



STAINLESS STEEL CENTRIFUGAL PUMPS

3M

INDUSTRIEANWENDUNGEN

Horizontal single-stage volute casing pumps of range „3“ acc. to EN 733 (DIN 24255) are used for pumping clean and low contaminated liquids, without abrasive, coarse or extended solids.

The centrifugal pumps of type „3M“ are close coupled pumps connected to an electric motor with extended shaft. This range is available in stainless steel AISI 304 and AISI 316.



Application range:

- Chemical industry
- Water supply systems
- Booster plants
- Washing plants
- Cooling and heating circuits
- Sprinkler and irrigation systems

EIGENSCHAFTEN UND VORTEILE

- **Very high price-/performance ratio**

- **Large pump range**

Because of the variety of different sizes this pump range covers a broad performance spectrum.

- **Wide variety of mechanical seal materials**

Depending on the pumped liquid, different gasket materials can be chosen.

- **Compact design**

Ideal for applications where the spatial conditions are limited. The space-saving, short-coupled monobloc pump is very flexible and can be used variably. The pump is directly connected to the electric motor. User-friendly, flexible, secure and space saving.



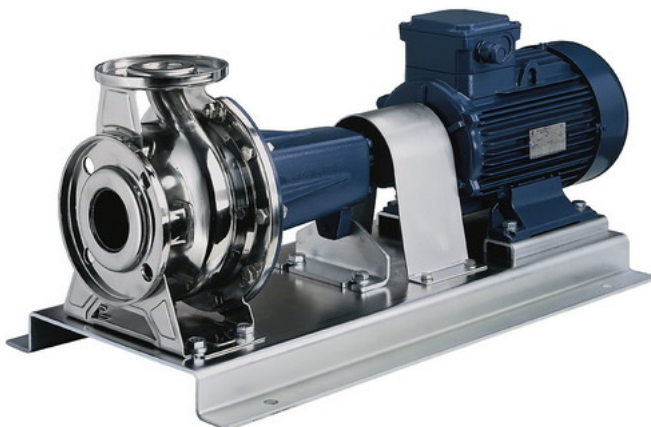
- Because of the **uniform construction** the complete range „3“ is very variable and varied to use.

- **Maintenance**

Easy maintenance and repair work without dismantling the piping. Expansion of the plug-in unit by disassembling of the casing screws is possible.

- **Bare shaft execution with bearing bracket „3PF“ and „3P“**

The complete range „3“ is also available in bare shaft execution with bearing bracket, mounted on a base plate with elastic coupling (with disassembling device) and IEC norm motor.



Details you can find in the separate brochure.

- **Close-coupled execution „3S“**

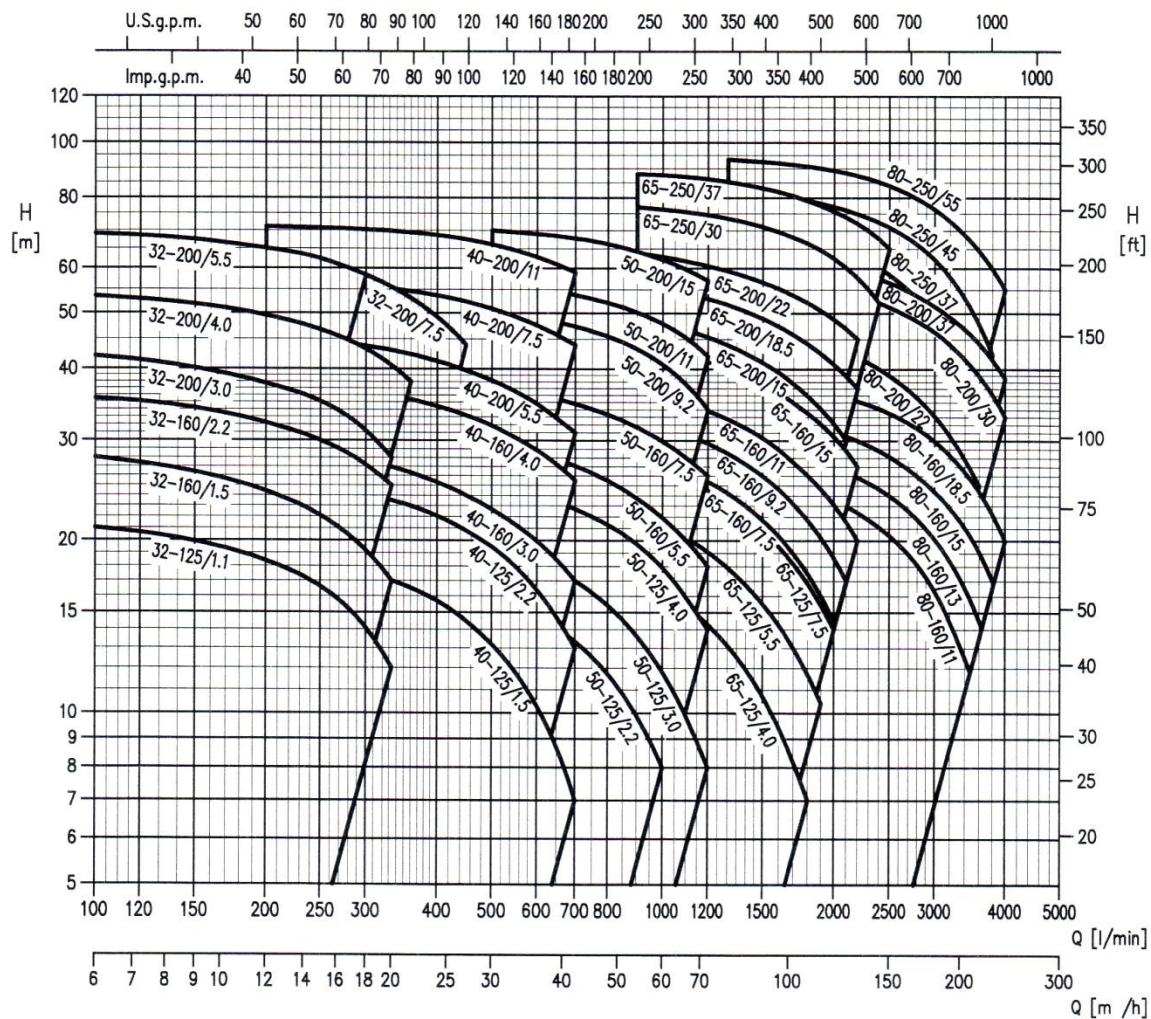
The complete range „3“ is also available as close-coupled pump with standard IEC-norm electric motor.



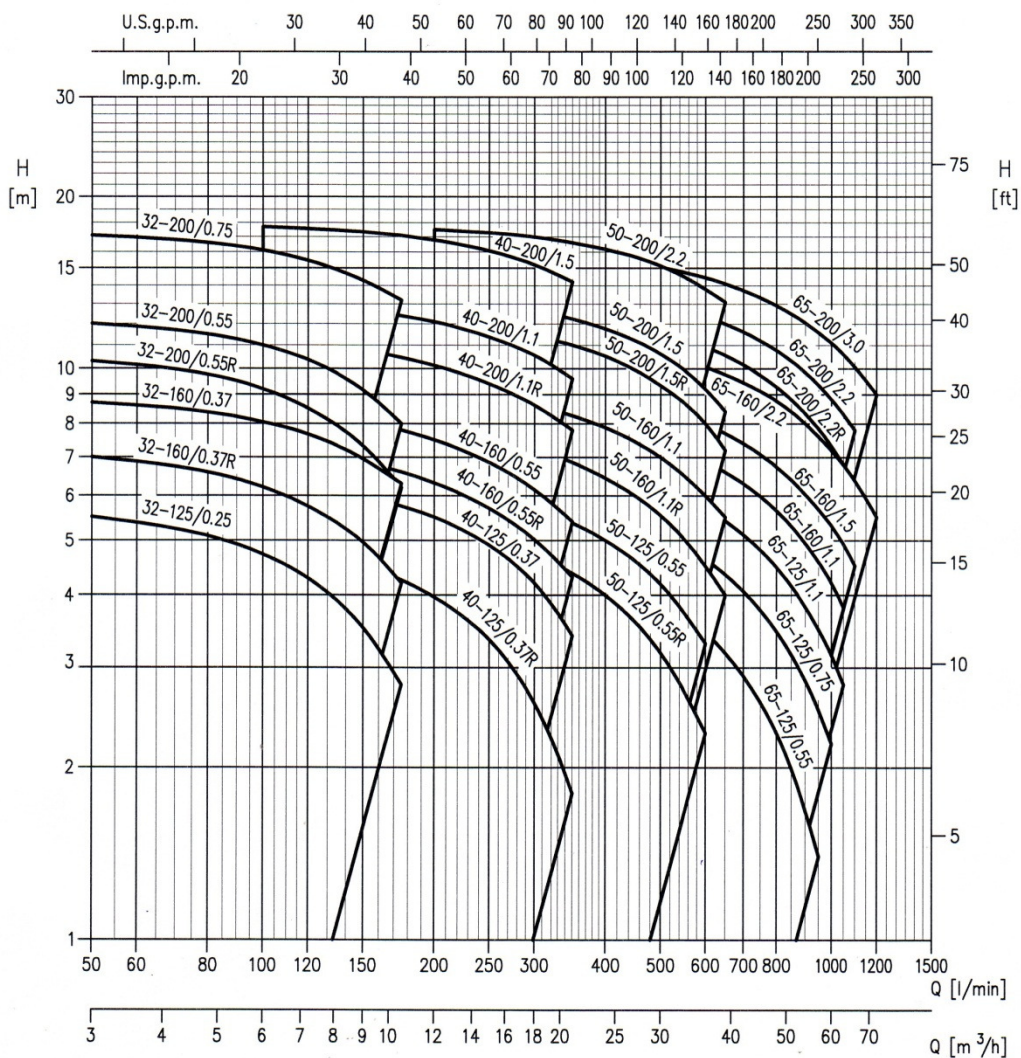
Details you can find in the separate brochure.

PUMP SELECTION

Performance curve – 2.900 min⁻¹

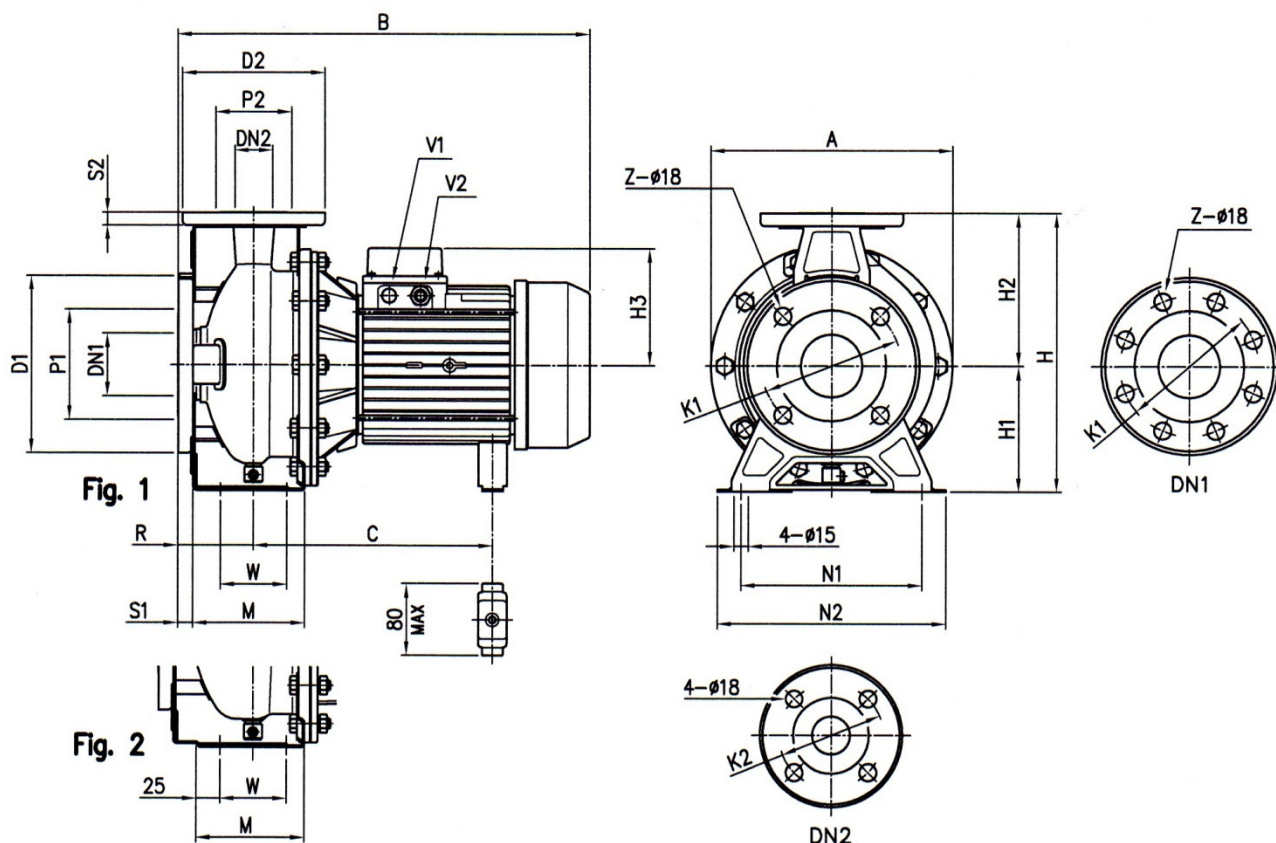


Performance curve – 1.450 min⁻¹



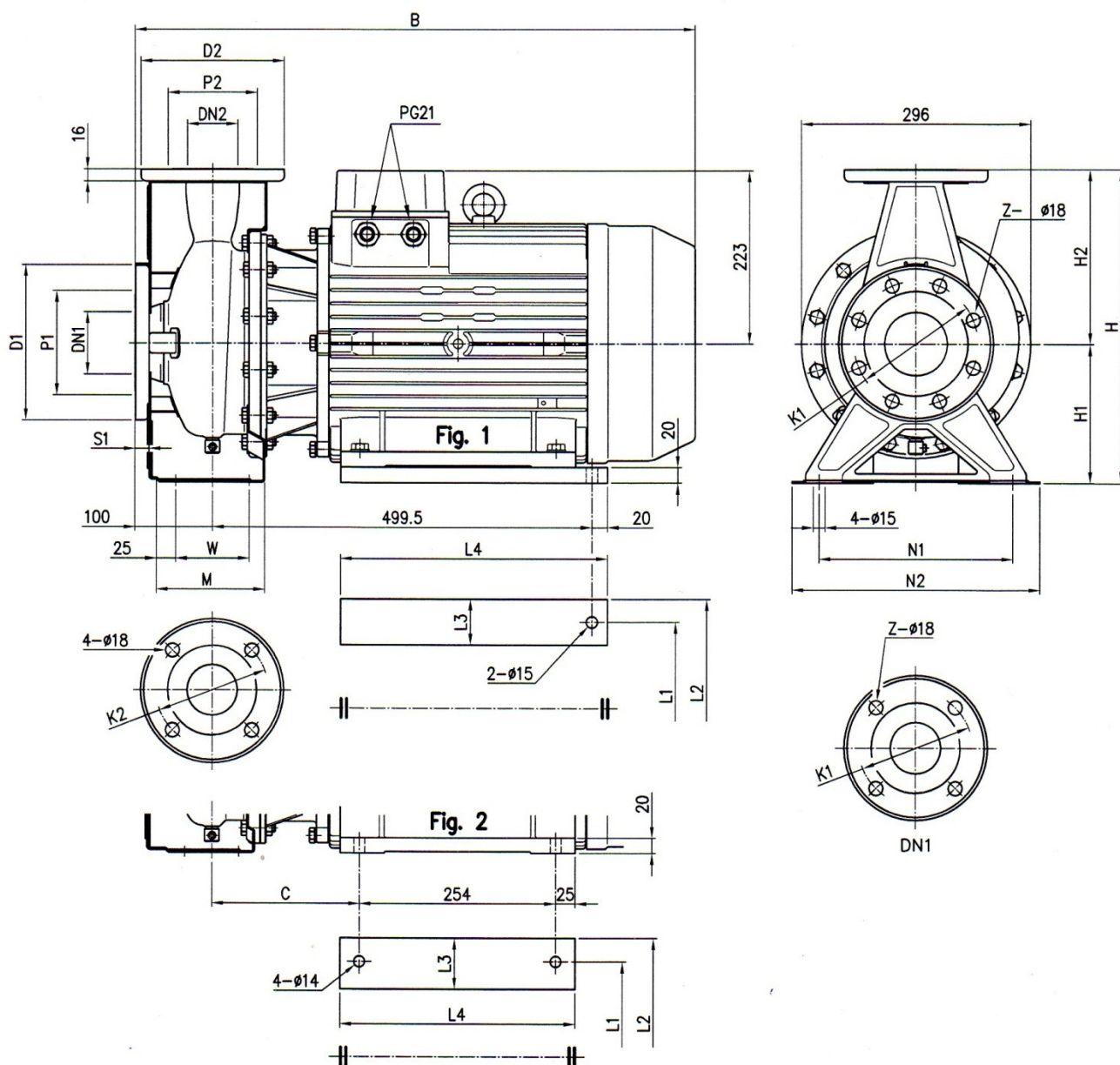
DIMENSIONS

Dimensions – 2.900 min-1



Model	Dimensions (mm)																												V1 [3]	V2			Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	[1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	[3]	[4]	R	W	M	N1	N2	A	B	C	[3]	[4]					
32-125/1.1 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	124	141	80	70	114	140	190	213	408	219-230	-	PG 13.5	M20x1.5	19.6			
32-160/1.5 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	124	141	80	70	118	190	240	254	408	219-230	-	PG 13.5	M20x1.5	22.5			
32-160/2.2 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	124	141	80	70	118	190	240	254	408	219-230	-	PG 13.5	M20x1.5	24.6			
32-200/3.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	124	-	80	70	119	190	240	296	433	244-255	-	PG 13.5	-	32.8			
32-200/4.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	141	-	80	70	119	190	240	296	454	253	-	PG 16	-	39.5			
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	150	-	80	70	119	190	240	296	475	275	PG 13.5	PG 16	-	48.5			
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	150	-	80	70	119	190	240	296	517	275	PG 13.5	PG 16	-	57			
40-125/1.5 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	124	141	80	70	114	160	210	213	408	219-230	-	PG 13.5	M20x1.5	20.1			
40-125/2.2 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	124	141	80	70	114	160	210	213	408	219-230	-	PG 13.5	M20x1.5	22.7			
40-160/3.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	124	-	80	70	118	190	240	254	433	244-255	-	PG 13.5	-	28			
40-160/4.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	141	-	80	70	118	190	240	254	454	253	-	PG 16	-	35.1			
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	150	-	100	70	115	212	265	296	495	275	PG 13.5	PG 16	-	48.8			
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	150	-	100	70	115	212	265	296	537	275	PG 13.5	PG 16	-	56.2			
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	178	-	100	70	115	212	265	296	594	359	PG 13.5	PG 21	-	67.5			
50-125/2.2 (M)	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	124	141	100	70	114	190	240	254	428	219-230	-	PG 13.5	M20x1.5	28.1			
50-125/3.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	124	-	100	70	114	190	240	254	453	244-255	-	PG 13.5	-	28.6			
50-125/4.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	141	-	100	70	114	190	240	254	474	253	-	PG 16	-	35.2			
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	150	-	100	70	115	212	265	296	495	275	PG 13.5	PG 16	-	49.1			
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	150	-	100	70	115	212	265	296	537	275	PG 13.5	PG 16	-	55.5			
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	178	-	100	70	115	212	265	296	594	359	PG 13.5	PG 21	-	61.7			
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	178	-	100	70	115	212	265	296	594	359	PG 13.5	PG 21	-	67.5			
65-125/4	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	141	-	100	95	140	212	280	254	474	253	-	PG 16	-	40			
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	150	-	100	95	140	212	280	254	495	275	PG 13.5	PG 16	-	52			
65-125/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	150	-	100	95	140	212	280	254	537	275	PG 13.5	PG 16	-	58.5			
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	150	-	100	95	140	212	280	296	537	275	PG 13.5	PG 16	-	62			
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	178	-	100	95	140	212	280	296	594	359	PG 13.5	PG 21	-	67			
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	178	-	100	95	140	212	280	296	594	359	PG 13.5	PG 21	-	75.6			

[1] Standard [2] On request [3] Only for three phase [4] Only for single phase

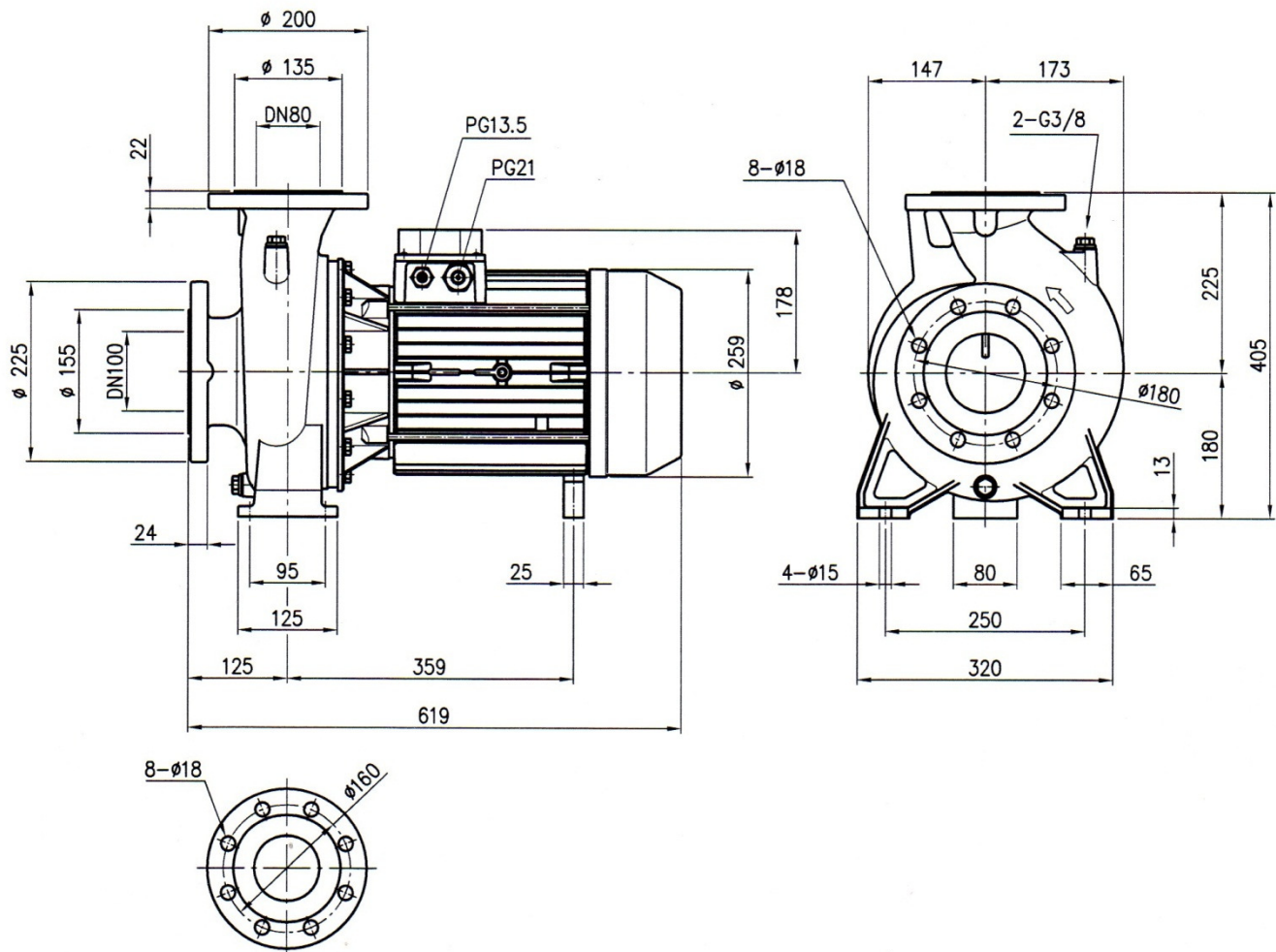


Model	Dimensions [mm]																								Weight [kgf]	
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z		Ø DN2	Ø P2	Ø K2	Ø D2	Fig.	H	H1	H2	W	M	N1	N2	B	C	L1	L2	L3		L4
50-200/15	65	115	145	185	16	4	-	50	95	125	165	2	360	160	200	70	115	212	265	723	190.5	254	318	65	304	96
65-160/15	80	134	160	200	18	8	4	65	115	145	185	2	360	160	200	95	140	212	280	732	199.5	254	318	65	304	93
65-200/15	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	114
65-200/18.5	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	127
65-200/22	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	136

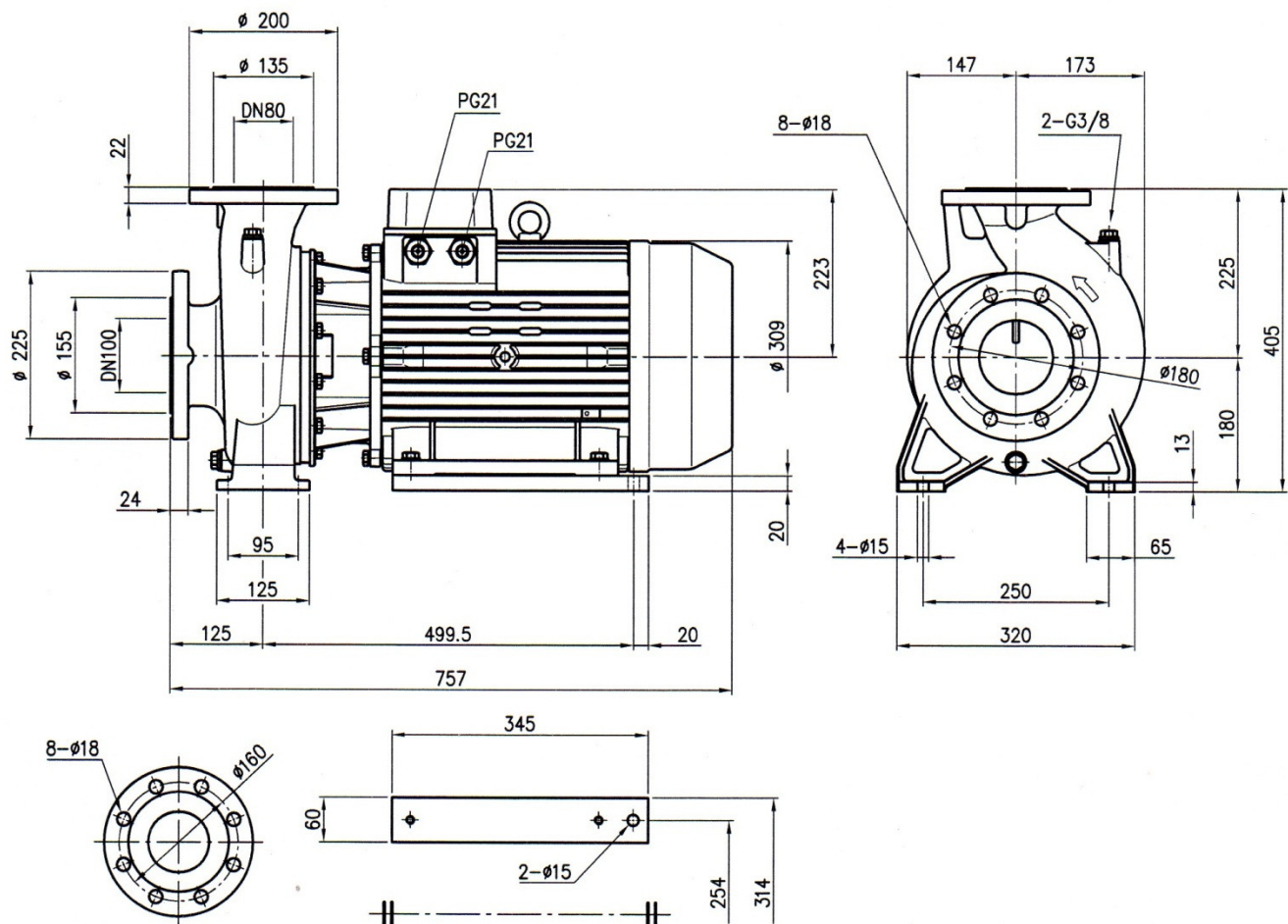
[1] Standard

[2] On request

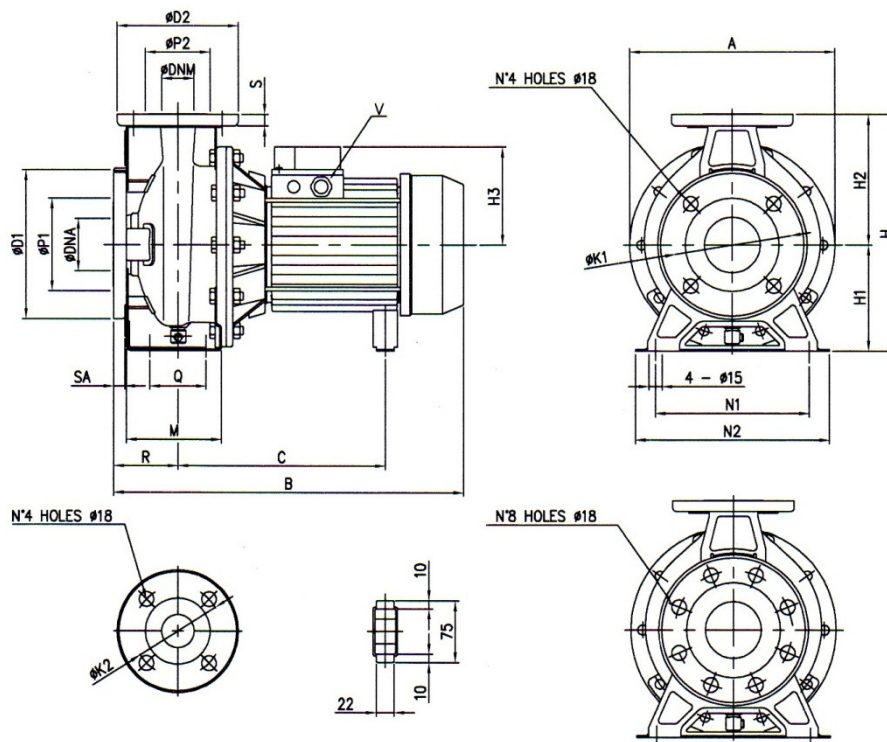
80-160/11 – 80-160/13



80-160/15 – 80-160/18.5



Dimensions – 1.450 min-1

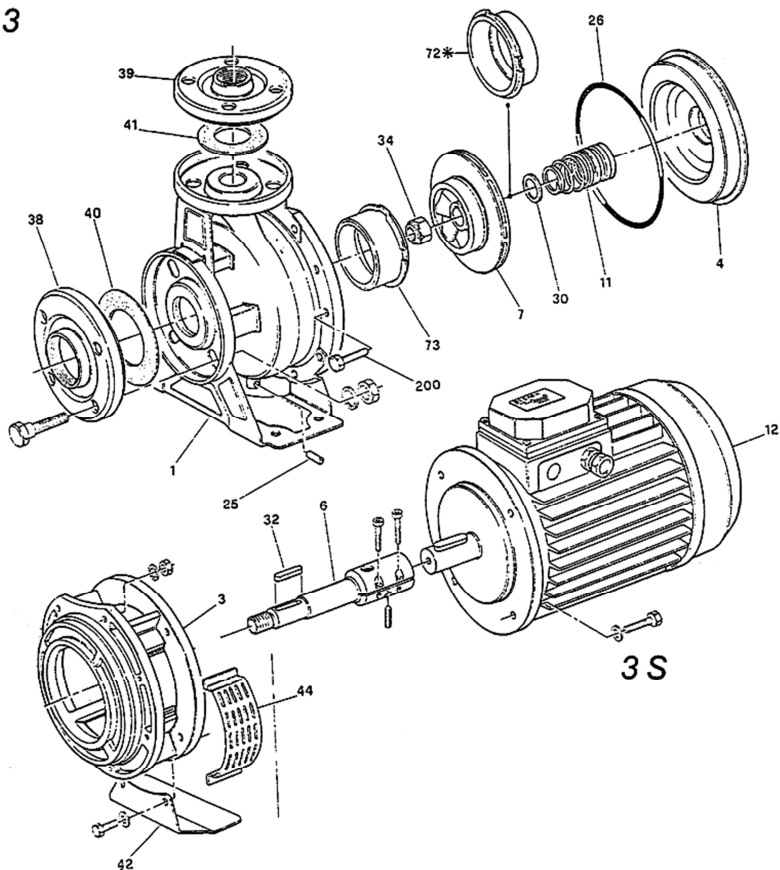


Pump type	Dimensions [mm]																						standard	No. Holes On request	
	A	B	C	H	H1	H2	H3	M	N1	N2	Q	R	V	S	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	SA	ØDNA			ØDNM
32-125/0.25	213	375	205	252	112	140	104	114	140	190	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-160/0.37R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-160/0.37	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.55R	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.55	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.75	294	408	232	340	160	180	122	119	190	240	70	80	PG13.5	14	165	125	96	140	100	76	16	50	32	4	-
40-125/0.37R	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-125/0.37	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-160/0.55R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-160/0.55	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.1R	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.1	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.5	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
50-125/0.55R	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-
50-125/0.55	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-
50-160/1.1R	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-160/1.1	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/1.5R	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/1.5	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/2.2	296	478	256	360	160	200	134	139	212	265	70	100	PG16	16	185	145	116	165	125	96	16	65	50	4	-
65-125/0.55	254	415	219	340	160	180	117	150	212	280	95	100	PG11	16	200	160	134	185	145	115	18	80	65	8	4
65-125/0.75	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-125/1.1	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/1.1	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/1.5	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/2.2	296	483	253	360	160	200	139	150	212	280	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/2.2R	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/2.2	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/3.0	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4

EXPLODED VIEW

Nr. Bezeichnung SERIE 3

- 1 Gehäuse
- 3 Motorträger
- 4 Gehäusedeckel
- 6 Motorwelle¹
- 7* Laufrad
- 11* Gleitringdichtung
- 12 Motorgehäuse mit Stator²
- 13 hinterer Gehäusedeckel
- 14 Lüfter
- 15 Lüfterabdeckung
- 16 Lüsterklemme
- 17 Klemmkastendeckel
- 18* Spritzring
- 19* vorderes Kugellager
- 20* hinteres Kugellager
- 21 Ausgleichsscheibe
- 22 Montagestangen (4 Stck.)
- 25 Ablassschraube
- 26* O-Ring
- 30 Distanzscheibe
- 32 Paßfeder
- 33 Paßfeder
- 34 Mutter
- 38 Gegenflansch (als Zubehör)
- 39 Gegenflansch (als Zubehör)
- 40 Dichtung (als Zubehör)
- 41 Dichtung (als Zubehör)
- 42 Fuß
- 44 Kupplungsschutz
- 56 Klemmkastendichtung
- 58 Abdeckung Kabeldurchführung
- 66 Lagerabdeckung
- 67 Lagerabdeckung
- 69 Dichtung
- 70 Dichtung
- 72* Schleißring
- 73* Schleißring
- 92* Lippendichtung
- 93* Lippendichtung
- 200 Schraube



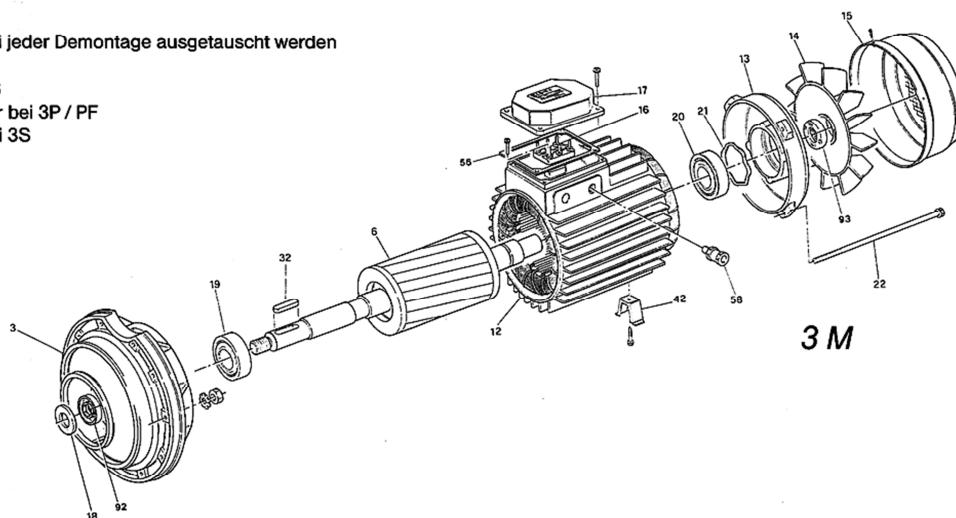
* Diese Teile sollen bei jeder Demontage ausgetauscht werden

¹ Mit Rotor bei 3M

Aufsteckwelle bei 3S

Welle für Lagerträger bei 3P / PF

² Kompletter Motor bei 3S





Basic Data:

Capacity:	up to 240 m ³ /h
Discharge Head:	up to 90 m W.S.
Connections:	DN 32 – DN 100
Motor speed:	1450 and 2900 min ⁻¹