

# A measured step forward

## Centrifugal pumps



# Chemical centrifugal pumps

## For industrial piping construction



Chemical centrifugal pumps for many possible fields of application

### Clear advantages

The chemical centrifugal pumps from Lutz-Jesco have been developed particularly to be used for industrial applications and are thus especially sturdy and have a long service life – also in the case of most aggressive media and high-duty operation. Chemical centrifugal pumps for many possible fields of application

### In short

- Corrosion-resistant PP/PVDF housing
- Wetted-end parts of highly resistant materials
- Motor and metallic parts are protected by a special varnish layer
- Pump shaft of stainless steel and shaft protection sleeve
- Reliability
- Serviceability
- DIN EN 22858/ISO 2858

### Tradition creates innovation

Many decades of experience are incorporated in the centrifugal pumps from Lutz-Jesco. Special varnish layers and highly resistant materials guarantee highest reliability and long service life, even with most aggressive media. The product program includes motor pump units as well as standard pumps for many possible fields of application.

### Universal

The normal-priming **chemical motor pump units MB** with horizontal axis are designed particularly for low-viscosity, acidic and alkaline solutions with a low solid matter content. The head assembly of the single-stage pumps consists of high-quality plastic material and a hydraulically efficient spiral casing.

### For highest requirements

**Chemical motor pump units BN** are single-stage, normal-priming pumps with horizontal axis. They are supplied completely with motor for a fast and easy installation into the piping system. Suitable for capacities of up to 120 m<sup>3</sup>/h.

### Smart setup

**Chemical standard pumps N** are single-stage, single-flow and normal-priming centrifugal pumps with spiral casing. Due to their modular structure the bearing support can be removed without having to dismantle the piping connections and the motor. Smooth and vibration-free operation because of the sturdy construction. For capacities of up to 300 m<sup>3</sup>/h.

### Simply dive it

**Plastic pumps VTP - BBF** are vertical immersion pumps corresponding to the proven and well-known two-pipe principle. The main components of the single-acting pump are assembled in block design (according to DIN EN 22858). The immersed section of the pump is without seals and is especially suited to convey low-viscosity, aggressive acidic, alkaline and solutions from depressurized tanks, open basins or reservoirs at flow rates of up to 80 m<sup>3</sup>/h.

# Centrifugal pumps with magnetic coupling

For highest requirements



Chemical centrifugal pumps for many possible fields of application

## Sealless and environmentally safe

Since the pump is magnetically driven, no mechanical seals are required and therefore the pump housing is hermetically sealed from the environment.

No leakages are possible.

## Easy maintenance

A few number of components and no special tools to change wearing parts, reduce necessary downtimes.

## Operating safety and high efficiency

Highly efficient magnets allow high temperatures. Optimally adjusted material combinations of the bearings reduce friction losses.

## Ideal for pumping

Acids, alkaline solutions, mixtures of acids and alkalis, solvents, alkaline degreasing baths, galvanic bath, photo chemicals as well as radioactive, valuable and highly corrosive liquids and many other thin-bodied fluids.

## Fields of application

Galvanic and surface treatment, sewage and water treatment industry, chemical industry, general industry, electroplating, acid plant engineering.

## Clear advantages

**Centrifugal pumps in horizontal and vertical construction** are especially used for pumping neutral and aggressive liquids as well as liquids containing solid particles. Centrifugal pumps have proven reliability, ensuring safety and reducing maintenance downtime.

## Atex 100a:

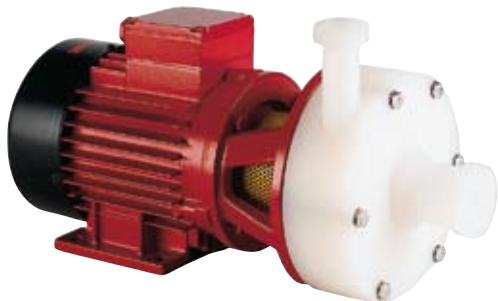
Lutz-Jesco horizontal centrifugal pumps, series TMR version GX are conform with ATEX 94/9/EC. They can be operated in hazerdous areas.

## In short

- Robust and Efficiency
- Long working life
- Ideal cost effectiveness
- Easy maintenance

# Chemical centrifugal pumps

## Normal-priming chemical motor pump units MB



Chemical motor pump units MB

### In short

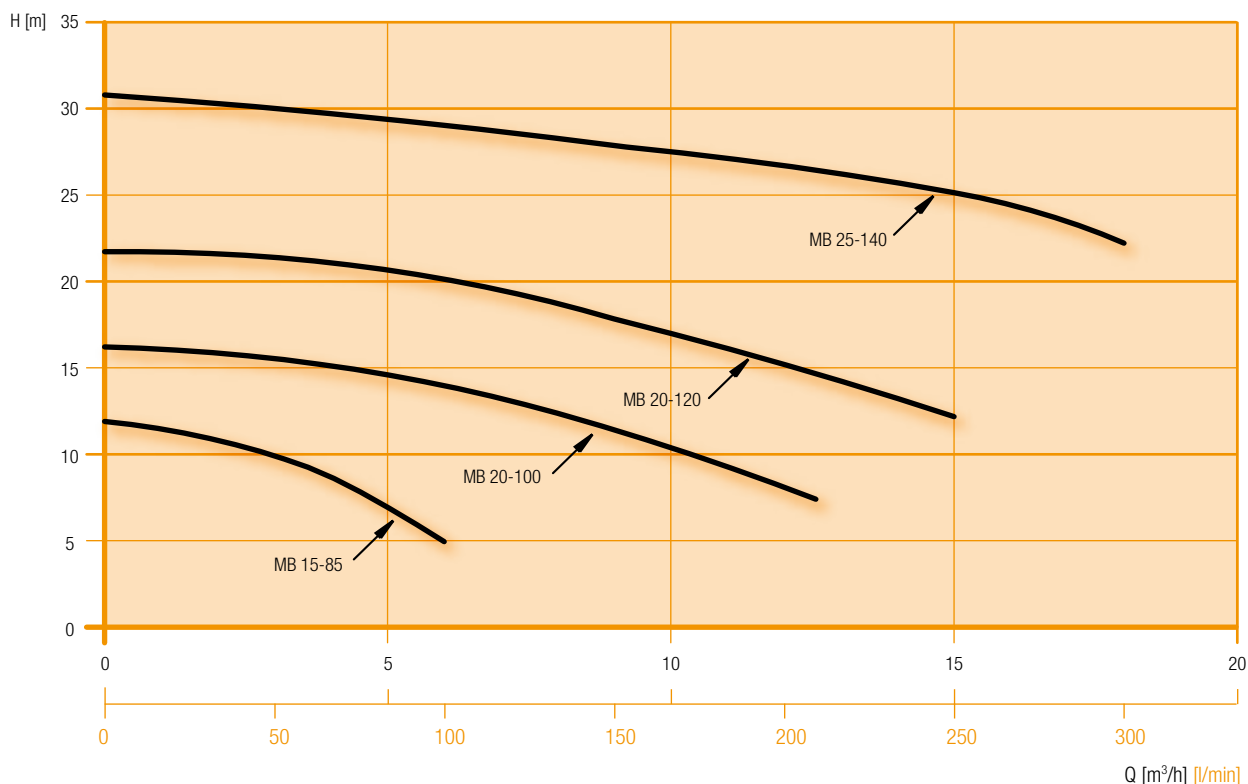
- Single-stage, normal-priming pumps with horizontal axis
- Open impeller
- Pump head made of high-quality thick-walled plastic material
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Special varnish, stainless steel pump shaft with shaft protection sleeve
- Shaft seals single or double-acting
- Vibrationless operation

### Seal designs:

- Single-acting, internal mechanical seal, independent direction of rotation (B2 i)
- Single-acting, independent direction of rotation with quenching chamber (B2 Q) for supply of external liquid
- Double acting with sealing chamber (B2 D) for separate barrier and buffer fluid systems
- Special designs on request

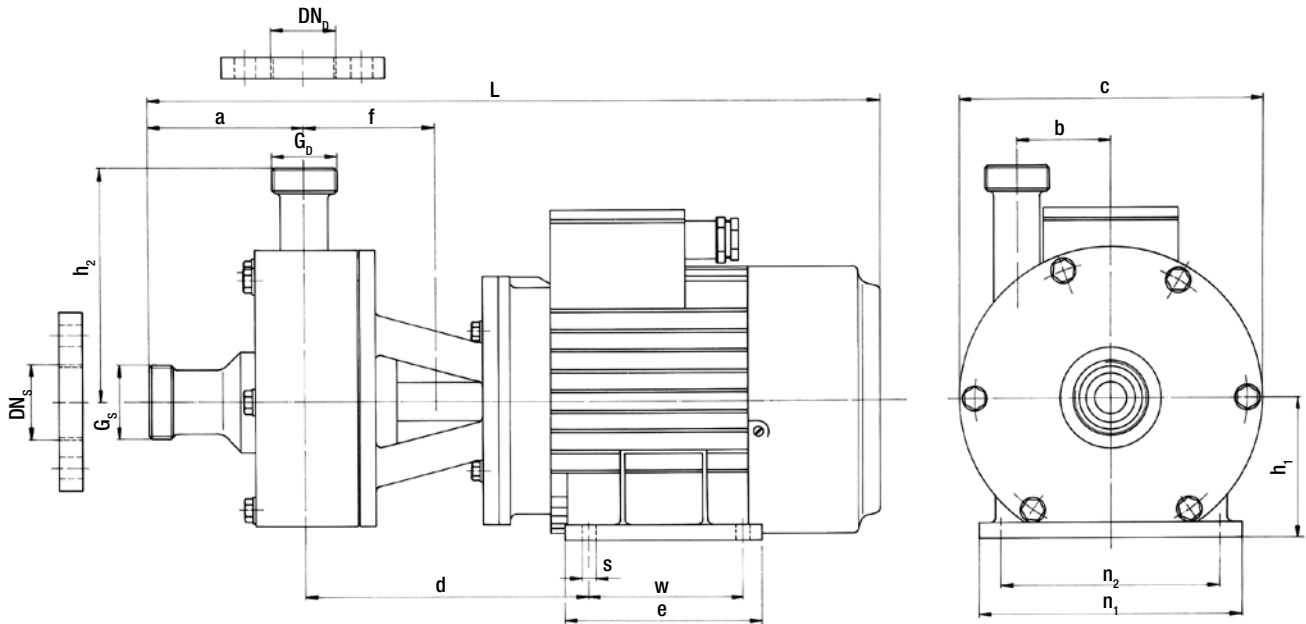
### Chemical motor pump units MB

Design	block design
Materials	PP, PVDF (further materials on request)
Max. flow rate Q	19 m <sup>3</sup> /h
Max. delivery head H	30 m
Motor power	0.37 ... 2.2 kW (2900 min <sup>-1</sup> )
Temperature	PP max. 80 °C, PVDF max. 120 °C (subject to the medium)



# Chemical centrifugal pumps

## Normal-priming chemical motor pump units MB



Type	MB 15 - 85	MB 20 - 100	MB 20 - 120	MB 25 - 140
G <sub>b</sub> thread connection outlet	G 1 AG	G 1 1/4 AG	G 1 1/4 AG	G 1 1/2 AG
G <sub>s</sub> thread connection inlet	G 1 1/4 AG	G 1 1/2 AG	G 1 1/2 AG	G 2 AG
DN <sub>b</sub> flange outlet	15	20	20	25
DN <sub>s</sub> flange inlet	20	25	25	32
a	75	100	100	100
h <sub>1</sub>	71	80	90	90
h <sub>2</sub>	100	150	150	150
w	90	100	100	125
e	106	126	127	145
ø <sub>s</sub>	7	10	10	10
b	40	60	60	60
n <sub>1</sub>	132	150	167	167
n <sub>2</sub>	112	125	140	140
c	125	195	195	195
d	137	174	180	180
~ L	373	452	476	486
f sealing chamber	60	87	87	87
f quenching chamber	60	83.5	83.5	83.5

Dimensions in mm

# Chemical centrifugal pumps

## Chemical motor pump units BN



Chemical motor pump units BN

The **Motor Block Pump BN** is flanged on directly to the three-phase motor with extended shaft. The shaft seal is a mechanical seal. Depending on medium and operating conditions the seal faces are made of siliconcarbide (SiC), bellows and secondary seals of EPDM or FPM, the metallic parts made of stainless steel (1.4571) or Hastelloy C-4 (2.4610).

### Seal designs:

- Single-acting, internal mechanical seal, independent direction of rotation (B2 i)
- Single-acting, independent direction of rotation with quenching chamber (B2 Q) for supply of external liquid
- Double acting with sealing chamber (B2 D) for separate barrier and buffer fluid systems
- Special designs on request

### Chemical motor pump units BN

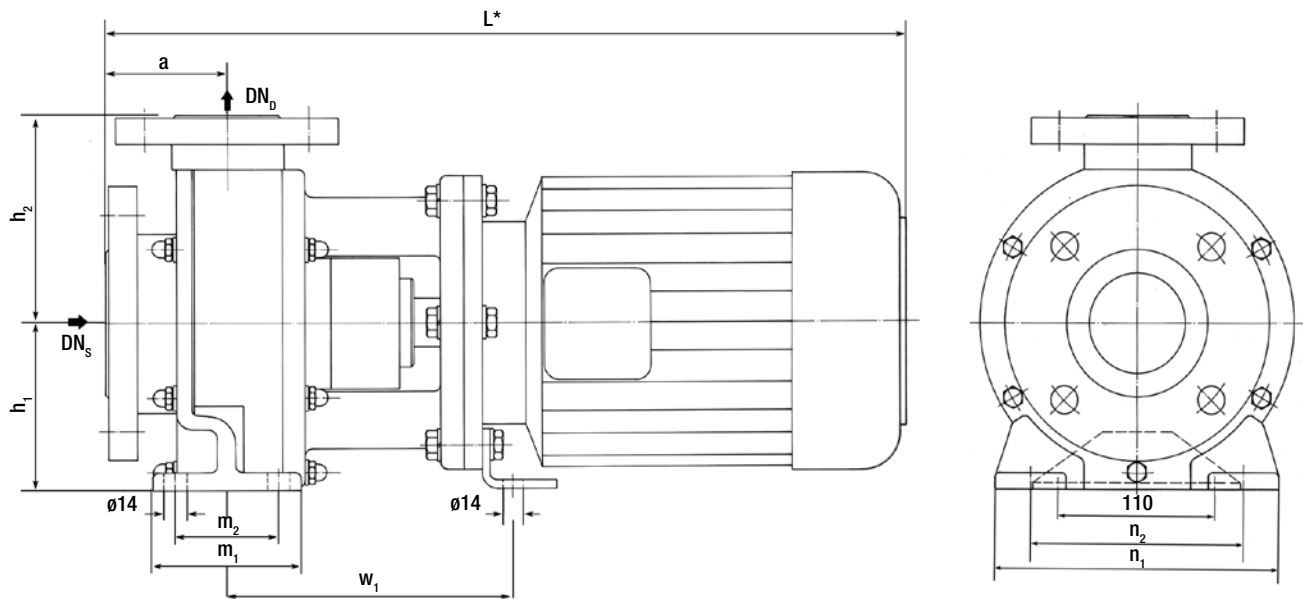
Design	block design
Materials	PP, PVDF (further materials on request)
Max. flow rate Q	120 m <sup>3</sup> /h
Max. delivery head H	60 m
Motor power	1.1 ... 11 kW
Speed	1450 min <sup>-1</sup> and 2900 min <sup>-1</sup>
Temperature	PP max. 80 °C, PVDF max. 120 °C (subject to the medium)

### In short

- Single-stage, normal-priming pumps with horizontal axis
- Piping connections according to DIN EN 22858/ISO 2858
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Special varnish, stainless steel pump shaft with shaft protection sleeve
- Mechanical seal systems depending on medium
- Space-saving installation
- Vibrationless operation
- Wide range of capacity

# Chemical centrifugal pumps

## Chemical motor pump units BN



Type	50-32-160	80 - 50 - 200	100 - 65 - 125	100 - 65 - 160
DN <sub>b</sub> flange outlet	32	50	65	65
DN <sub>s</sub> flange inlet	50	80	100	100
a	80	100	100	100
h <sub>1</sub>	132	160	160	160
h <sub>2</sub>	160	200	180	200
m <sub>1</sub>	100	100	125	125
m <sub>2</sub>	70	70	95	95
n <sub>1</sub>	240	265	280	280
n <sub>2</sub>	190	212	212	220
w <sub>1</sub>	220	220	220	220
L*	520	660	710	710

\*) at max. motor power

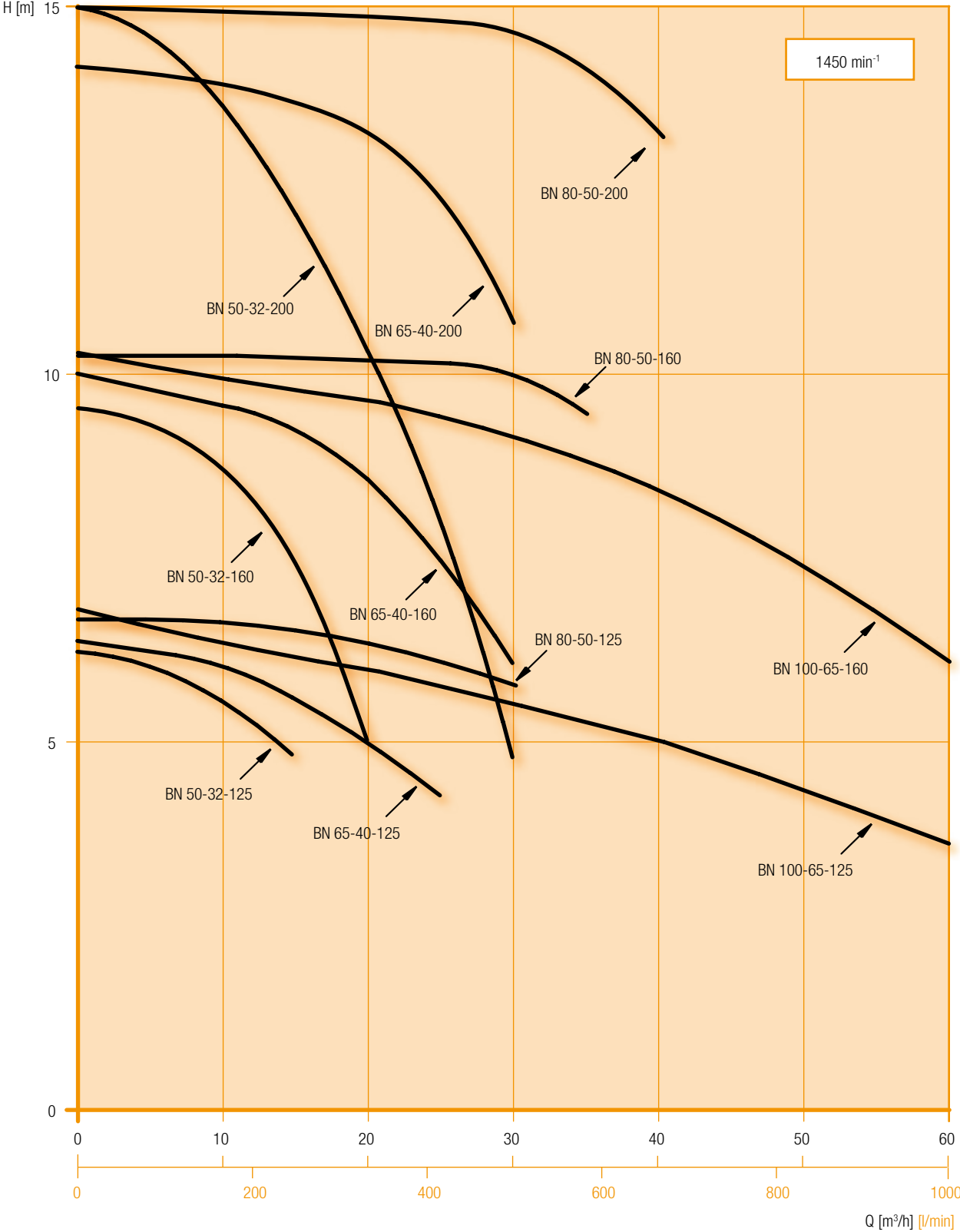
Flange connection dimensions according to DIN 2501, Part 1 for PN10

Dimensions of further standard sizes on request

Dimensions in mm

# Chemical centrifugal pumps

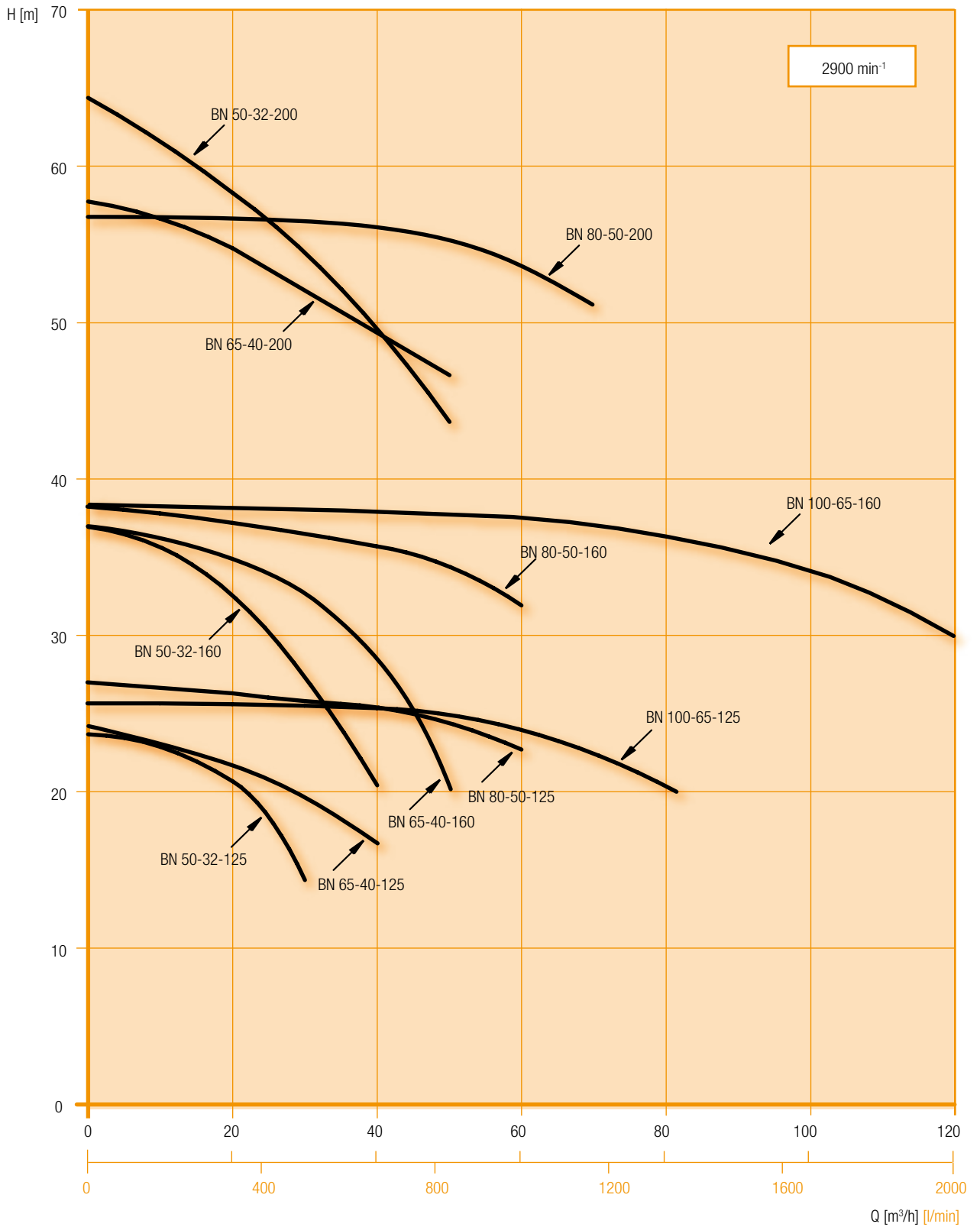
## Chemical motor pump units BN





# Chemical centrifugal pumps

## Chemical motor pump units BN



# Chemical standard pumps

## Chemical standard pump N



Chemical standard pump N

The **DIN Standard N Pump** is designed in a building set design with pump, clutch and driving motor on a joint base plate made of steel. The driving motor is a three-phase motor according to IEC standard with 1450 and/or 2900 min<sup>-1</sup>.

Special designs on request.

The shaft seal is constructed as mechanical seal. Depending on medium and operating conditions the slip rings are made of siliciumcarbide (SiC), bellows and secondary seals of EPDM or FPM, the metallic parts of stainless steel (1.4571) or Hastelloy C-4 (2.4610).

### Seal designs:

- Single-acting, internal mechanical seal, independent direction of rotation (B2 i)
- Single-acting, internal mechanical seal, independent direction of rotation with quenching chamber (B2 Q) for supply of external liquid
- Double acting with quenching chamber (B2 D)
- For dual active barrier and buffer fluid systems
- Special designs on request

### In short

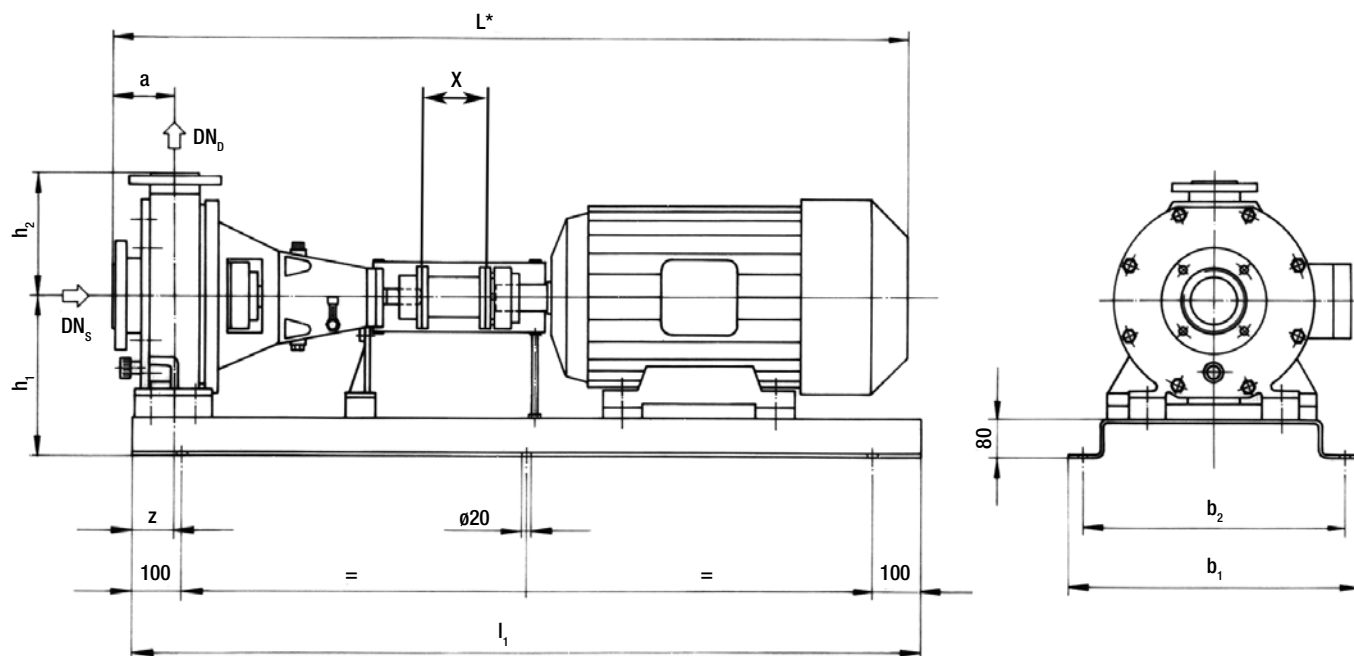
- Single-stage, normal-priming centrifugal pump
- Piping connections according to DIN EN 22858/ISO 2858
- Fast and easy removal of the bearing support
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Special varnish, stainless steel pump shaft with shaft protection sleeve
- Mechanical seal systems depending on medium
- Perfectly dimensioned shafts and bearings
- Lifetime lubrication of bearings in bearing support
- Vibrationless operation
- Wide range of capacity

### Chemical standard pump N

Design	modular design
Materials	PP, PVDF (further materials on request)
Max. flow rate Q	300 m <sup>3</sup> /h
Max. delivery head H	100 m
Motor power	1.1 ... 75 kW
Temperature	PP max. 80 °C, PVDF max. 120 °C (subject to the medium)
Speed	1450 min <sup>-1</sup> und 2900 min <sup>-1</sup>

# Chemical standard pumps

## Chemical standard pump N



Type	100-65-125	125-80-160	125-80-200	125-80-250	125-100-200	125-100-315	200-150-250
DN <sub>o</sub> flange outlet	65	80	80	80	100	100	150
DN <sub>s</sub> flange inlet	100	125	125	125	125	125	200
a	100	125	125	125	125	140	160
z	87.5	87.5	87.5	105	100	100	115
l <sub>1</sub> *	1000	1200	1400	1600	1400	1600	1600
h <sub>1</sub>	240	260	260	305	280	330	360
h <sub>2</sub>	180	225	250	280	280	315	375
b <sub>1</sub>	430	510	560	610	560	610	610
b <sub>2</sub>	370	450	500	550	500	550	550
X	100	140	140	140	140	140	180
L*	1350	1565	1565	1565	1415	1653	1638

\*) at max. motor power

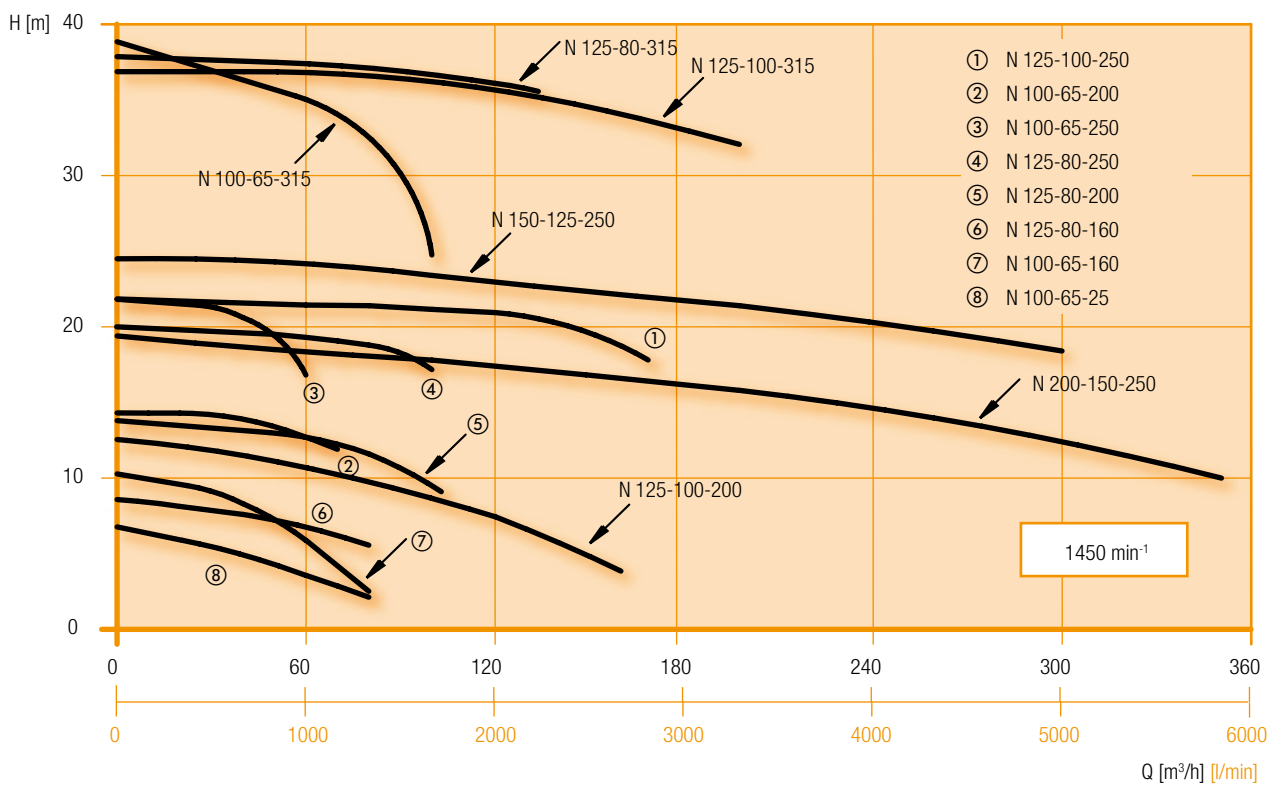
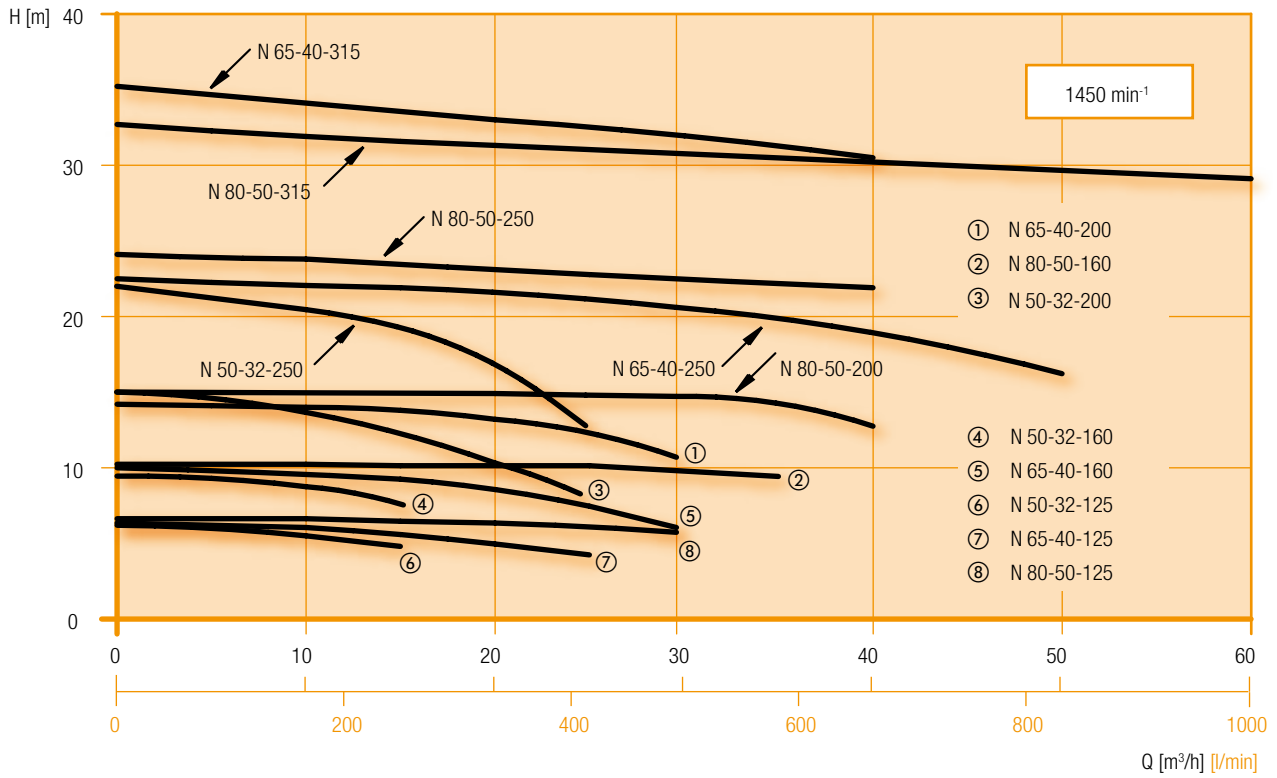
Flange connection dimensions according to DIN 2501, Part 1 for PN10

Dimensions of further standard sizes on request

Dimensions in mm

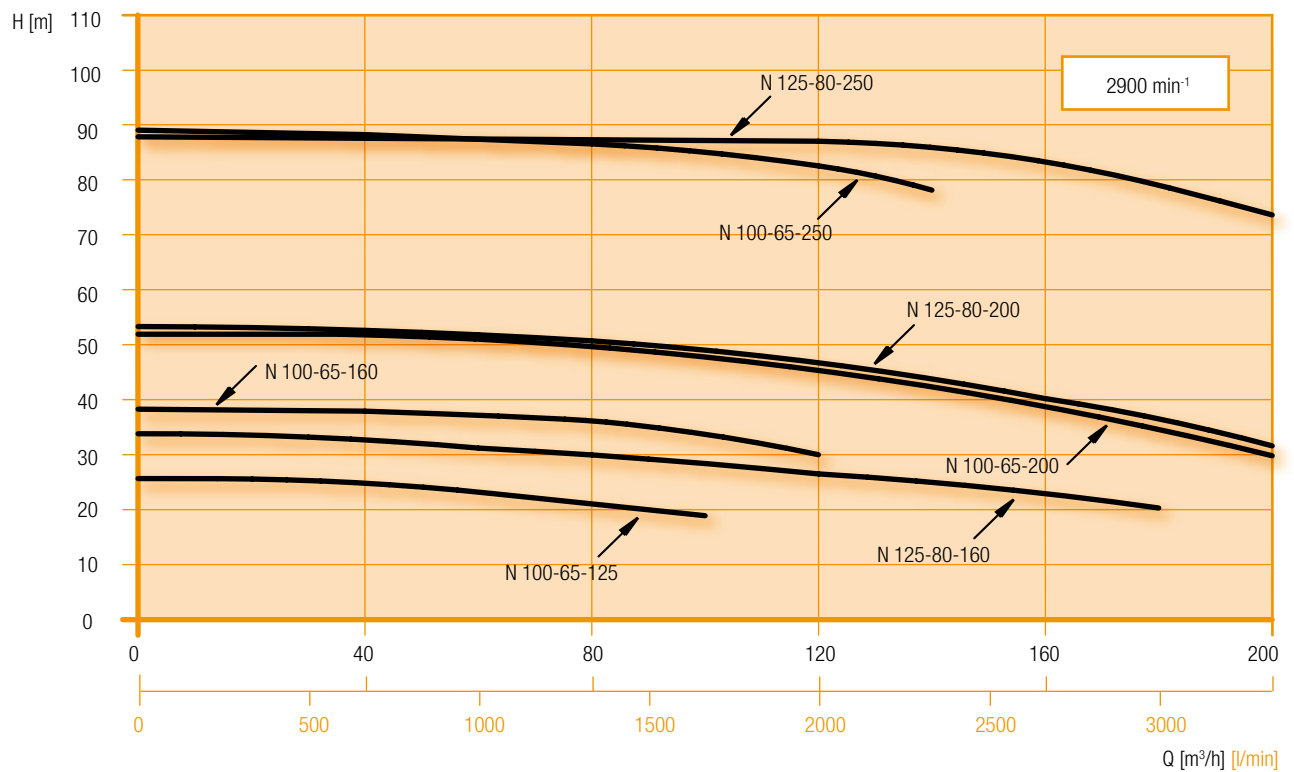
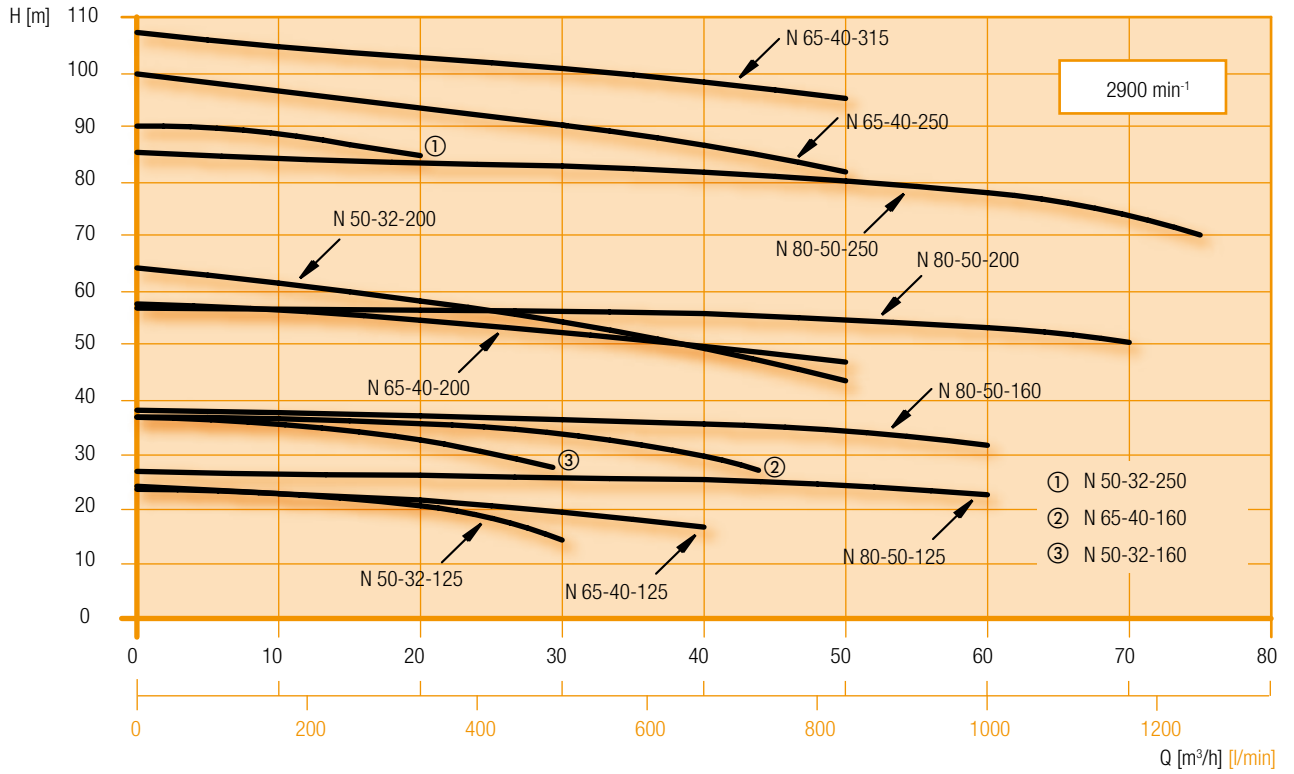
# Chemical standard pumps

## Chemical standard pump



# Chemical standard pumps

## Chemical standard pump N



# Chemical immersion pump

## Vertical immersion pump VTP-BBF



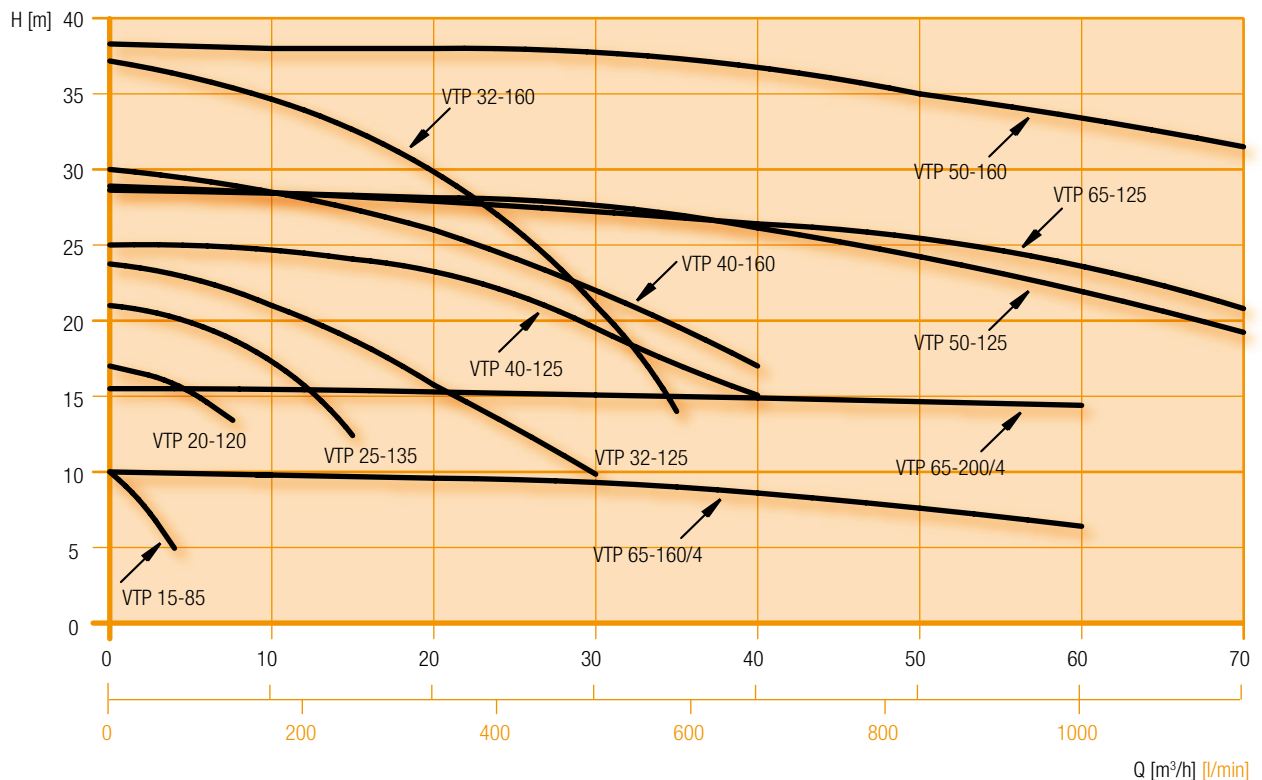
Vertical immersion pump VTP-BBF

### In short

- Single-stage, vertical immersion pumps according to the two-pipe principle
- Immersion pump with especially designed three-phase A.C. motor
- Immersed section of the pump without seals
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Special varnish for motor and metal parts

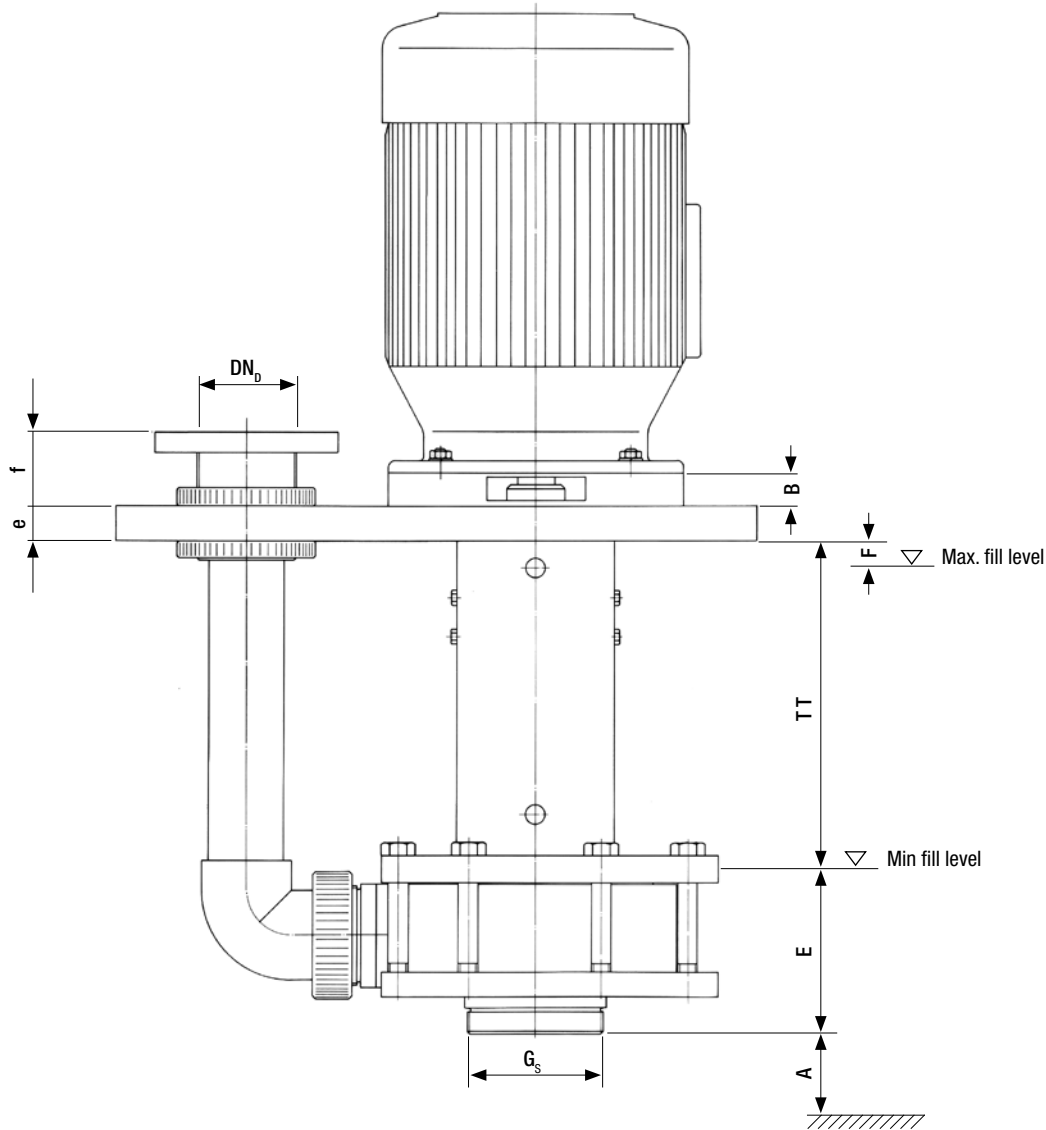
### Vertical immersion pump VTP-BBF

Design	block design
Materials	PP, PVDF (further materials on request)
Max. flow rate Q	80 m <sup>3</sup> /h
Max. delivery head H	35 m
Motor power	0.37 ... 7.5 kW
Speed	1450 min <sup>-1</sup> and 2900 min <sup>-1</sup>
Temperature	PP max. 80 °C, PVDF max. 120 °C (subject to the medium)
Immersion depth up to 500 mm, with suction tube extension up to 800 mm.	



# Chemical immersion pump

## Vertical immersion pump VTP-BBF



Type	15 - 85	20 - 120	25 - 135	32 - 125	32 - 160	40 - 125	40 - 160	50 - 125	50 - 160	65 - 125	65 - 160	65 - 200
DN <sub>o</sub> flange outlet	15	20	25	32	32	40	40	50	50	65	65	65
G <sub>s</sub> thread con. inlet *	G 1 1/4	G 2 1/4	G 2 1/4	G 3	G 3	G 3 1/2	G 3 1/2	G 4	G 4	G 4 1/2	G 5	G 5
E + TT	300	300/400	300/400	Selectable immersion depth 300, 400, 500 mm								
A	20	25	32	55	55	65	65	80	80	100	100	100
B	60	90	90	35	35	35	35	35	35	35	35	35
E	90	122	122	110	110	110	120	131	131	160	160	144
F	30	30	30	35	35	40	40	40	40	40	40	40
e	25	25	25	25	30	30	35	35	35	35	35	35
f	50	50	50	50	50	50	50	75	60	70	70	70

Immersion depth = E + TT

\*) male

Dimensions in mm

# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMB



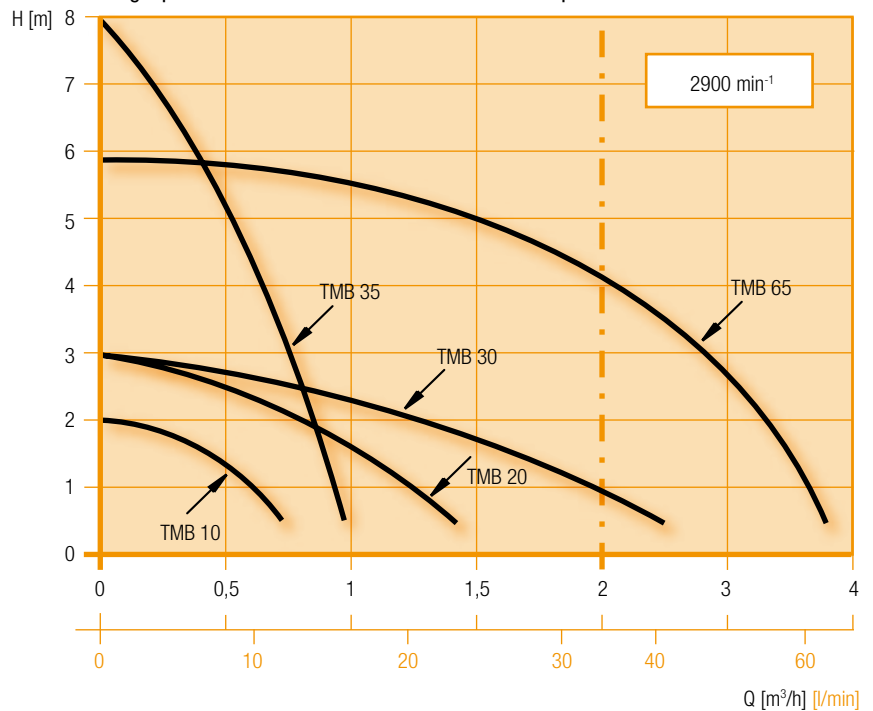
Centrifugal pump TMB

### In short

- Compact dimensions, demand-based capacity
- Corrosion-proof
- Ideal for mobile use
- Variable connection possibilities

### Performance curve

Single performance curve in 50 Hz and 60 Hz on request.



Type	TMB 10	TMB 20 - 30 - 35 - 65	TMB 35
Construction	WR	WR	GF
Centrifugal impeller	Polypropylen (glass fibre reinforced)	Polypropylen (glass fibre reinforced)	ECTFE (carbon fibres filled)
Volute casing			
Rear casing			
Operating temperature	0 ... +60 °C	0 ... +60 °C	0 ... +110 °C
Ambient temperature	0 ... +45 °C	0 ... +45 °C	0 ... +45 °C
Bearing system	N <sub>i</sub>	N <sub>i</sub>	N <sub>i</sub>
Bearing	-	Rulon®	Rulon®
Shaft	Stainless steel	Ceramics	Ceramics
Thrust bush	Rulon®	Ceramics	Ceramics
O-ring	Viton®	Viton®	Viton®
Screws	Stainless steel	Stainless steel	Stainless steel

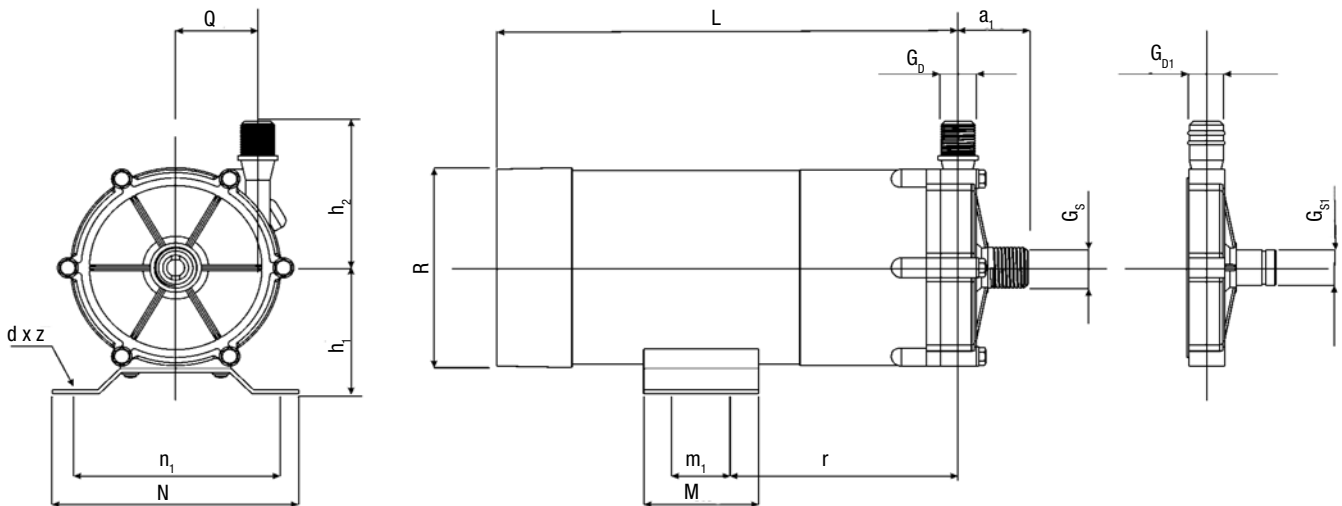
Viton® is a registered trademark of DuPont Performance Elastomers. Rulon® is a registered trademark of Saint-Gobain.

Technical data		TMB 10	TMB 20	TMB 30	TMB 35	TMB 65
G <sub>0</sub> thread connection outlet	BSP	-	G 3/4 AG	G 3/4 AG	G 3/8 AG	G 1 AG
G <sub>s</sub> thread connection inlet	BSP	-	G 3/4 AG	G 3/4 AG	G 1/2 AG	G 1 AG
G <sub>0</sub> hose connection outlet	mm	14	17	20	18	26
G <sub>s</sub> hose connection inlet	mm	14	18	20	18	26
Motor power (IEC) 50 Hz	W	15	29	57	57	97
Motor	1 Phase 230 V / 50 Hz, IP 54					



# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMB



Type	TMB 10	TMB 20	TMB 30	TMB 35	TMB 65
$G_b$ thread connection outlet	-	G 3/4 AG	G 3/4 AG	G 3/8 AG	G 1 AG
$G_s$ thread connection inlet	-	G 3/4 AG	G 3/4 AG	G 1/2 AG	G 1 AG
$G_{b1}$ hose connection outlet	14	17	20	18	26
$G_{s1}$ hose connection inlet	14	18	20	18	26
$a_1$	31	37	48	34	62
$h_1$	45	55	60	60	67
$h_2$	47	74	75	75	84
L	100	181	206	206	222
$m_1$	16	30	40	40	40
M	30	50	64	64	68
$n_1$	78	70	100	100	120
N	90	92	120	120	144
Q	17	30	32	40	45
r	46.5	75	94	94	115
R	70	90	90	90	115
d x z	Ø 5 x 4	Ø 6 x 4	Ø 8 x 4	Ø 8 x 4	Ø 8 x 4

Dimensions in mm

# Centrifugal pumps with magnetic coupling

## Centrifugal pump AM



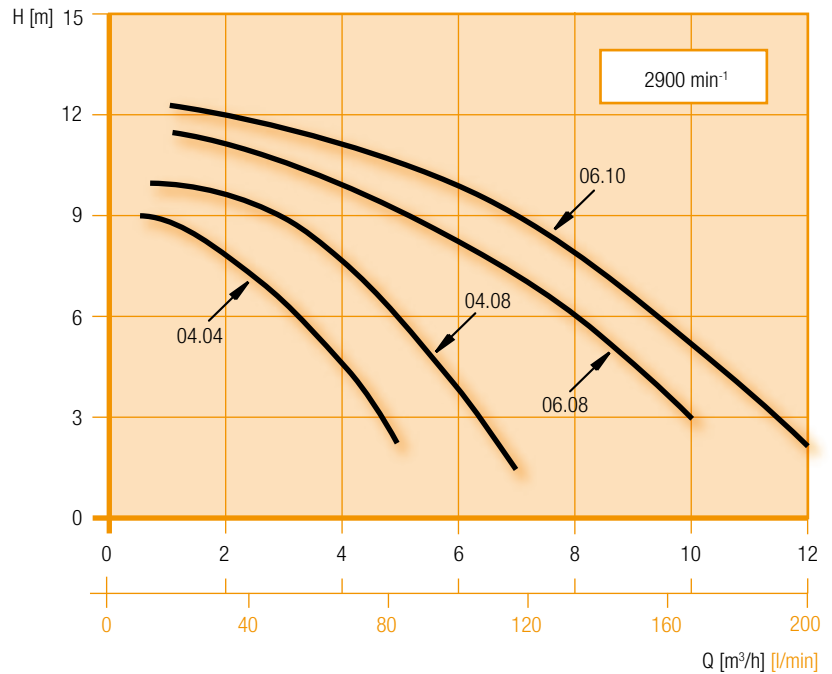
Centrifugal pump AM

### In short

- Small sizes, large capacity
- Suitable for dry running
- Corrosion-proof
- Low wear
- Variable connection possibilities
- Also for flammable media

### Performance curve

Single performance curve in 50 Hz and 60 Hz on request.



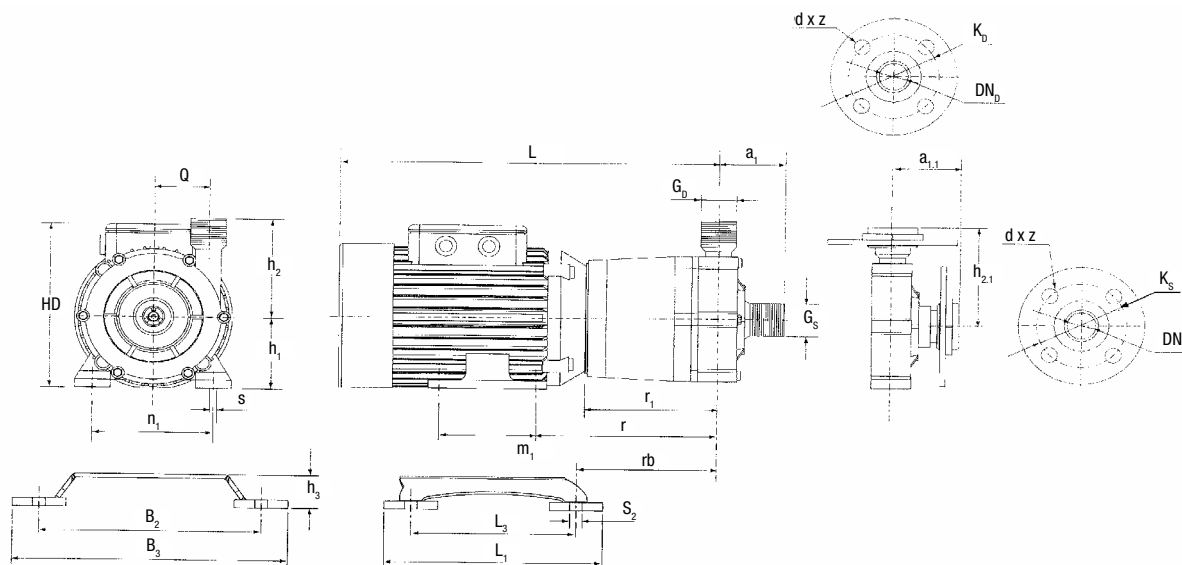
Construction	WR			GF			GX	
Category 2 (ATEX)	no			no			yes	
Centrifugal impeller	Polypropylen (glass fibre reinforced)			ECTFE (carbon fibres filled)			ECTFE (carbon fibres filled)	
Volute casing								
Rear casing								
Operating temperature	-5 ... +80 °C			-20 ... +100 °C			-20 ... +100 °C	
Ambient temperature	0 ... +40 °C			-20 ... +40 °C			-20 ... +40 °C	
Bearing system	R <sub>1</sub>	X <sub>1</sub>	N <sub>1</sub>	R <sub>2</sub>	X <sub>2</sub>	N <sub>2</sub>	R <sub>2</sub>	N <sub>2</sub>
Bearing	HD-carbon	SiC	Rulon®	HD-carbon	SiC	Rulon®	HD-carbon	Rulon®
Shaft	Ceramics			SiC			SiC	
Thrust bush	Ceramics			SiC			SiC	
O-ring	Viton® <sup>1)</sup>			Viton® <sup>1) 2)</sup>			Viton® <sup>1) 2)</sup>	
screws	Stainless steel			Stainless steel			Stainless steel	

On request: <sup>1)</sup>EPDM and <sup>2)</sup>FFKM (Kalrez®)  
 Viton® and Kalrez® are registered trademarks of DuPont Performance Elastomers. Rulon® is a registered trademark of Saint-Gobain.

Technical data		04.04			04.08			06.08			06.10		
Motor type		N	P	S	N	P	S	N	P	S	N	P	S
G <sub>D</sub> thread connection outlet	BSP	G 3/4 AG			G 1 AG			G 1 1/4 AG			G 1 1/4 AG		
G <sub>S</sub> thread connection inlet	BSP	G 3/4 IG			G 1 AG			G 1 1/4 AG			G 1 1/4 AG		
Hose connector	mm	25.5			-			-			-		
Flange in- and outlet	DN	-			25			32			32		
Max. Density	kg/dm <sup>3</sup>	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8
Motor power (IEC) 50 Hz	kW	0.18	0.25	0.37	0.25	0.37	0.55	0.37	0.55	0.75	0.55	0.75	1.1
Motor		3 Phase 400 V / 50 Hz, IP 55 (1 Phase 230 V / 50 Hz)											
Special voltage on request													

# Centrifugal pumps with magnetic coupling

## Centrifugal pump AM



Type	04.04			04.08			06.08			06.10		
G <sub>b</sub> thread connection outlet	G 3/4 AG			G 1 AG			G 1 1/4 AG			G 1 1/4 AG		
G <sub>s</sub> thread connection inlet	G 3/4 IG			G 1 AG			G 1 1/4 AG			G 1 1/4 AG		
DN <sub>b</sub> flange outlet	20			25			32			32		
DN <sub>s</sub> flange inlet	20			25			32			32		
K <sub>b</sub> (ISO)	-			85			100			100		
K <sub>s</sub> (ISO)	-			86			100			100		
K <sub>b</sub> (ANSI)	-			79			89			89		
K <sub>s</sub> (ANSI)	-			79			89			89		
d x z (ISO)	-			ø 14 x 4			ø 14 x 4			ø 14 x 4		
d x z (ANSI)	-			ø 16 x 4			ø 16 x 4			ø 16 x 4		
a <sub>1</sub>	62			62			62			62		
a <sub>1,1</sub>	-			70			70			70		
Q	47			49			53			53		
h <sub>2</sub>	100			100			100			100		
h <sub>2,1</sub>	-			108			108			108		
	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>
L*	330	330	348	330	348	348	348	348	388	348	388	388
h <sub>1</sub>	63	63	71	63	71	71	71	71	80	71	80	80
HD*	160	160	177	160	177	177	177	177	190	177	190	190
m <sub>1</sub>	80	80	90	80	90	90	90	90	100	90	100	100
n <sub>1</sub>	100	100	112	100	112	112	112	112	125	112	125	125
r <sub>1</sub>	123	123	123	123	123	123	123	123	133	123	133	133
r	163	163	168	163	168	168	168	168	183	168	183	183
rb	135	135	135	135	135	135	135	135	145	135	145	145
s	ø 7	ø 7	ø 7	ø 7	ø 7	ø 7	ø 7	ø 7	ø 10	ø 7	ø 10	ø 10
B <sub>2</sub>	-	-	248	-	248	248	248	248	248	248	248	248
B <sub>3</sub>	-	-	308	-	308	308	308	308	308	308	308	308
L <sub>1</sub>	-	-	245	-	245	245	245	245	245	245	245	245
L <sub>3</sub>	-	-	185	-	185	185	185	185	185	185	185	185
h <sub>3</sub>	-	-	40	-	40	40	40	40	40	40	40	40
S <sub>2</sub>	-	-	14	-	14	14	14	14	14	14	14	14

Dimensions in mm

\*) may vary with motors of different brands

# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMR G2



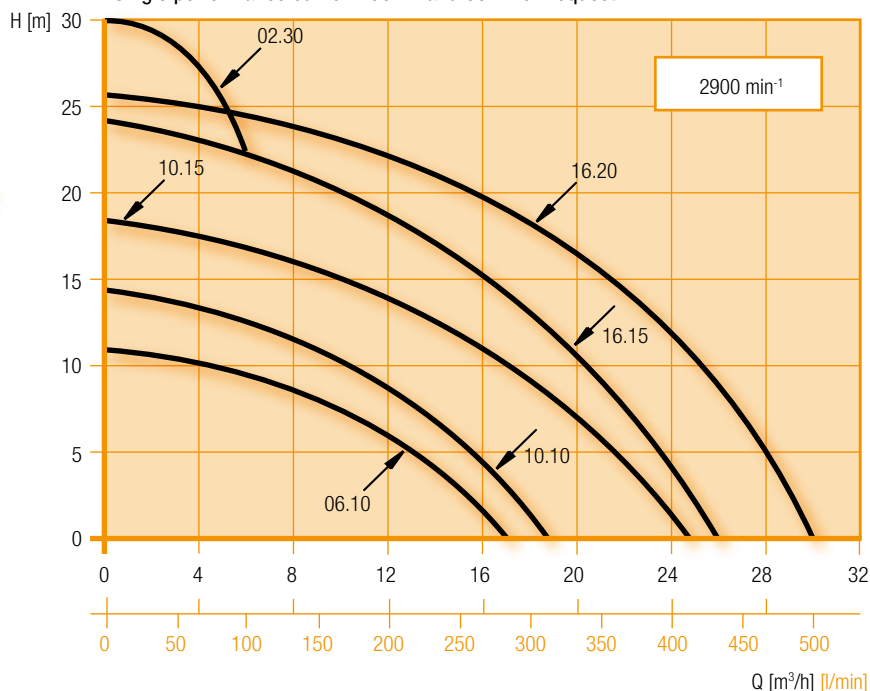
Centrifugal pump TMR G2

### In short

- Suitable for dry running
- High performance
- High plant availability
- Variable connection possibilities
- Also for flammable media
- Version GX are conform with ATEX

### Performance curve

Single performance curve in 50 Hz and 60 Hz on request.



Construction	WR			GF			GX	
Category 2 (ATEX)	no			no			yes	
Centrifugal impeller	Polypropylen (glass fibre reinforced)			ECTFE (carbon fibres filled)			ECTFE (carbon fibres filled)	
Volute casing								
Rear casing								
Operating temperature	-5 ... +80 °C			-20 ... +100 °C			-20 ... +100 °C	
Ambient temperature	0 ... +40 °C			-20 ... +40 °C			-20 ... +40 °C	
Bearing system	R <sub>1</sub>	X <sub>1</sub>	N <sub>1</sub>	R <sub>2</sub>	X <sub>2</sub>	N <sub>2</sub>	R <sub>2</sub>	N <sub>2</sub>
Bearing	HD-carbon	SiC	Rulon®	HD-carbon	SiC	Rulon®	HD-carbon	Rulon®
Shaft	Ceramics			SiC			SiC	
Thrust bush	Ceramics			SiC			SiC	
O-ring	Viton® <sup>1)</sup>			Viton® <sup>1) 2)</sup>			Viton® <sup>1) 2)</sup>	
screws	Stainless steel			Stainless steel			Stainless steel	

On request: <sup>1)</sup>EPDM and <sup>2)</sup>FFKM (Kalrez®)

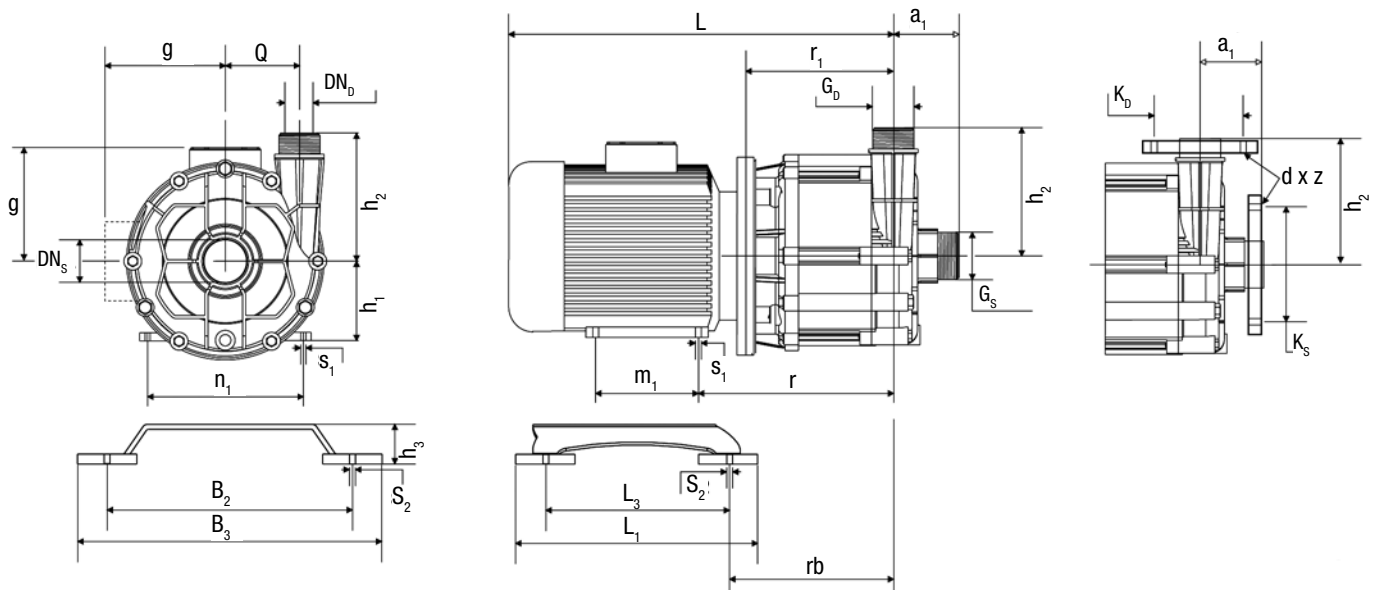
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Technical data		06.10			10.10			10.15			16.15			16.20			02.30		
Motor type		N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S
G <sub>0</sub> thread connection outlet	BSP	G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG		
G <sub>s</sub> thread connection inlet	BSP	G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG		
DN <sub>0</sub> flange outlet	DN	32 (40*)			32 (40*)			32 (40*)			32 (40*)			32 (40*)			32 (40*)		
DN <sub>s</sub> flange inlet	DN	40			40			40			40			40			40		
Max. density	kg/dm <sup>3</sup>	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.1	1.35	1.8	1.05	1.35	1.8
Motor power (IEC) 50 Hz	KW	0.55	0.75	1.1	0.75	1.1	1.5	1.1	1.5	2.2	1.5	2.2	3	2.2	3	-	2.2	3	-
Motor		3 Phase 400 V / 50 Hz, IP 55 (1 Phase 230 V / 50 Hz < 3 kW)																	

\*) on request

# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMR G2



Type	06.10			10.10			10.15			16.15			16.20		02.30	
Size motors	71	80A	80B	80A	80B	90S	80B	90S	90L	90S	90L	100	90L	100	90L	100
G <sub>b</sub> thread connection outlet	G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG			G 1 1/4 AG		G 1 1/4 AG	
G <sub>s</sub> thread connection inlet	G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG		G 1 1/2 AG	
DN <sub>b</sub> flange outlet	32			32			32			32			32		32	
DN <sub>s</sub> flange inlet	40			40			40			40			40		40	
K <sub>b</sub> (ISO)	100			100			100			100			100		100	
K <sub>s</sub> (ISO)	110			110			110			110			110		110	
K <sub>b</sub> (ANSI)	89			89			89			89			89		89	
K <sub>s</sub> (ANSI)	98			98			98			98			98		98	
d x z (ISO)	∅ 18 x 4			∅ 18 x 4			∅ 18 x 4			∅ 18 x 4			∅ 18 x 4		∅ 18 x 4	
d x z (ANSI)	∅ 16 x 4			∅ 16 x 4			∅ 16 x 4			∅ 16 x 4			∅ 16 x 4		∅ 16 x 4	
a <sub>1</sub>	67			67			67			67			67		67	
L	356	385	385	385	385	405	385	405	430	405	430	478	430	478	430	478
Q	75			75			75			75			75		75	
h <sub>1</sub>	71	80	80	80	80	90	80	90	90	90	90	100	90	100	90	100
h <sub>2</sub>	130			130			130			130			130		130	
r	194	199	199	199	199	205	199	205	205	205	205	227	205	227	205	227
r <sub>1</sub>	149			149			149			149			149		149	
rb	161			161			161			161			161		161	
m <sub>1</sub>	90	100	100	100	100	100	100	100	125	100	125	140	125	140	125	140
n <sub>1</sub>	112	125	125	125	125	140	125	140	140	140	140	160	140	160	140	160
s <sub>1</sub>	7	8	8	8			8			8			8	10	8	10
g	106	110	110	110	110	142	110	142	142	142	142	155	142	155	142	155
L <sub>3</sub>	185			185			185			185			185		185	
B <sub>2</sub>	248			248			248			248			248		248	
S <sub>2</sub>	14			14			14			14			14		14	
L <sub>1</sub>	245			245			245			245			245		245	
B <sub>3</sub>	308			308			308			308			308		308	
h <sub>3</sub>	40			40			40			40			40		40	

Dimensions in mm

# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMR G3



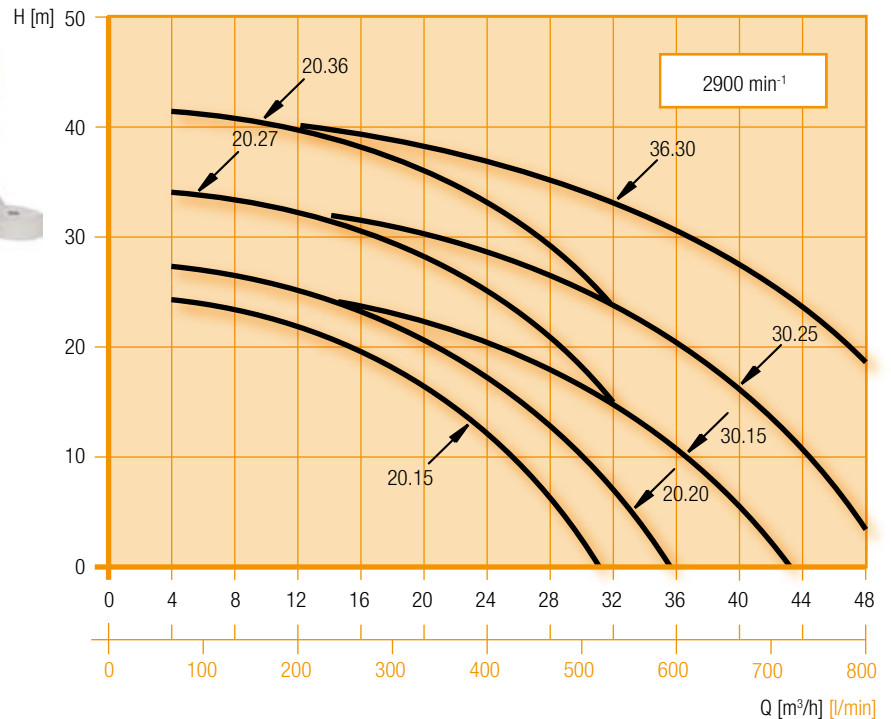
Centrifugal pump TMR G3

### In short

- Suitable for dry running
- High performance
- High plant availability
- Protective plate
- Variable connection possibilities
- Also for flammable media
- Version GX are conform with ATEX

### Performance curve

Single performance curve in 50 Hz and 60 Hz on request.



Construction	WR			GF			GX	
Category 2 (ATEX)	no			no			yes	
Centrifugal impeller	Polypropylen (glass fibre reinforced)			ECTFE (carbon fibres filled)			ECTFE (carbon fibres filled)	
Volute casing								
Rear casing								
Operating temperature	-5 ... +80 °C			-20 ... +100 °C			-20 ... +100 °C	
Ambient temperature	0 ... +40 °C			-20 ... +40 °C			-20 ... +40 °C	
Bearing system	R <sub>1</sub>	X <sub>1</sub>	N <sub>1</sub>	R <sub>2</sub>	X <sub>2</sub>	N <sub>2</sub>	R <sub>2</sub>	N <sub>2</sub>
Bearing	HD-carbon	SiC	Rulon®	HD-carbon	SiC	Rulon®	HD-carbon	Rulon®
Shaft	Ceramics			SiC			SiC	
Thrust bush	Ceramics			SiC			SiC	
O-ring	Viton® <sup>1)</sup>			Viton® <sup>1) 2)</sup>			Viton® <sup>1) 2)</sup>	
screws	Stainless steel			Stainless steel			Stainless steel	



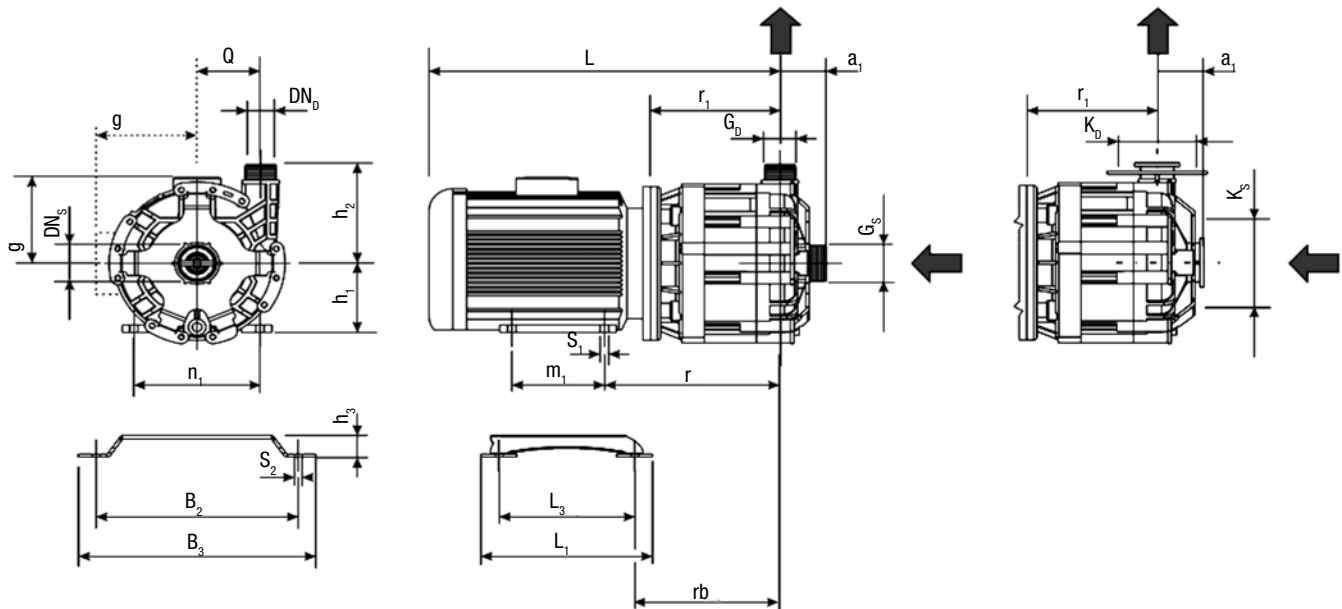
On request: <sup>1)</sup>EPDM and <sup>2)</sup>FFKM (Kalrez®)

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Technical data		20.15			20.20			20.27			20.36			30.15			30.25			36.30		
Motor type		N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S
G <sub>0</sub> thread connection outlet	BSP	G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG		
G <sub>s</sub> thread connection inlet	BSP	G 2 AG			G 2 AG			G 2 AG			G 2 AG			G 2 AG			G 2 AG			G 2 AG		
DN <sub>0</sub> flange outlet	DN	40			40			40			40			40			40			40		
DN <sub>s</sub> flange inlet	DN	50			50			50			50			50			50			50		
Max. density	kg/dm <sup>3</sup>	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8
Motor power (IEC) 50 Hz	kW	2.2	3	4	3	4	5.5	4	5.5	7.5	5.5	7.5	11	4	5.5	7.5	5.5	7.5	11	7.5	11	-
Motor		3 Phase 400 V / 50 Hz, IP 55																				

# Centrifugal pumps with magnetic coupling

## Centrifugal pump TMR G3

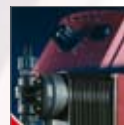


Type	20.15			20.20			20.27			20.36		30.15			30.25		36.30
Size motors	90L	100L	112M	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	112M	132SA	132SB	132SA	132SB	132SB
G <sub>b</sub> thread connection outlet	G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG			G 1 1/2 AG		G 1 1/2 AG			G 1 1/2 AG		G 1 1/2 AG
G <sub>s</sub> thread connection inlet	G 2 AG			G 2 AG			G 2 AG			G 2 AG		G 2 AG			G 2 AG		G 2 AG
DN <sub>b</sub> flange outlet	40			40			40			40		40			40		40
DN <sub>s</sub> flange inlet	50			50			50			50		50			50		50
K <sub>b</sub> (ISO)	110			110			110			110		110			110		110
K <sub>s</sub> (ISO)	125			125			125			125		125			125		125
K <sub>b</sub> (ANSI)	98			98			98			98		98			98		98
K <sub>s</sub> (ANSI)	121			121			121			121		121			121		121
d x z (ISO)	∅ 18 x 4			∅ 18 x 4			∅ 18 x 4			∅ 18 x 4		∅ 18 x 4			∅ 18 x 4		∅ 18 x 4
d x z (ANSI)	∅ 16-19 x 4			∅ 16-19 x 4			∅ 16-19 x 4			∅ 16-19 x 4		∅ 16-19 x 4			∅ 16-19 x 4		∅ 16-19 x 4
a <sub>1</sub>	70			70			70			70		70			70		70
L	469	512	521	512	521	578	521	578	578	578	521	578	578	578	578	578	578
Q	96			96			96			96		96			96		96
h <sub>1</sub>	90	100	112	100	112	132	112	132	132	132	112	132	132	132	132	132	132
h <sub>2</sub>	160			160			160			160		160			160		160
r	244	261	268	261	268	307	268	307	307	307	268	307	307	307	307	307	307
r <sub>1</sub>	188	198	198	198	198	218	198	218	218	218	198	218	218	218	218	218	218
rb	200	210	217	210	217	235	217	235	235	235	217	235	235	235	235	235	235
m <sub>1</sub>	125	140	140	140			140			140	140			140		140	
n <sub>1</sub>	140	160	190	160	190	216	190	216	216	216	190	216	216	216	216	216	216
s <sub>1</sub>	8	10	10	10			10			10	10			10		10	
g	142	155	168	155	168	181	168	181	181	181	168	181	181	181	181	181	181
L <sub>3</sub>	185	205	205	205	205	263	205	263	263	263	205	263	263	263	263	263	263
B <sub>2</sub>	248	305	305	305	305	359	305	359	359	359	305	359	359	359	359	359	359
S <sub>2</sub>	14			14			14			14	14			14		14	
L <sub>1</sub>	245	265	265	265	265	333	265	333	333	333	265	333	333	333	333	333	333
B <sub>3</sub>	308	365	365	365	365	429	365	429	429	429	365	429	429	429	429	429	429
h <sub>3</sub>	55			55			55			55	55			55		55	

Dimensions in mm



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