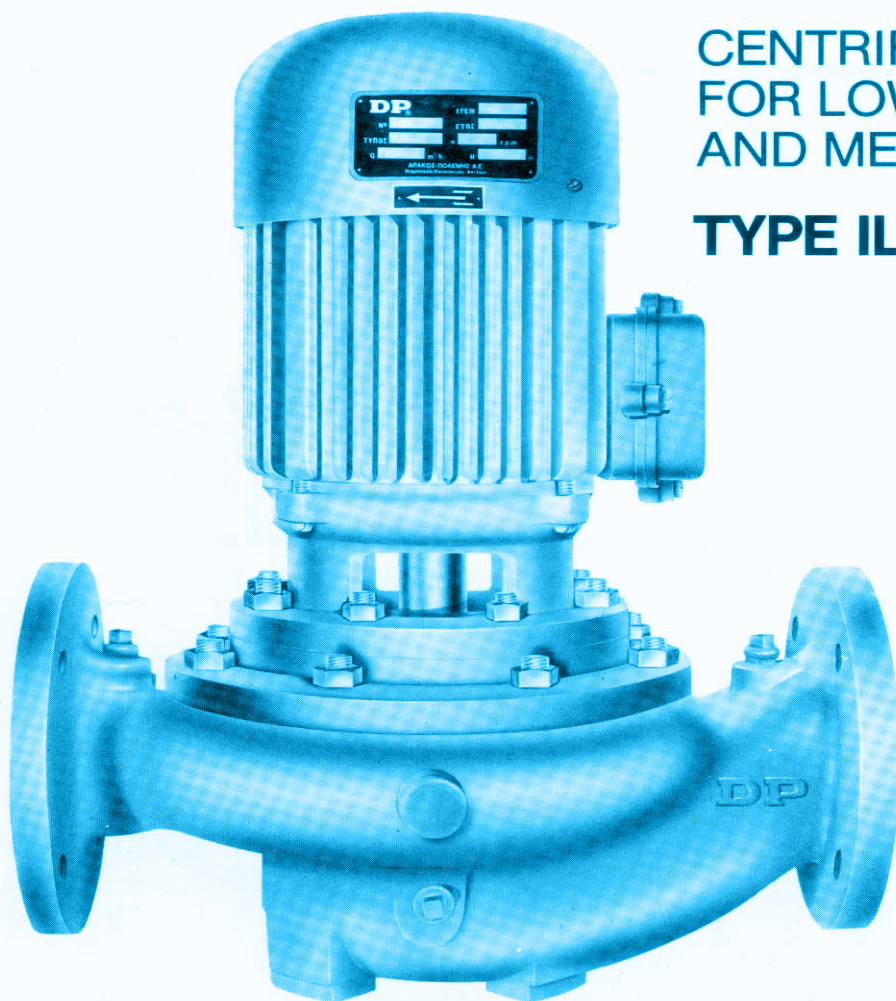
Flange connections as per DIN 2501 PN 16 and PN 10

	NW	32	40	50	65	80	100	125	150
D ₁		100	110	125	145	160	180	210	240
D ₂		140	150	165	185	200	220	250	285
t _{xy}		18x4	18x4	18x4	18x4	18x8	18x8	18x8	23x8

y= number of holes



The technical data of this leaflet are subject to change without notice.



CENTRIFUGAL PUMPS FOR LOW AND MEDIUM PRESSURE TYPE IL, IL-N

Applications

For circulating clean, non-corrosive fluids.
Heating and air-conditioning.
Water supply.
Circulating installations.

Hydraulic Data

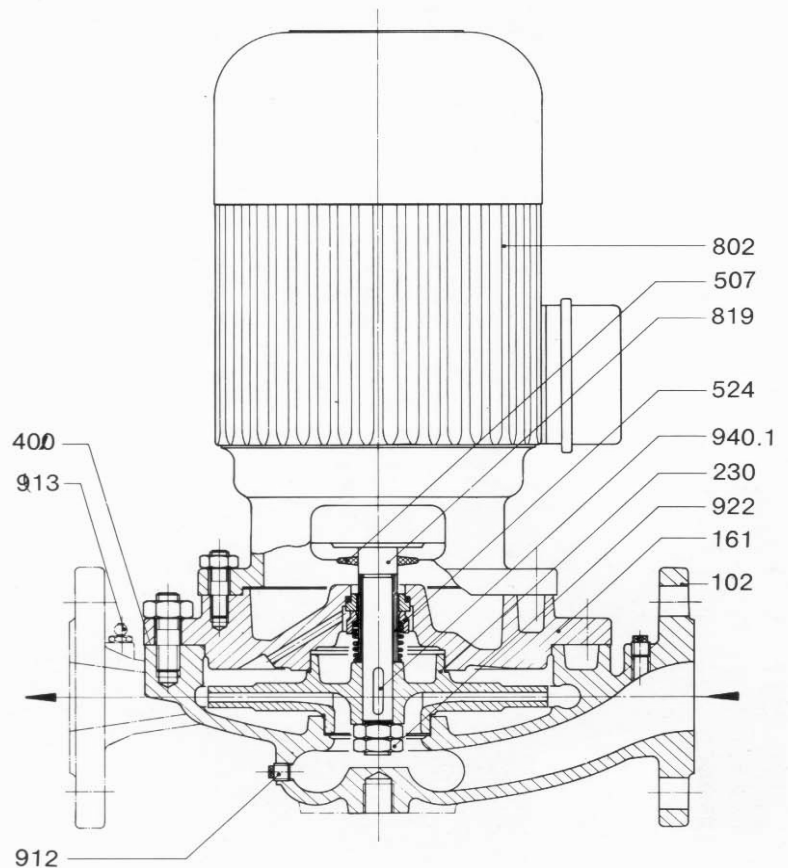
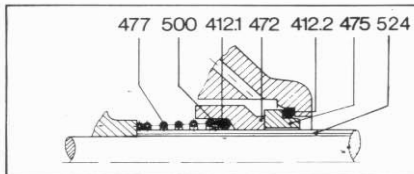
Capacity up to 300 m³/h
Total head up to 90 m
Temperature up to 140° C.
Pressure up to 10 bar.

Design Features

Single stage centrifugal pump of IN LINE type in compact design.
Motor and pump are close coupled.
IL type. Motor with special shaft-end and flange to fit the pump. Mounting V1.
IL-N type. Standard motor with mounting V1.
Suction and discharge flanges being of the same diameter and arranged opposite to each other can be directly mounted in the pipe line.
Flanges according to DIN 2532.
Back pull out design allows easy access to rotating elements for routine maintenance without disturbing pipe-work.
Simple installation.
No alignment problems.
All pumps fitted with self - adjusting mechanical seals, of design proven to eliminate gland leakages.
Capability of horizontal and vertical installation (see also page 5). Vertical installation only possible with motor above pump.
The pump is usually supported by the piping but it can also be supported by a special bracket on request.

Sectional View

Type IL



Part's list

VDMA Number	Part Name	Material of construction
		Standard
102	Pump casing	GG 20
161	Seal housing	GG 20
230	Impeller	GG 20
400	Casing gasket	Reinzolit
412.1	O-ring	Viton
412.2	O-ring	Viton
472	Rotating seal ring	Carbon
475	Stationary seal ring	Ceramic
477	Spring	V4A
500	Seal ring	V4A
507	Deflector	Rubber
524	Protective sleeve	1.4021
819	Extended motor shaft	st 70 or 1.4021
912	Drain plug	GT
913	Vent	GT
922	Impeller nut	MS
940.1	Impeller key	1.4571

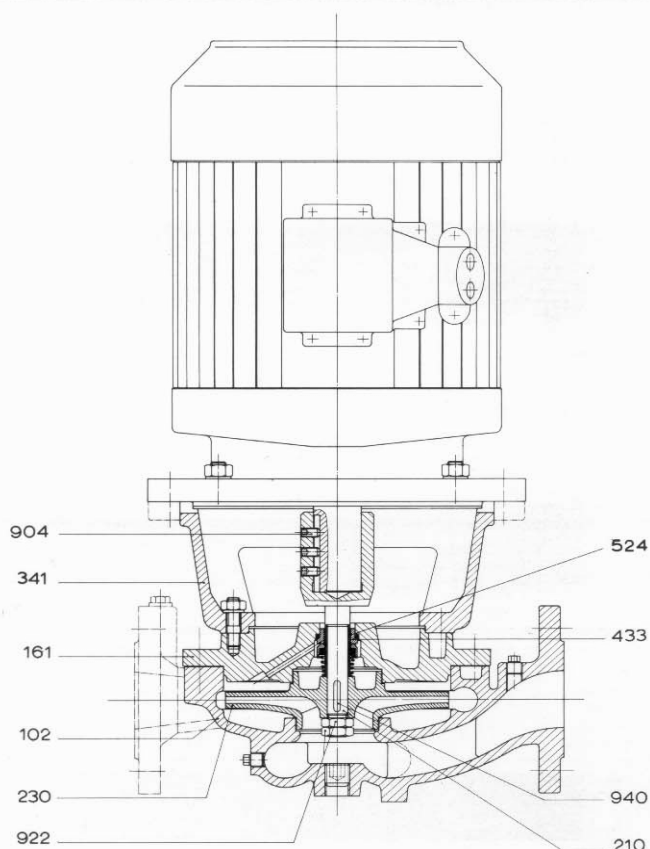
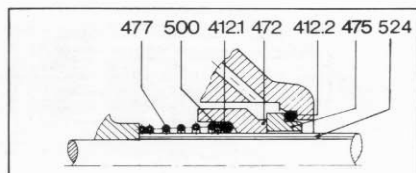
When the shaft material is 1.4021 protective sleeve is only provided on request at extra charge.

Electric motor

Three phase squirrel cage with extended shaft.
 Enclosure IP44, Voltage Δ 380V. Frequency 50 Hz. Insulation class B:
 Mounting V1.

Sectional View

Type IL-N



Parts list

VDMA Number	Part name	Materials of construction	
		Standard	Special
102	Pump casing	GG 20	Gbz 10
161	Seal housing	GG 20	Gbz 10
210	Shaft	st 70 or 1.4021	1.4401
230	Impeller	GG 20	Gbz 10
341	Motor stool	GG 20	GG 20
412.1	O-ring	Viton	Butyl
412.2	O-ring	Viton	Butyl
433	Mechanical seal		
472	Rotarign seal ring	Carbon	Hard metal
475	Stationary seal ring	Ceramic	Hard metal
477	Spring	V4A	V4A
500	Seal ring	V4A	V4A
524	Protective sleeve	1.4021	1.4401
904	Grab screw	4A	4A
922	Impeller nut	MS	MS
940	Impeller key	1.4571	1.4571

When the shaft material is 1.4021 or 1.4401 protective sleeve is only provided on request at extra charge. Furthermore in the special all- bronze pump design, bronze wearing rings are provided.

Electric motor

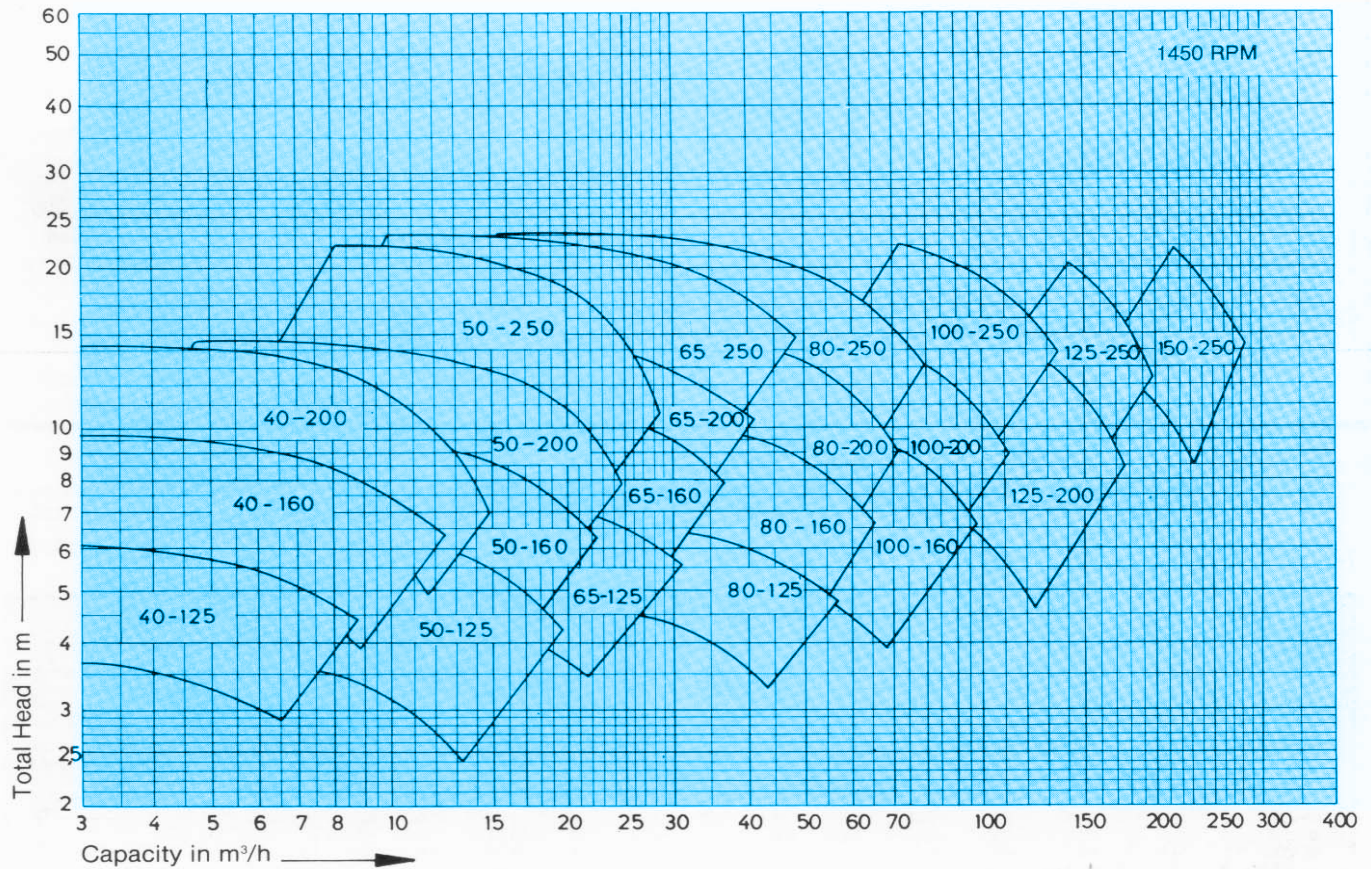
Standard motor. Three phase squirrel cage with extended shaft.
Enclosure IP44, Voltage Δ 380V. Frequency 50 Hz. Insulation class B. Mounting V1.

Direction of rotation

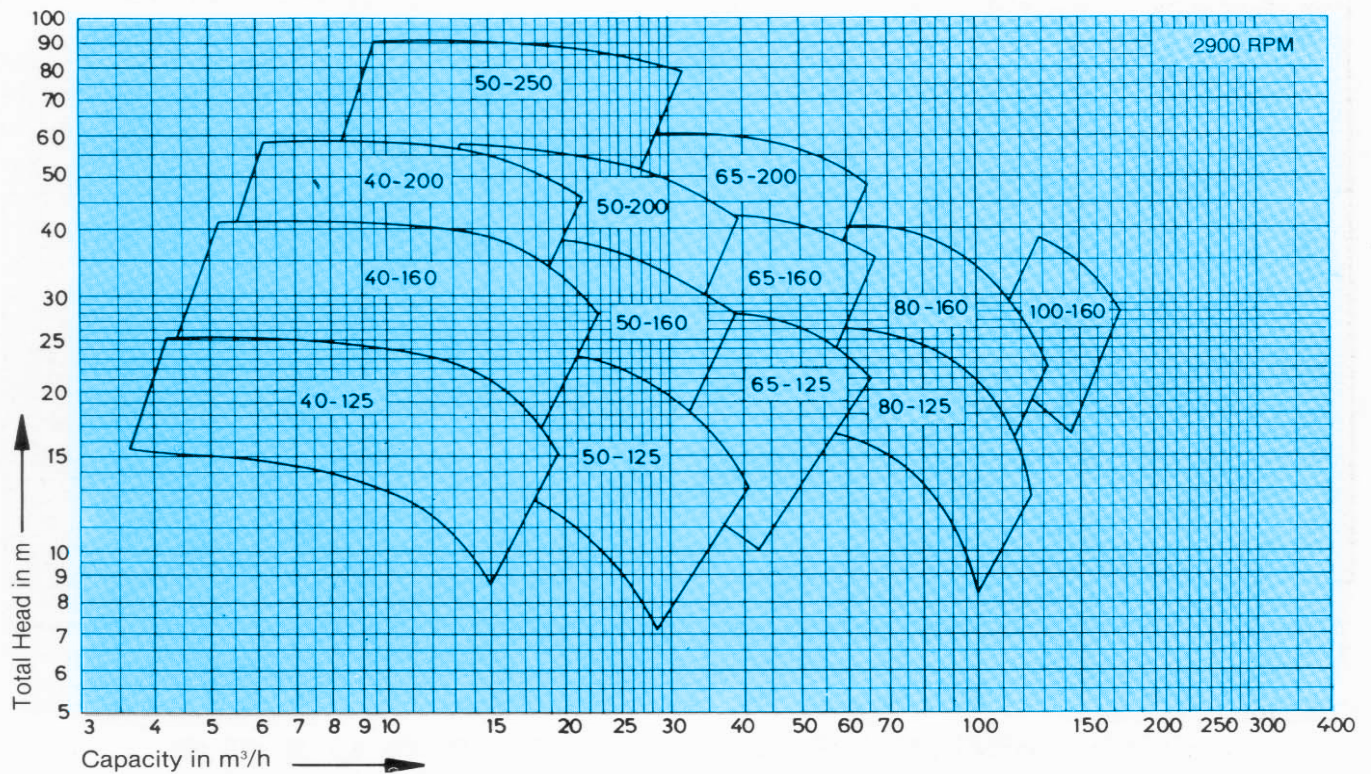
Clockwise as seen from the drive end.

Selection Chart

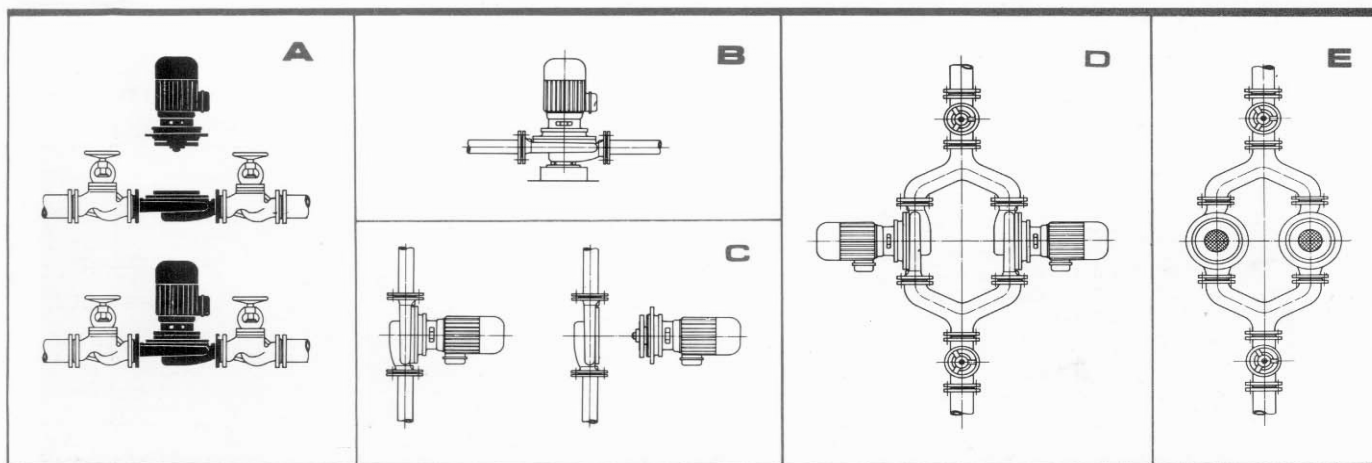
N = 1450 RPM



N = 2900 RPM



Installation



In case installation C is selected you should contact the factory

N = 2900 RPM

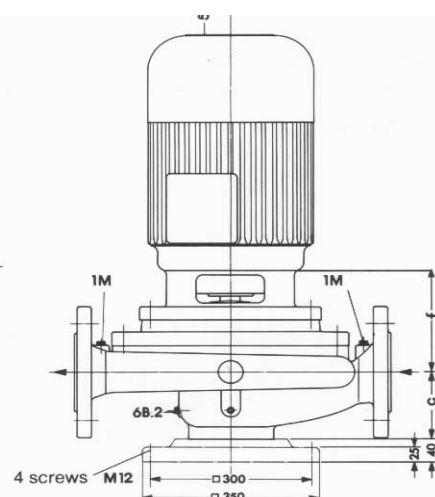
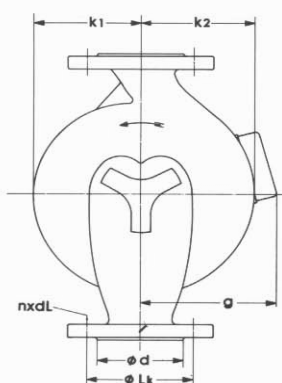
Pump size	Motor		Dimensions										Flanges to DIN 2532			
	Power KW	Size	a	b	c	e	g	K1	K2	'p	'f	x	NW (DN)	ØD	ØLK	nxDL
40-125	1,1	80	150	140	68	86	121	94	101	340	144	120	40	150	110	4×18
40-125	1,5	90S	150	140	68	86	131	94	101	355	144	120				
40-125	2,2	90L	150	140	68	86	131	94	101	380	144	120				
40-160	2,2	90L	170	160	68	86	131	121	121	380	144	120				
40-60	3,0	100L	170	160	68	86	150	121	121	420	154	120				
40-160	4,0	112M	170	160	68	86	162	121	121	440	154	120				
40-200	4,0	112M	200	180	70	110	162	134	134	440	154	120				
40-200	5,5	132S	200	180	70	110	189	134	134	474	174	120				
40-250	7,5	132S	240	225	101	110	189	166	166	474	174	130				
40-250	11,0	132M	240	225	101	110	240	166	166	504	174	130				
40-250	15,0	160M	240	225	101	110	240	166	166	584	204	130				
50-125	1,5	90S	160	140	82	110	131	100	109	355	144	120	50	165	125	4×18
50-125	2,2	90L	160	140	82	110	131	100	109	380	144	120				
50-125	3,0	100L	160	140	82	110	150	100	109	420	154	120				
50-125	4,0	112M	160	140	82	110	162	100	109	440	154	120				
50-160	4,0	112M	180	160	90	110	162	121	121	440	154	130				
50-160	5,5	132S	180	160	90	110	189	121	121	474	174	130				
50-200	5,5	132S	200	180	88	114	189	134	134	474	174	130				
50-200	7,5	132S	200	180	88	114	189	134	134	474	174	130				
50-200	11,0	132M	200	180	88	114	240	134	134	504	174	130				
50-250	11,0	132M	240	225	82	114	240	166	169	504	174	130				
50-250	15,0	160M	240	225	82	114	240	166	169	584	204	130				
65-125	3,0	100L	180	160	115	110	150	104	114	420	154	130	65	185	145	4×18
65-125	4,0	112M	180	160	115	110	162	104	114	440	154	130				
65-125	5,5	132S	180	160	115	110	189	104	114	474	174	130				
65-125	7,5	132S	180	160	115	110	189	104	114	474	174	130				
65-160	5,5	132S	200	180	105	168	189	121	134	474	174	135				
65-160	7,5	132S	200	180	105	168	189	121	134	474	174	135				
65-160	11,0	132M	200	180	105	168	240	121	134	504	174	135				
65-200	11,0	132M	235	200	105	148	240	136	146	504	174	135				
65-200	15	160M	235	200	105	148	240	136	146	584	204	135				
80-125	5,5	132S	220	180	130	110	189	116	134	474	174	145	80	200	160	8×18
80-125	7,5	132S	220	180	130	110	189	116	134	474	174	145				
80-125	11,0	132M	220	180	130	110	240	116	134	504	174	145				
80-160	11,0	132M	240	200	130	168	240	131	144	504	174	145				
80-160	15,0	160M	240	200	130	168	240	131	144	504	204	145				
80-160	18,5	160L	240	200	130	168	240	131	144	619	204	145				
100-160	11,0	132M	292	225	155	170	240	136	154	504	174	145	100	220	180	8×18
100-160	15,0	160M	292	225	155	170	240	136	154	584	205	145				
100-160	18,5	160L	292	225	155	170	240	136	154	619	205	145				
100-160	22,0	180M	292	225	155	170	251	136	154	644	205	145				

'p For type IL

'f For type IL-N

Technical drawing of a 5E ball bearing. The drawing shows a side view of the bearing with various dimensions and labels. The dimensions are: c (width of the inner ring), p (pitch diameter), x (width of the outer ring), D (outer diameter), Y (height of the outer ring), ϕ (inner diameter), ϕD (inner diameter of the inner ring), $1M$ (width of the inner ring), $1M/6B.1$ (width of the inner ring), and $5E$ (width of the outer ring). The drawing also shows a cross-section of the bearing with a central hole and a keyway.

N = 1450 RPM



1M Pressure gauge connection R¹/₄"
6B1-6B2 Drain R¹/₄"

The technical data of this brochure are subject to change without notice.



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