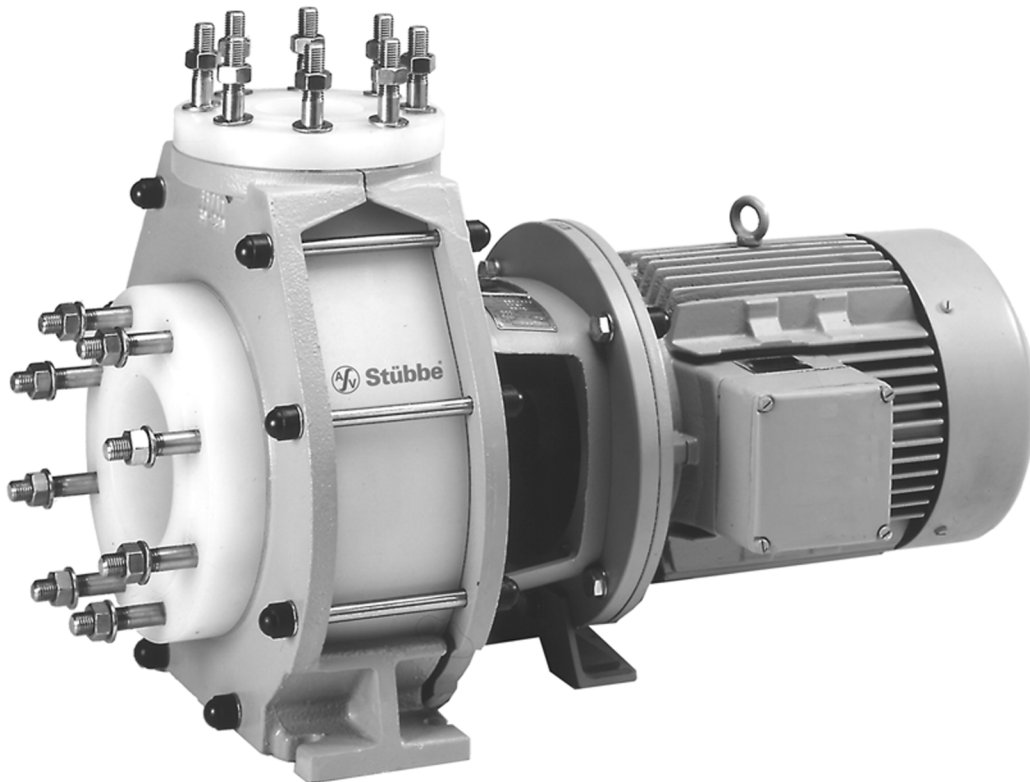


Thermoplastic Centrifugal Pump type NMB

Suction and pressure connection acc. to EN 22858, ISO 2858

Sizes:	32 - 125 up to 80 - 200
Capacity Q:	up to 110 m ³ /h
Head H:	up to 60 m
Operating temperature t:	PE up to + 60 °C PP up to + 80 °C PVDF up to + 110 °C



The ASV thermoplastic centrifugal pump

- for transportation of aggressive fluids like acids, alkalines and solvents
- constructional components highly resistant



Execution

Construction

ASV thermoplastic chemical centrifugal pump type NMB is a single-stage spiral casing pump in horizontal construction with axial suction and radial pressure connection.

Low maintenance, space-saving compact pump. Pumphead with intermediate flange directly flanged at the motor. Motor (IEC standard) with extended stainless steel shaft for seat the impeller.

Nominal output and flange connections acc. to EN 22858.

The modular concept of the ASV thermoplastic centrifugal pump allows an easy and fast exchange of wear and tear parts.

The mounting of the pump into the line system is problemfree as an adjustment of the coupling is not necessary.

The hydraulic of the ASV centrifugal pump is made of few solid thermoplastic parts in order to guarantee high operational reliability. To ensure this reliability high chemical and wearing resistant thermoplastics like high molecular weight Polyethylene (PE), ultra high molecular weight low-pressure-Polyethylene (Hostalen GUR), Polypropylene (PP) or Polyvinylidene fluoride (PVDF) are used.

Absorption of external forces by robust metal casing. Drainholes on spiral casings on request.

Suction

The pump is not self-priming and has to be installed with positive liquid supply. Self-priming can be arranged with the help of a footvalve (only for solid-free liquids) at the end of the suction line or the installation of an ASV self-priming container. Respective brochures are available.

Impeller

- closed radial impeller
- axial-thrust-compensation by relief holes
- impeller mounting independent of direction of rotation
- seal of impeller by impeller cap and internal O-ring

Shaft and shaft protection sleeve

- extended motor shaft made of stainless steel
- shaft protection sleeves made of resin impregnated carbon or thermoplastic depending on flow medium

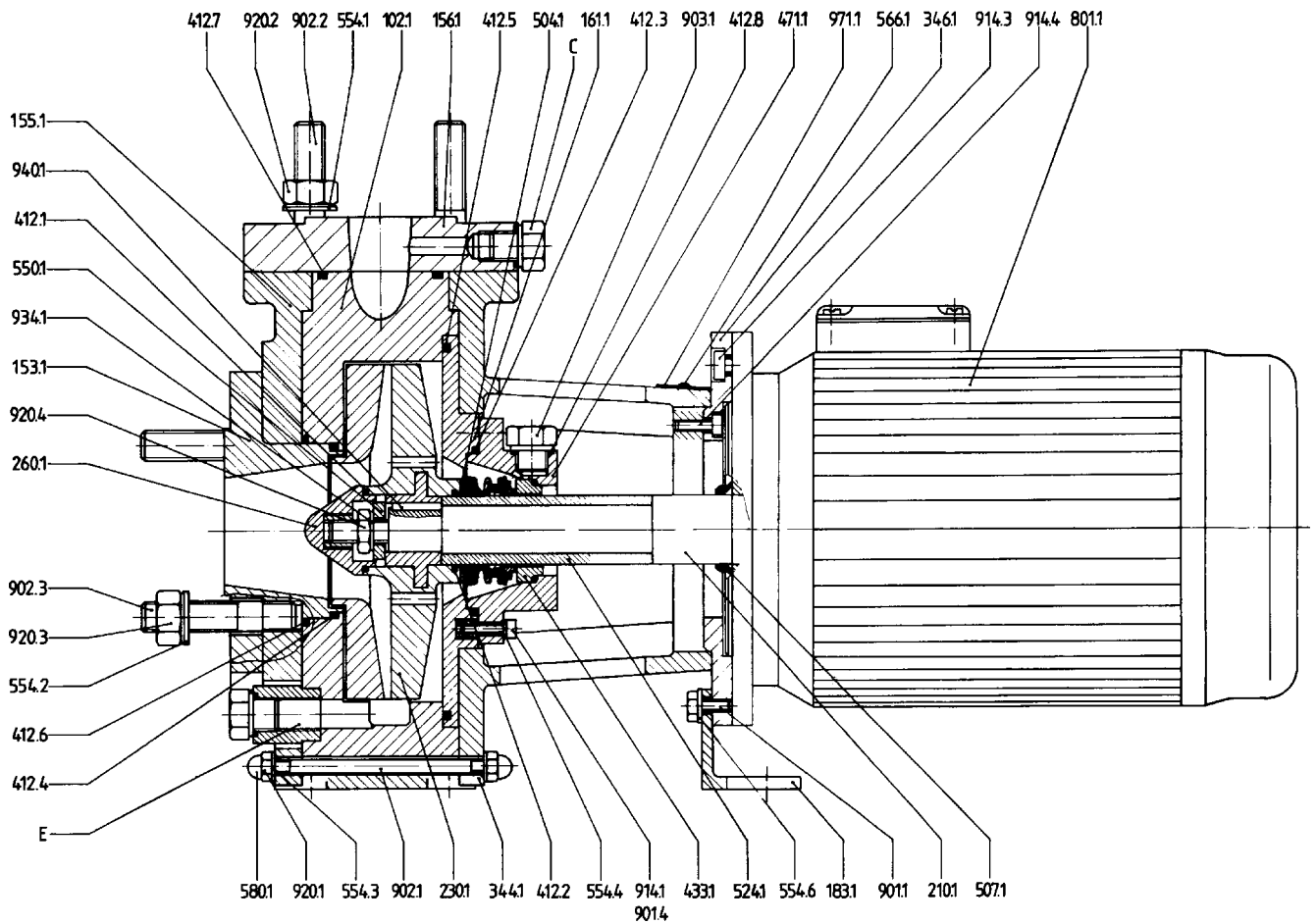
Shaft seal

- sealing of the shaft by single or double mechanical seals of various executions and brands
- circulation, flushing or quenching arrangeable depending on the application (see illustration)
- sliding surface combination in silicated carbon against silicated carbon, O-rings and liner of Viton (FPM) or Hypalon (CSM), metal parts of SS 1.4571 or Hastelloy as standard execution and allows a wide range of application. Materials in other combinations are also possible.

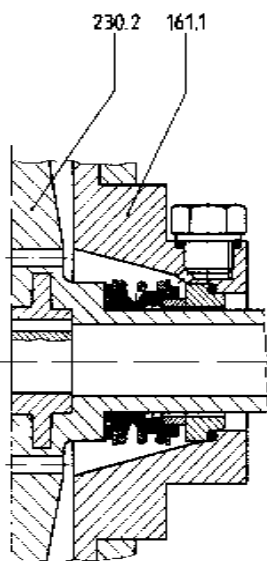
Painting

- several coatings protect all metal parts of the pump
- special coating systems for higher protection available

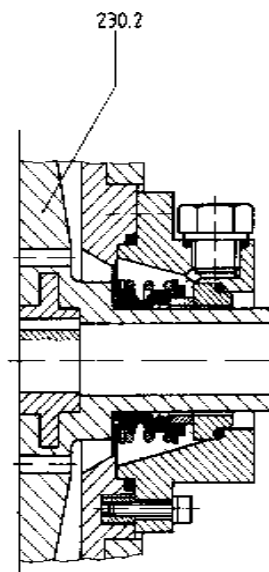
Sectional drawings and component part register



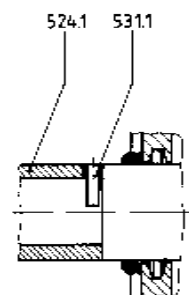
Mechanical seal: single acting, internal
 E = outflow (option)
 C = circulation (option)



Execution: 32 - 125, 40 - 125



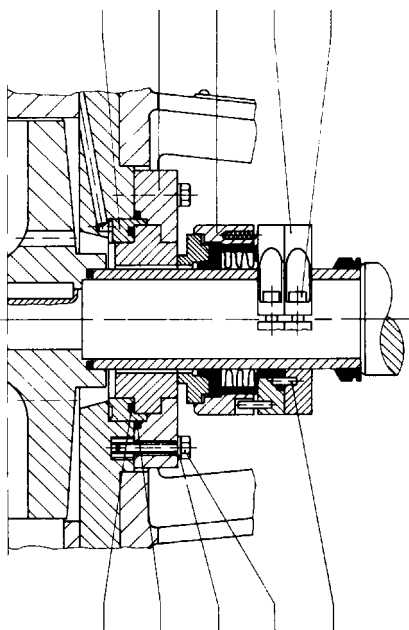
Execution: with welded shaft protection sleeve



Execution: shaft protection sleeve with tension safety device by clamping sleeve

The illustrations generally correspond to the executions.
 Constructional alterations excepted.

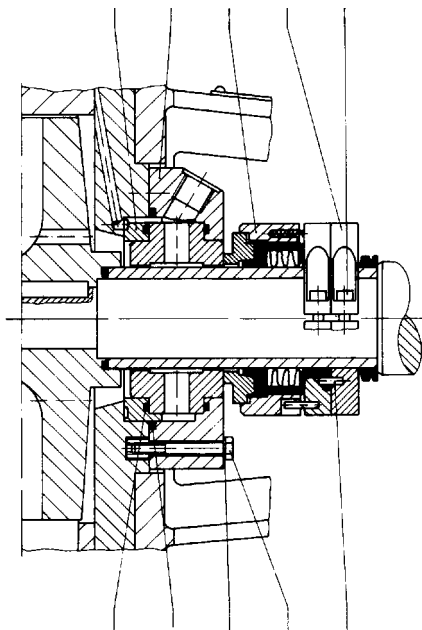
487.2 471.2 433.1 485.2 914.1



412.9 412.3 554.4 901.4 562.2

Mechanical seal:
single acting external

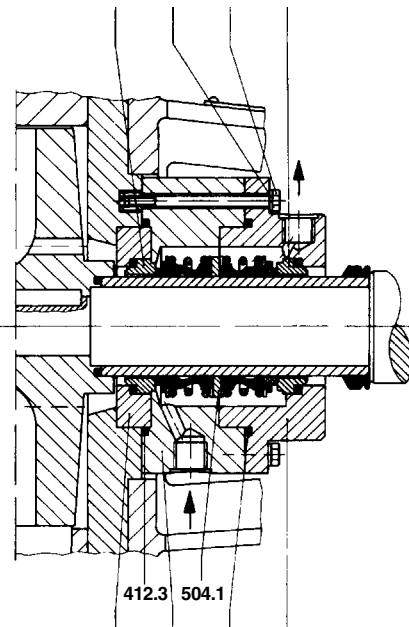
487.2 471.3 433.1 485.2 914.1



412.9 412.3 554.4 901.4 562.2

Mechanical seal:
single acting external with internal or
external circulating or rinsing

433.2 554.4 901.4 433.1

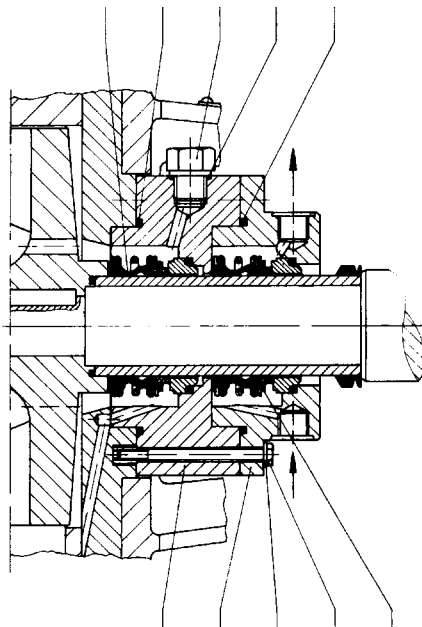


412.3 504.1

487.1 490.1 412.10 471.1

Mechanical seal:
double acting flushing chamber

433.1 412.3 903.1 412.8 412.10



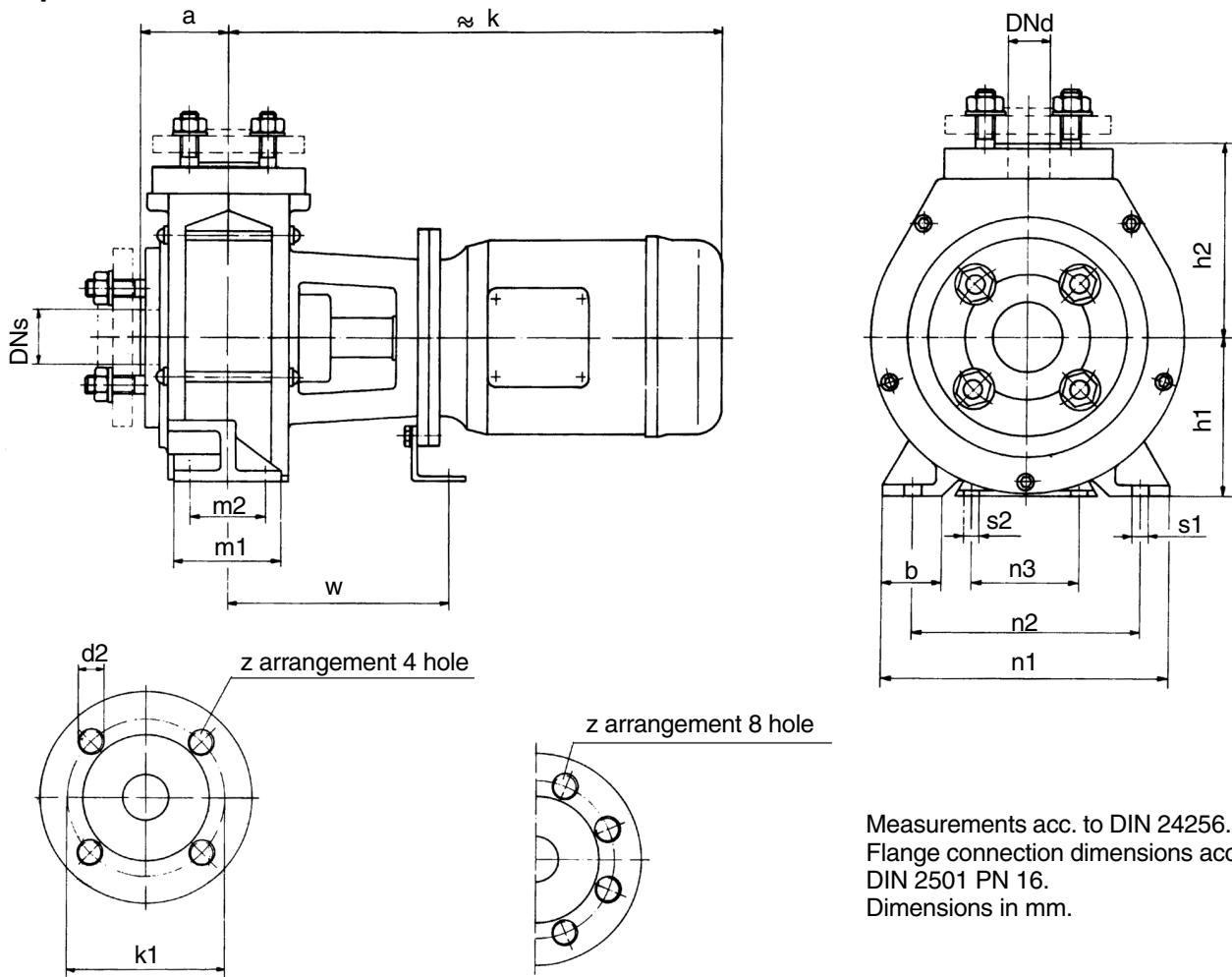
490.1 471.1 554.4 901.4 433.2

Mechanical seal:
single acting in tandem-arrangement

Part No. Description

102.1	Spiral casing
153.1	Suction connection
155.1	Housing flanges
156.1	Pressure connection
161.1	Casing cover
183.1	Support foot
210.1	Shaft
230.1	Impeller
230.2	Impeller
260.1	Impeller cap
344.1	Bearing carrier lantern
346.1	Intermediate flange
412.1	O-ring
412.2	O-ring
412.3	O-ring
412.4	O-ring
412.5	O-ring
412.6	O-ring
412.7	O-ring
412.8	O-ring
412.9	O-ring
412.10	O-ring
433.1	Mechanical seal
433.2	Mechanical seal
471.1	Seal cover
471.2	Seal cover
471.3	Seal cover
485.2	Driver
487.1	Counterring feeder
487.2	Counterring feeder
490.1	Seal flange
504.1	Distance ring
507.1	V-ring
524.1	Shaft protection sleeve
531.1	Clamping sleeve
550.1	Washer
554.1	U-Washer
554.2	U-Washer
554.3	U-Washer
554.4	U-Washer
554.6	U-Washer
562.2	Straight pin
566.1	Round-head notched nail
580.1	Hexagonal protection cap
801.1	Three-phase-current motor
901.1	Hexagonal bolt
901.4	Hexagonal bolt
902.1	Stud bolt
902.2	Stud bolt
902.3	Stud bolt
903.1	Plug screw
914.1	Socket head cap screw
914.3	Socket head cap screw
914.4	Socket head cap screw
920.1	Hexagonal nut
920.2	Hexagonal nut
920.3	Hexagonal nut
920.4	Hexagonal nut
934.1	Spring ring
940.1	Feather ring
971.1	Identification plate

Pump dimensions



Measurements acc. to DIN 24256.
Flange connection dimensions acc.
DIN 2501 PN 16.
Dimensions in mm.

Pump type	Dimensions (mm)												Flange dimension								Motor size		90S	90L	100L	112M	132S	
													Pressure con.				Suction con.				kW	1450 rpm	1.1	1.5	2.2+3	4	5.5	
																						2900 rpm	1.5	2.2	3	4+5.5	7.5	
NMB	a	h1	h2	b	m1	m2	n1	n2	n3	s1	s2	w	DN _d	k1	d3	z	DN _s	k1	d2	z	k appr.		425	425	450	490	500	
32-125	80	112	140	50	100	70	190	140	110	14	14	200	32	100	M16	4	50	125	M16	4	k appr.		425	425	450	490	500	
32-160	80	132	160	50	100	70	240	190	110	14	14	200	32	100	M16	4	50	125	M16	4	k appr.		425	425	450	490	500	610
32-200	80	160	180	50	100	70	240	190	110	14	14	200	32	100	M16	4	50	125	M16	4	k appr.		425	425	450	490	500	610
40-125	80	112	140	50	100	70	210	160	110	14	14	200	40	110	M16	4	65	145	M16	4	k appr.		425	425	450	490	500	
40-160	80	132	160	50	100	70	240	190	110	14	14	200	40	110	M16	4	65	145	M16	4	k appr.		425	425	450	490	500	610
40-200	100	160	180	50	100	70	265	212	110	14	14	200	40	110	M16	4	65	145	M16	4	k appr.		425	425	450	490	500	610
50-125	100	132	160	50	100	70	240	190	110	14	14	200	50	125	M16	4	80	160	M16	8	k appr.		425	425	450	490	500	610
50-160	100	160	180	50	100	70	265	212	110	14	14	200	50	125	M16	4	80	160	M16	8	k appr.		425	425	450	490	500	610
50-200	100	160	200	50	100	70	265	212	110	14	14	200	50	125	M16	4	80	160	M16	8	k appr.		425	425	450	490	500	610
65-160	100	160	200	65	125	95	280	212	110	14	14	235	65	145	M16	4	100	180	M16	8	k appr.				460	500	510	620
65-200	100	180	225	65	125	95	320	250	110	14	14	235	65	145	M16	4	100	180	M16	8	k appr.					500	510	620
80-160	125	180	225	65	125	95	320	250	110	14	14	224	80	160	M16	8	125	210	M16	8	k appr.					514	534	640
80-200	125	180	250	65	125	95	345	280	110	14	14	224	80	160	M16	8	125	210	M16	8	k appr.					514	534	640



Weights

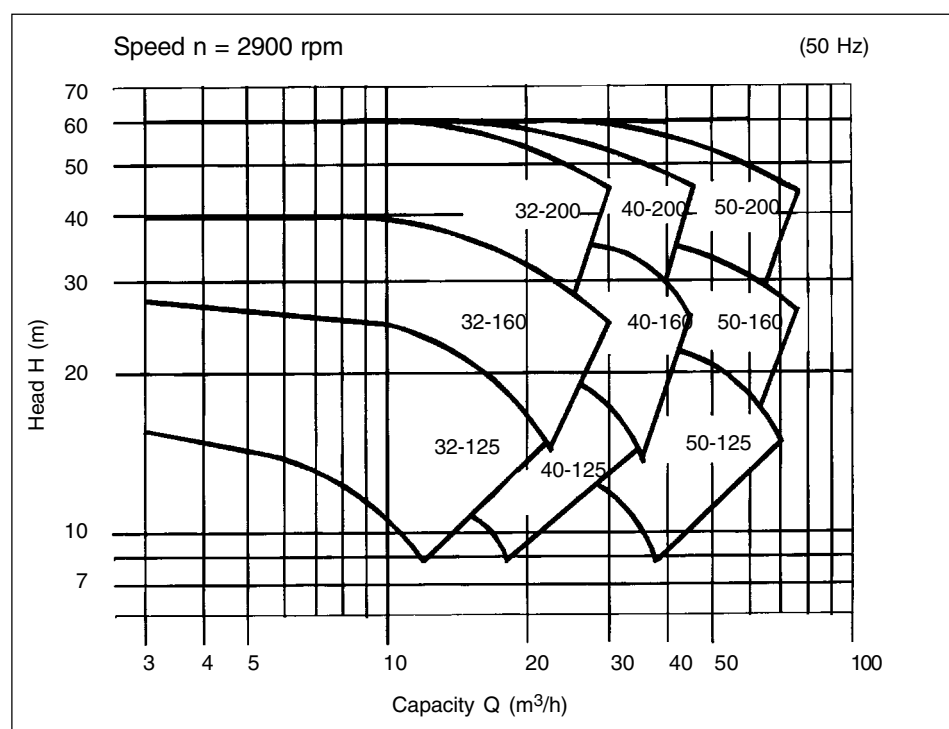
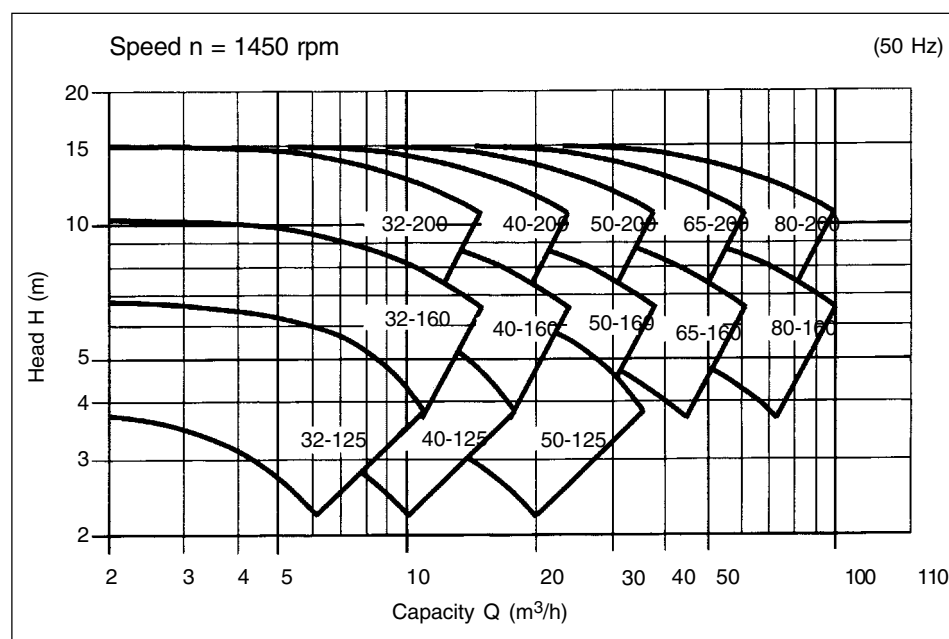
Characteristic curve fields for rotational speeds $n = 1450 \text{ rpm}$ and $n = 2900 \text{ rpm}$
acc. to DIN 24256

Weight of pumps without motor

Pump type	Weight ¹⁾ (kg) without motor	
NMB	PE/PP	PVDF
32-125	22	27
32-160	25	30
32-200	31	37
40-125	22	27
40-160	27	34
40-200	37	44
50-125	26	32
50-160	37	44
50-200	38	45
65-160	36	43
65-200	36	43
80-160	30	39
80-200	69	84

Weight of motors

Motor size	Weight ¹⁾ (kg)	
	2900 rpm	1450 rpm
90 S	12	12
90 L	15	14
100 L	20	22
112 M	25	28
132 S	50	56
132 M	56	68



¹⁾ standard value

Technical alterations excepted



Notizen / notes



Notizen / notes