



Centrifugal electric pumps Electropompes centrifuges Fliehkraft-Pumpen Elettropompe centrifughe

per macchine utensili
for machine tools
pour machines-outils
für Werkzeugmaschinen

cemp

Flameproof
Motors



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Atav - Les Ateliers de l'Avre

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cemp

Flameproof
Motors

Centrifugal electric pumps

Electropompes centrifuges

Fliehkraft-Pumpen

Elettropompe centrifughe

for machine tools
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per macchine utensili

TD 314

Catalogue 16a
Edition 07-11
Replaces 05-11

Catalogue 16a
Edition 07-11
Remplace 05-11

Katalog 16a
Die Auflage 07-11
Ersetzt die Auflage 05-11

Catalogo 16a
Edizione 07-11
Sostituisce 05-11

Centrifugal electric pumps for machines tools

Series T vertical, immersion, low pressure

MTV	10
T	12
TV	14
TL	16
TN	18
TS	20
TT	22
G1	24


Vertical immersion centrifugal electric pumps

GB

This series of electric pumps is particularly well suited for use with:

- machine tools
- metal washing machines
- glass-working machines
- drawing machines
- machines for the optics sector
- air conditioning systems
- industrial washing machines

Norms and compliance with standards

The electric motors are produced in compliance with the following norms: IEC 34, IEC 72, IEC 85, as well as the corresponding national norms. In the T series, the immersed portion is compliant with the conditions of norm DIN 5440. The entire line is also in compliance with the directives regarding machinery, low voltage and electromagnetic emissions, and bears the corresponding  seal.

Standard manufacturing characteristics

- Two pole aluminum motor, totally enclosed,
- IP55 protection
- Class F insulation
- Multi- voltage (50 or 60 Hz)
- S1 duty
- Liquid temperatures up to 60°C

On request, specially designed electric pumps can be produced to meet specific needs.



T

SERIES
SERIE
SERIE
SERIE

GB
F
D
I

**Centrifugal electric pumps for machine tools,
vertical, immersion, low pressure**

***Electropompes centrifuges pour machines-outils,
verticales, avec corps immergé, à basse pression***

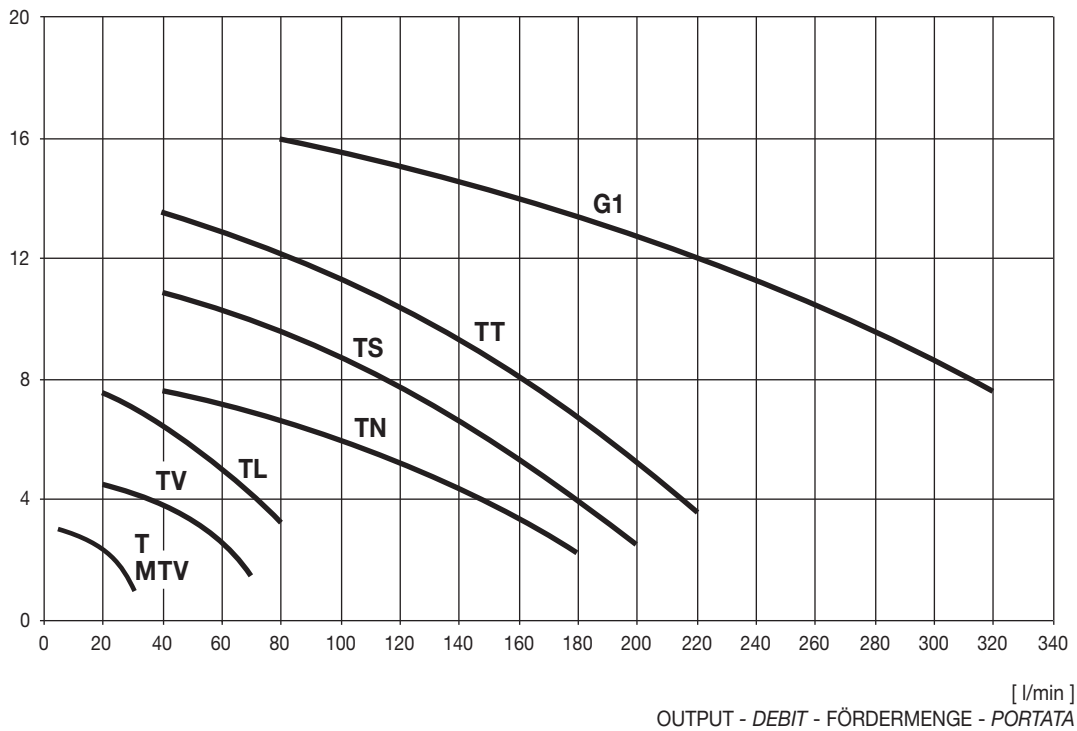
**Elektrische Kreiselpumpen für Werkzeugmaschinen,
vertikale Niederdruck-Tauchpumpen**

***Elettropompe centrifughe per macchine utensili,
verticali, ad immersione, bassa pressione***

serie T

TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]
MTV*	90 / 120 / 170 / 220 / 270 / 350	2	M 50 A2	0.10	2.620	0.6	25	2
T	90 / 120 / 170 / 220 / 270 / 350	2	C 50 A2	0.10	2.620	0.20	25	2
TV	90 / 120 / 170 / 220 / 270 / 350	2	C 50 B2	0.16	2.670	0.35	65	2
TL	120 / 170 / 220 / 270 / 350	2	C 63 B2	0.25	2.800	0.90	70	4
TN	200 / 270 / 350 / 440 / 550	2	C 71 A2	0.37	2.860	1.1	150	4
TS	200 / 270 / 350 / 440 / 550	2	C 71 B2	0.55	2.820	1.55	180	4
TT	200 / 270 / 350 / 440 / 550	2	C 71 L2	0.75	2.800	2.1	220	4
G1	250	2	C 80 B2	1.10	2.830	2.6	310	8

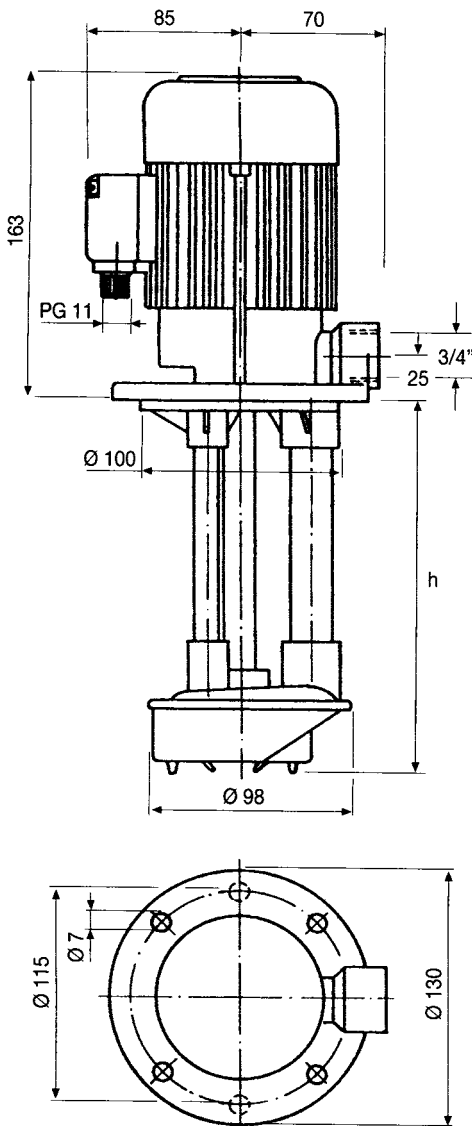
HEAD - HAUTEUR - FÖRDERHÖHE - PREVALENZA
[m]



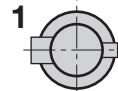
Data given are for liquids with a viscosity of 1 mm² / s and a density of 1 kg/dm³
Les valeurs indiquées correspondent à une viscosité de 1 mm² / s et un poids spécifique de 1 kg/dm³
Daten gelten für Fördermedien mit Viskosität 1 mm² / s bei Dichte 1 kg/dm³
I dati si riferiscono a liquidi con viscosità 1 mm² / s e densità 1 kg/dm³

*50 Hz / 230 V single-phase
*50 Hz / 230 V monophasés
*50 Hz / 230 V einphasen
*50 Hz / 230 V monofase

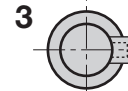
TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
MTV	90	2	M 50 A2	0.10	2.620	0.6	25	2	3
MTV	120	2	M 50 A2	0.10	2.620	0.6	25	2	3
MTV	170	2	M 50 A2	0.10	2.620	0.6	25	2	3
MTV	220	2	M 50 A2	0.10	2.620	0.6	25	2	3
MTV	270	2	M 50 A2	0.10	2.620	0.6	25	2	3
MTV	350	2	M 50 A2	0.10	2.620	0.6	25	2	3



POSITION OF
DELIVERY OUTPUT
POSITION
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LAGE DES
AUSLASSTUTZENS
POSIZIONE DELLA
MANDATA

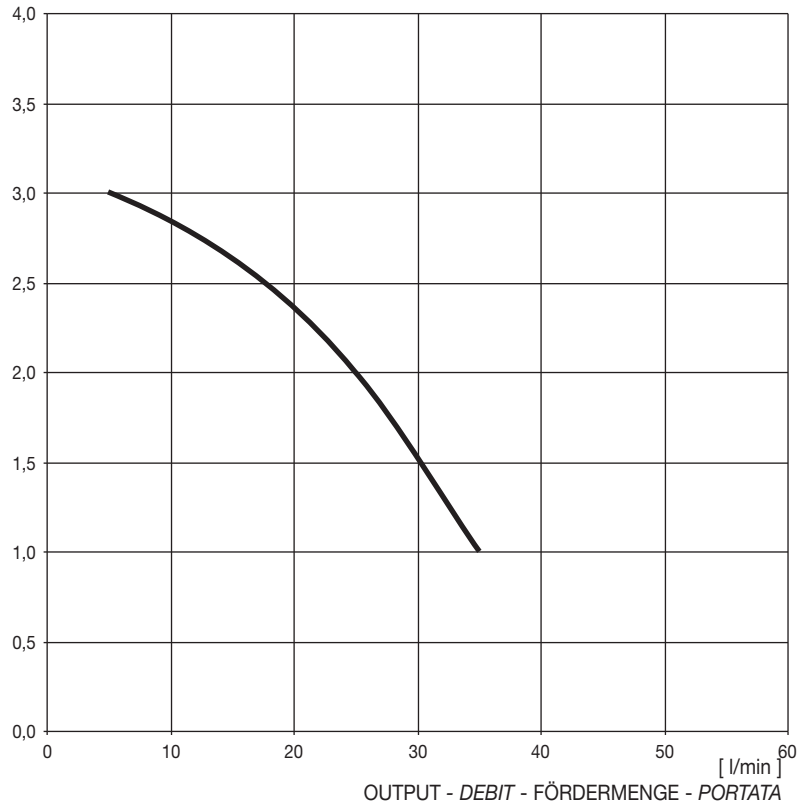


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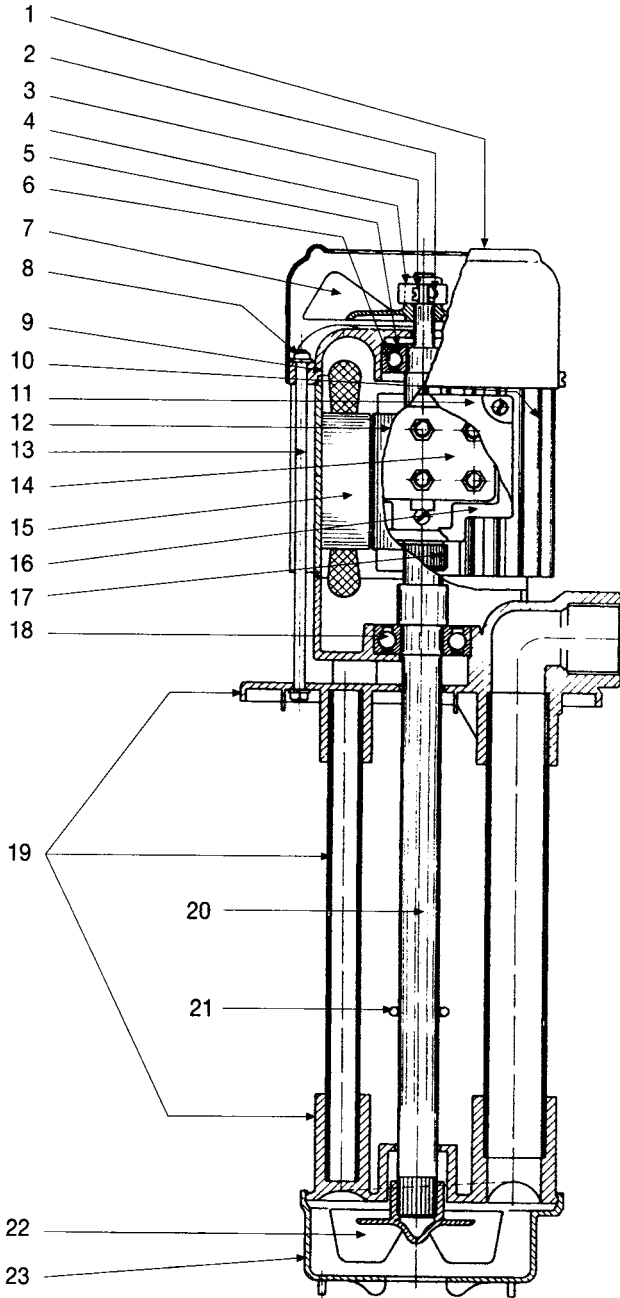
3
ON REQUEST
SUR DEMANDE
AUF ANFRAGE
A RICHIESTA

HEAD - HAUTEUR - FÖRDERHÖHE - PREVALENZA
[m]



Dimensions in mm, tolerances allowed
 Dimensions en mm, tolérances admissibles
 Maße in mm, Maßtoleranzen
 Dimensioni in mm, tolleranze consentite

Data given are for liquids with a viscosity of 1 mm² / s and a density of 1 kg/dm³
 Les valeurs indiquées correspondent à une viscosité de 1 mm² / s et un poids spécifique de 1 kg/dm³
 Daten gelten für Fördermedien mit Viskosität 1 mm² / s bei Dichte 1 kg/dm³
 I dati si riferiscono a liquidi con viscosità 1 mm² / s e densità 1 kg/dm³



GB

1 Fan cover	Steel	15 Stator	
2 Nut		16 Seal	NBR
3 Screw		17 Wire clamp	Nylon
4 Hose clamp		18 Lower bearing	
5 Ring	NBR	19 Pump body	POM + AISI 304
6 Higher bearing		20 Shaft pump	Steel
7 Fan	Nylon	21 Ring	NBR
8 Nut	Brass	22 Impeller	POM
9 End shield	Aluminium	23 Impeller-cover	POM
10 Frame motor	Aluminium		
11 Terminal box cover	Aluminium		
12 Rotor			
13 Rod	Steel		
14 Terminal box			

F

1 Capot du ventilateur	Acier	15 Stator	
2 Ecrou		16 Garniture	NBR
3 Vis		17 Presse-câble	Nylon
4 Bandelette de serrage		18 Roulement inférieur	
5 Anneau	NBR	19 Corps pompe	POM + AISI 304
6 Roulement supérieur		20 Arbre pompe	Acier
7 Ventilateur	Nylon	21 Anneau	NBR
8 Ecrou	Cuivre	22 Roue	POM
9 Flasque supérieur	Aluminium	23 Fond	POM
10 Carcasse	Aluminium		
11 Couvercle de la boîte a bornes	Aluminium		
12 Rotor			
13 Tige	Acier		
14 Bornes			

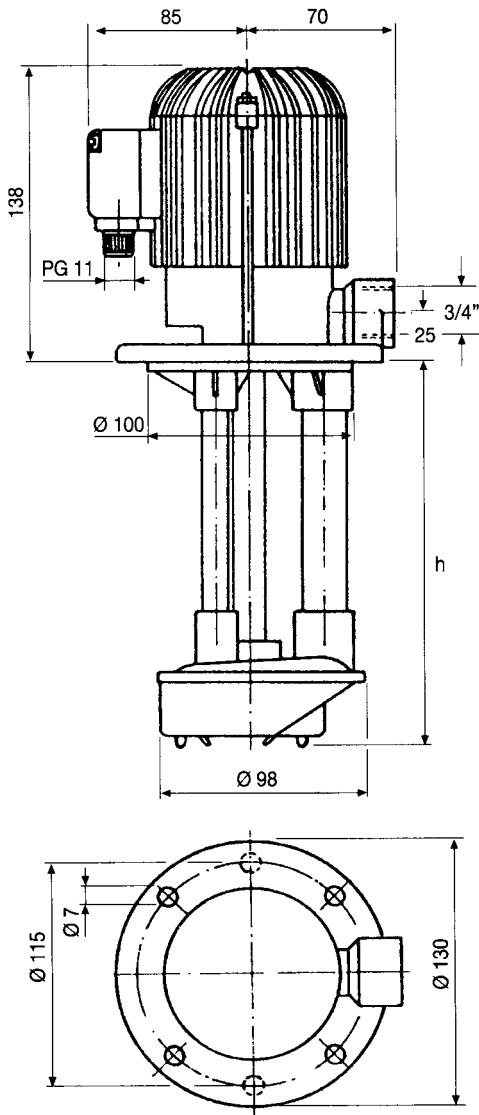
D

1 Lüfterhaube	Stahl	15 Statorpaket	
2 Mutter		16 Dichtung	NBR
3 Schraube		17 Kabelpresse	Nylon
4 Schlauchklemme		18 Unteres Lager	
5 Ring	NBR	19 Pumpengehäuse	POM + AISI 304
6 Oberes Lager		20 Pumpenwelle	Stahl
7 Lüfterflügel	Nylon	21 Ring	NBR
8 Mutter	Messing	22 Pumpenlaufrad	POM
9 Oberes Lagerschild	Alu-Guß	23 Deckel	POM
10 Motorgehäuse	Alu-Guß		
11 Klemmenkastendeckel	Alu-Guß		
12 Druckgussrotor			
13 Zugstange	Stahl		
14 Klemmenbrett			

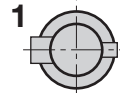
I

1 Calotta copriventola	Acciaio	15 Statore	
2 Dado		16 Guarnizione	NBR
3 Vite		17 Pressacavo	Nylon
4 Fascetta serraggio		18 Cuscinetto inferiore	
5 Anello	NBR	19 Corpo pompa	POM + AISI 304
6 Cuscinetto superiore		20 Albero pompa	Acciaio
7 Ventola	Nylon	21 Anello	NBR
8 Dado	Ottone	22 Girante	POM
9 Scudo superiore	Alluminio	23 Fondello	POM
10 Carcassa	Alluminio		
11 Coprimorsettiera	Alluminio		
12 Rotore			
13 Tirante	Acciaio		
14 Morsettiera			

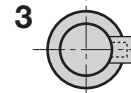
TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
T	90	2	C 50 A2	0.10	2.620	0.20	25	2	3
T	120	2	C 50 A2	0.10	2.620	0.20	25	2	3
T	170	2	C 50 A2	0.10	2.620	0.20	25	2	3
T	220	2	C 50 A2	0.10	2.620	0.20	25	2	3
T	270	2	C 50 A2	0.10	2.620	0.20	25	2	3
T	350	2	C 50 A2	0.10	2.620	0.20	25	2	3



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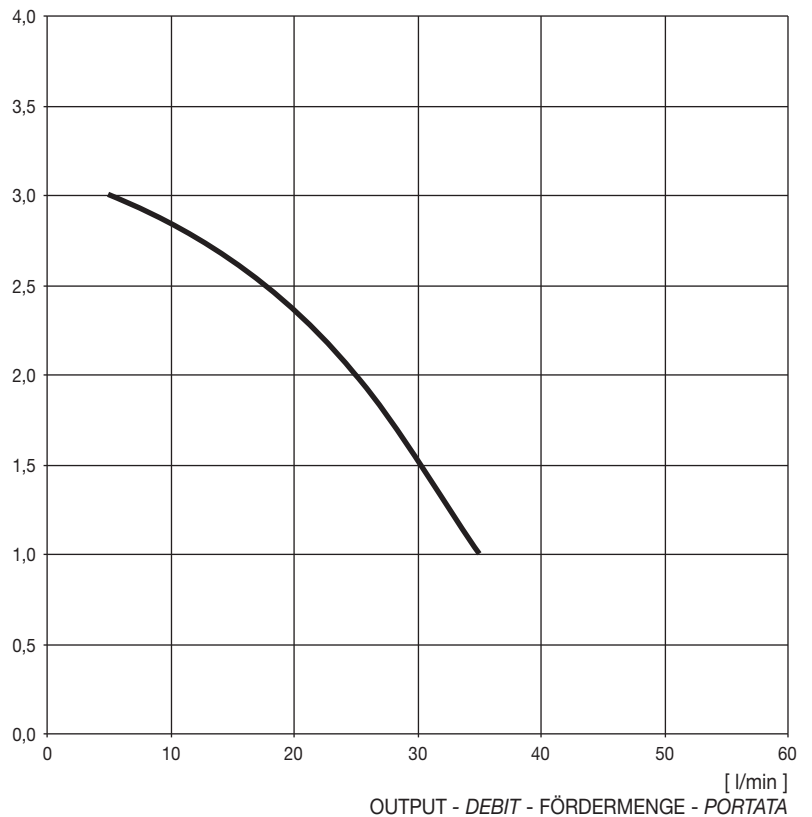


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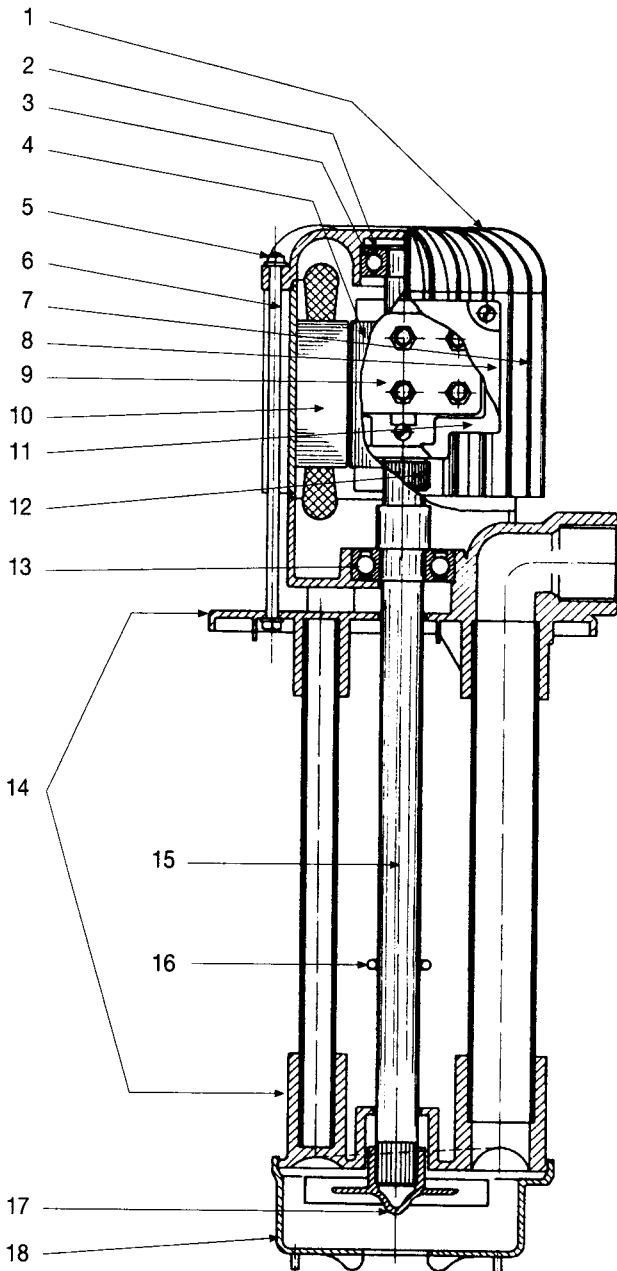
3
ON REQUEST
SUR DEMANDE
AUF ANFRAGE
A RICHIESTA

HEAD - HAUTEUR - FÖRDERHÖHE - PREVALENZA
[m]



Dimensions in mm, tolerances allowed
 Dimensions en mm, tolérances admissibles
 Maße in mm, Maßtoleranzen
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Data given are for liquids with a viscosity of 1 mm² / s and a density of 1 kg/dm³
 Les valeurs indiquées correspondent à une viscosité de 1 mm² / s et un poids spécifique de 1 kg/dm³
 Daten gelten für Fördermedien mit Viskosität 1 mm² / s bei Dichte 1 kg/dm³
 I dati si riferiscono a liquidi con viscosità 1 mm² / s e densità 1 kg/dm³



GB

1 End shield		15 Shaft pump	Steel
2 Ring	NBR	16 Ring	NBR
3 Higher bearing		17 Impeller	POM
4 Rotor		18 Impeller-cover	POM
5 Nut	Brass		
6 Rod	Steel		
7 Frame motor	Aluminium		
8 Terminal box cover	Aluminium		
9 Terminal box			
10 Stator			
11 Seal	NBR		
12 Wire clamp	Nylon		
13 Lower bearing			
14 Pump body	POM + AISI 304		

F

1 Flasque supérieur		15 Arbre pompe	Acier
2 Anneau	NBR	16 Anneau	NBR
3 Roulement supérieur		17 Roue	POM
4 Rotor		18 Fond	POM
5 Ecrou	Cuivre		
6 Tige	Acier		
7 Carcasse	Aluminium		
8 Couverture de la boîte a bornes	Aluminium		
9 Bornes			
10 Stator			
11 Garniture	NBR		
12 Presse-câble	Nylon		
13 Roulement inférieur			
14 Corps pompe	POM + AISI 304		

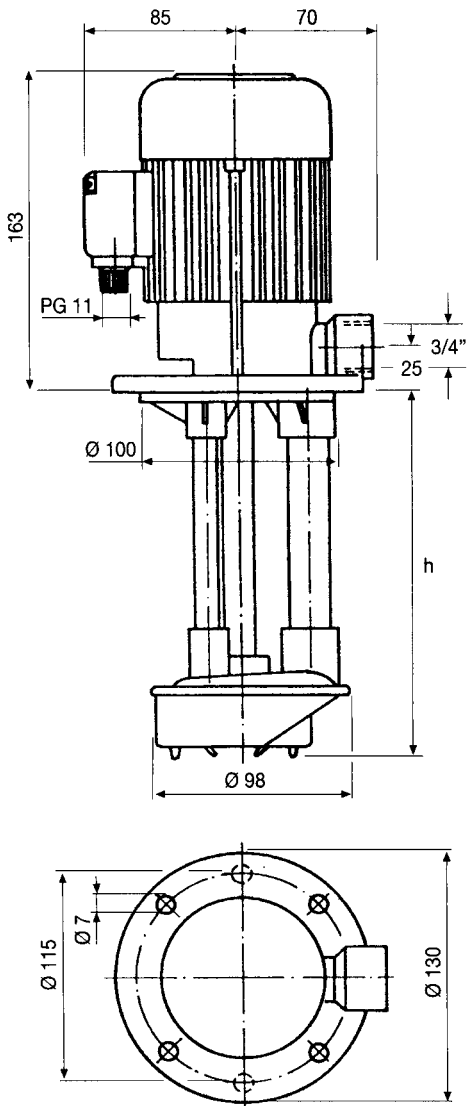
D

1 Oberes Lagerschild		15 Pumpenwelle	Stahl
2 Ring	NBR	16 Ring	NBR
3 Oberes Lager		17 Pumpenlaufrad	POM
4 Druckgussrotor		18 Deckel	POM
5 Mutter	Messing		
6 Zugstange	Stahl		
7 Motorgehäuse	Alu-Guß		
8 Klemmenkastendeckel	Alu-Guß		
9 Klemmenbrett			
10 Statorpaket			
11 Dichtung	NBR		
12 Kabelpresse	Nylon		
13 Unteres Lager			
14 Pumpengehäuse	POM + AISI 304		

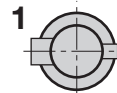
I

1 Scudo superiore		15 Albero pompa	Acciaio
2 Anello	NBR	16 Anello	NBR
3 Cuscinetto superiore		17 Girante	POM
4 Rotore		18 Fondello	POM
5 Dado	Ottone		
6 Tirante	Acciaio		
7 Carcassa	Alluminio		
8 Coprimorsettiera	Alluminio		
9 Morsettiera			
10 Statore			
11 Guarnizione	NBR		
12 Pressacavo	Nylon		
13 Cuscinetto inferiore			
14 Corpo pompa	POM + AISI 304		

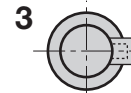
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TV	90	2	C 50 B2	0.16	2.670	0.35	65	2	3
TV	120	2	C 50 B2	0.16	2.670	0.35	65	2	3
TV	170	2	C 50 B2	0.16	2.670	0.35	65	2	3
TV	220	2	C 50 B2	0.16	2.670	0.35	65	2	3
TV	270	2	C 50 B2	0.16	2.670	0.35	65	2	3
TV	350	2	C 50 B2	0.16	2.670	0.35	65	2	3



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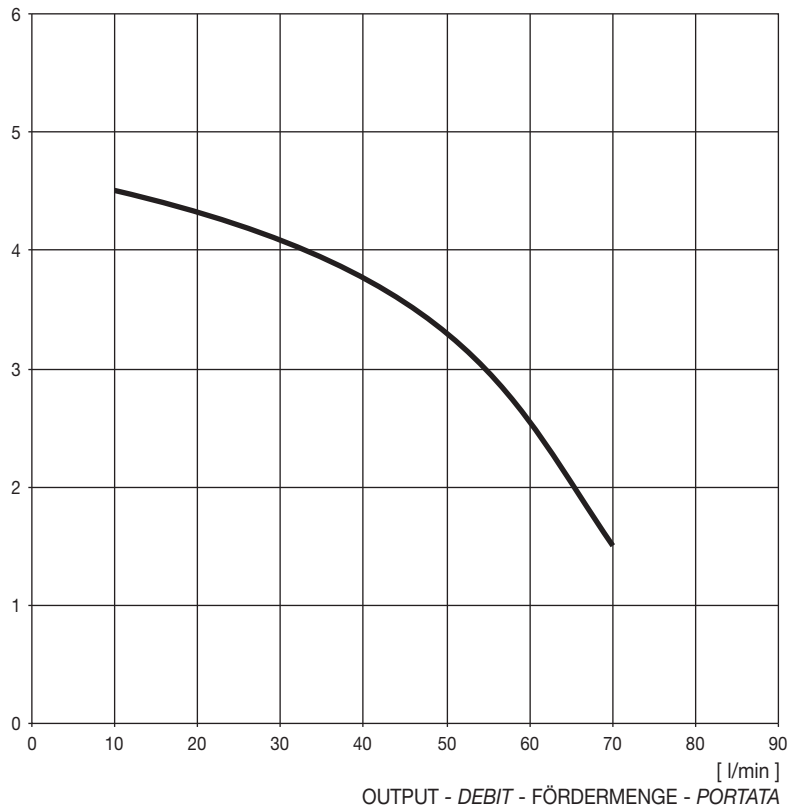


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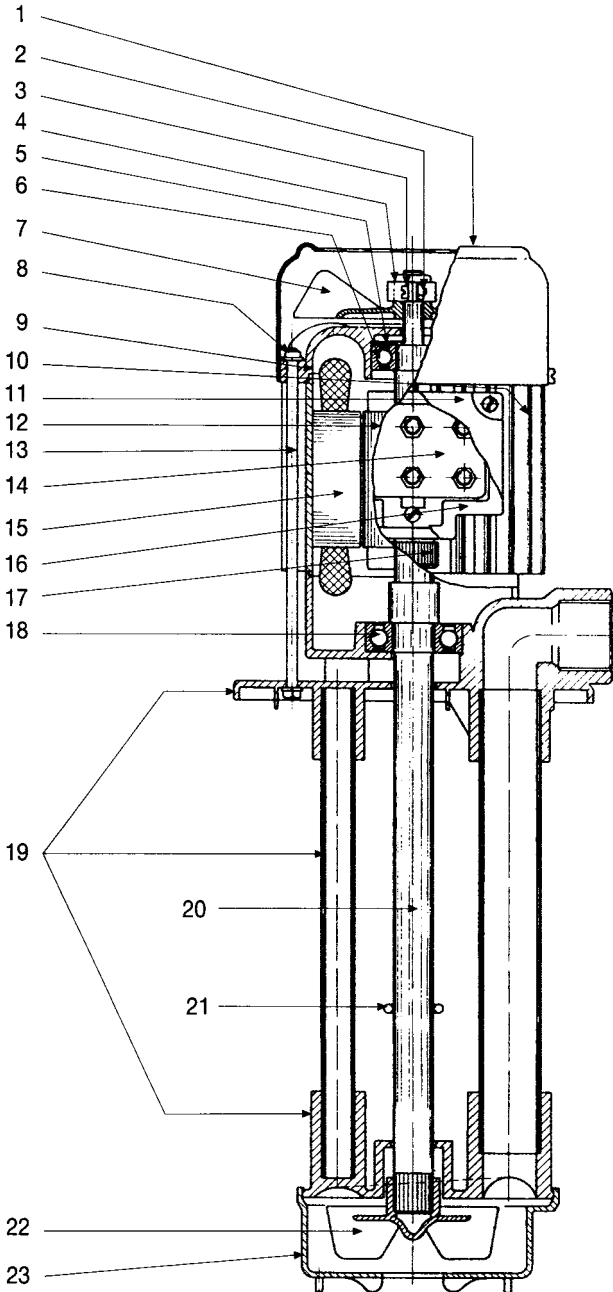
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HEAD - HAUTEUR - FÖRDERHÖHE - PREVALENZA
[m]



Dimensions in mm, tolerances allowed
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 Daten gelten für Fördermedien mit Viskosität 1 mm² / s bei Dichte 1 kg/dm³
 I dati si riferiscono a liquidi con viscosità 1 mm² / s e densità 1 kg/dm³



GB

1 Fan cover	Steel	15 Stator	
2 Nut		16 Seal	NBR
3 Screw		17 Wire clamp	Nylon
4 Hose clamp		18 Lower bearing	
5 Ring	NBR	19 Pump body	POM + AISI 304
6 Higher bearing		20 Shaft pump	Steel
7 Fan	Nylon	21 Ring	NBR
8 Nut	Brass	22 Impeller	POM
9 End shield	Aluminium	23 Impeller-cover	POM
10 Frame motor	Aluminium		
11 Terminal box cover	Aluminium		
12 Rotor			
13 Rod	Steel		
14 Terminal box			

F

1 Capot du ventilateur	Acier	15 Stator	
2 Ecrou		16 Garniture	NBR
3 Vis		17 Presse-câble	Nylon
4 Bandelette de serrage		18 Roulement inférieur	
5 Anneau	NBR	19 Corps pompe	POM + AISI 304
6 Roulement supérieur		20 Arbre pompe	Acier
7 Ventilateur	Nylon	21 Anneau	NBR
8 Ecrou	Cuivre	22 Roue	POM
9 Flasque supérieure	Aluminium	23 Fond	POM
10 Carcasse	Aluminium		
11 Couverture de la boîte a bornes	Aluminium		
12 Rotor			
13 Tige	Acier		
14 Bornes			

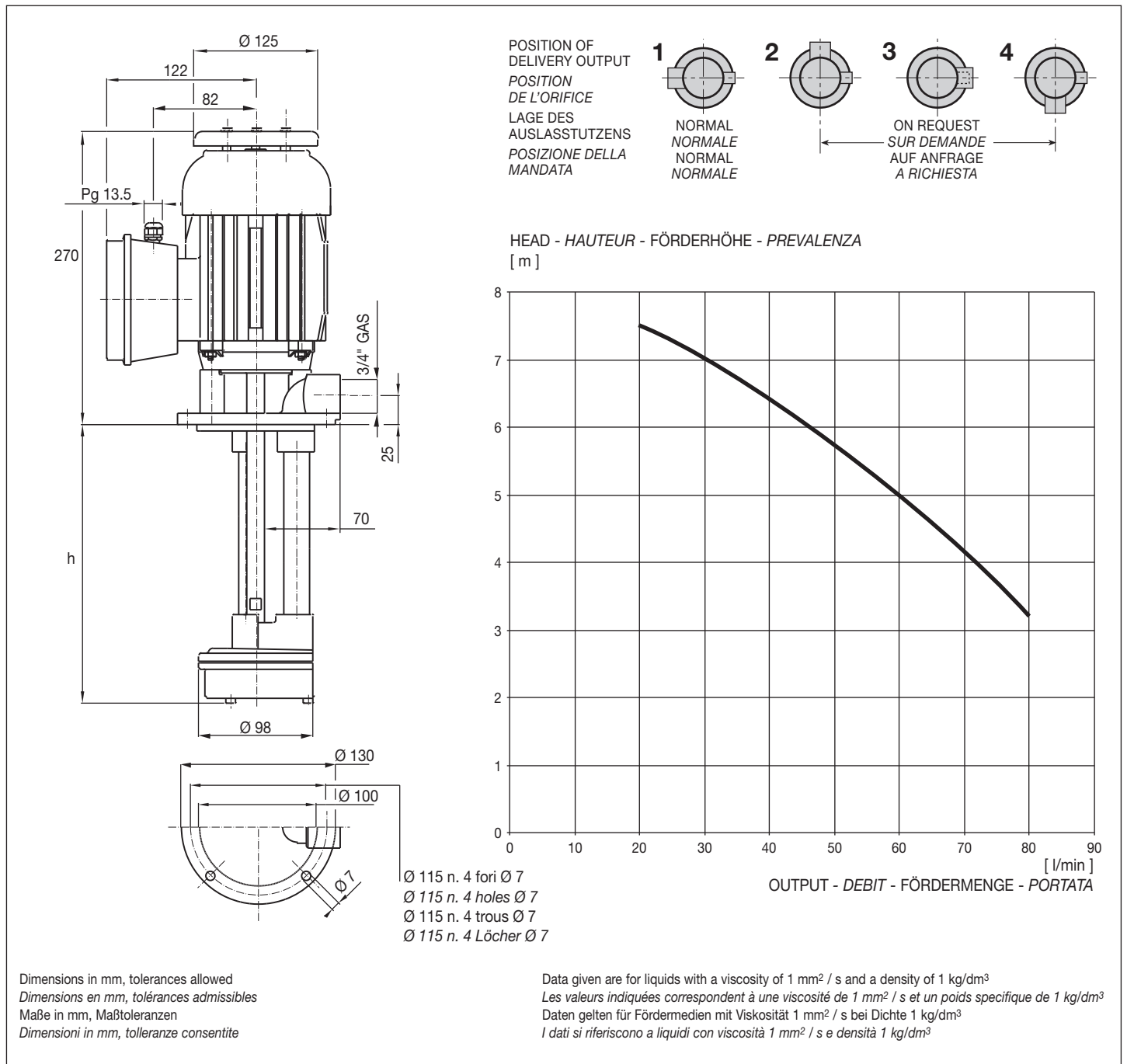
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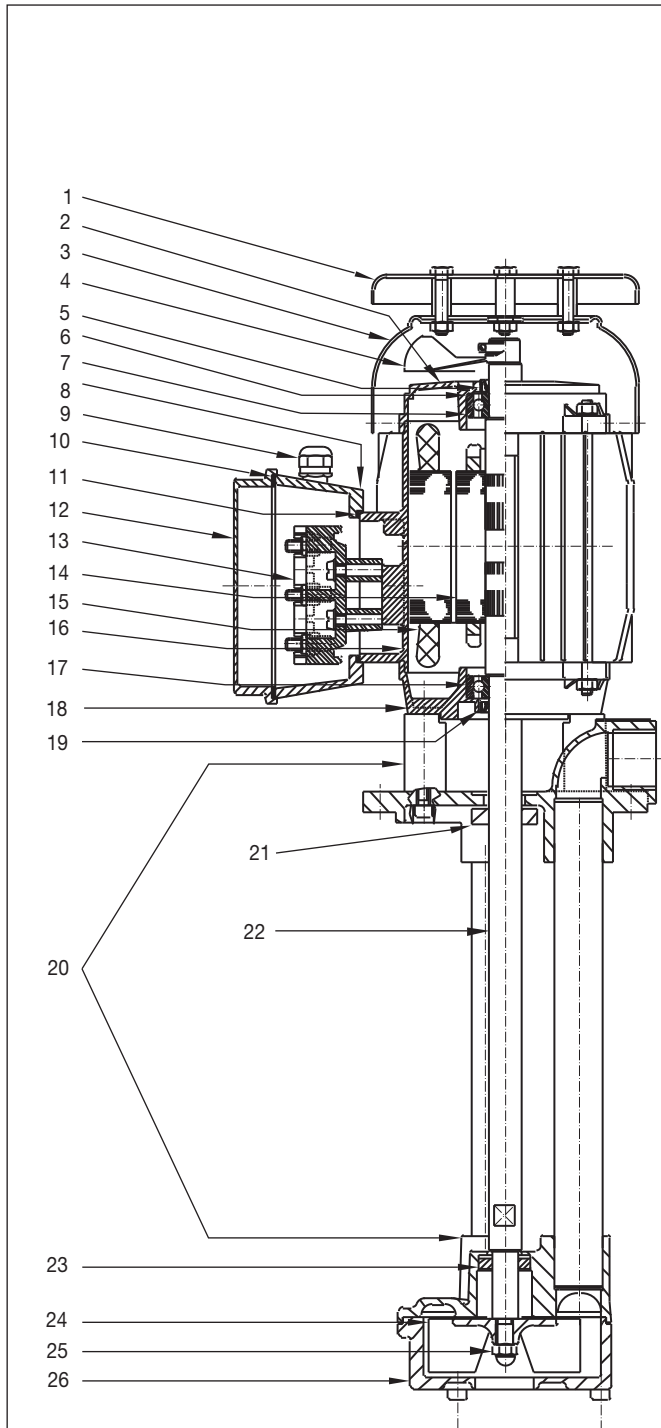
1 Lüfterhaube	Stahl	15 Statorpaket	
2 Mutter		16 Dichtung	NBR
3 Schraube		17 Kabelpresse	Nylon
4 Schlauchklemme		18 Unteres Lager	
5 Ring	NBR	19 Pumpengehäuse	POM + AISI 304
6 Oberes Lager		20 Pumpenwelle	Stahl
7 Lüfterflügel	Nylon	21 Ring	NBR
8 Mutter	Messing	22 Pumpenlaufrad	POM
9 Oberes Lagerschild	Alu-Guß	23 Deckel	POM
10 Motorgehäuse	Alu-Guß		
11 Klemmenkastendeckel	Alu-Guß		
12 Druckgussrotor			
13 Zugstange	Stahl		
14 Klemmenbrett			

I

1 Calotta copriventola	Acciaio	15 Statore	
2 Dado		16 Guarnizione	NBR
3 Vite		17 Pressacavo	Nylon
4 Fascetta serraggio		18 Cuscinetto inferiore	
5 Anello	NBR	19 Corpo pompa	POM + AISI 304
6 Cuscinetto superiore		20 Albero pompa	Acciaio
7 Ventola	Nylon	21 Anello	NBR
8 Dado	Ottone	22 Girante	POM
9 Scudo superiore	Alluminio	23 Fondello	POM
10 Carcassa	Alluminio		
11 Coprimorsettiera	Alluminio		
12 Rotore			
13 Tirante	Acciaio		
14 Morsettiera			

TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
TL	120	2	C 63 B2	0.25	2.800	0.90	70	4	8
TL	170	2	C 63 B2	0.25	2.800	0.90	70	4	8
TL	220	2	C 63 B2	0.25	2.800	0.90	70	4	8
TL	270	2	C 63 B2	0.25	2.800	0.90	70	4	8
TL	350	2	C 63 B2	0.25	2.800	0.90	70	4	8





GB

1 Rain cap	Steel	15 Stator	
2 Endshield, non driving end	Aluminium	16 Frame	Aluminium
3 Fan cover	Steel	17 Bearing	
4 Fan	Nylon	18 Endshield, driving end	Aluminium
5 O-ring	NBR	19 O-ring	NBR
6 Spacing rings	Steel	20 Pump body	Cast iron + AISI 304
7 Bearing		21 Ring	Teflon
8 Terminal box	Aluminium	22 Shaft	Steel
9 Wire clamp		23 Bushing	Teflon
10 Seal	NBR	24 Impeller	Bronze
11 Seal	NBR	25 Nut	Brass
12 Terminal box cover	Aluminium	26 Impeller-cover	Cast iron (G20)
13 Terminal board			
14 Rotor			

F

1 Capot parapluie	Acier	15 Stator	
2 Flasque AR	Aluminium	16 Carcasse moteur	Aluminium
3 Capot du ventilateur	Acier	17 Roulement	
4 Ventilateur	Nylon	18 Flasque AV	Aluminium
5 Anneau d'étanchéité	NBR	19 Anneau d'étanchéité	NBR
6 Bagues entretoises	Acier	20 Corps pompe	Fonte + AISI 304
7 Roulement		21 Anneau	Téflon
8 Boîte à bornes	Aluminium	22 Arbre	Acier
9 Presse-câble		23 Bague	Téflon
10 Garniture	NBR	24 Roue	Bronze
11 Garniture	NBR	25 Ecrou	Cuivre
12 Couvercle de la boîte à bornes	Aluminium	26 Fond	Fonte (G20)
13 Bornes			
14 Rotor			

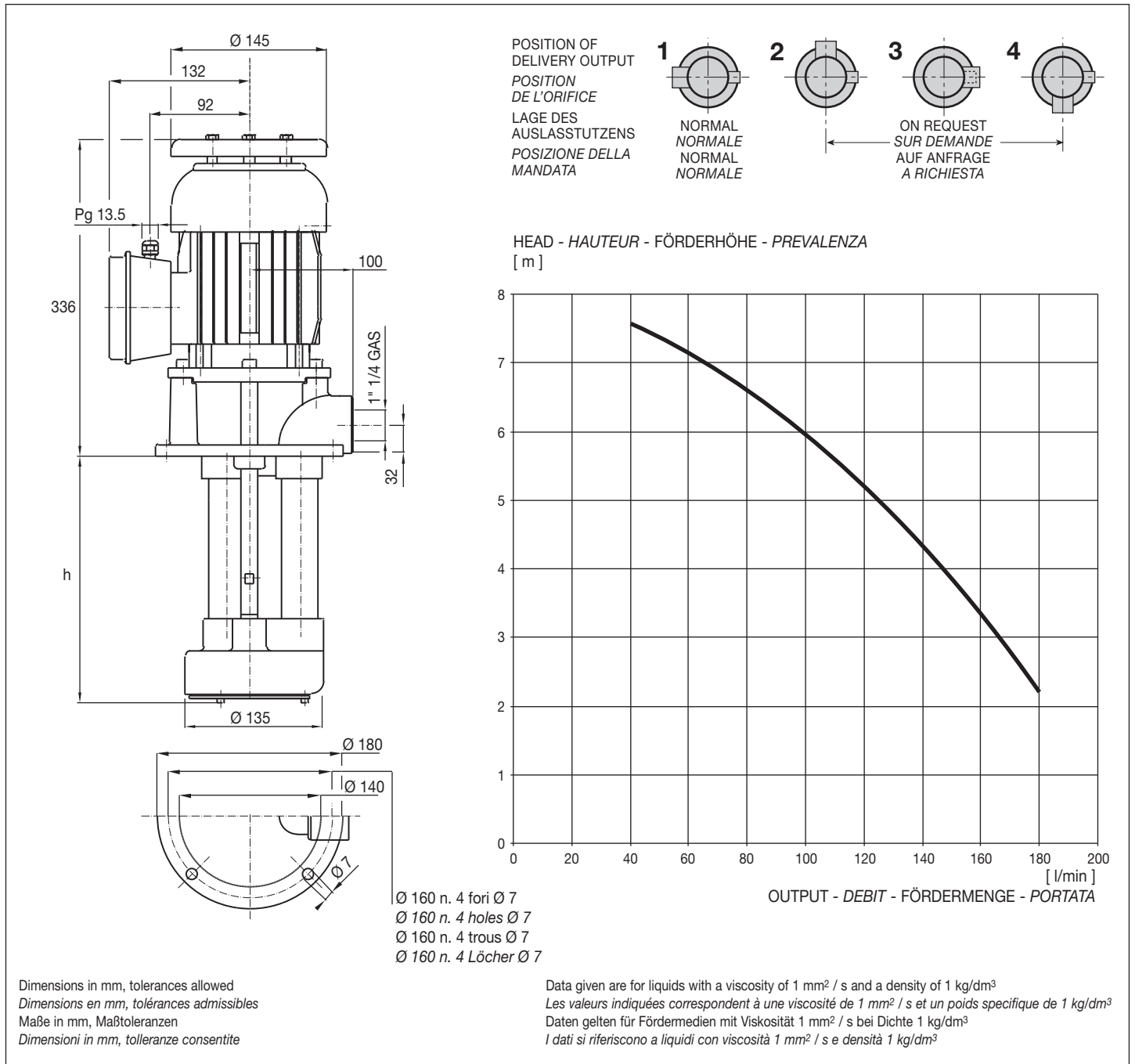
D

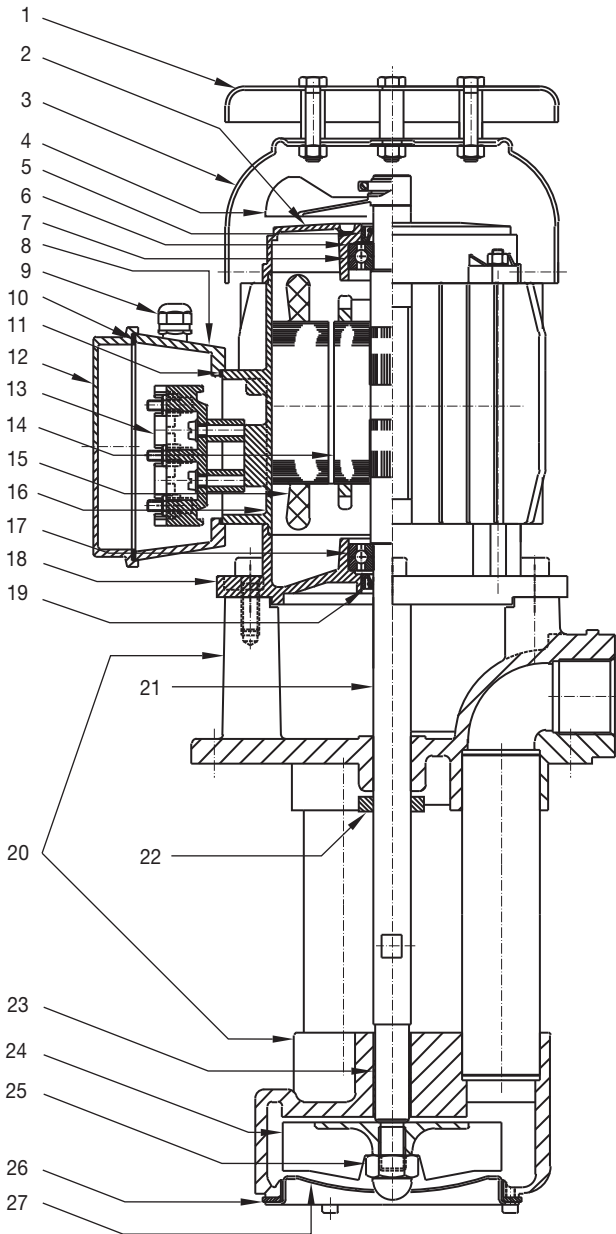
1 Schutzdach	Stahl	15 Statorpaket	
2 Lagerschild B-Seite	Alu-Guß	16 Motorgehäuse	Alu-Guß
3 Lüfterhaube	Stahl	17 Kugellager	
4 Lüfterflügel	Nylon	18 Lagerschild A-Seite	Alu-Guß
5 Dichtungsring	NBR	19 Dichtungsring	NBR
6 Abstandsringe	Stahl	20 Pumpengehäuse	Alu-Guß + AISI 304
7 Kugellager		21 Ring	Teflon
8 Klemmenkasten	Alu-Guß	22 Welle	Stahl
9 Kabelpresse		23 Zwischenlagerbuchse	Teflon
10 Dichtung	NBR	24 Pumpenlaufrad	Bronze
11 Dichtung	NBR	25 Mutter	Messing
12 Klemmenkastendeckel	Alu-Guß	26 Deckel	Grauguß (G20)
13 Klemmenbrett			
14 Druckgussrotor			

I

1 Tettuccio	Acciaio	15 Statore	
2 Scudo posteriore	Alluminio	16 Carcassa	Alluminio
3 Calotta copriventola	Acciaio	17 Cuscinetto	
4 Ventola	Nylon	18 Scudo anteriore	Alluminio
5 Anello tenuta	NBR	19 Anello tenuta	NBR
6 Anelli distanziali	Acciaio	20 Corpo pompa	Ghisa + AISI 304
7 Cuscinetto		21 Anello	Teflon
8 Scatola portamorsettiera	Alluminio	22 Albero	Acciaio
9 Pressacavo		23 Bronzina	Teflon
10 Guarnizione	NBR	24 Girante	Bronzo
11 Guarnizione	NBR	25 Dado	Ottone
12 Coprimorsettiera	Alluminio	26 Fondello	Ghisa (G20)
13 Morsettiera			
14 Rotore			

TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
TN	200	2	C 71 A2	0.37	2.860	1.1	150	4	12
TN	270	2	C 71 A2	0.37	2.860	1.1	150	4	13
TN	350	2	C 71 A2	0.37	2.860	1.1	150	4	14
TN	440	2	C 71 A2	0.37	2.860	1.1	150	4	15
TN	550	2	C 71 A2	0.37	2.860	1.1	150	4	16





GB

1 Rain cap	Steel	15 Stator	
2 Endshield, non driving end	Aluminium	16 Frame	Aluminium
3 Fan cover	Steel	17 Bearing	
4 Fan	Nylon	18 Endshield, driving end	Aluminium
5 O-ring	NBR	19 O-ring	NBR
6 Spacing rings	Steel	20 Pump body	Cast iron + AISI 304
7 Bearing		21 Shaft	Steel
8 Terminal box	Aluminium	22 Ring	Teflon
9 Wire clamp		23 Bushing	Steel + sintered bronze
10 Seal	NBR	24 Impeller	Bronze
11 Seal	NBR	25 Nut	Brass
12 Terminal box cover	Aluminium	26 Seal	Teflon
13 Terminal board		27 Impeller-cover	AISI 304
14 Rotor			

F

1 Capot parapluie	Acier	15 Stator	
2 Flasque AR	Aluminium	16 Carcasse moteur	Aluminium
3 Capot du ventilateur	Acier	17 Roulement	
4 Ventilateur	Nylon	18 Flasque AV	Aluminium
5 Anneau d'étanchéité	NBR	19 Anneau d'étanchéité	NBR
6 Bagues entretoises	Acier	20 Corps pompe	Fonte + AISI 304
7 Roulement		21 Arbre	Acier
8 Boîte à bornes	Aluminium	22 Anneau	Téflon
9 Presse-câble		23 Bague	Acier + Bronze fritté
10 Garniture	NBR	24 Roue	Bronze
11 Garniture	NBR	25 Ecrou	Cuivre
12 Couverture de la boîte à bornes	Aluminium	26 Garniture	Téflon
13 Bornes		27 Fond	AISI 304
14 Rotor			

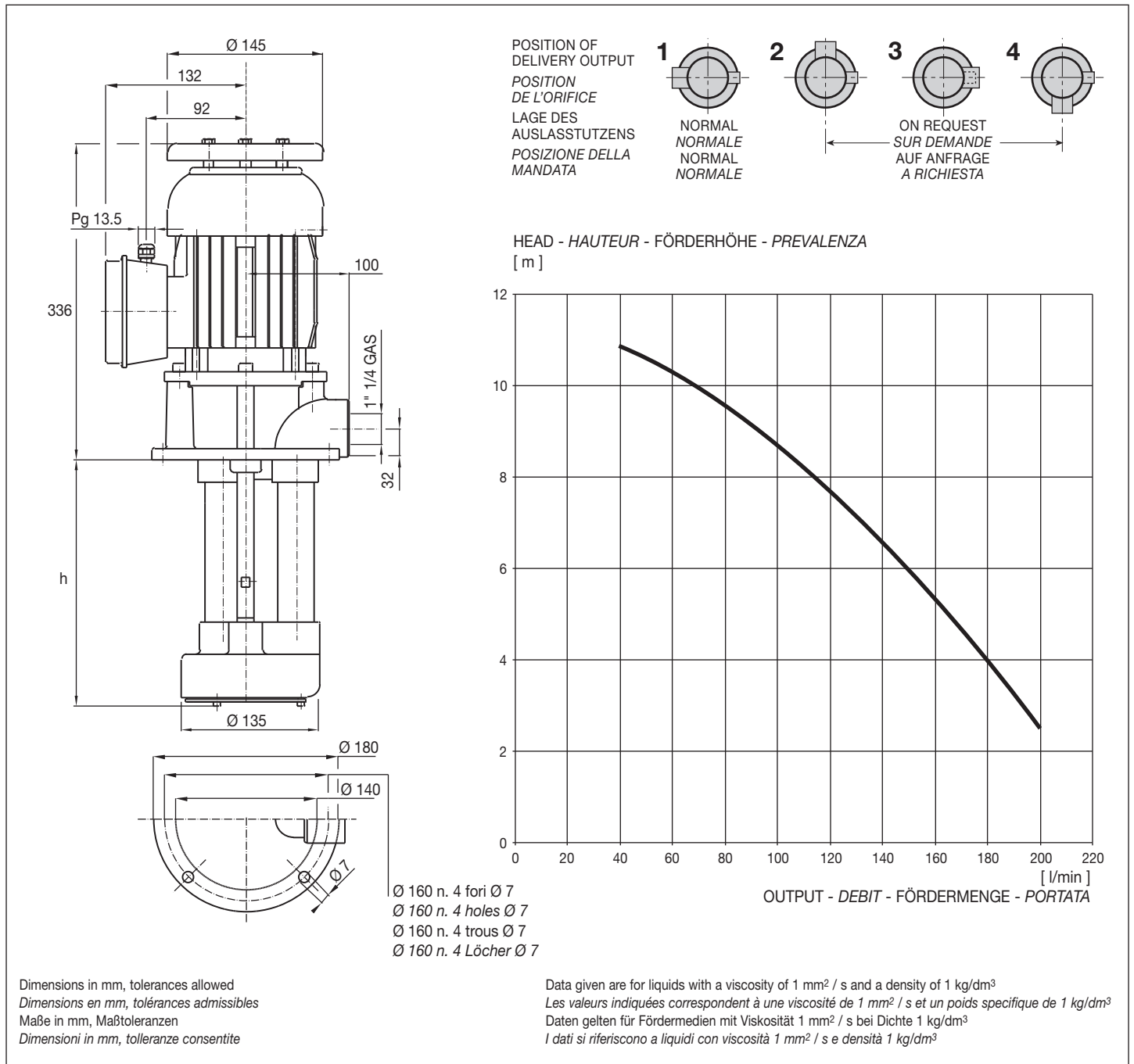
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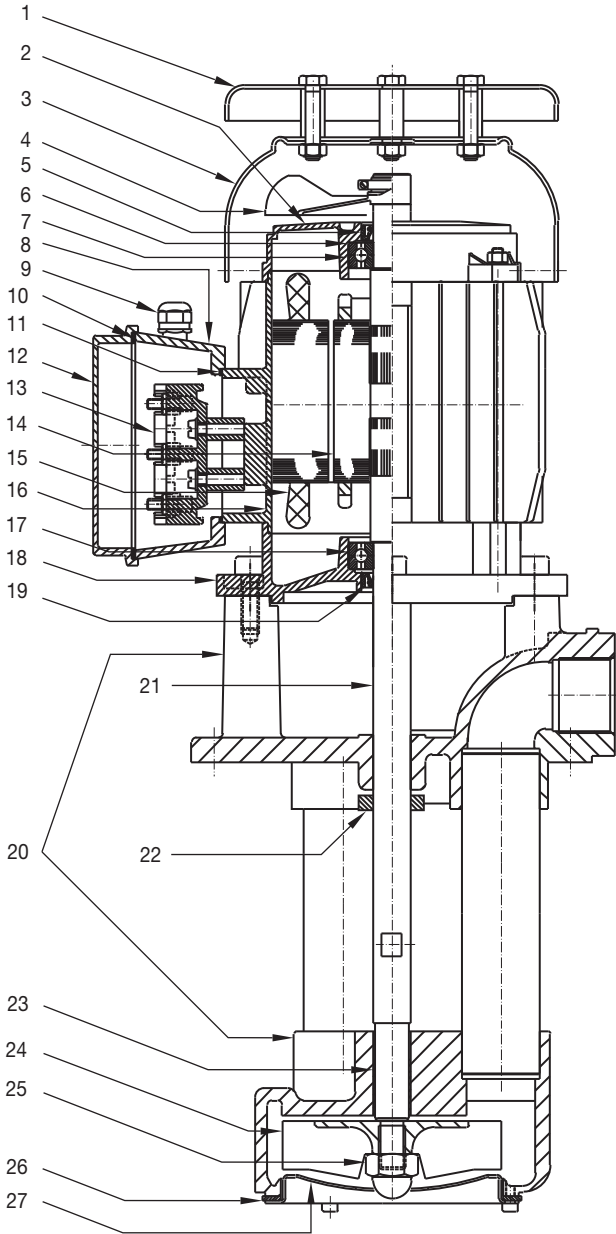
1 Schutzdach	Stahl	15 Statorpaket	
2 Lagerschild B-Seite	Alu-Guß	16 Motorgehäuse	Alu-Guß
3 Lüfterhaube	Stahl	17 Kugellager	
4 Lüfterflügel	Nylon	18 Lagerschild A-Seite	Alu-Guß
5 Dichtungsring	NBR	19 Dichtungsring	NBR
6 Abstandsringe	Stahl	20 Pumpengehäuse	Alu-Guß + AISI 304
7 Kugellager		21 Welle	Stahl
8 Klemmenkasten	Alu-Guß	22 Ring	Teflon
9 Kabelpresse		23 Zwischenlagerbuchse	Stahl + Sinterbronze
10 Dichtung	NBR	24 Pumpenlaufrad	Bronze
11 Dichtung	NBR	25 Mutter	Messing
12 Klemmenkastendeckel	Alu-Guß	26 Dichtung	Teflon
13 Klemmenbrett		27 Deckel	AISI 304
14 Druckgussrotor			

I

1 Tettuccio	Acciaio	15 Statore	
2 Scudo posteriore	Alluminio	16 Carcassa	Alluminio
3 Calotta copriventola	Acciaio	17 Cuscinetto	
4 Ventola	Nylon	18 Scudo anteriore	Alluminio
5 Anello tenuta	NBR	19 Anello tenuta	NBR
6 Anelli distanziali	Acciaio	20 Corpo pompa	Ghisa + AISI 304
7 Cuscinetto		21 Albero	Acciaio
8 Scatola portamorsettiera	Alluminio	22 Anello	Teflon
9 Pressacavo		23 Bronzina	Acciaio + Bronzo
10 Guarnizione	NBR		sinterizzato
11 Guarnizione	NBR	24 Girante	Bronzo
12 Coprimorsettiera	Alluminio	25 Dado	Ottone
13 Morsettiera		26 Guarnizione	Teflon
14 Rotore		27 Fondello	AISI 304

TYPE TYPE TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
TS	200	2	C 71 B2	0.55	2.820	1.55	180	4	12
TS	270	2	C 71 B2	0.55	2.820	1.55	180	4	13
TS	350	2	C 71 B2	0.55	2.820	1.55	180	4	14
TS	440	2	C 71 B2	0.55	2.820	1.55	180	4	15
TS	550	2	C 71 B2	0.55	2.820	1.55	180	4	16





GB

1 Rain cap	Steel	15 Stator	
2 Endshield, non driving end	Aluminium	16 Frame	Aluminium
3 Fan cover	Steel	17 Bearing	
4 Fan	Nylon	18 Endshield, driving end	Aluminium
5 O-ring	NBR	19 O-ring	NBR
6 Spacing rings	Steel	20 Pump body	Cast iron + AISI 304
7 Bearing		21 Shaft	Steel
8 Terminal box	Aluminium	22 Ring	Teflon
9 Wire clamp		23 Bushing	Steel + sintered bronze
10 Seal	NBR	24 Impeller	Bronze
11 Seal	NBR	25 Nut	Brass
12 Terminal box cover	Aluminium	26 Seal	Teflon
13 Terminal board		27 Impeller-cover	AISI 304
14 Rotor			

F

1 Capot parapluie	Acier	15 Stator	
2 Flasque AR	Aluminium	16 Carcasse moteur	Aluminium
3 Capot du ventilateur	Acier	17 Roulement	
4 Ventilateur	Nylon	18 Flasque AV	Aluminium
5 Anneau d'étanchéité	NBR	19 Anneau d'étanchéité	NBR
6 Bagues entretoises	Acier	20 Corps pompe	Fonte + AISI 304
7 Roulement		21 Arbre	Acier
8 Boîte à bornes	Aluminium	22 Anneau	Téflon
9 Presse-câble		23 Bague	Acier + Bronze fritté
10 Garniture	NBR	24 Roue	Bronze
11 Garniture	NBR	25 Ecrou	Cuivre
12 Couvercle de la boîte à bornes	Aluminium	26 Garniture	Téflon
13 Bornes		27 Fond	AISI 304
14 Rotor			

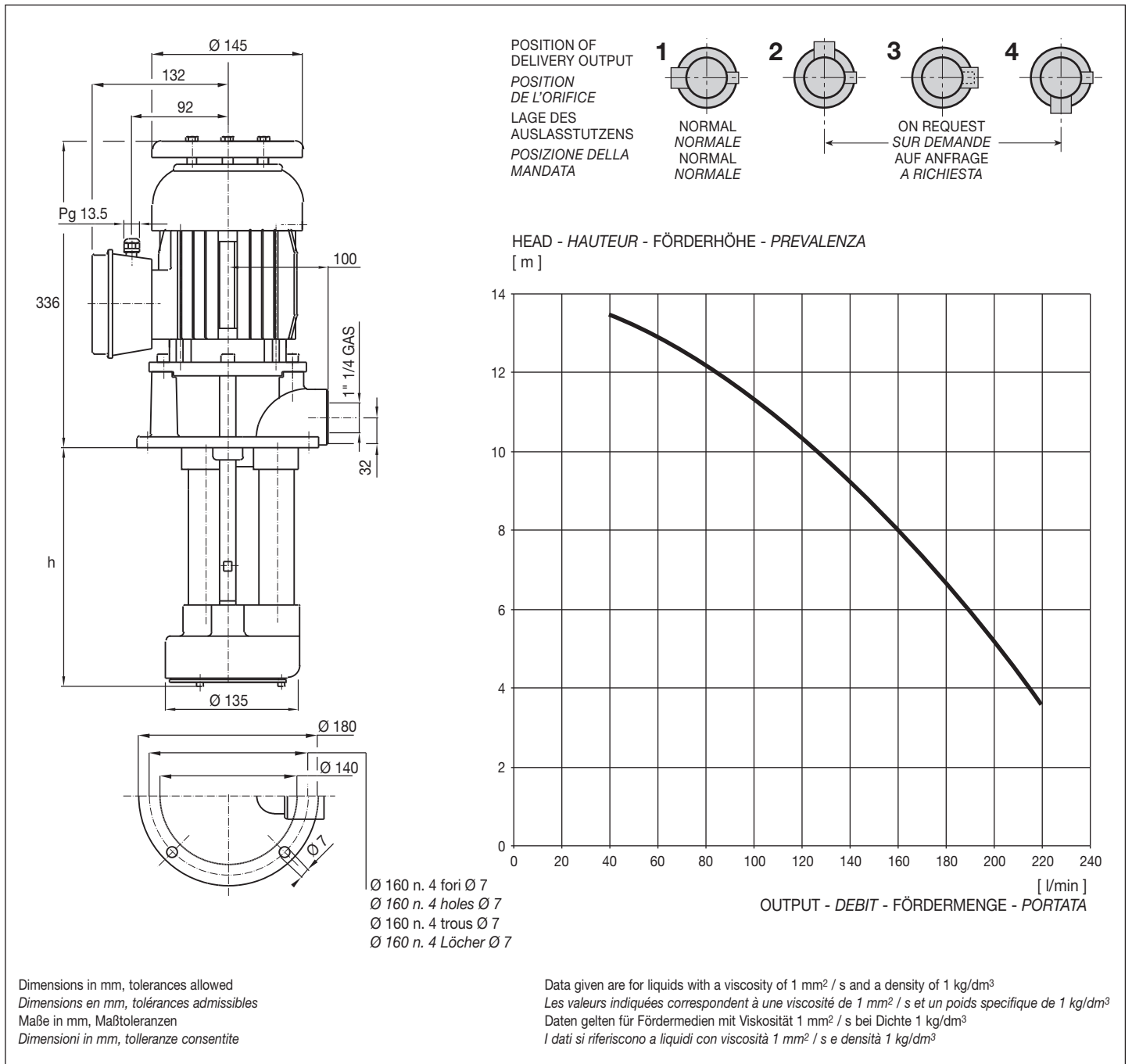
D

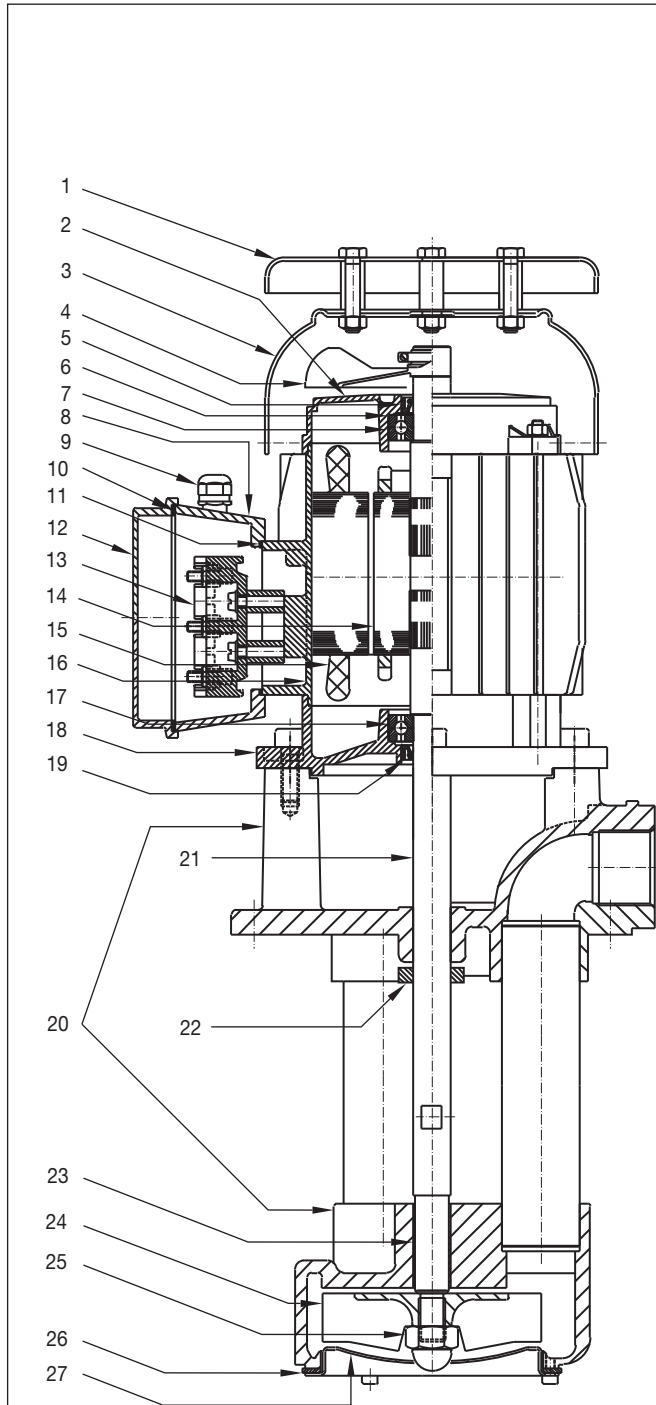
1 Schutzdach	Stahl	15 Statorpaket	
2 Lagerschild B-Seite	Alu-Guß	16 Motorgehäuse	Alu-Guß
3 Lüfterhaube	Stahl	17 Kugellager	
4 Lüfterflügel	Nylon	18 Lagerschild A-Seite	Alu-Guß
5 Dichtungsring	NBR	19 Dichtungsring	NBR
6 Abstandsringe	Stahl	20 Pumpengehäuse	Alu-Guß + AISI 304
7 Kugellager		21 Welle	Stahl
8 Klemmenkasten	Alu-Guß	22 Ring	Teflon
9 Kabelpresse		23 Zwischenlagerbuchse	Stahl + Sinterbronze
10 Dichtung	NBR	24 Pumpenlaufrad	Bronze
11 Dichtung	NBR	25 Mutter	Messing
12 Klemmenkastendeckel	Alu-Guß	26 Dichtung	Teflon
13 Klemmenbrett		27 Deckel	AISI 304
14 Druckgussrotor			

I

1 Tettuccio	Acciaio	15 Statore	
2 Scudo posteriore	Alluminio	16 Carcassa	Alluminio
3 Calotta copriventola	Acciaio	17 Cuscinetto	
4 Ventola	Nylon	18 Scudo anteriore	Alluminio
5 Anello tenuta	NBR	19 Anello tenuta	NBR
6 Anelli distanziali	Acciaio	20 Corpo pompa	Ghisa + AISI 304
7 Cuscinetto		21 Albero	Acciaio
8 Scatola portamorsettiera	Alluminio	22 Anello	Teflon
9 Pressacavo		23 Bronzina	Acciaio + Bronzo sinterizzato
10 Guarnizione	NBR	24 Girante	Bronzo
11 Guarnizione	NBR	25 Dado	Ottone
12 Coprimorsettiera	Alluminio	26 Guarnizione	Teflon
13 Morsettiera		27 Fondello	AISI 304
14 Rotore			

TYPE TYPE TYP TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
TT	200	2	C 71 L2	0.75	2.800	2.1	220	4	12
TT	270	2	C 71 L2	0.75	2.800	2.1	220	4	13
TT	350	2	C 71 L2	0.75	2.800	2.1	220	4	14
TT	440	2	C 71 L2	0.75	2.800	2.1	220	4	15
TT	550	2	C 71 L2	0.75	2.800	2.1	220	4	16





GB

1 Rain cap	Steel	15 Stator	
2 Endshield, non driving end	Aluminium	16 Frame	Aluminium
3 Fan cover	Steel	17 Bearing	
4 Fan	Nylon	18 Endshield, driving end	Aluminium
5 O-ring	NBR	19 O-ring	NBR
6 Spacing rings	Steel	20 Pump body	Cast iron + AISI 304
7 Bearing		21 Shaft	Steel
8 Terminal box	Aluminium	22 Ring	Teflon
9 Wire clamp		23 Bushing	Steel + sintered bronze
10 Seal	NBR	24 Impeller	Brass
11 Seal	NBR	25 Nut	Brass
12 Terminal box cover	Aluminium	26 Seal	Teflon
13 Terminal board		27 Impeller-cover	AISI 304
14 Rotor			

F

1 Capot parapluie	Acier	15 Stator	
2 Flasque AR	Aluminium	16 Carcasse moteur	Aluminium
3 Capot du ventilateur	Acier	17 Roulement	
4 Ventilateur	Nylon	18 Flasque AV	Aluminium
5 Anneau d'étanchéité	NBR	19 Anneau d'étanchéité	NBR
6 Bagues entretoises	Acier	20 Corps pompe	Fonte + AISI 304
7 Roulement		21 Arbre	Acier
8 Boîte à bornes	Aluminium	22 Anneau	Téflon
9 Presse-câble		23 Bague	Acier + Bronze fritté
10 Garniture	NBR	24 Roue	Bronze
11 Garniture	NBR	25 Ecrou	Cuivre
12 Couvercle de la boîte à bornes	Aluminium	26 Garniture	Téflon
13 Bornes		27 Fond	AISI 304
14 Rotor			

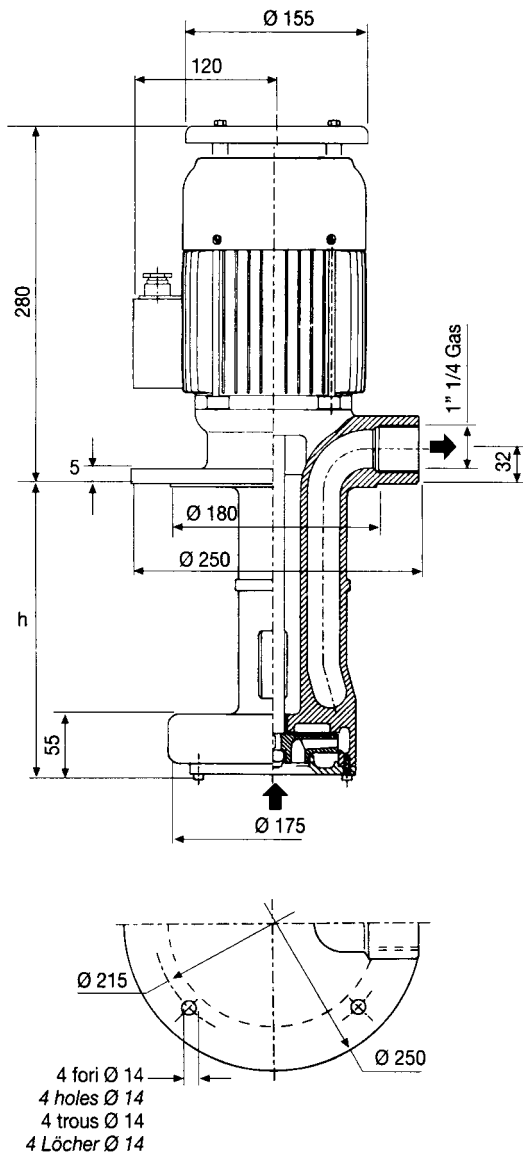
D

1 Schutzdach	Stahl	15 Statorpaket	
2 Lagerschild B-Seite	Alu-Guß	16 Motorgehäuse	Alu-Guß
3 Lüfterhaube	Stahl	17 Kugellager	
4 Lüfterflügel	Nylon	18 Lagerschild A-Seite	Alu-Guß
5 Dichtungsring	NBR	19 Dichtungsring	NBR
6 Abstandsringe	Stahl	20 Pumpengehäuse	Alu-Guß + AISI 304
7 Kugellager		21 Welle	Stahl
8 Klemmenkasten	Alu-Guß	22 Ring	Teflon
9 Kabelpresse		23 Zwischenlagerbuchse	Stahl + Sinterbronze
10 Dichtung	NBR	24 Pumpenlaufrad	Bronze
11 Dichtung	NBR	25 Mutter	Messing
12 Klemmenkastendeckel	Alu-Guß	26 Dichtung	Teflon
13 Klemmenbrett		27 Deckel	AISI 304
14 Druckgussrotor			

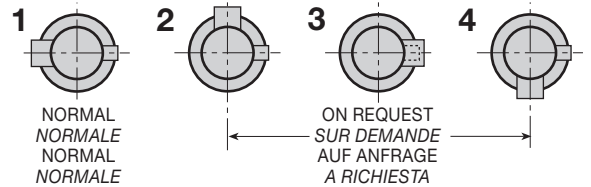
I

1 Tettuccio	Acciaio	15 Statore	
2 Scudo posteriore	Alluminio	16 Carcassa	Alluminio
3 Calotta copriventola	Acciaio	17 Cuscinetto	
4 Ventola	Nylon	18 Scudo anteriore	Alluminio
5 Anello tenuta	NBR	19 Anello tenuta	NBR
6 Anelli distanziali	Acciaio	20 Corpo pompa	Ghisa + AISI 304
7 Cuscinetto		21 Albero	Acciaio
8 Scatola portamorsettiera	Alluminio	22 Anello	Teflon
9 Pressacavo		23 Bronzina	Acciaio + Bronzo sinterizzato
10 Guarnizione	NBR	24 Girante	Bronzo
11 Guarnizione	NBR	25 Dado	Ottone
12 Coprimorsettiera	Alluminio	26 Guarnizione	Teflon
13 Morsettiera		27 Fondello	AISI 304
14 Rotore			

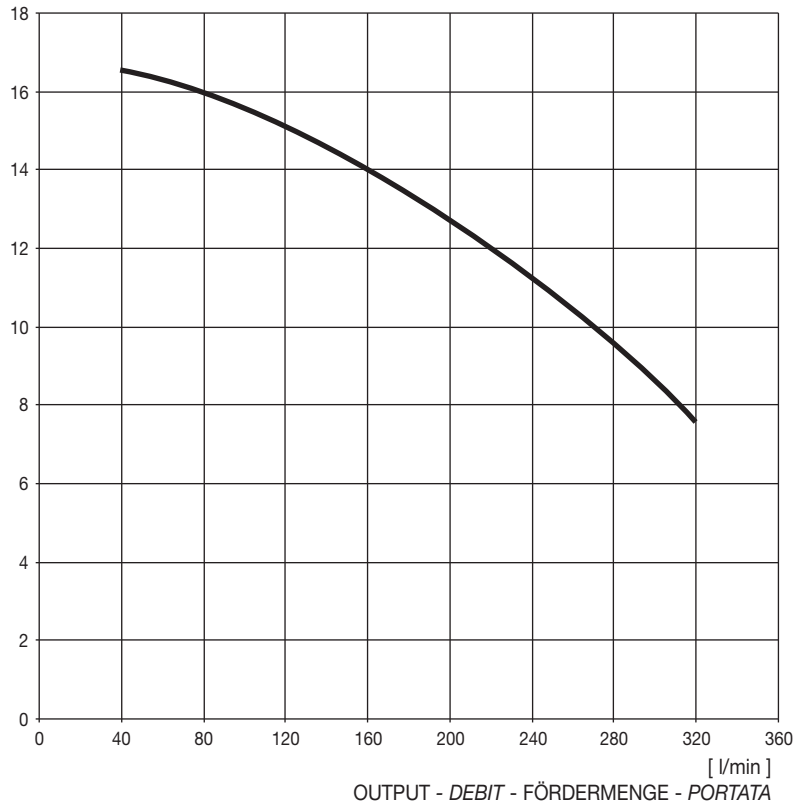
TYPE TYPE TIPO	BODY DIPPED CORPS IMMERGE TAUCHKÖRPER CORPO IMMERSO h [mm]	POLE PÔLES POLE POLI	MOTOR TYPE MOTEUR TYPE MOTOR-TYP TIPO MOTORE	POWER PUISSANCE LEISTUNG POTENZA [kW]	SPEED VITESSE DREHZAHL VELOCITÀ [1/min]	CURRENT INTENSITE STROM CORRENTE [A]	OUTPUT DEBIT FÖRDERMENGE PORTATA [l/min]	HEAD HAUTEUR FÖRDERHÖHE PREVALENZA [m]	MASS MASSE MASSE MASSA [kg]
G1	250	2	C 80 B2	1.1	2.830	2.6	310	8	24



POSITION OF
DELIVERY OUTPUT
POSITION
DE L'ORIFICE
LAGE DES
AUSLASSTUTZENS
POSIZIONE DELLA
MANDATA

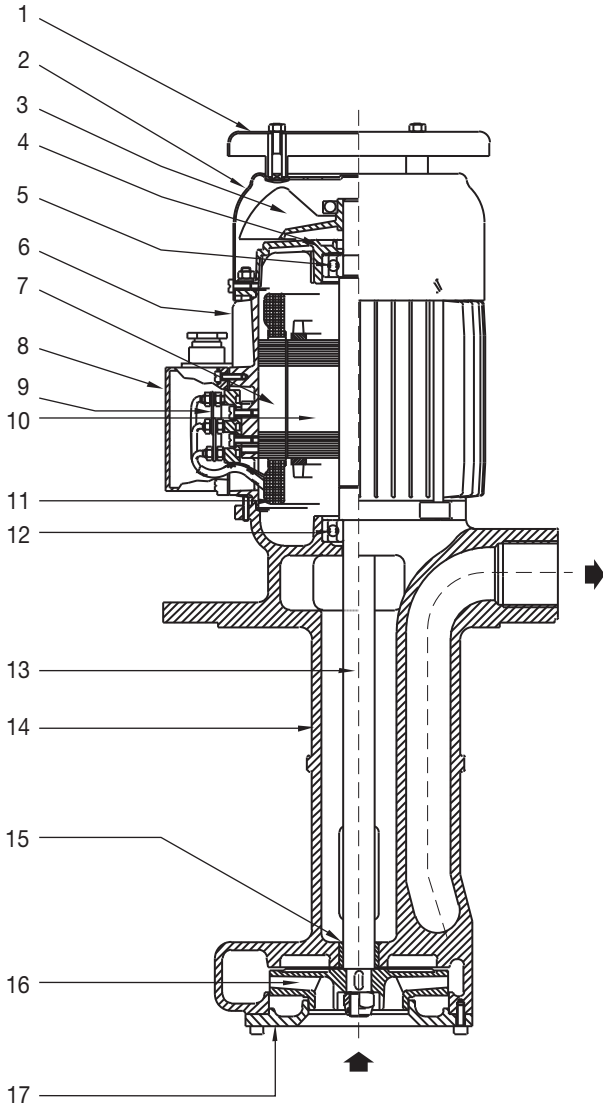


HEAD - HAUTEUR - FÖRDERHÖHE - PREVALENZA
[m]



Dimensions in mm, tolerances allowed
 Dimensions en mm, tolérances admissibles
 Maße in mm, Maßtoleranzen
 Dimensioni in mm, tolleranze consentite

Data given are for liquids with a viscosity of $1 \text{ mm}^2 / \text{s}$ and a density of 1 kg/dm^3
 Les valeurs indiquées correspondent à une viscosité de $1 \text{ mm}^2 / \text{s}$ et un poids spécifique de 1 kg/dm^3
 Daten gelten für Fördermedien mit Viskosität $1 \text{ mm}^2 / \text{s}$ bei Dichte 1 kg/dm^3
 I dati si riferiscono a liquidi con viscosità $1 \text{ mm}^2 / \text{s}$ e densità 1 kg/dm^3



GB

1 Rain cap	Steel	15 Bushing	Steel + sintered bronze
2 Fan cover	Steel	16 Impeller	Cast iron (G20)
3 Fan	Nylon	17 Impeller-cover	Steel
4 Endshield, non-driving end	Aluminium		
5 Bearing			
6 Frame	Aluminium		
7 Stator			
8 Terminal box cover	Nylon		
9 Terminal board			
10 Rotor			
11 Winding			
12 Bearing			
13 Shaft	Steel		
14 Pump body	Cast iron (G20)		

F

1 Capot parapluie	Acier	15 Bague	Acier + Bronze frittée
2 Capot du ventilateur	Acier	16 Roue	Fonte (G20)
3 Ventilateur	Nylon	17 Fond	Acier
4 Flasque AR	Aluminium		
5 Roulement			
6 Carcasse moteur	Aluminium		
7 Stator			
8 Couvercle de la boîte à bornes	Nylon		
9 Bornes			
10 Rotor			
11 Bobinage			
12 Roulement			
13 Arbre	Acier		
14 Corps pompe	Fonte (G20)		

D

1 Schutzdach	Stahl	15 Zwischenlagerbuchse	Stahl + Sinterbronze
2 Lüfterhaube	Stahl	16 Pumpenlaufrad	Grauguß (G20)
3 Lüfterflügel	Nylon	17 Deckel	Stahl
4 Lagerschild B-Seite	Alu-Guß		
5 Kugellager			
6 Motorgehäuse	Alu-Guß		
7 Statorpaket			
8 Klemmenkastendeckel	Nylon		
9 Klemmenbrett			
10 Druckgussrotor			
11 Wicklung			
12 Kugellager			
13 Welle	Stahl		
14 Pumpengehäuse	Grauguß (G20)		

I

1 Tettuccio	Acciaio	15 Bronzina	Acciaio + Bronzo
2 Calotta copriventola	Acciaio		sinterizzato
3 Ventola	Nylon	16 Girante	Ghisa (G20)
4 Scudo posteriore	Alluminio	17 Fondello	Acciaio
5 Cuscinetto			
6 Carcassa	Alluminio		
7 Statore			
8 Coprimorsettiera	Nylon		
9 Morsettiera			
10 Rotore			
11 Avvolgimento			
12 Cuscinetto			
13 Albero	Acciaio		
14 Corpo pompa	Ghisa (G20)		

cemp

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