



Chemical centrifugal pumps

Lutz-Jesco GmbH

safety is our concern

Content

Chemical centrifugal pumps	3
Chemical motor block pump MB.....	6
Chemical motor block pump BN	11
Chemical standard pump N.....	23
 Magnetically coupled centrifugal pumps	 4
Magnetically coupled chemical centrifugal pump TMB	35
Magnetically coupled chemical centrifugal pump AM ..	40
Magnetically coupled chemical centrifugal pump TMR G2	44
Magnetically coupled chemical centrifugal pump TMR G3	50
 Service	 56



Chemical standard pump N

Chemical centrifugal pumps for industrial use

Tradition creates innovation

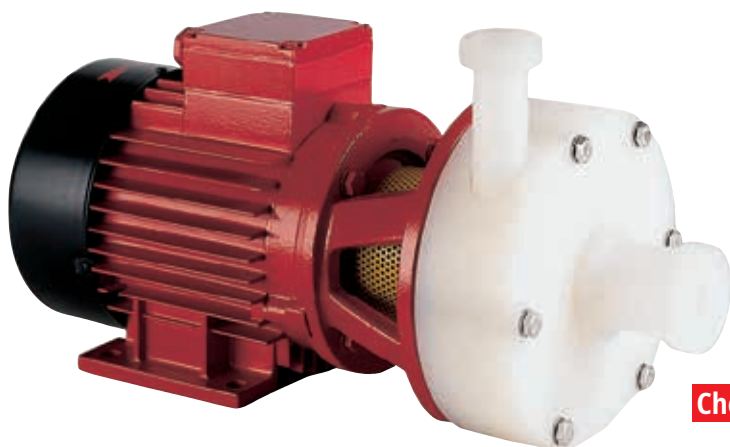
Many decades of experience are incorporated in the centrifugal pumps from Lutz-Jesco. Special coatings and highly resistant materials guarantee maximum reliability and longevity, even with the most aggressive media. Our range of products includes motor block pumps and standard pumps for almost every conceivable scope of application.

The chemical centrifugal pumps from Lutz-Jesco have been specially developed for use in industrial applications and are therefore particularly robust and durable. This also applies to especially aggressive media and extremely challenging applications.

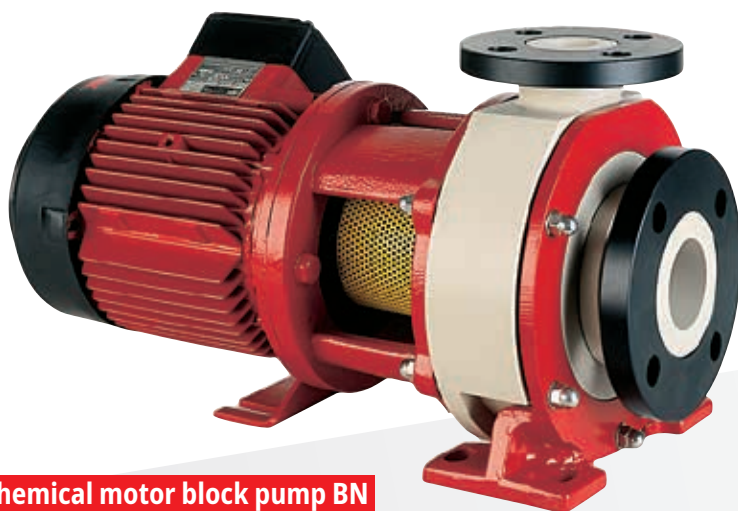
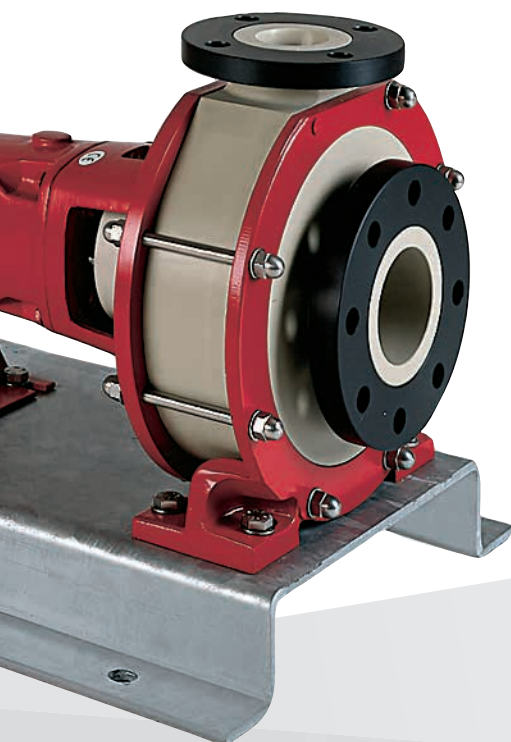
The horizontal, normal-priming **chemical motor block pumps MB** have been especially designed for low-viscosity, acidic and alkaline solutions with a low solid content. The pump head of the single-stage devices is made of high-quality plastics with a hydraulically efficient spiral housing. The maximum delivery rate is 19 m³/h.

Chemical motor block pumps BN are single-stage, normal-priming pumps with a horizontal design. They are supplied complete with a motor for quick and easy installation in the piping system. Suitable for delivery rates up to 120 m³/h.

Chemical standard pumps N are single-stage, normal-priming centrifugal pumps with a spiral housing. Thanks to the modular system, the bearing frame can be removed without the need to dismantle the pipe line connection and the motor. Quiet and vibration-free operation thanks to a robust design. For delivery capacities up to 120 m³/h.



Chemical motor block pump MB



Chemical motor block pump BN

Magnetically coupled centrifugal pumps for the highest demands

Clear advantages

Chemical centrifugal pumps with a magnetic coupling work without a mechanical shaft seal. Power is transmitted from the drive motor to the impeller in a contact-free manner via permanent magnets.

With no seal and environmentally safe

With non-contact magnetic power transmission, no shaft seals are necessary and thus a hermetically sealed pump housing is possible, which prevents leaks.

Appropriate bearing systems

Bearings made of carbon, ceramic, silicon carbide and PTFE allow individual adaptation to difficult operating conditions, such as dry running or, media containing solids or highly aggressive media.

Operating safety and a high degree of efficiency

The use of powerful permanent magnets guarantees high transmission forces even at high temperatures. Optimally matched bearing material pairings minimise friction losses.

Dosing media

Chemical centrifugal pumps with a magnetic coupling are ideal for conveying acids; alkalis; acid and alkali mixtures; solvents; alkaline degreasing baths; galvanic baths; photographic chemicals; radioactive, sterile, valuable and highly corrosive liquids; and many other low-viscosity media.

Areas of application

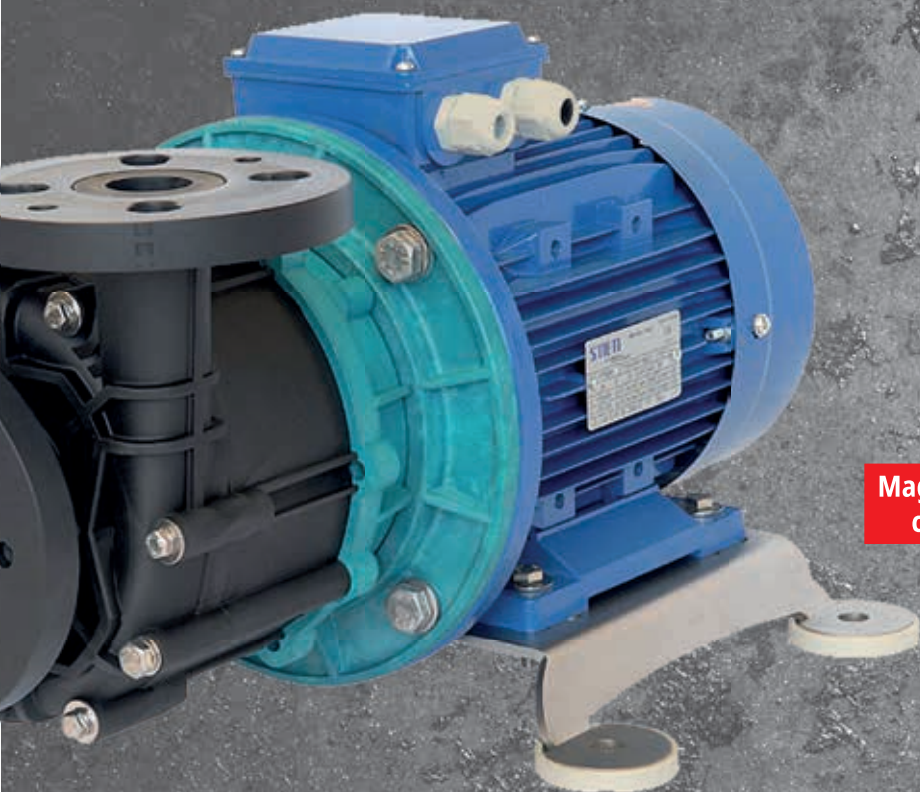
Chemical centrifugal pumps with a magnetic coupling can be deployed for the following applications without difficulty: Electroplating and surface treatment systems, etching and cleaning systems, water treatment and waste water technology, printed circuit board production, the chemical industry in general, electroplating and acid plant engineering, the photographic industry, solar power systems.



Magnetically coupled chemical centrifugal pump TMB



Magnetically coupled chemical centrifugal pump AM



**Magnetically coupled chemical
centrifugal pump TMR G2**



**Magnetically coupled chemical
centrifugal pump TMR G3**

Chemical motor block pump MB

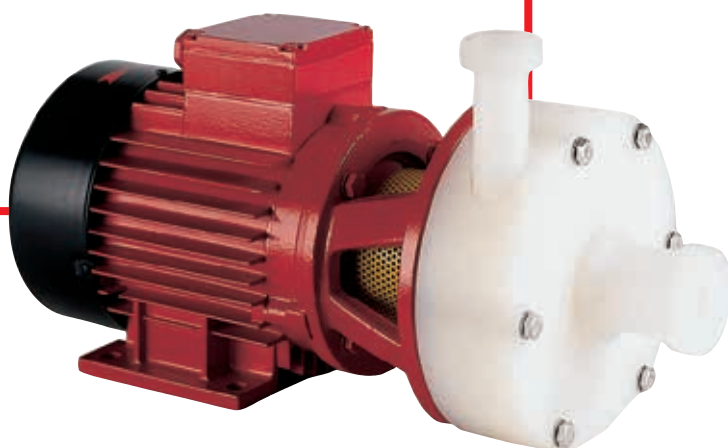
General

- Single-stage, normal-priming horizontal pump
- Pump head from high-quality thick-walled plastic
- Pipe line connection suction and pressure side with exterior thread
- Open impeller
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Stainless steel pump shaft with shaft protection sleeve
- Mechanical seal systems depending on medium
- Vibration-free operation
- Special designs on request

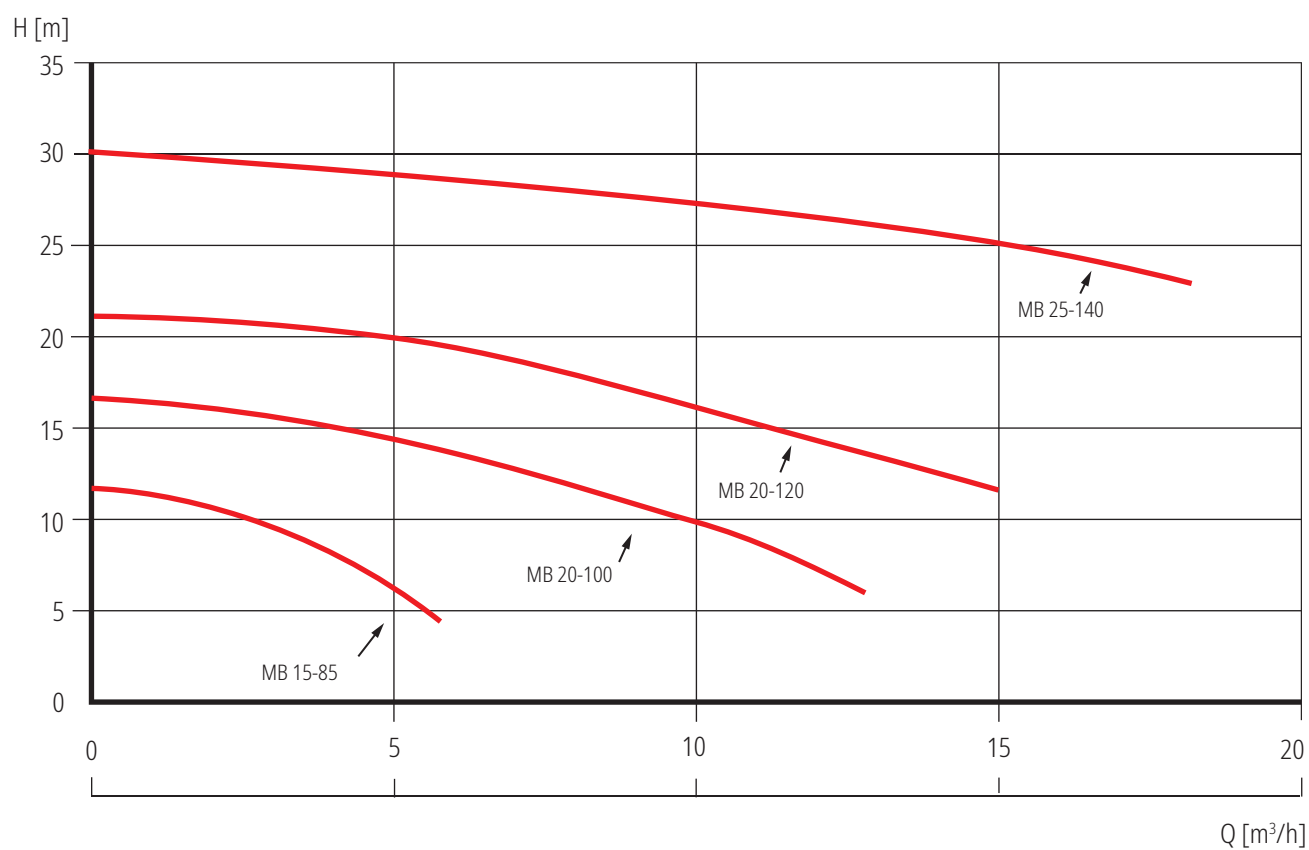
Technical data			
Model		Block construction	
Materials		PP, PVDF	
Max. delivery rate Q	m ³ /h	19	
Max. delivery head H	m	30	
Motor output with speed 2900 min ⁻¹	kW	0.37 – 2.2	
Ambient temperature	°C	5 – 40	
Max. permissible media temperature depending on the medium	PP	°C	80
	PVDF	°C	120

Possible seal designs

- **B2i:** Single-acting, internal mechanical seal, independent direction of rotation
- **B2Q:** Single-acting, internal mechanical seal, independent direction of rotation with quenching chamber for supply of external liquid
- **B2D:** Double acting with quenching chamber for dual active barrier and buffer fluid systems



Characteristic curves

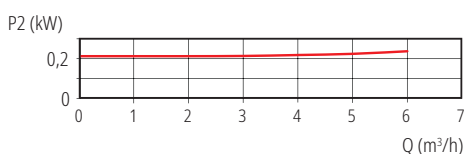
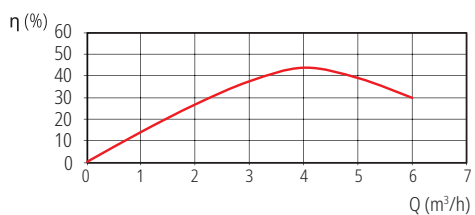
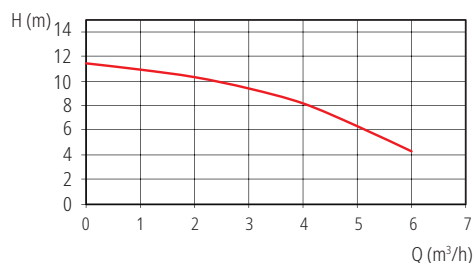


Individual characteristic curves

MB 15-85

Motor: 0.37 kW

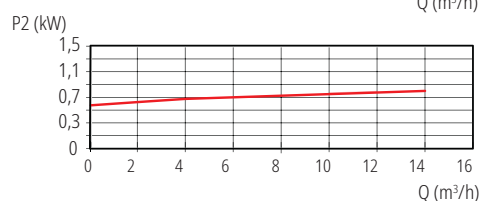
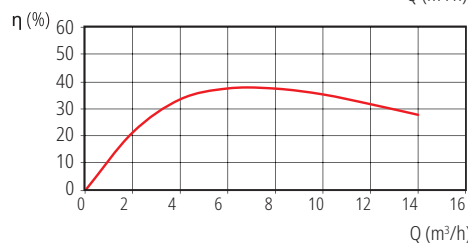
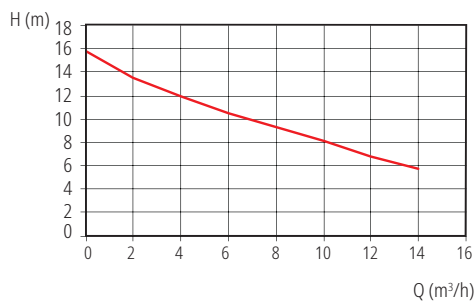
Speed: 2900 min⁻¹



MB 20-100

Motor: 1.1 kW

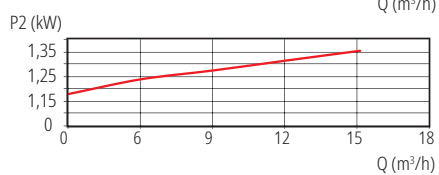
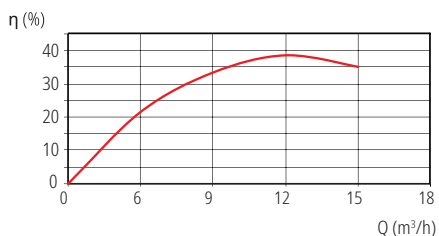
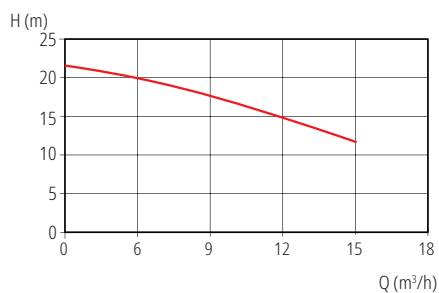
Speed: 2900 min⁻¹



MB 20-120

Motor: 1.5 kW

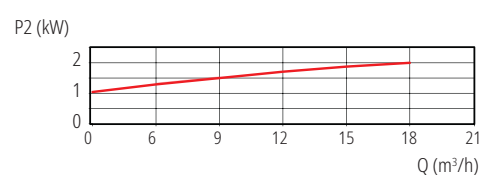
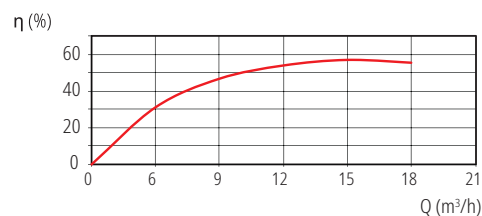
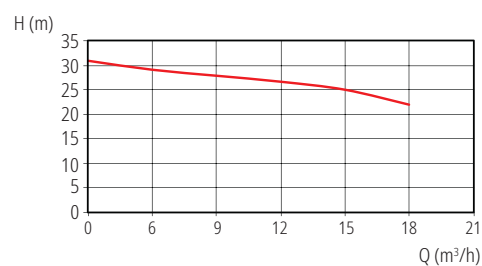
Speed: 2900 min⁻¹



MB 25-140

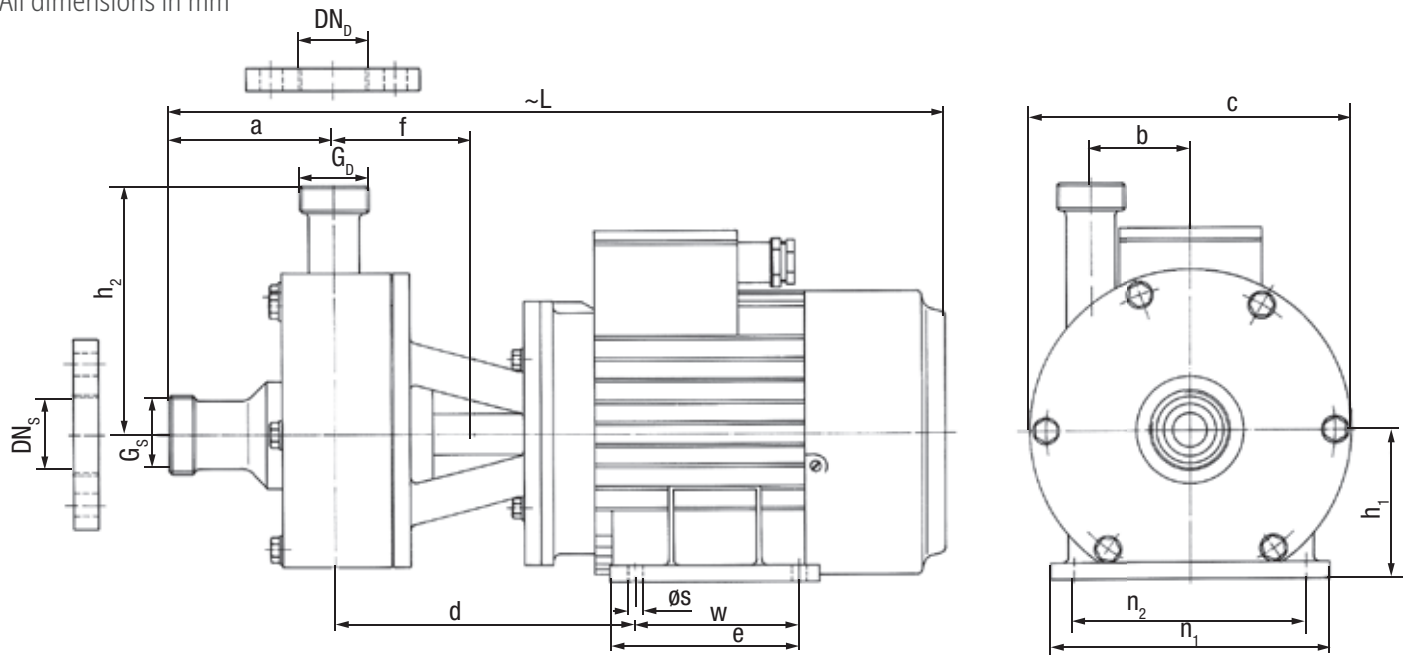
Motor: 2.2 kW

Speed: 2900 min⁻¹



Dimensions

All dimensions in mm



Pump type	MB 15-85	MB 20-100	MB 20-120	MB 25-140
G_o thread outlet	G1 male	G1 1/4 male	G1 1/4 male	G1 1/2 male
G_s thread entry	G1 1/4 male	G1 1/2 male	G1 1/2 male	G2 male
DN_o flange outlet	15	20	20	25
DN_s flange entry	20	25	25	32
a	75	100	100	100
h_1	71	80	90	90
h_2	100	150	150	150
w	90	100	100	125
e	106	126	127	145
ϕs	7	10	10	10
b	40	60	60	60
n_1	132	150	167	167
n_2	112	125	140	140
c	125	195	195	195
d	137	174	180	180
$\sim L$	373	452	476	486
f sealing chamber	60	87	87	87
f quenching chamber	60	83.5	83.5	83.5



Chemical motor block pump BN

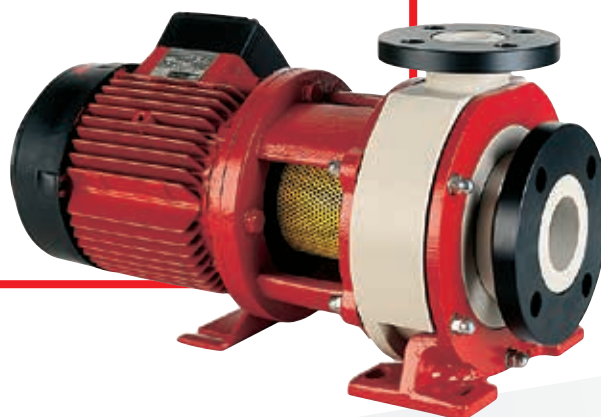
General

- Single-stage, normal-priming horizontal pump
- Piping connections according to DIN EN 22858/ISO 2858
- Corrosion-resistant
- Wetted-end parts made of highly resistant material
- Stainless steel pump shaft with shaft protection sleeve
- Mechanical seal systems depending on medium
- Perfectly dimensioned shafts and bearings
- Space-saving installation
- Vibration-free operation
- Special designs on request

Technical data			
Model		Block construction	
Materials		PP, PVDF	
Max. delivery rate Q	m ³ /h	120	
Max. delivery head H	m	60	
Motor power at	Speed 1450 min ⁻¹	kW	1.1 – 4
	Speed 2900 min ⁻¹	kW	1.5 – 11
Ambient temperature		°C	5 – 40
Max. permissible media temperature depending on the medium	PP	°C	80
	PVDF	°C	120

Possible seal designs

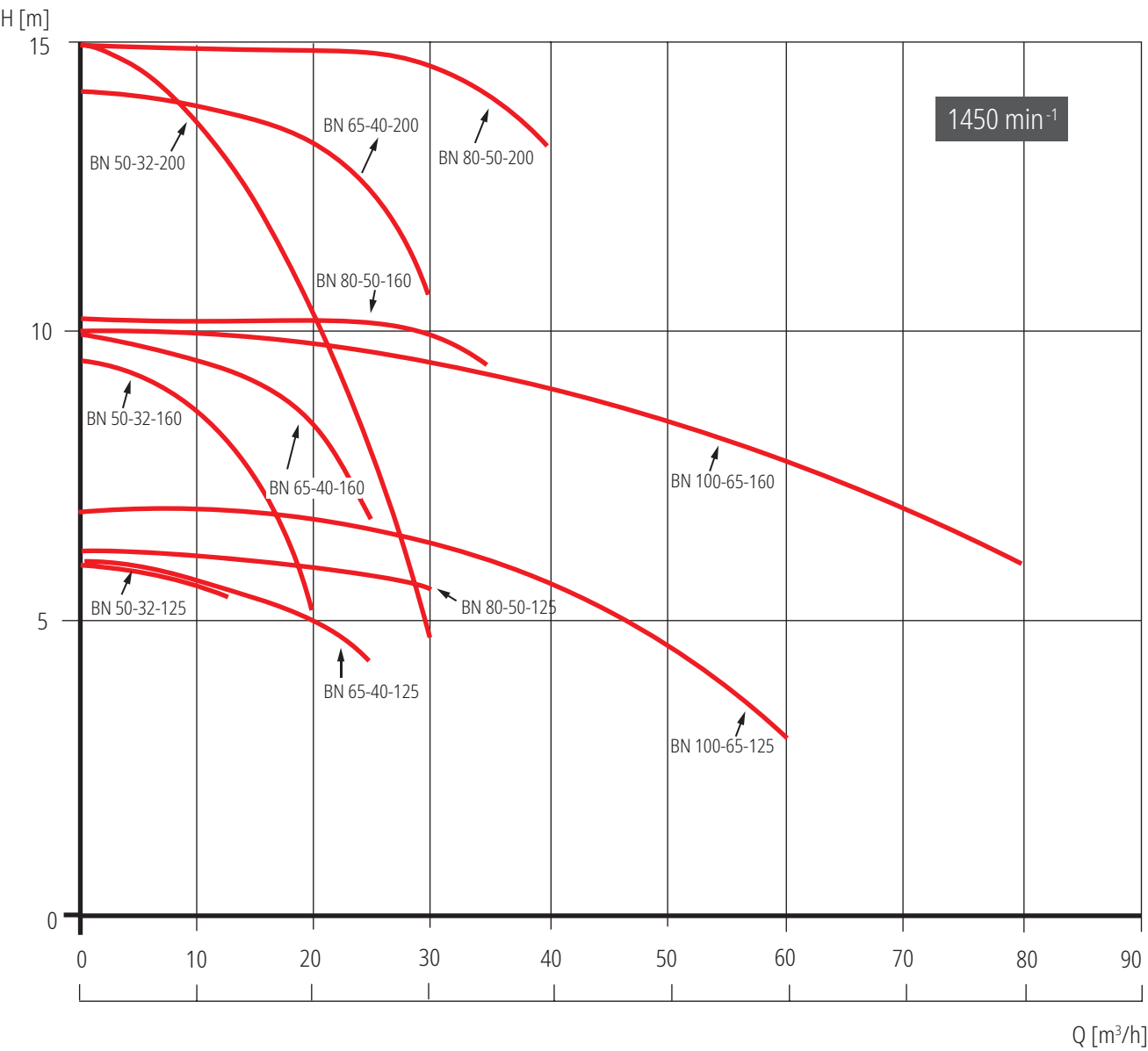
- **B2i:** Single-acting, internal mechanical seal, independent direction of rotation
- **B2Q:** Single-acting, internal mechanical seal, independent direction of rotation with quenching chamber for supply of external liquid
- **B2D:** Double acting with quenching chamber for dual active barrier and buffer fluid systems



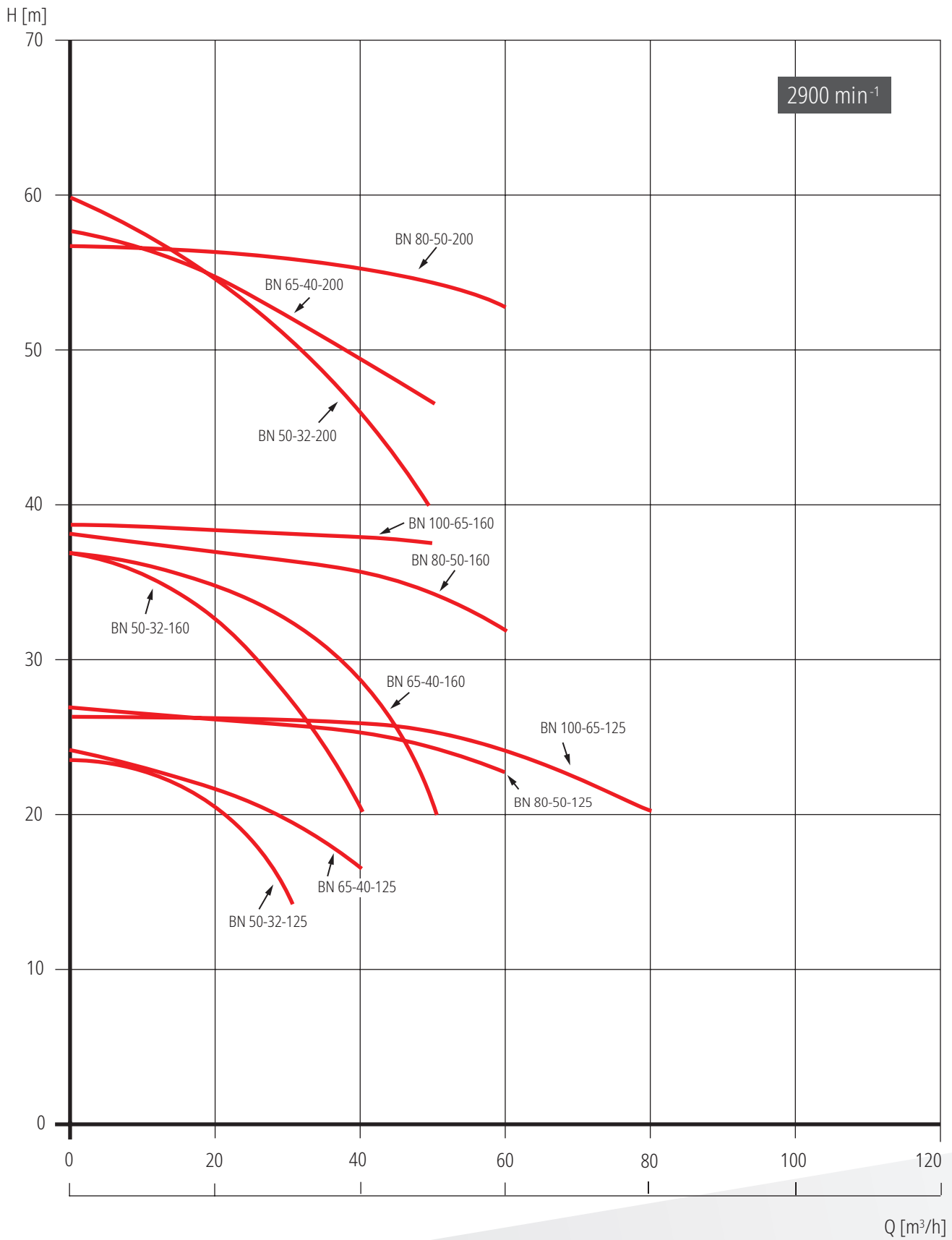
12 Chemical motor block pump BN

Characteristic curves

Horizontal, normal priming chemical motor block pump BN 1450 min⁻¹



Horizontal, normal priming chemical motor block pump BN 2900 min⁻¹

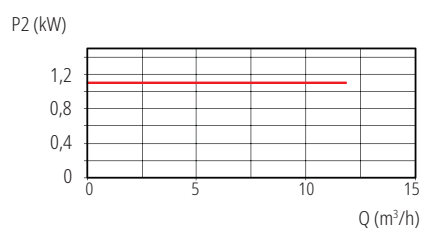
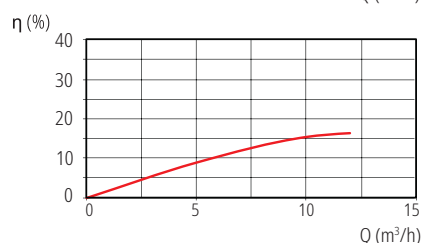
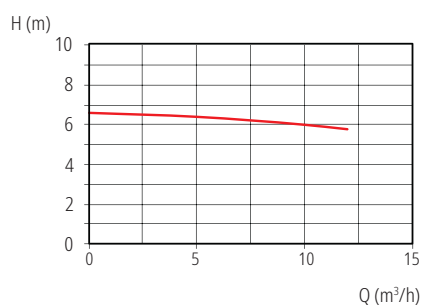


Individual characteristic curves 1450 min⁻¹

BN 50 - 32 - 125, 140 mm

Motor: 1.1 kW

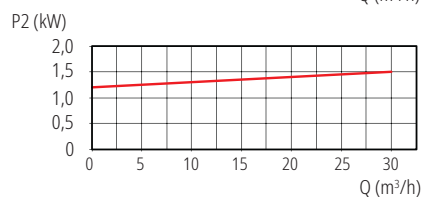
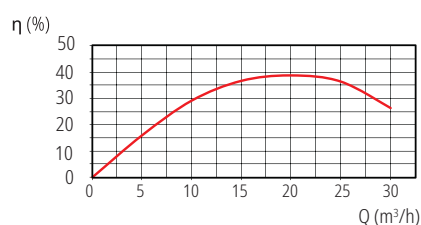
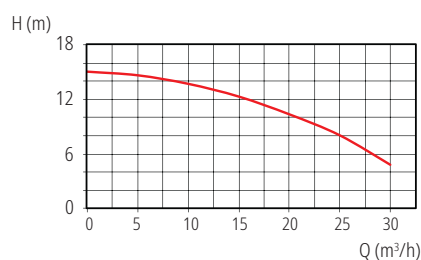
Speed: 1450 min⁻¹



BN 50 - 32 - 200, 210 mm

Motor: 1.5 kW

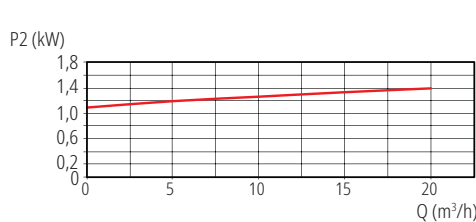
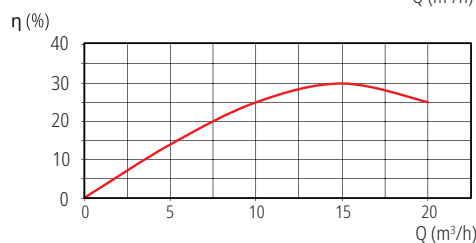
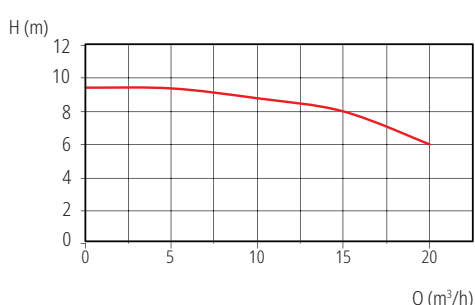
Speed: 1450 min⁻¹



BN 50 - 32 - 160, 172 mm

Motor: 1.5 kW

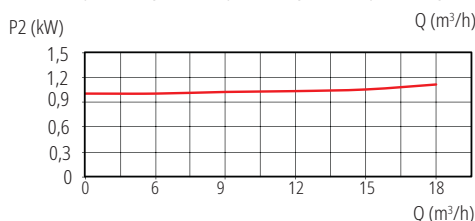
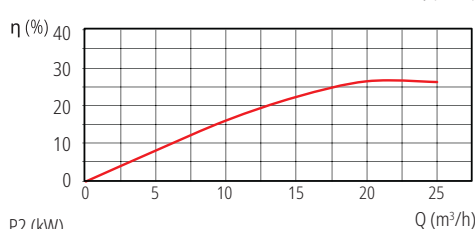
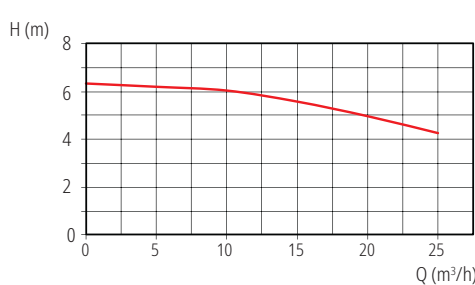
Speed: 1450 min⁻¹



BN 65 - 40 - 125, 140 mm

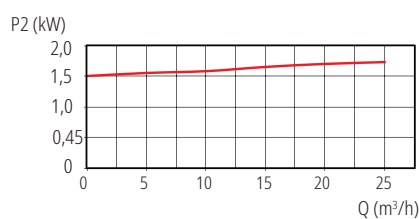
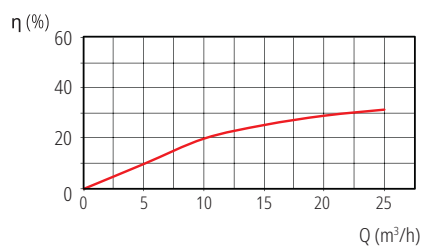
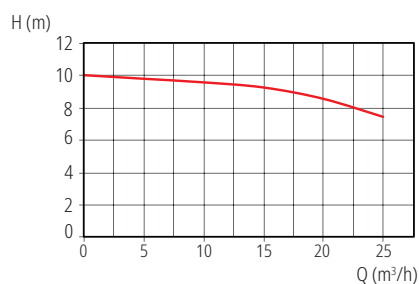
Motor: 1.5 kW

Speed: 1450 min⁻¹

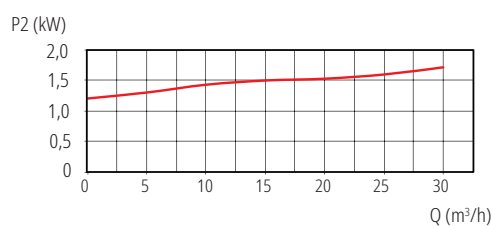
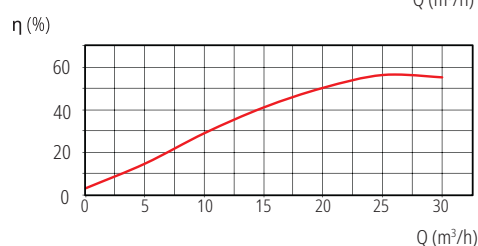
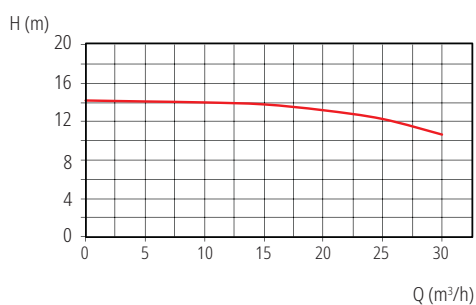


BN 65 - 40 - 160, 172 mm

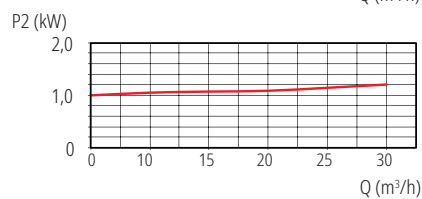
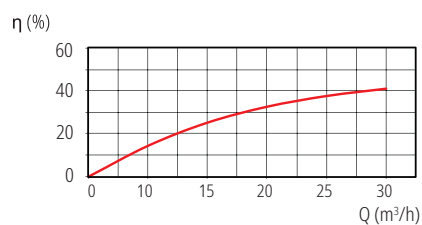
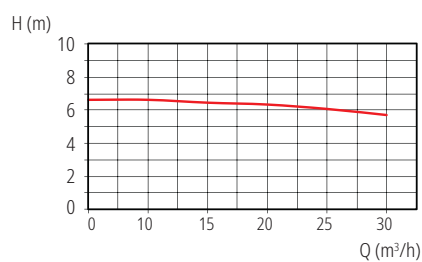
Motor: 2.2 kW

Speed: 1450 min⁻¹**BN 65 - 40 - 200, 210 mm**

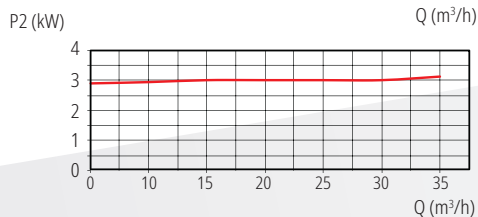
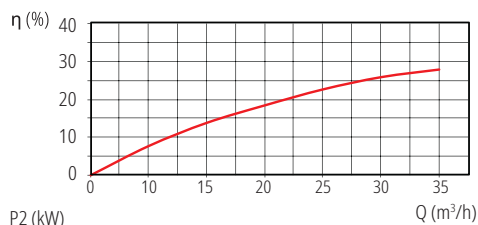
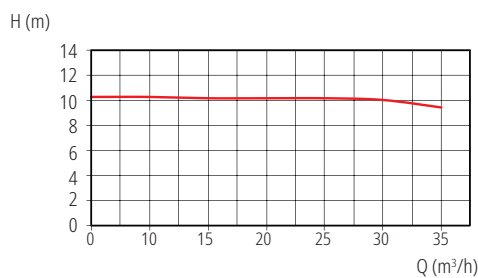
Motor: 2.2 kW

Speed: 1450 min⁻¹**BN 80 - 50 - 125, 145 mm**

Motor: 1.5 kW

Speed: 1450 min⁻¹**BN 80 - 50 - 160, 172 mm**

Motor: 4 kW

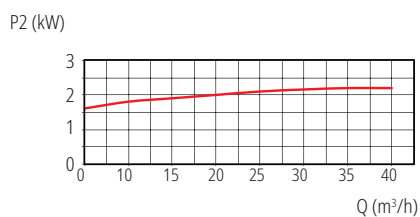
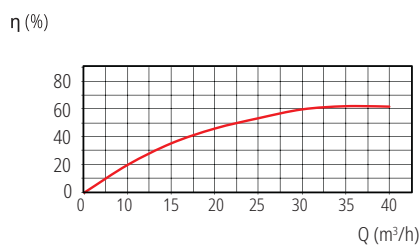
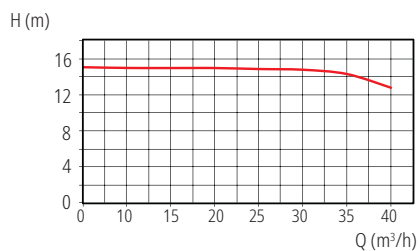
Speed: 1450 min⁻¹

Individual characteristic curves 1450 min⁻¹

BN 80 - 50 - 200, 210 mm

Motor: 3 kW

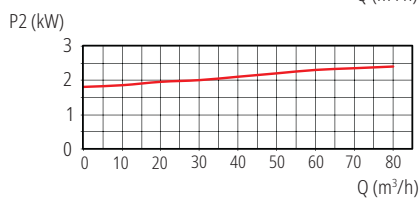
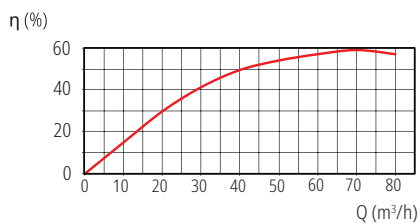
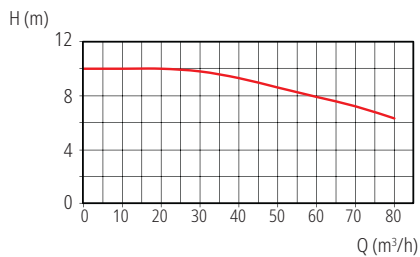
Speed: 1450 min⁻¹



BN 100 - 65 - 160, 172 mm

Motor: 3 kW

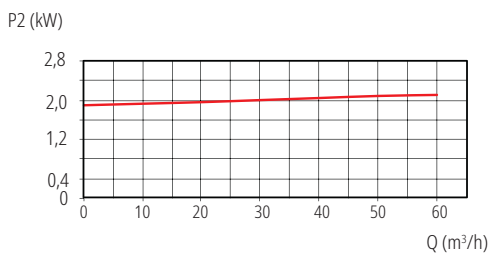
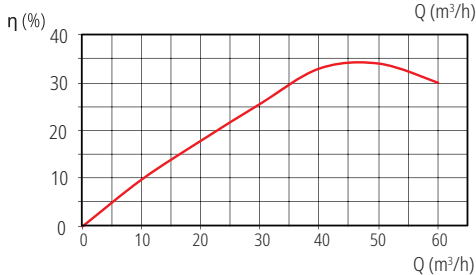
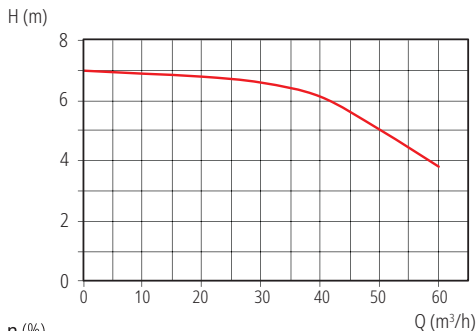
Speed: 1450 min⁻¹



BN 100 - 65 - 125 mm, 145 mm

Motor: 3 kW

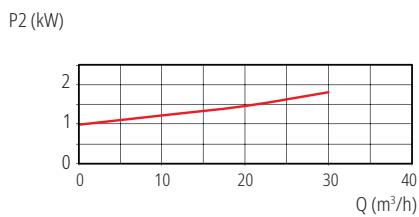
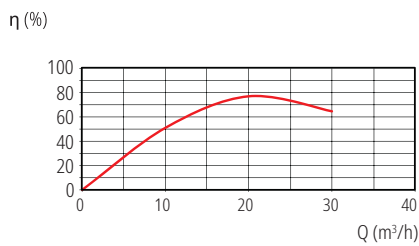
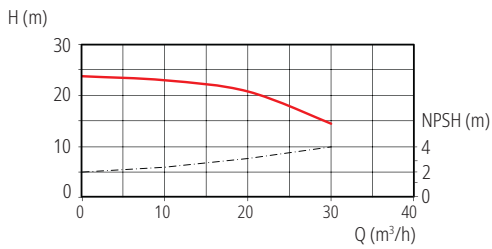
Speed: 1450 min⁻¹



Individual characteristic curves 2900 min⁻¹

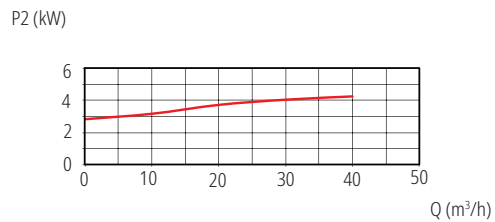
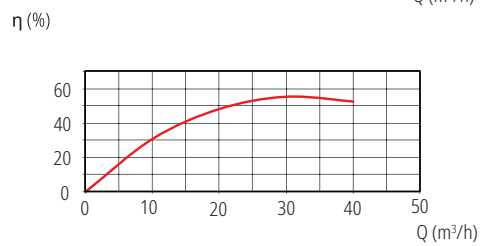
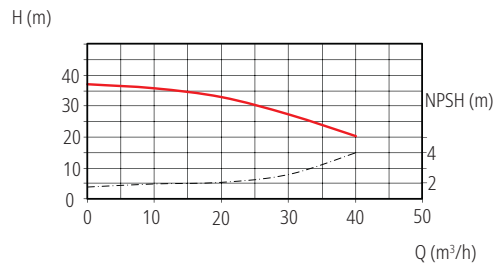
BN 50 - 32 - 125, 140 mm

Motor: 2.2 kW

Speed: 2900 min⁻¹

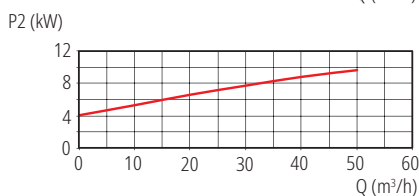
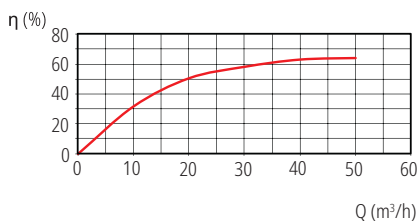
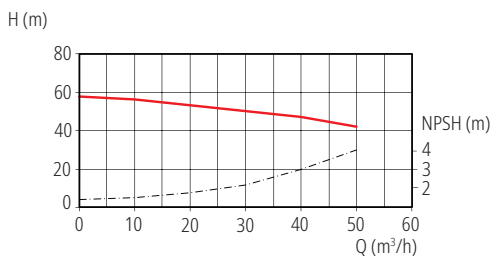
BN 50 - 32 - 160, 172 mm

Motor: 5.5 kW

Speed: 2900 min⁻¹

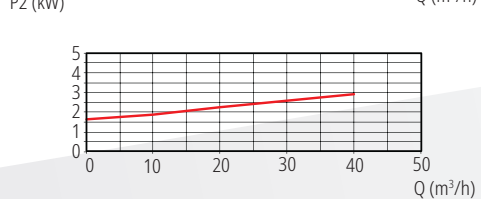
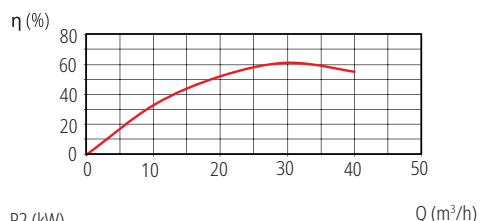
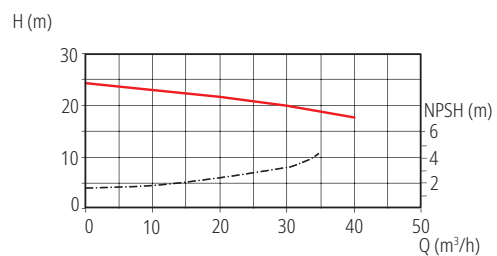
BN 50 - 32 - 200, 210 mm

Motor: 11 kW

Speed: 2900 min⁻¹

BN 65 - 40 - 125, 140 mm

Motor: 3 kW

Speed: 2900 min⁻¹

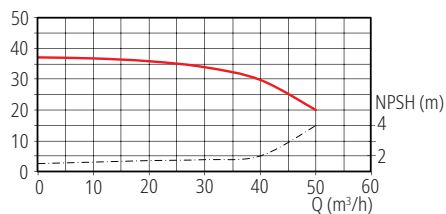
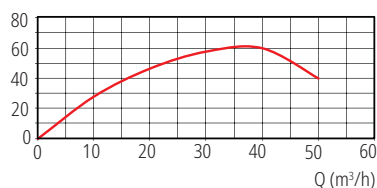
Individual characteristic curves 2900 min⁻¹

BN 65 - 40 - 160, 172 mm

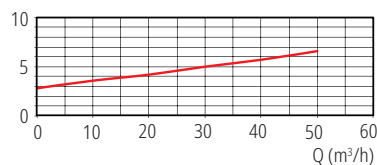
Motor: 7.5 kW

Speed: 2900 min⁻¹

H (m)

 η (%)

P2 (kW)

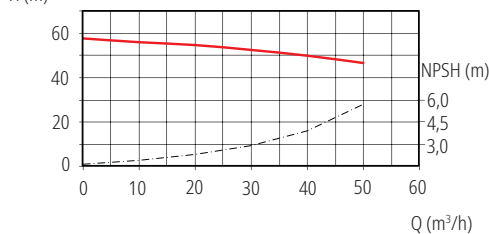
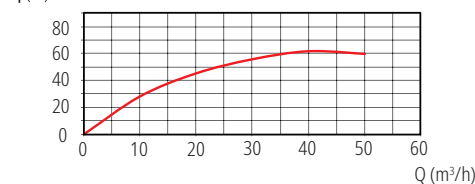


BN 65 - 40 - 200, 210 mm

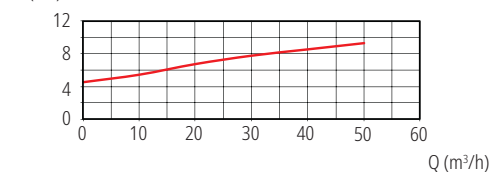
Motor: 11 kW

Speed: 2900 min⁻¹

H (m)

 η (%)

P2 (kW)

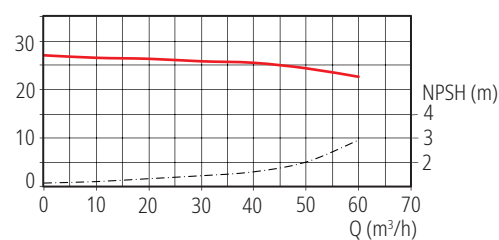
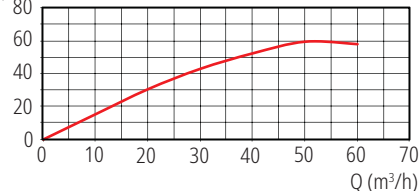


BN 80 - 50 - 125, 145 mm

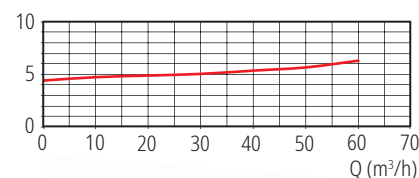
Motor: 7.5 kW

Speed: 2900 min⁻¹

H (m)

 η (%)

P2 (kW)

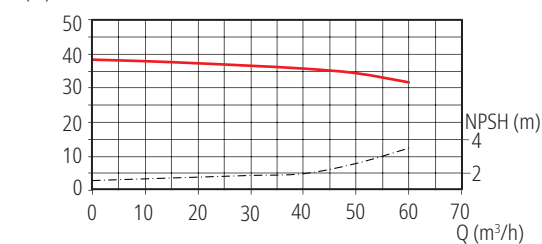
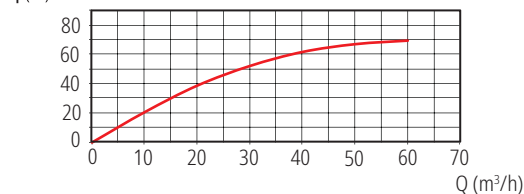


BN 80 - 50 - 160, 172 mm

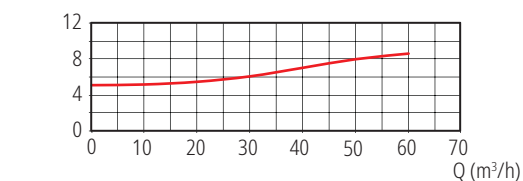
Motor: 11 kW

Speed: 2900 min⁻¹

H (m)

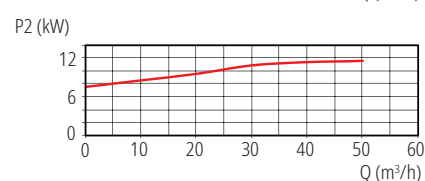
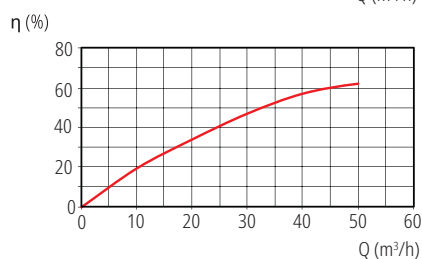
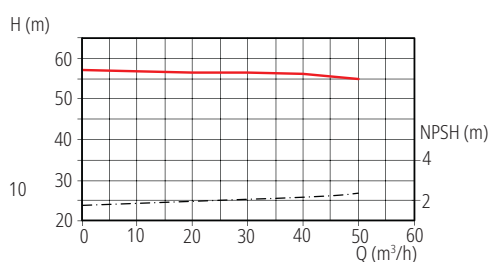
 η (%)

P2 (kW)

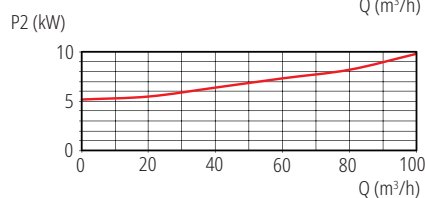
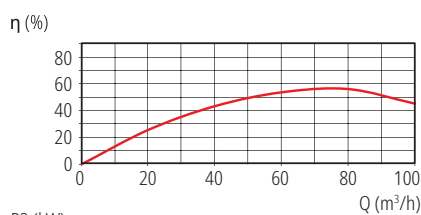
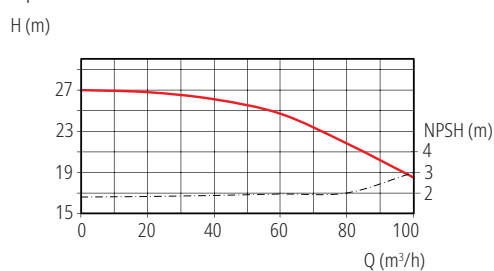


BN 80 - 50 - 200, 210 mm

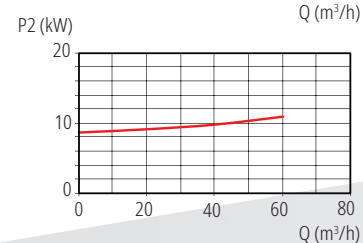
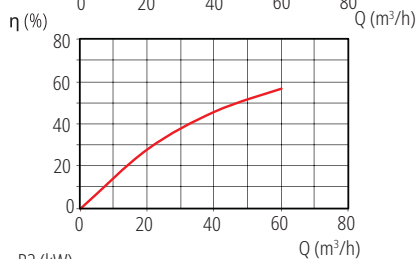
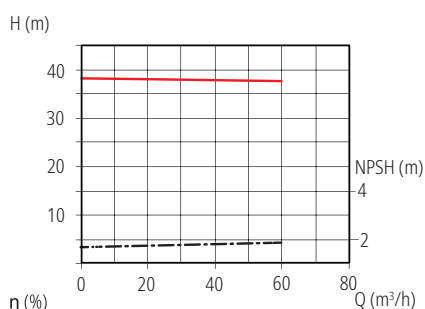
Motor: 11 kW

Speed: 2900 min⁻¹**BN 100 - 65 - 125, 145 mm**

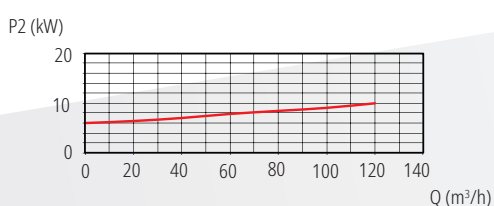
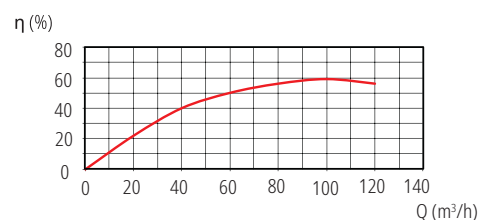
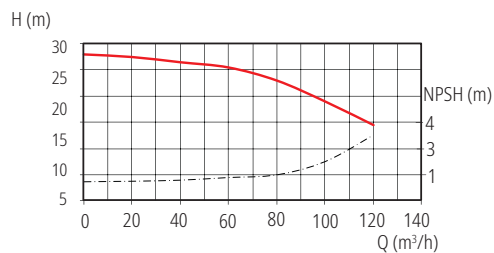
Motor: 11 kW

Speed: 2900 min⁻¹**BN 100 - 65 - 160, 172 mm**

Motor: 11 kW

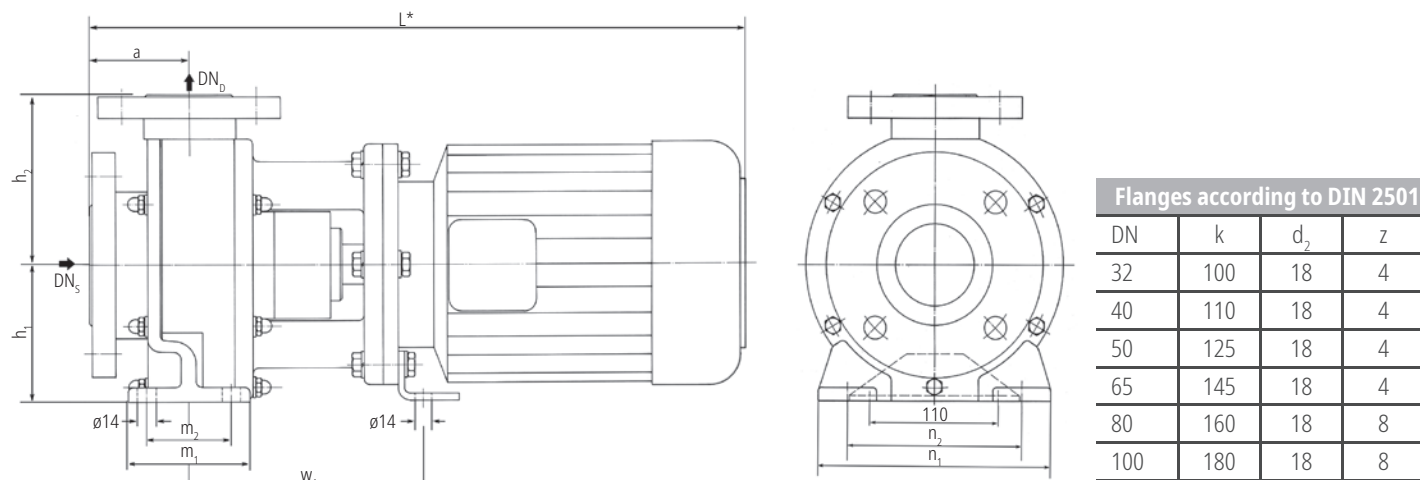
Speed: 2900 min⁻¹**BN 100 - 65 - 160, 150 mm**

Motor: 11 kW

Speed: 2900 min⁻¹

Dimensions

All dimensions in mm



Pump type	50-32-125	50-32-160	50-32-200	65-40-125	65-40-160	65-40-200
DN _D flange outlet	32	32	32	40	40	40
DN _S flange entry	50	50	50	65	65	65
a	80	80	80	80	80	100
h ₁	112	132	160	112	132	160
h ₂	140	160	180	140	160	180
m ₁	100	100	100	100	100	100
m ₂	70	70	70	70	70	70
n ₁	190	240	240	210	240	265
n ₂	140	190	190	160	190	212
w ₁	190	220	220	190	220	220
L* 1450/2900	550/560	560/640	560/640	510/560	560/640	560/660

*) at max. motor power 1450 min⁻¹ / 2900 min⁻¹

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

Pump type	80-50-125	80-50-160	80-50-200	100-65-125	100-65-160
DN _D flange outlet	50	50	50	65	65
DN _S flange entry	80	80	80	100	100
a	100	100	100	100	100
h ₁	132	160	160	160	160
h ₂	160	180	200	180	200
m ₁	100	100	100	125	125
m ₂	70	70	70	95	95
n ₁	240	265	265	280	280
n ₂	190	212	212	212	220
w ₁	220	220	220	220	220
L* 1450/2900	560/660	580/660	610/660	680/710	680/710

*) at max. motor power 1450 min⁻¹ / 2900 min⁻¹

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



Spülwa



Chemical standard pump N

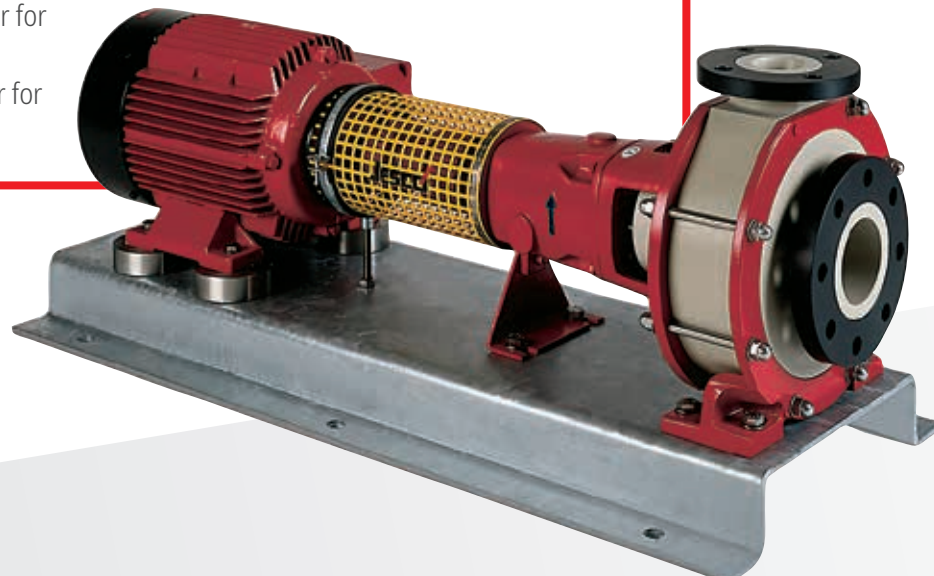
General

- 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
- 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
- Vibration-free operation
- Special designs on request

Technical data			
Model			Modular design
Materials			PP, PVDF
Max. delivery rate Q		m ³ /h	120
Max. delivery head H		m	58
Motor power at	Speed 1450 min ⁻¹	kW	1.1 – 7.5
	Speed 2900 min ⁻¹	kW	1.5 – 37
Ambient temperature		°C	5 – 40
Max. permissible media temperature depending on the medium	PP	°C	80
	PVDF	°C	120

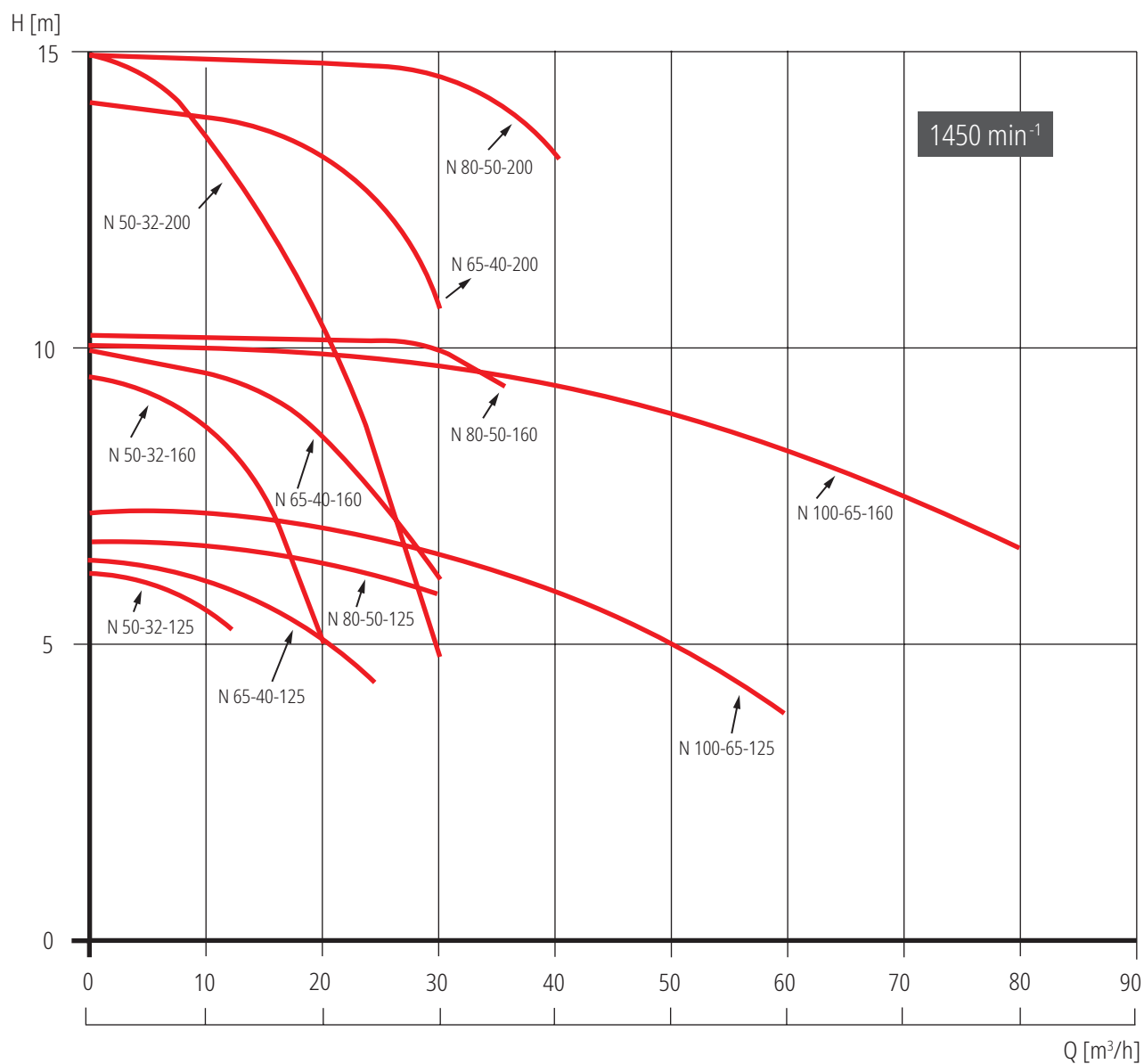
Possible seal designs

- **B2i:** Single-acting, internal mechanical seal, independent direction of rotation
- **B2Q:** Single-acting, internal mechanical seal, independent direction of rotation with quenching chamber for supply of external liquid
- **B2D:** Double acting with quenching chamber for dual active barrier and buffer fluid systems

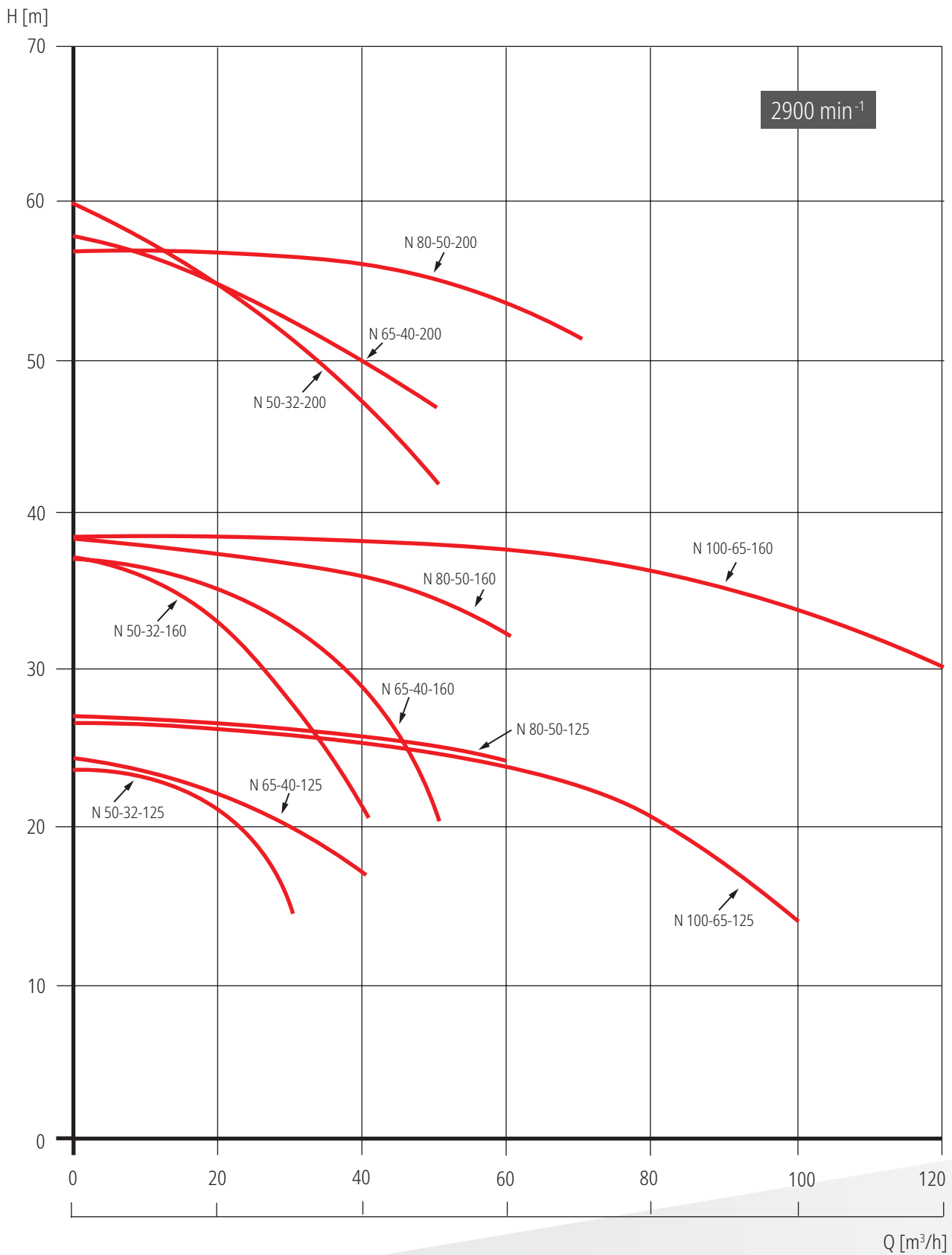


Characteristic curves

Horizontal, normal drawing chemical standard pump N 1450 min⁻¹



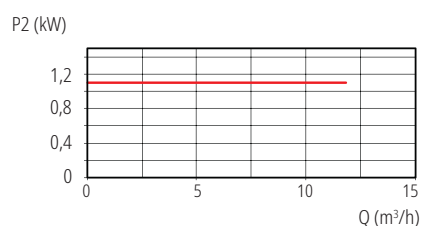
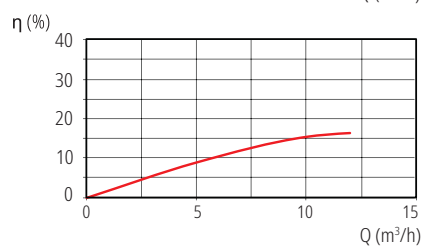
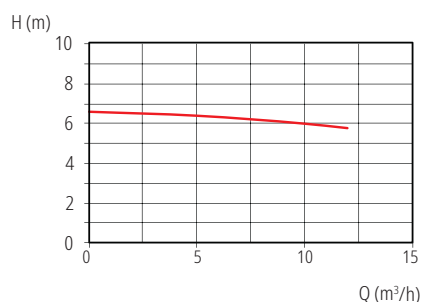
Horizontal, normal drawing chemical standard pump N 2900 min⁻¹



Individual characteristic curves 1450 min⁻¹

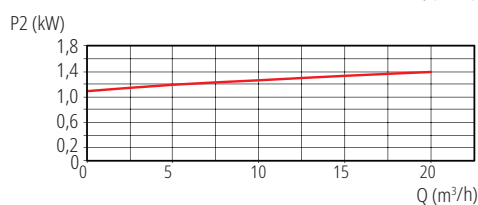
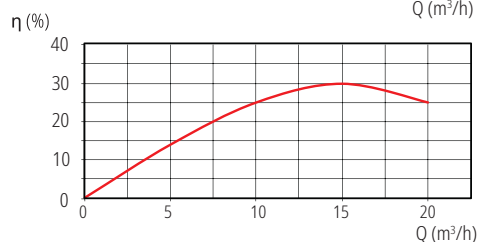
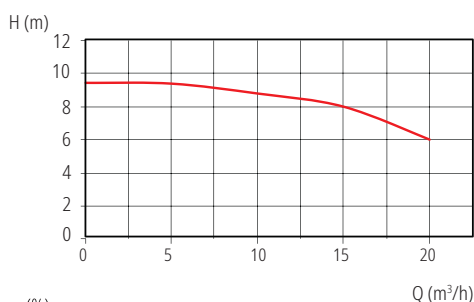
N 50 - 32 - 125, 140 mm

Motor: 1.1 kW

Speed: 1450 min⁻¹

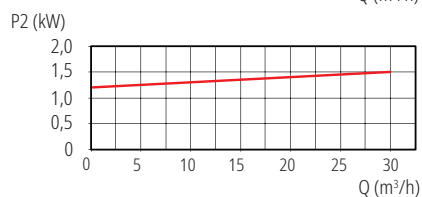
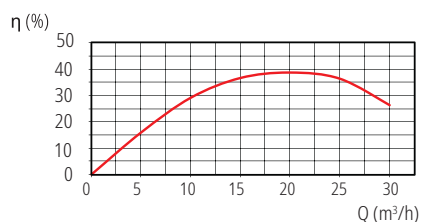
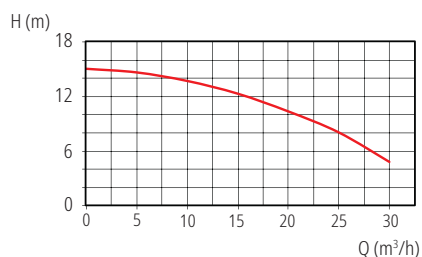
N 50 - 32 - 160, 172 mm

Motor: 1.5 kW

Speed: 1450 min⁻¹

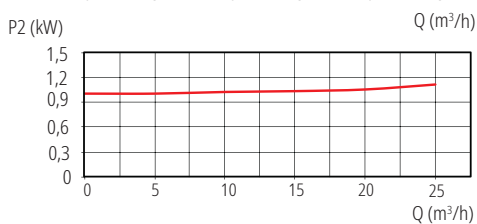
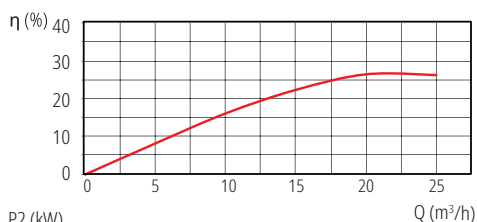
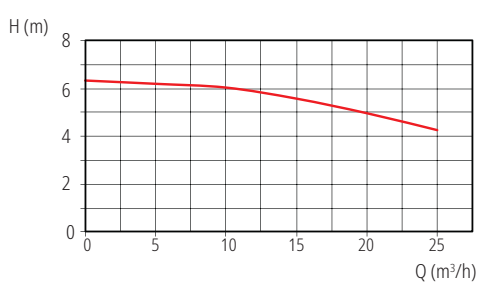
N 50 - 32 - 200, 210 mm

Motor: 1.5 kW

Speed: 1450 min⁻¹

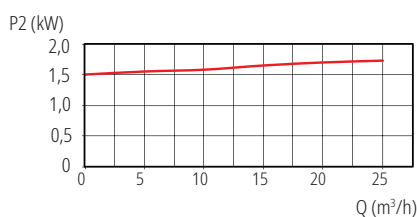
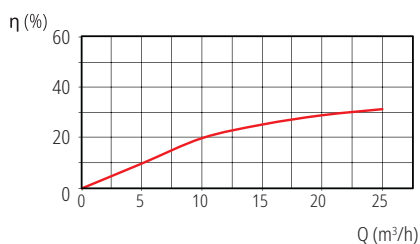
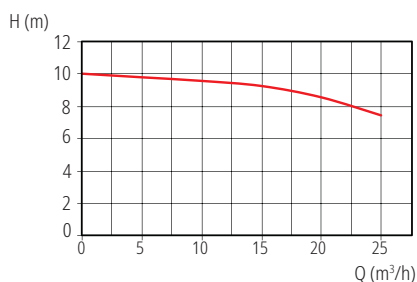
N 65 - 40 - 125, 140 mm

Motor: 1.5 kW

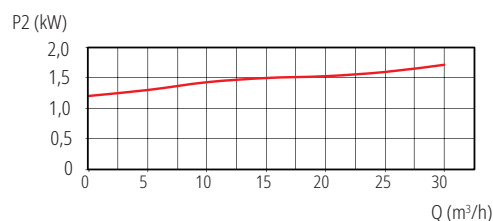
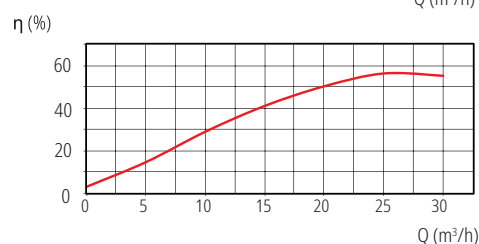
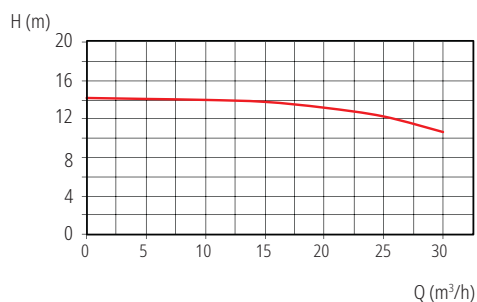
Speed: 1450 min⁻¹

N 65 - 40 - 160, 172 mm

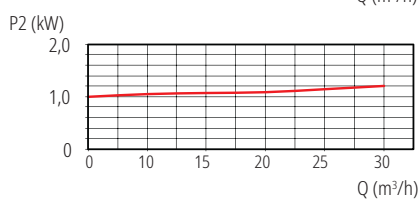
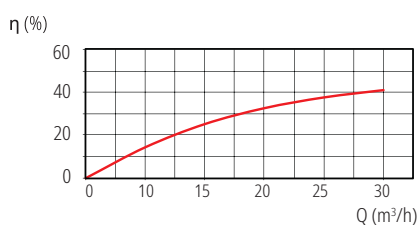
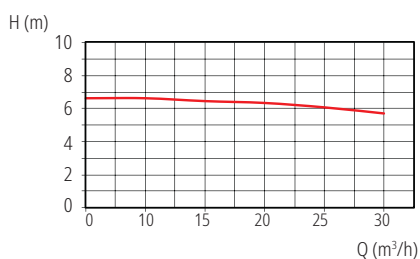
Motor: 2.2 kW

Speed: 1450 min⁻¹**N 65 - 40 - 200, 210 mm**

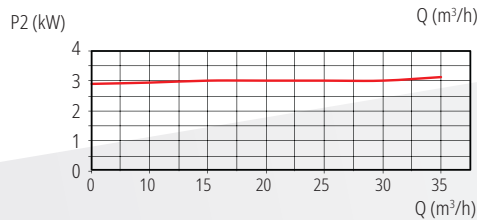
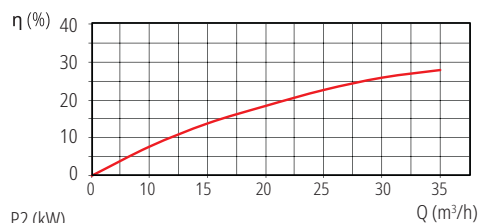
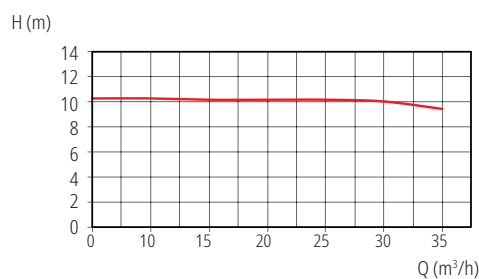
Motor: 2.2 kW

Speed: 1450 min⁻¹**N 80 - 50 - 125, 145 mm**

Motor: 1.5 kW

Speed: 1450 min⁻¹**N 80 - 50 - 160, 172 mm**

Motor: 4 kW

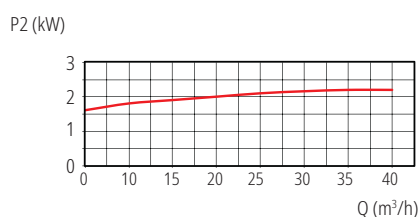
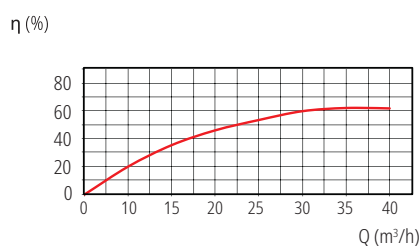
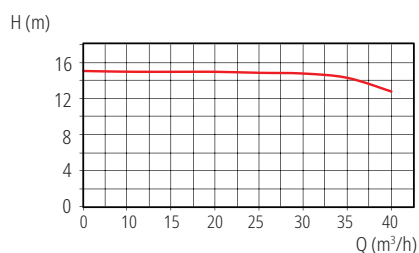
Speed: 1450 min⁻¹

Individual characteristic curves 1450 min⁻¹

N 80 - 50 - 200, 210 mm

Motor: 3 kW

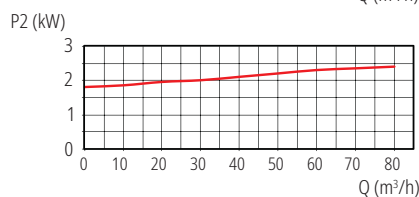
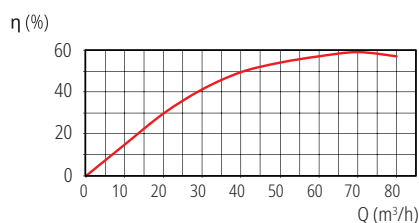
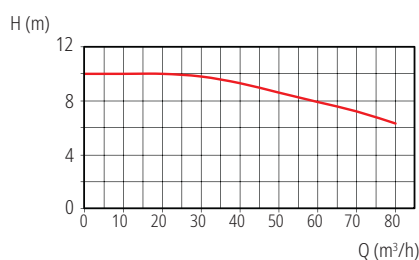
Speed: 1450 min⁻¹



N 100 - 65 - 125, 172 mm

Motor: 3 kW

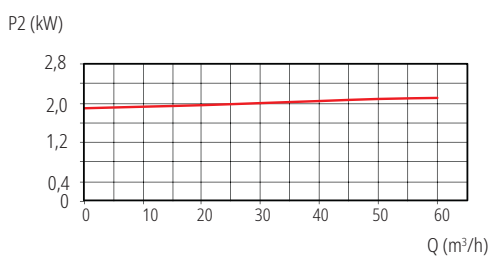
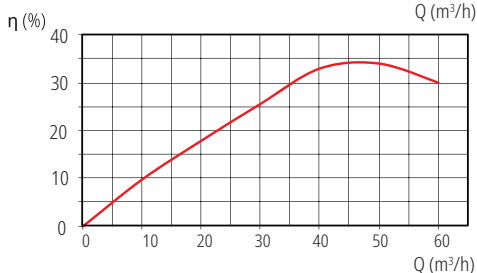
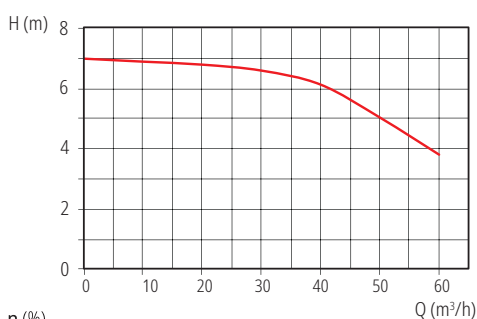
Speed: 1450 min⁻¹



N 100 - 65 - 125, 145 mm

Motor: 3 kW

Speed: 1450 min⁻¹

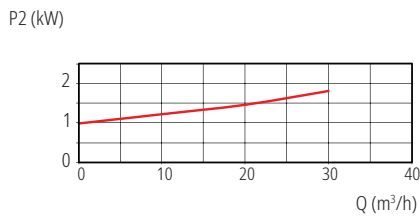
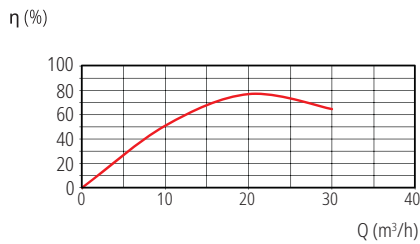
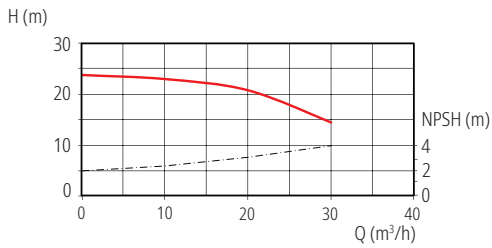


Individual characteristic curves 2900 min⁻¹

N 50 - 32 - 125, 140 mm

Motor: 2.2 kW

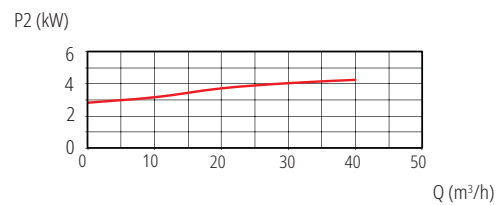
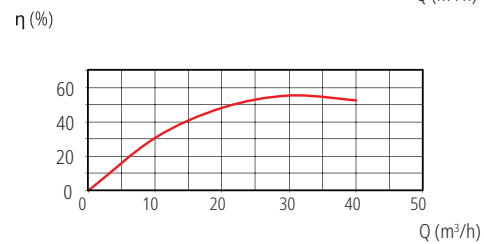
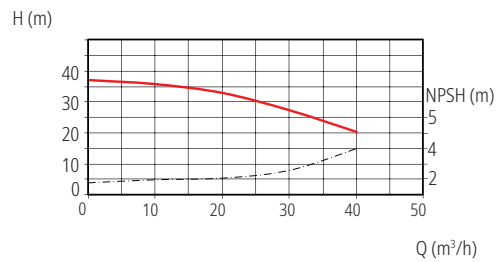
Speed: 2900 min⁻¹



N 50 - 32 - 160, 172 mm

Motor: 5.5 kW

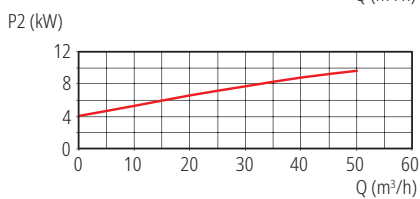
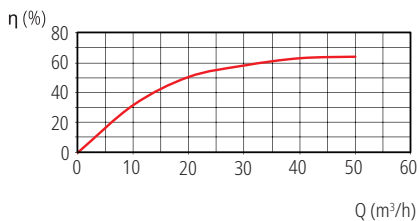
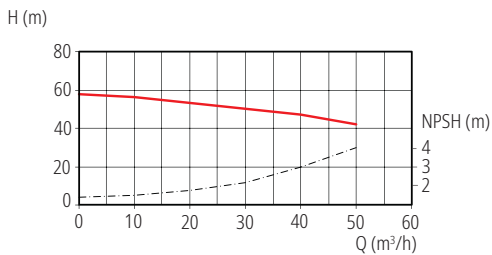
Speed: 2900 min⁻¹



N 50 - 32 - 200, 210 mm

Motor: 11 kW

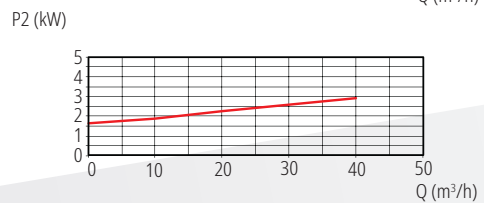
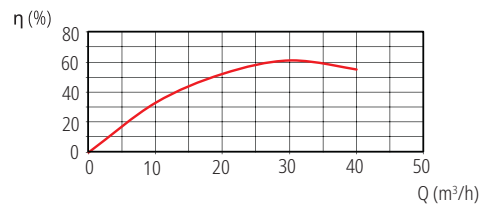
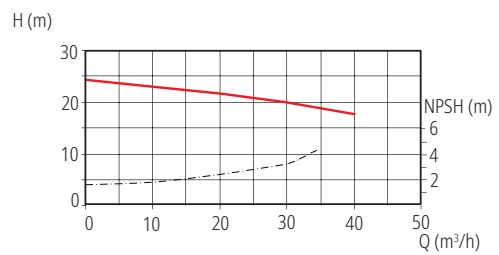
Speed: 2900 min⁻¹



N 65 - 40 - 125, 140 mm

Motor: 3 kW

Speed: 2900 min⁻¹

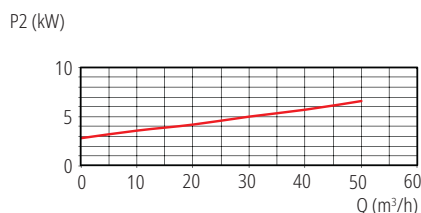
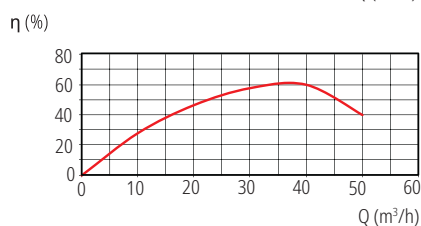
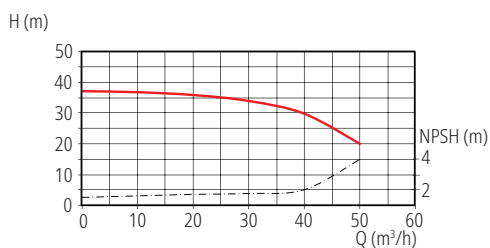


Individual characteristic curves 2900 min⁻¹

N 65 - 40 - 160, 172 mm

Motor: 7.5 kW

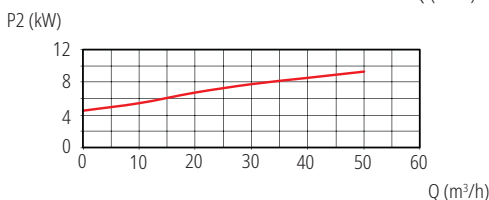
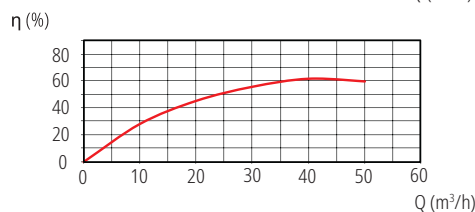
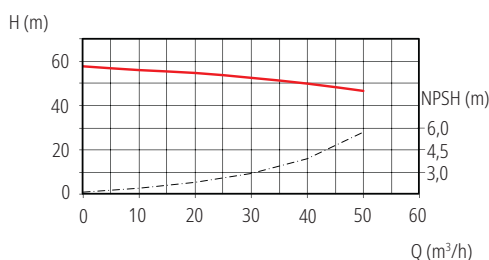
Speed: 2900 min⁻¹



N 65 - 40 - 200, 210 mm

Motor: 11 kW

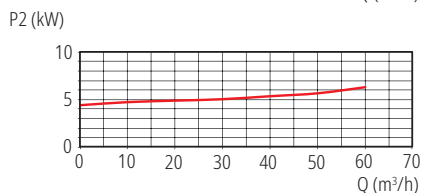
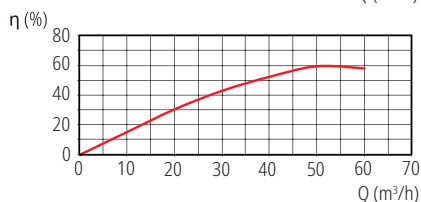
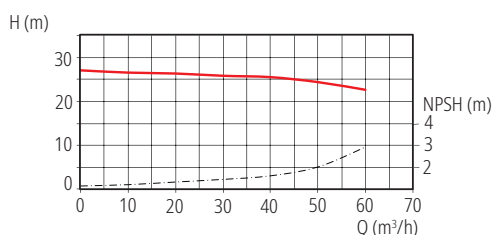
Speed: 2900 min⁻¹



N 80 - 50 - 125, 145 mm

Motor: 7.5 kW

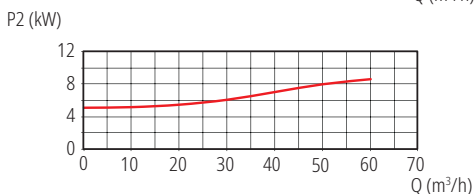
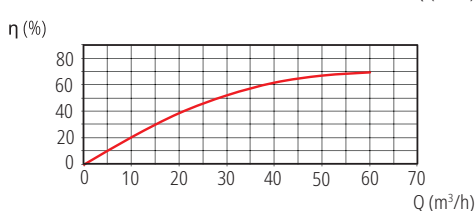
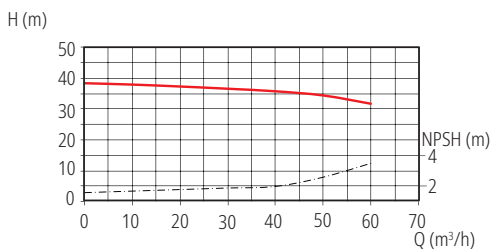
Speed: 2900 min⁻¹



N 80 - 50 - 160, 172 mm

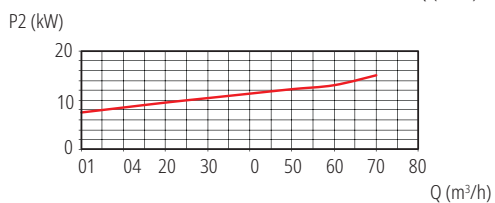
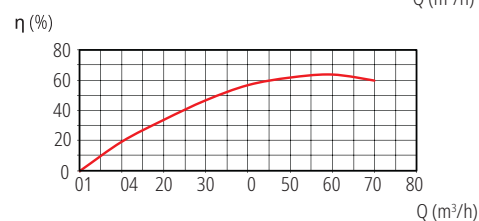
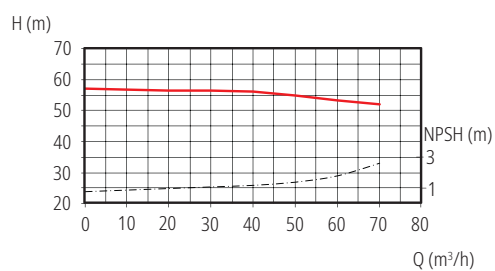
Motor: 11 kW

Speed: 2900 min⁻¹

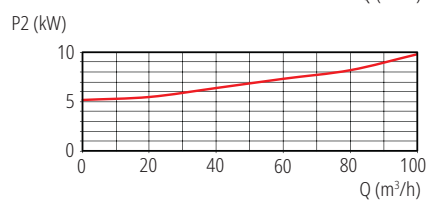
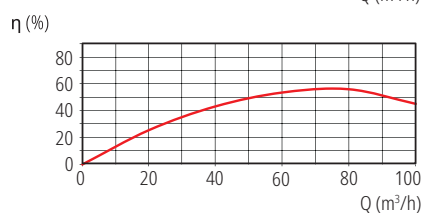
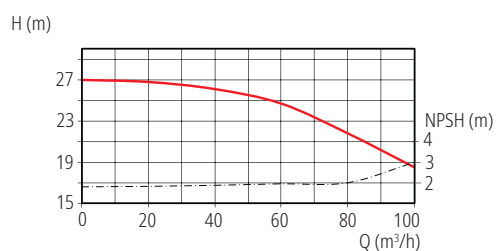


N 80 - 50 - 200, 210 mm

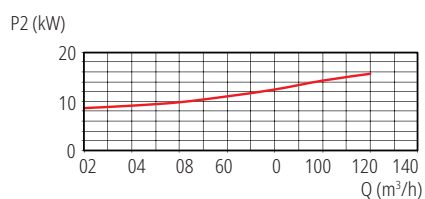
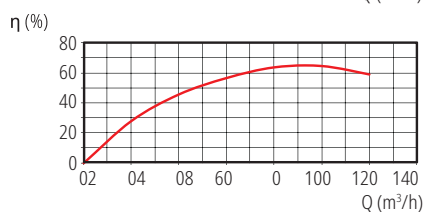
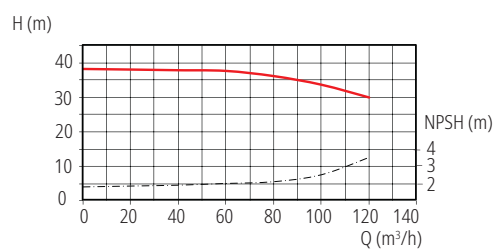
Motor: 15 kW

Speed: 2900 min⁻¹**N 100 - 65 - 125, 145 mm**

Motor: 11 kW

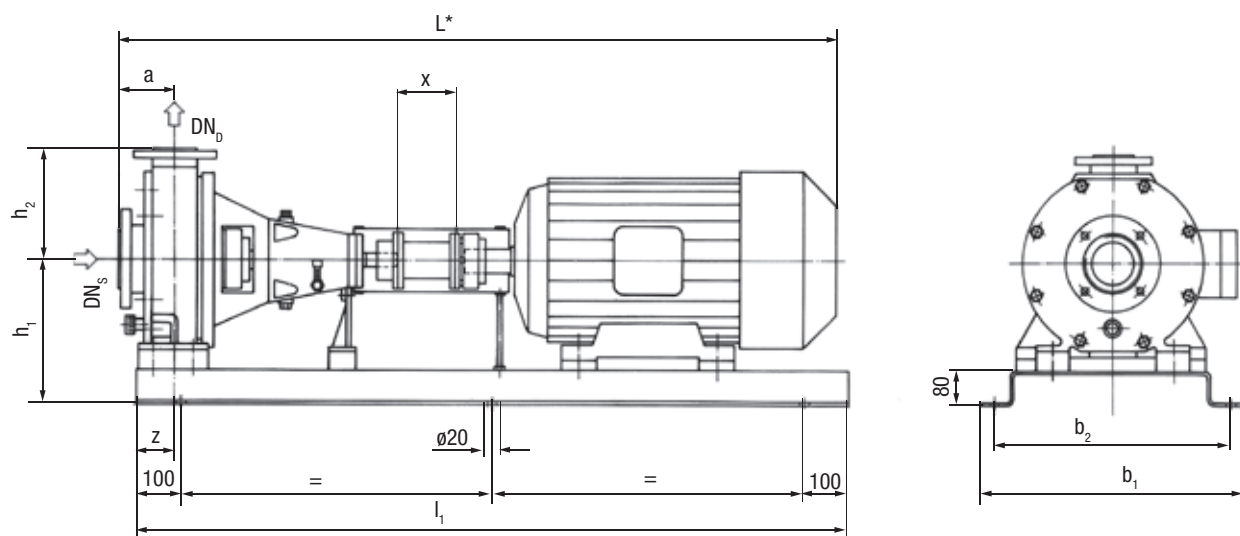
Speed: 2900 min⁻¹**N 100 - 65 - 160, 172 mm**

Motor: 15 kW

Speed: 2900 min⁻¹

Dimensions

All dimensions in mm



Pump type	50-32-125	50-32-160	50-32-200	65-40-125	65-40-160	65-40-200
DN_o flange outlet	32	32	32	40	40	40
DN_s flange entry	50	50	50	65	65	65
a	80	80	80	80	80	100
z	75	75	75	75	75	75
l_1^* 1450/2900	1000/1000	1000/1200	1000/1200	1000/1000	1000/1200	1000/1200
h_1	192	212	240	192	212	240
h_2	140	160	180	140	160	180
b_1	430	430	430	430	430	510
b_2	370	370	370	370	370	370
X	100	100	100	100	100	100
L^* 1450/2900	885/946	946/1148	946/1192	946/946	946/1148	946/1192

*) at max. motor power 1450 min⁻¹ / 2900 min⁻¹

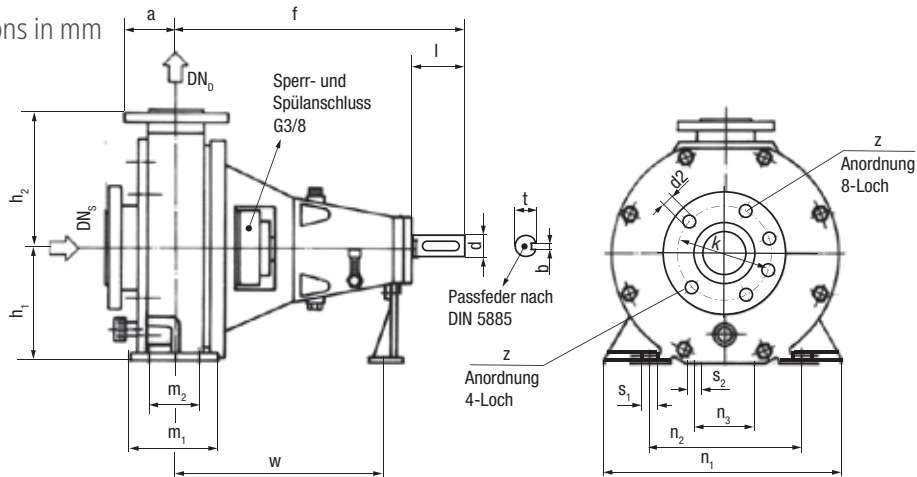
Flange connection dimensions according to DIN 2501, part 1 for PN10

Pump type	80-50-125	80-50-160	80-50-200	100-65-125	100-65-160
DN_o flange outlet	50	50	50	65	65
DN_s flange entry	80	80	80	100	100
a	100	100	100	100	100
z	75	75	75	87.5	87.5
l_1^* 1450/2900	1000/1200	1000/1200	1000/1400	1000/1200	1000/1400
h_1	212	240	240	240	240
h_2	160	180	200	180	200
b_1	430	430	430	510	510
b_2	370	370	370	370	450
X	75	75	75	87.5	87.5
L^* 1450/2900	946/1148	1028/1192	1028/1485	1028/1148	1028/1485

*) at max. motor power 1450 min⁻¹ / 2900 min⁻¹

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

All dimensions in mm



Flanges according to DIN 2501

DN	k	d ₂	z
32	100	18	4
40	110	18	4
50	125	18	4
65	145	18	4
80	160	18	8
100	180	18	8

Pump type		50-32-125	50-32-160	50-32-200	65-40-125	65-40-160	65-40-200
Flange connection dimensions according to DIN 2501, part 1 for PN10	DN _o outlet	32	32	32	40	40	40
	DN _s entry	50	50	50	65	65	65
Pump dimensions	a	80	80	80	80	80	100
	f	385	385	385	385	385	385
	h ₁	112	132	160	112	132	160
	h ₂	140	160	180	140	160	180
Shaft end DIN 748	d	24	24	24	24	24	24
	l	50	50	50	50	50	50
	t	27	27	27	27	27	27
	b	8	8	8	8	8	8
Foot dimensions	m ₁	100	100	100	100	100	100
	m ₂	70	70	70	70	70	70
	n ₁	190	240	240	210	240	265
	n ₂	140	190	190	160	190	212
	n ₃	110	110	110	110	110	110
Foot dimensions for screws	s ₁	M12	M12	M12	M12	M12	M12
	s ₂	M12	M12	M12	M12	M12	M12
Foot dimensions	w	285	285	285	285	285	285

Pump type		80-50-125	80-50-160	80-50-200	100-65-125	100-65-160
Flange connection dimensions according to DIN 2501, part 1 for PN10	DN _o outlet	50	50	50	65	65
	DN _s entry	80	80	80	100	100
Pump dimensions	a	100	100	100	100	100
	f	385	385	385	385	500
	h ₁	132	160	160	160	160
	h ₂	160	180	200	180	200
Shaft end DIN 748	d	24	24	24	24	32
	l	50	50	50	50	80
	t	27	27	27	27	35
	b	8	8	8	8	10
Foot dimensions	m ₁	100	100	100	125	125
	m ₂	70	70	70	95	95
	n ₁	240	265	265	280	280
	n ₂	190	212	212	212	212
	n ₃	110	110	110	110	110
Foot dimensions for screws	s ₁	M12	M12	M12	M12	M12
	s ₂	M12	M12	M12	M12	M12
Foot dimensions	w	285	285	285	285	370



Magnetically coupled chemical centrifugal pump TMB

General

- Small dimensions
- Corrosion-resistant, suitable for hypochlorite solutions, bromine and chromium compounds
- Ideal for mobile use

Technical data			
Model			Block construction
Materials			PP (GF), ECTFE (CF)
Max. delivery rate Q	m ³ /h		3.9
Max. delivery head H	m		8
Max. density	kg/dm ³		1.1
Motor rating IEC	W		25 – 97
Ambient temperature		°C	0 – 40
Max. permissible media temperature depending on the medium	PP	°C	60
	ECTFE	°C	100

Bearing system

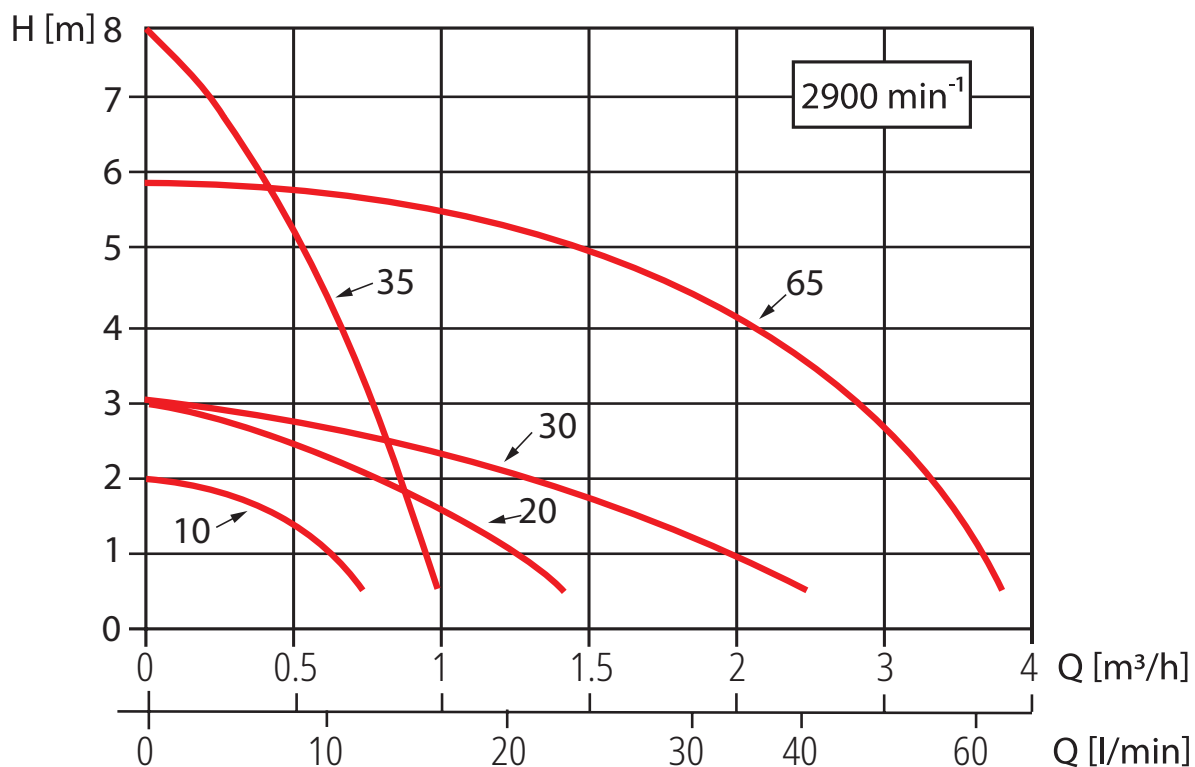
N Corrosion-resistant

Suitable for hypochlorite solutions, bromine and chromium compounds through the use of PTFE plain bearings



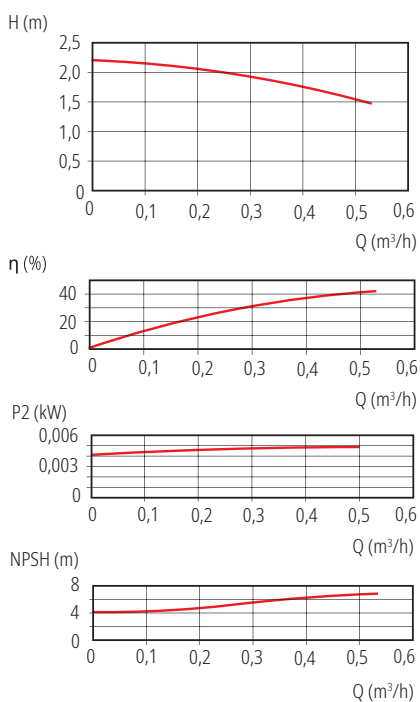
Characteristic curves

Magnetically coupled chemical centrifugal pump TMB



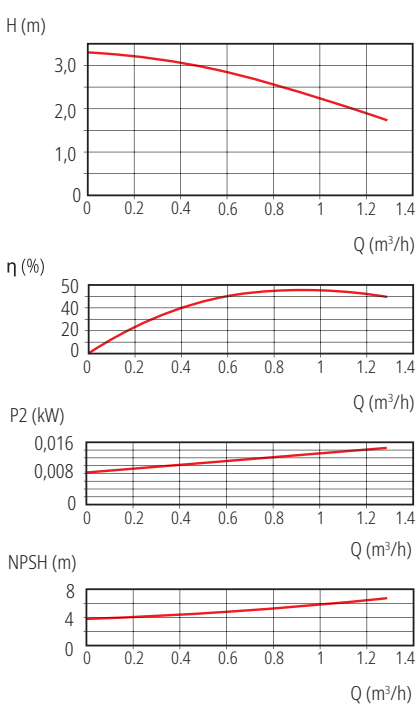
TMB 10

Frequency: 50 Hz
Speed: 2900 min⁻¹



TMB 20

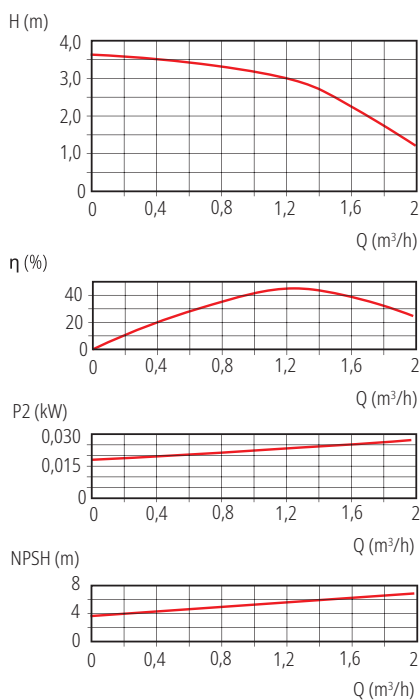
Frequency: 50 Hz
Speed: 2900 min⁻¹



Individual characteristic curves

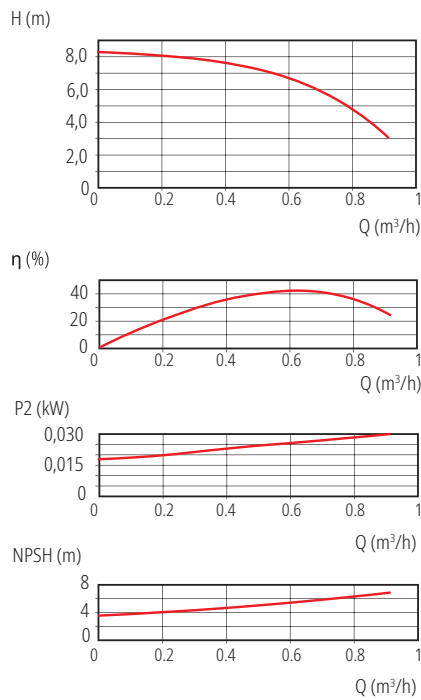
TMB 30

Frequency: 50 Hz
Speed: 2900 min⁻¹



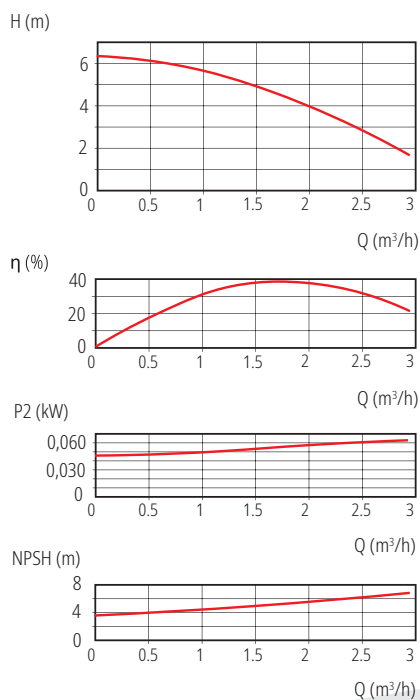
TMB 35

Frequency: 50 Hz
Speed: 2900 min⁻¹



TMB 65

Frequency: 50 Hz
Speed: 2900 min⁻¹



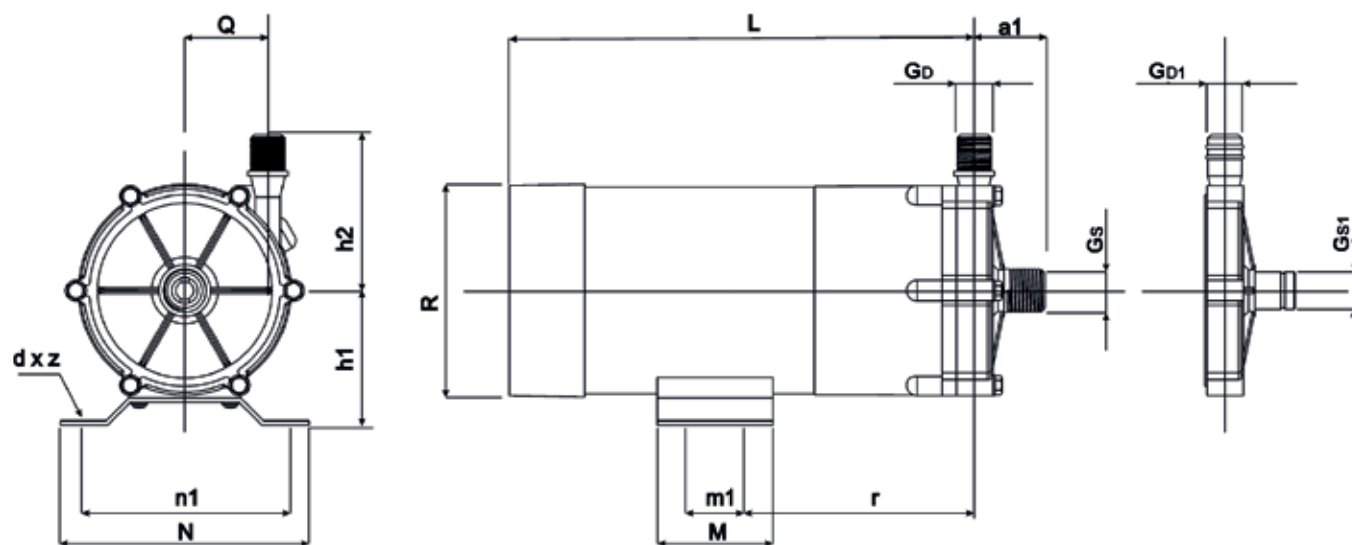
Technical data

Type		TMB 10	TMB 20, 30, 35, 65	TMB 35
Version		WR	WR	GF
Pump housing		Polypropylene (fibre glass reinforced)	Polypropylene (fibre glass reinforced)	ECTFE (carbon fibre reinforced)
Rear casing				
Impeller				
Operating temperature	°C	0 to +60	0 to +60	0 to +100
Ambient temperature	°C	0 to +40	0 to +40	0 to +40
Bearing system		N ₁	N ₁	N ₁
Bearings		-	PTFE	PTFE
Shaft		Ceramic	Ceramic	Ceramic
Thrust ring		PTFE	Ceramic	Ceramic
Seal		FPM or EPDM	FPM or EPDM	FPM or EPDM
Screws		Stainless steel	Stainless steel	Stainless steel

		TMB 10	TMB 20	TMB 30	TMB 35	TMB 65
G _D thread outlet		-	G3/4 male	G3/4 male	G3/8 male	G1 male
G _S thread entry		-	G3/4 male	G3/4 male	G1/2 male	G1 male
G _D hose nozzle outlet	mm	14	-	-	-	-
G _S hose nozzle entry	mm	14	-	-	-	-
Motor rating (IEC) 50/60 Hz	W	25/29	29/39	57/73	57/73	97/134
Motor		1~, 220 – 240 V/50 – 60 Hz				

Dimensions

All dimensions in mm



Pump type	TMB 10	TMB 20	TMB 30	TMB 35	TMB 65
G _D thread outlet	-	G3/4 male	G3/4 male	G3/8 male	G1 male
G _S thread entry	-	G3/4 male	G3/4 male	G1/2 male	G1 male
G _{D1} hose nozzle outlet	14	-	-	-	-
G _{S1} hose nozzle entry	14	-	-	-	-
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 5x4	Ø 6x4	Ø 8x4	Ø 8x4	Ø 8x4

Magnetically coupled chemical centrifugal pump AM

General

- Single-stage, normal-priming magnetically coupled horizontal pump
- Small dimensions
- pipe line connections suction and pressure side with thread (DIN flange on request)
- Media-dependent bearing system
- Special designs on request

Technical data			
Model		Block construction	
Materials		PP (GF), ECTFE (CF)	
Max. delivery rate Q	m ³ /h	12	
Max. delivery head H	m	12	
Max. density	kg/dm ³	1.8	
Motor output with speed 2900 min ⁻¹	kW	0.18 – 1.1	
Ambient temperature	°C	0 – 40	
Max. permissible media temperature depending on the medium	PP	°C	80
	ECTFE	°C	100

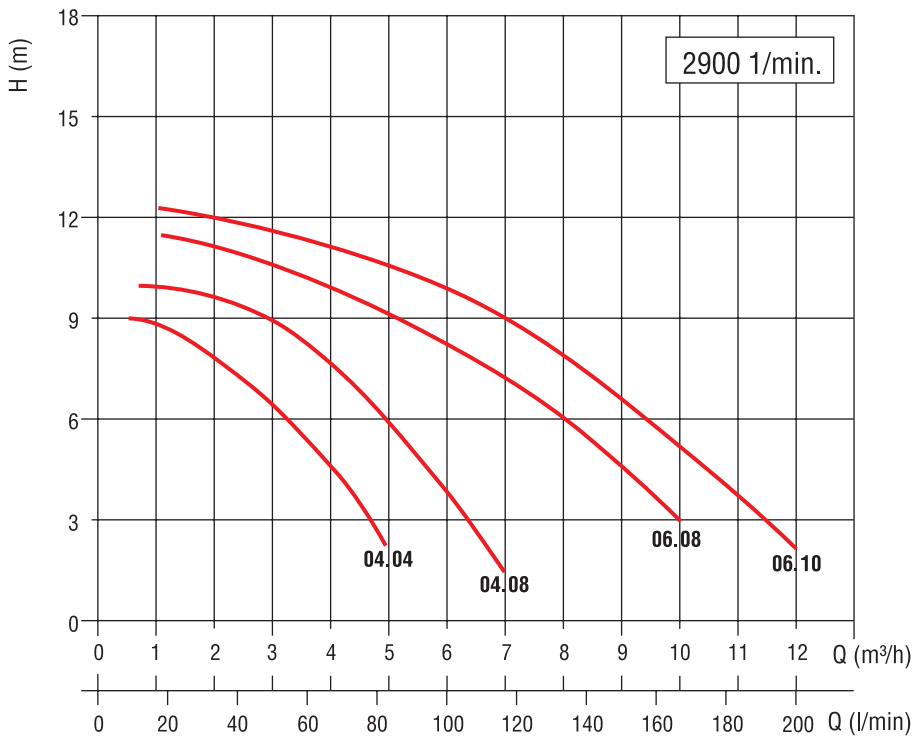
Possible bearing systems

- **R** Only conditionally suitable for dry running
Conditionally suitable for dry running through use of HD-carbon plain bearings.
- **N** Corrosion-resistant
Suitable for hypochlorite solutions, bromine and chromium compounds through the use of PTFE plain bearings.
- **X** Suitable for solids
Suitable for solids through the use of silicon carbide plain bearings.



Characteristic curves

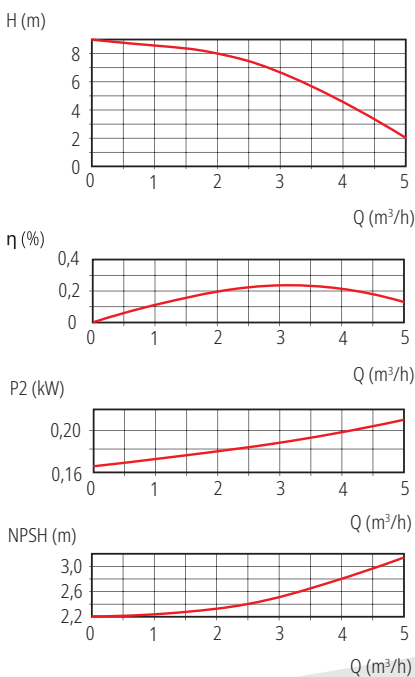
Magnetically coupled chemical centrifugal pump AM



Individual characteristic curves

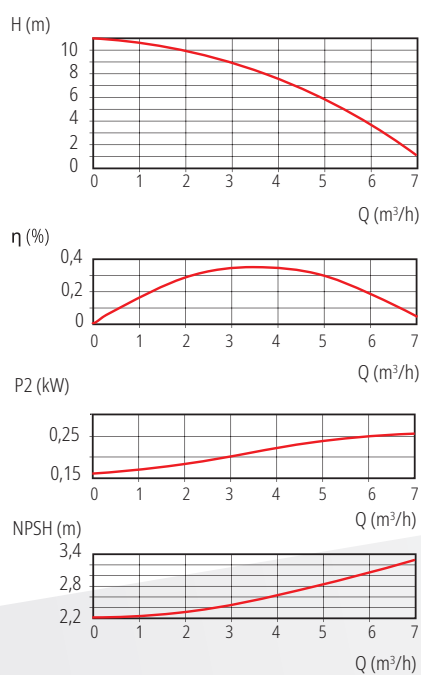
AM 04.04

Frequency: 50 Hz
Speed: 2900 min⁻¹



AM 04.08

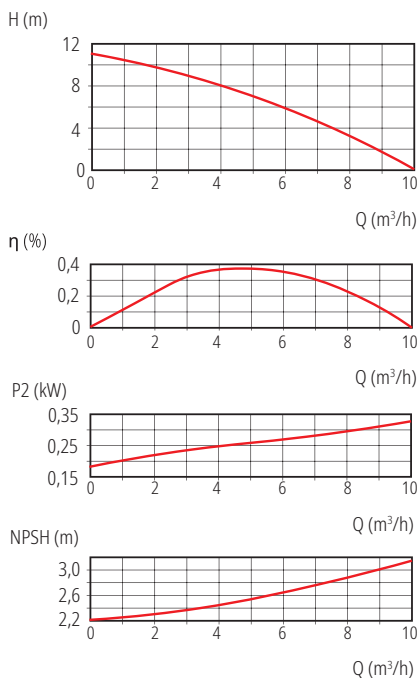
Frequency: 50 Hz
Speed: 2900 min⁻¹



Individual characteristic curves

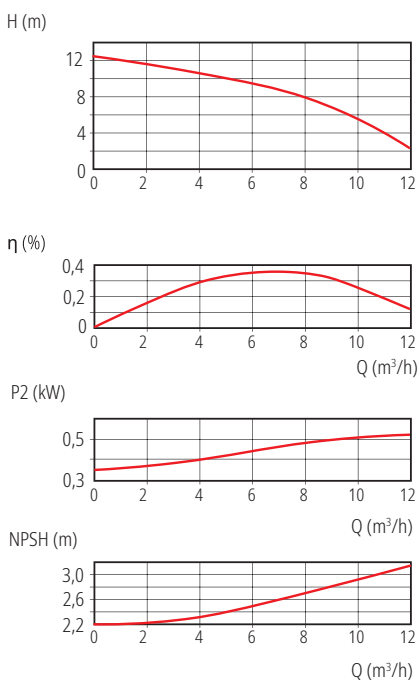
AM 06.08

Frequency: 50 Hz
Speed: 2900 min⁻¹



AM 06.10

Frequency: 50 Hz
Speed: 2900 min⁻¹



Technical data

Version		WR			GF			GX (on request)	
Equipment category 2 (in accordance with ATEX)		No			No			Yes	
Pump housing		Polypropylene (fibre glass reinforced)			ECTFE (carbon fibre reinforced)			ECTFE (carbon fibre reinforced)	
Rear casing									
Impeller									
Operating temperature	°C	-5 to +80			-20 to +100			-20 to +100	
Ambient temperature	°C	0 to +40			-20 to +40			-20 to +40	
Bearing system		R ₁	X ₁	N ₁	R ₂	X ₂	N ₂	R ₂	N ₂
Bearings		HD carbon	SiC	PTFE	HD carbon	SiC	PTFE	HD carbon	PTFE
Shaft		Ceramic			SiC			SiC	
Thrust ring		Ceramic			SiC			SiC	
Seal ¹		FPM or EPDM			FPM or EPDM			FPM or EPDM	
Screws		Stainless steel			Stainless steel			Stainless steel	

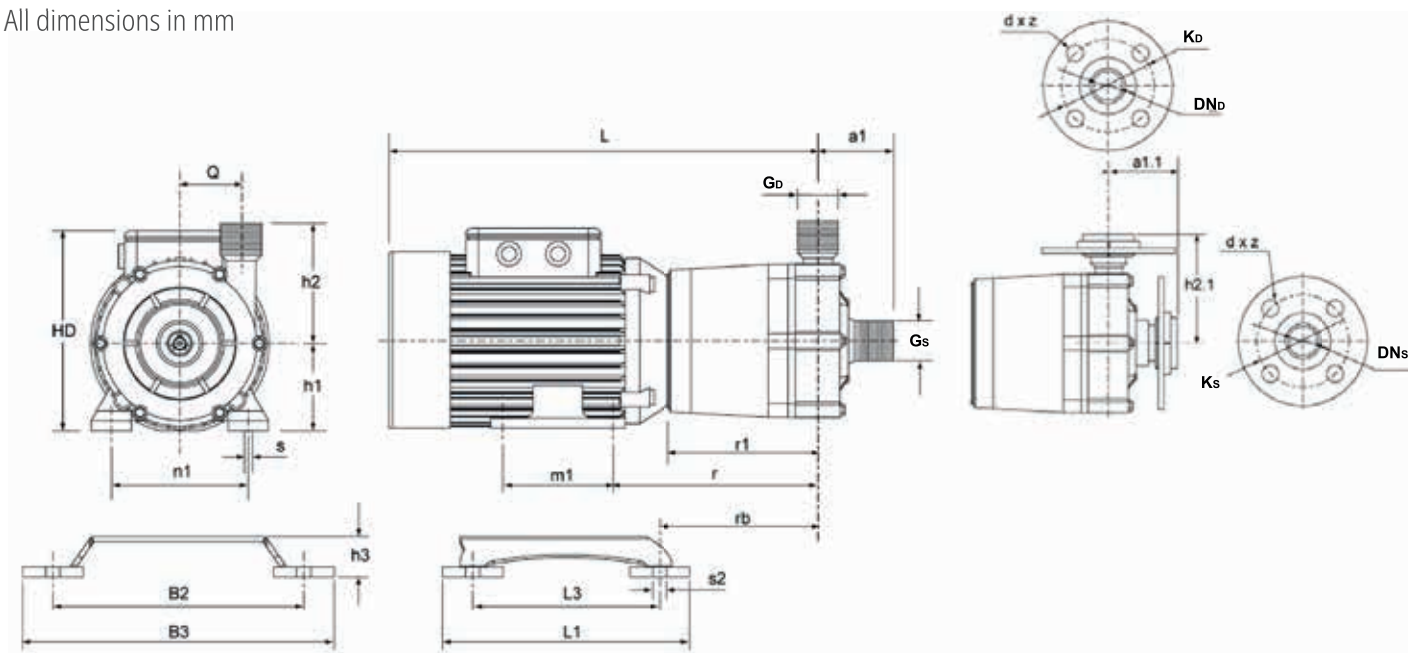
¹FFKM on request

Pump type		04.04			04.08			06.08			06.10		
Motor version		N	P	S	N	P	S	N	P	S	N	P	S
G _D thread outlet		G3/4 male			G1 male			G1 1/4 male			G1 1/4 male		
G _S thread entry		G3/4 female			G1 male			G1 1/4 male			G1 1/4 male		
Inflow and outflow flange	DN	-			25			32			32		
Max. density	kg/dm ³	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 rating (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~, 400 V/50 Hz, IP55 (1~, 230 V/50 Hz) ²											

²1~, 230 V/50 Hz on request

Dimensions

All dimensions in mm



Pump type	04.04			04.08			06.08			06.10		
Motor version	N	P	S	N	P	S	N	P	S	N	P	S
G _d thread outlet	G3/4 male			G1 male			G1 1/4 male			G1 1/4 male		
G _s thread entry	G3/4 female			G1 male			G1 1/4 male			G1 1/4 male		
DN _d flange outlet	-			25			32			32		
DN _s flange entry	-			25			32			32		
K _d (ISO)	-			85			100			100		
K _s (ISO)	-			86			100			100		
K _d (ANSI)	-			79			89			89		
K _s (ANSI)	-			79			89			89		
d x z (ISO)	-			Ø14x4			Ø14x4			Ø14x4		
d x z (ANSI)	-			Ø16x4			Ø16x4			Ø16x4		
a ₁	62			62			62			62		
a _{1.1}	-			70			70			70		
Q	47			49			53			53		
h ₂	100			100			100			100		
h _{2.1}	-			108			108			108		
L*	330	330	348	330	348	348	348	348	388	348	388	388
h ₁	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 ₁	80	80	90	80	90	90	90	90	100	90	100	100
n ₁	100	100	112	100	112	112	112	112	125	112	125	125
r ₁	123			123			123	123	133	123	133	133
r	163	163	163	163	168	168	168	168	183	168	183	183
rb	135			135			135	135	145	135	145	145
s	Ø7			Ø7			Ø7	Ø7	Ø10	Ø7	Ø10	Ø10
B ₂	-	-	248	-	248	248	248			248		
B ₃	-	-	308	-	308	308	308			308		
L ₁	-	-	245	-	245	245	245			245		
L ₃	-	-	185	-	185	185	185			185		
h ₃	-	-	40	-	40	40	40			40		
S ₂	-	-	14	-	14	14	14			14		

* The dimensions may vary with motors of different brands.

Magnetically coupled chemical centrifugal pump TMR G2

General

- Single-stage, normal-priming magnetically coupled horizontal pump
- Media-dependent bearing system
- Motor and pump mechanically separated
- pipe line connections suction and pressure side with external thread (DIN flange on request)
- Special designs on request

Technical data			
Model		Block construction	
Materials		PP (GF), ECTFE (CF)	
Max. delivery rate Q	m ³ /h	30	
Max. delivery head H	m	30	
Max. density	kg/dm ³	1.8	
Motor output with speed 2900 min ⁻¹	kW	0.55 – 3.0	
Ambient temperature	°C	0 – 40	
Max. permissible media temperature depending on the medium	PP	°C	80
	ECTFE	°C	100

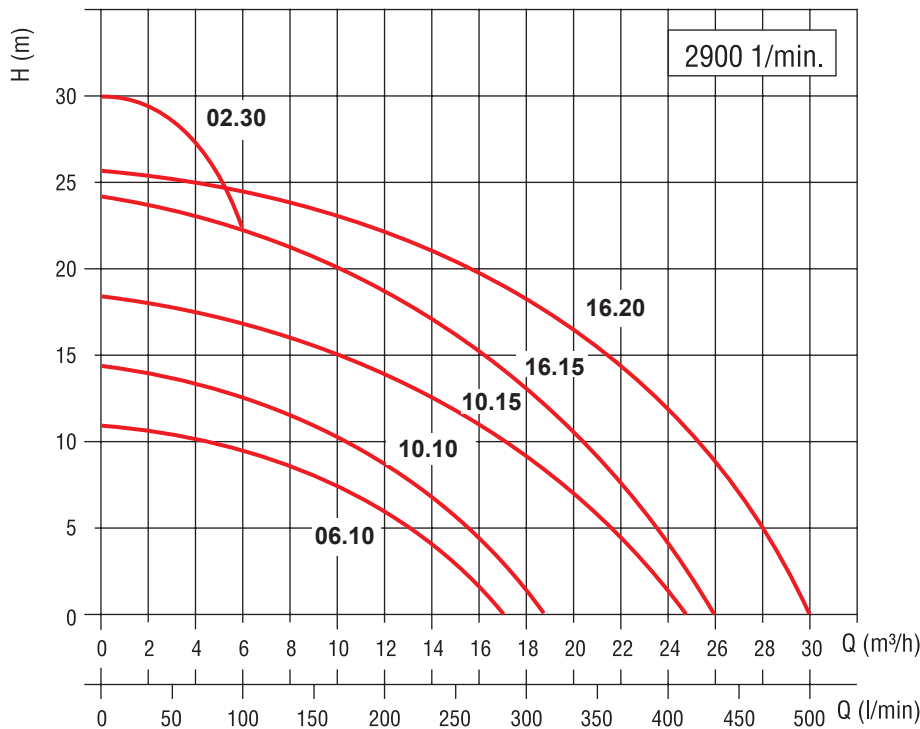
Possible bearing systems

- **R** Suitable for dry running
Suitable for dry running through use of HD-carbon plain bearings.
- **N** Corrosion-resistant
Suitable for hypochlorite solutions, bromine and chromium compounds through the use of PTFE plain bearings.
- **X** Suitable for solids
Suitable for solids through the use of silicon carbide plain bearings.



Characteristic curves

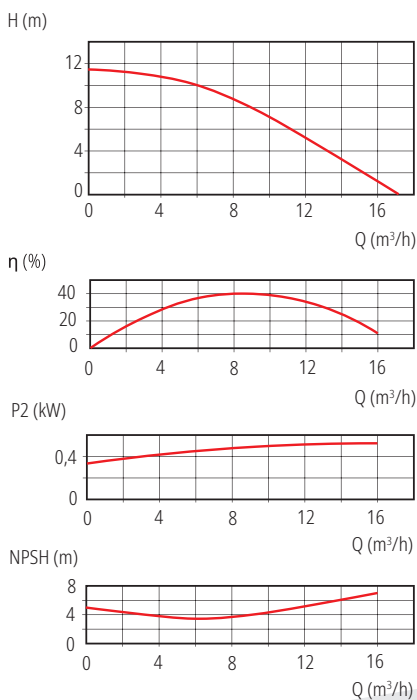
Magnetically coupled chemical centrifugal pump TMR



Individual characteristic curves

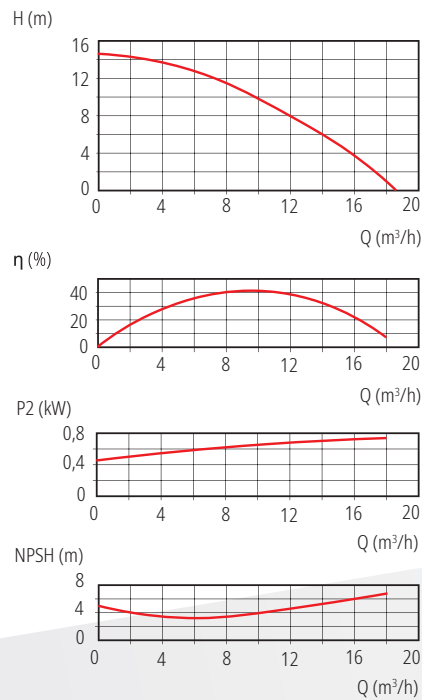
TMR 06.10

Frequency: 50 Hz
Speed: 2900 min⁻¹



TMR 10.10

Frequency: 50 Hz
Speed: 2900 min⁻¹

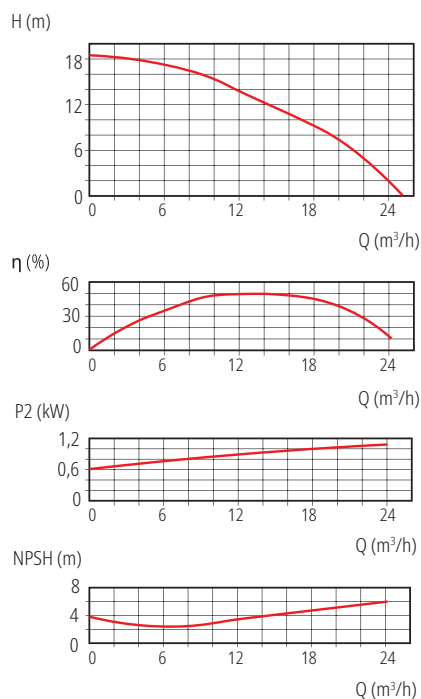


Individual characteristic curves

TMR 10.15

Frequency: 50 Hz

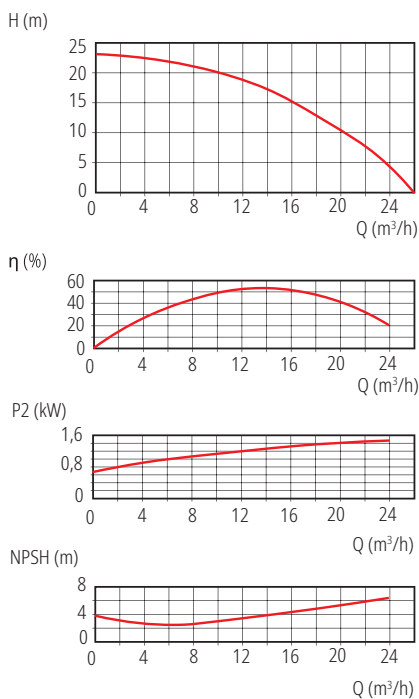
Speed: 2900 min⁻¹



TMR 16.15

Frequency: 50 Hz

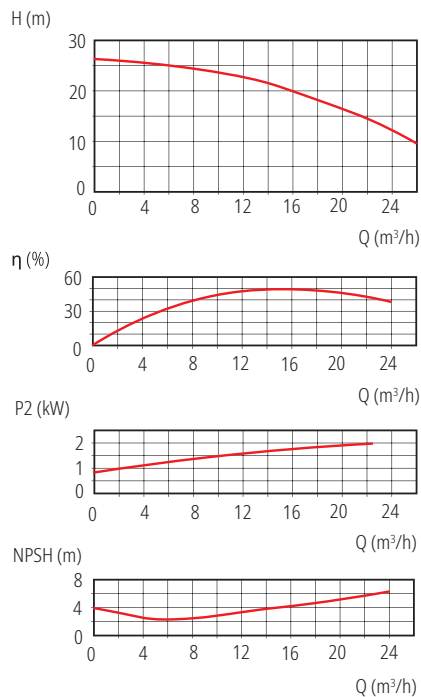
Speed: 2900 min⁻¹



TMR 16.20

Frequency: 50 Hz

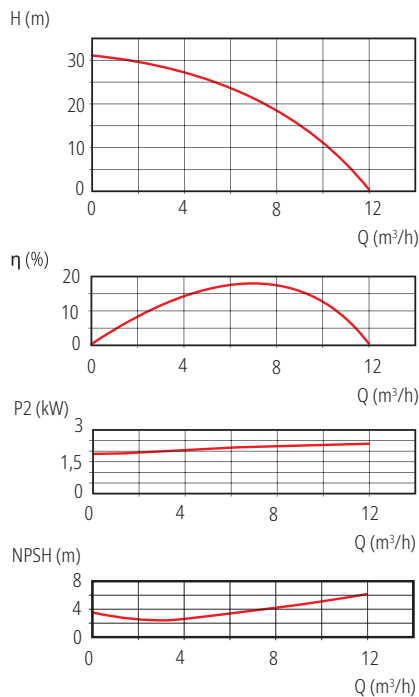
Speed: 2900 min⁻¹



TMR 02.30

Frequency: 50 Hz

Speed: 2900 min⁻¹



Technical data

Version		WR			GF			GX (on request)	
Equipment category 2 (in accordance with ATEX)		No			No			Yes	
Pump housing		Polypropylene (fibre glass reinforced)			ECTFE (carbon fibre reinforced)			ECTFE (carbon fibre reinforced)	
Rear casing									
Impeller									
Operating temperature	°C	-5 to +80			-20 to +100			-20 to +100	
Ambient temperature	°C	0 to +40			-20 to +40			-20 to +40	
Bearing system		R ₁	X ₁	N ₁	R ₂	X ₂	N ₂	R ₂	N ₂
Bearings		HD carbon	SiC	PTFE	HD carbon	SiC	PTFE	HD carbon	PTFE
Shaft		Ceramic			SiC			SiC	
Thrust ring		Ceramic			SiC			SiC	
Seal ¹		FPM or EPDM			FPM or EPDM			FPM or EPDM	
Screws		Stainless steel			Stainless steel			Stainless steel	

¹FFKM on request

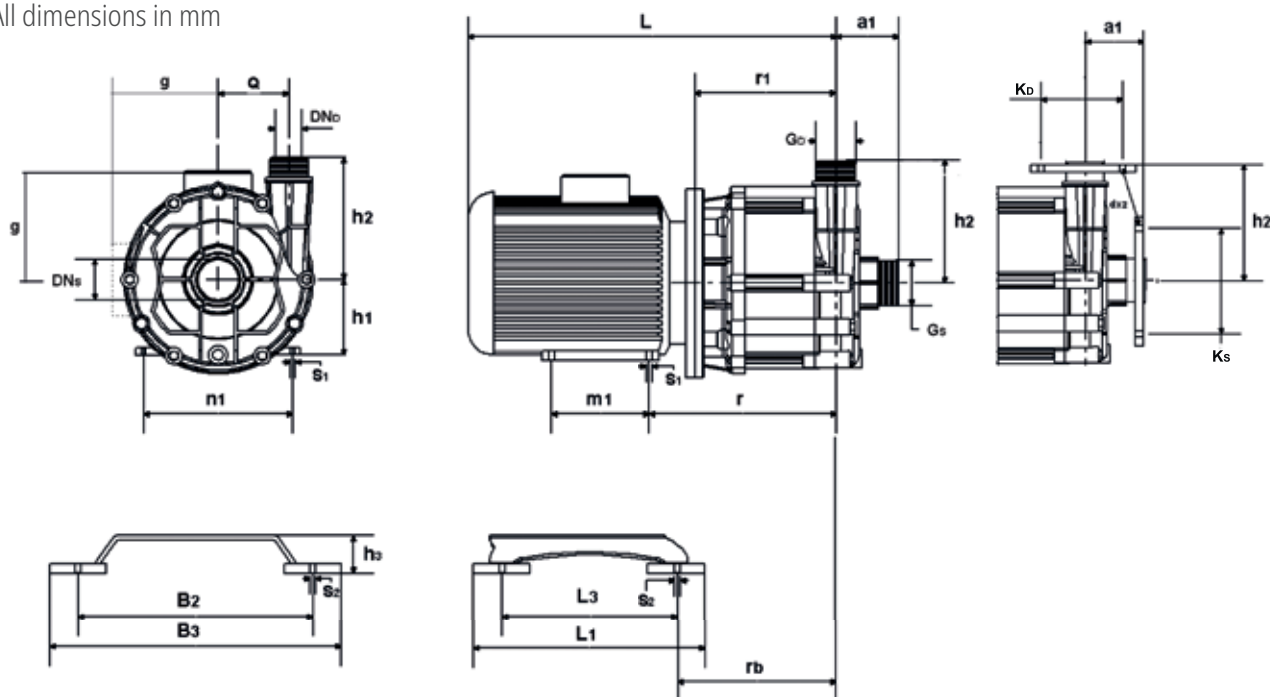
Technical data		06:10			10:10			10:15			16:15			16:20			2:30		
Motor version		N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S
G _D thread outlet		G1 1/4 male			G1 1/4 male			G1 1/4 male			G1 1/4 male			G1 1/4 male			G1 1/4 male		
G _S thread entry		G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male		
DN _D flange outlet	DN	32 (40 ²)			32 (40 ²)			32 (40 ²)			32 (40 ²)			32 (40 ²)			32 (40 ²)		
DN _S flange entry	DN	40			40			40			40			40			40		
Max. density	kg/dm ³	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 rating (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~, 400 V/50 Hz, IP55 ³																	

²⁰on request

³¹~, 230 V/50 Hz < 3 kW on request

Dimensions

All dimensions in mm



Pump type	06.10			10:10			10:15			16:15			16:20		02.30	
Motor size	71	80 A	80B	80 A	80B	90S	80B	90S	90L	90S	90L	100L	90L	100L	90L	100L
G_o thread outlet	G1 1/4 male			G1 1/4 male			G1 1/4 male			G1 1/4 male			G1 1/4 male		G1 1/4 male	
G_s thread entry	G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male		G1 1/2 male	
DN_o flange outlet	32			32			32			32			32		32	
DN_s flange entry	40			40			40			40			40		40	
K_o (ISO)	100			100			100			100			100		100	
K_s (ISO)	110			110			110			110			110		110	
K_o (ANSI)	89			89			89			89			89		89	
K_s (ANSI)	98			98			98			98			98		98	
$d \times z$ (ISO)	$\varnothing 18 \times 4$			$\varnothing 18 \times 4$			$\varnothing 18 \times 4$			$\varnothing 18 \times 4$			$\varnothing 18 \times 4$		$\varnothing 18 \times 4$	
$d \times z$ (ANSI)	$\varnothing 16 \times 4$			$\varnothing 16 \times 4$			$\varnothing 16 \times 4$			$\varnothing 16 \times 4$			$\varnothing 16 \times 4$		$\varnothing 16 \times 4$	
a_1	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_1	71	80	80	80	80	90	80	90	90	90	90	100	90	100	90	100
h_2	130			130			130			130			130		130	
r	194	199	199	199	199	205	199	205	205	205	205	227	205	227	205	227
r_1	149			149			149			149	149	164	149	164	149	164
rb	161			161			161			161	161	176	161	176	161	176
m_1	90	100	100	100			100	100	125	100	125	140	125	140	125	140
n_1	112	125	125	125	125	140	125	140	140	140	140	160	140	160	140	160
s_1	7	8	8	8			8			8	8	10	8	10	8	10
g	106	110	110	110	110	142	110	142	142	142	142	155	142	155	142	155
L_3	185			185			185			185	185	205	185	205	185	205
B_2	248			248			248			248	248	305	248	305	248	305
S_2	14			14			14			14			14		14	
L_1	245			245			245			245	245	265	245	265	245	265
B_3	308			308			308			308	308	365	308	365	308	365
h_3	40			40			40			40			40		40	



Magnetically coupled chemical centrifugal pump TMR G3

General

- Single-stage, normal-priming magnetically coupled horizontal pump
- Media-dependent bearing system
- Motor and pump mechanically separated
- Due to magnetic axial thrust compensation the bearing system "R" is suitable for dry running
- pipe line connections suction and pressure side with external thread (DIN flange on request)
- Special designs on request

Technical data			
Model		Block construction	
Materials		PP (GF), ECTFE (CF)	
Max. delivery rate Q	m ³ /h	48	
Max. delivery head H	m	40	
Max. density	kg/dm ³	1.8	
Motor output with speed 2900 min ⁻¹	kW	2.2 – 11	
Ambient temperature	°C	0 – 40	
Max. permissible media temperature depending on the medium	PP	°C	80
	ECTFE	°C	100

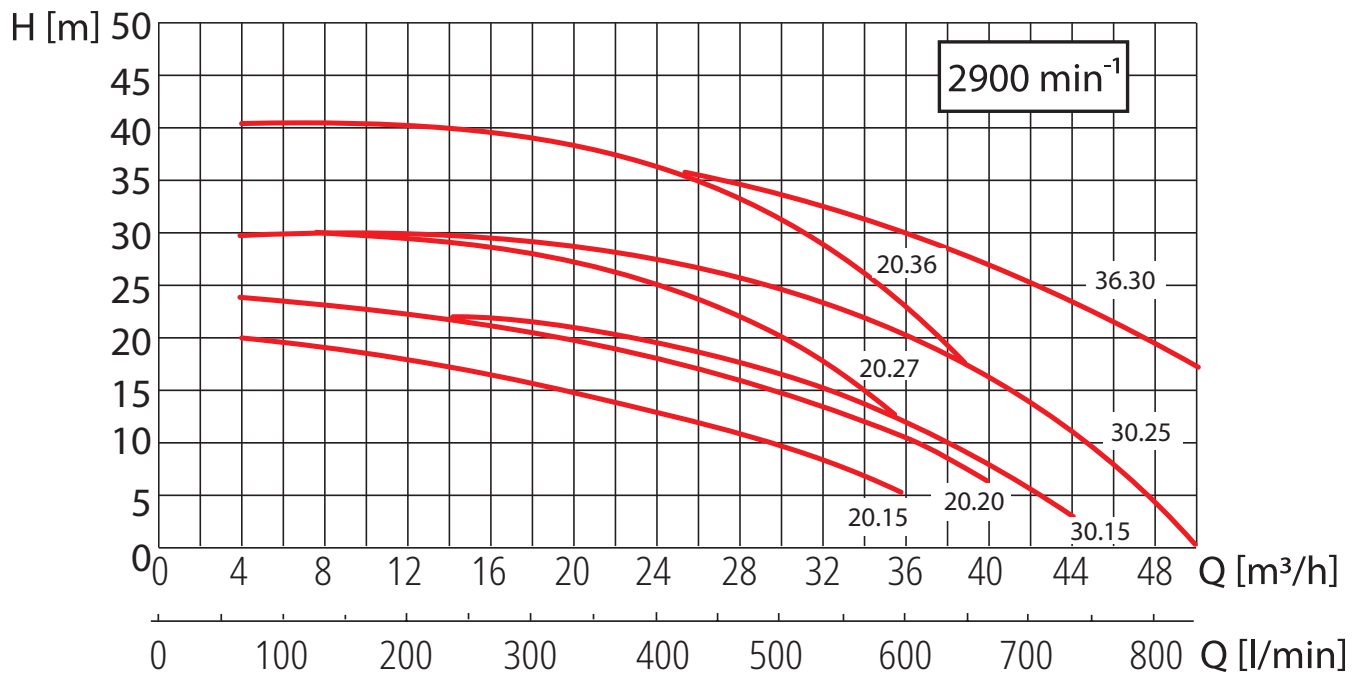
Possible bearing systems

- **R** Suitable for dry running
Suitable for dry running through use of HD-carbon plain bearings.
- **N** Corrosion-resistant
Suitable for hypochlorite solutions, bromine and chromium compounds through the use of PTFE plain bearings.
- **X** Suitable for solids
Suitable for solids through the use of silicon carbide plain bearings.



Characteristic curves

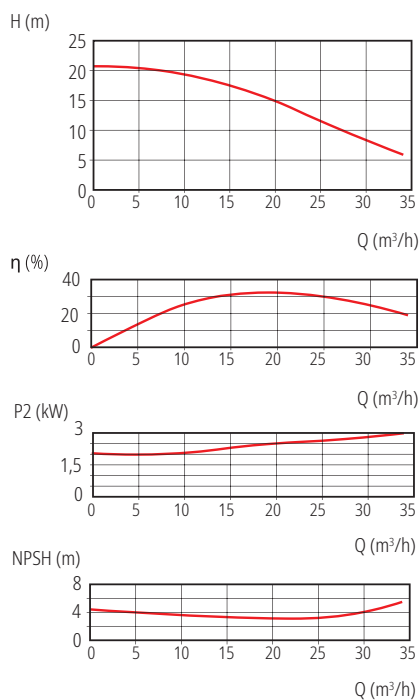
Magnetically coupled chemical centrifugal pump TMR



Individual characteristic curves

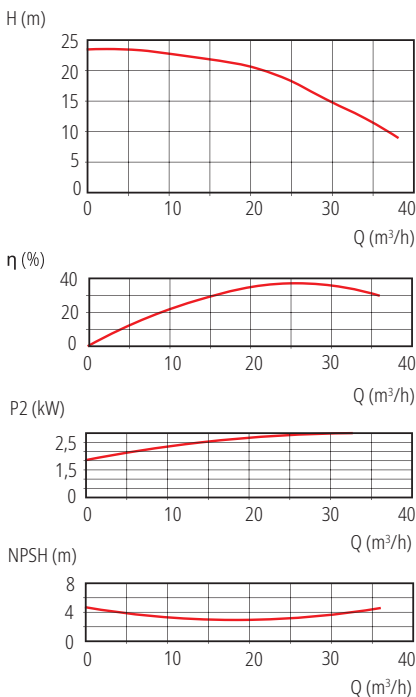
TMR 20.15

Frequency: 50 Hz

Speed: 2900 min⁻¹

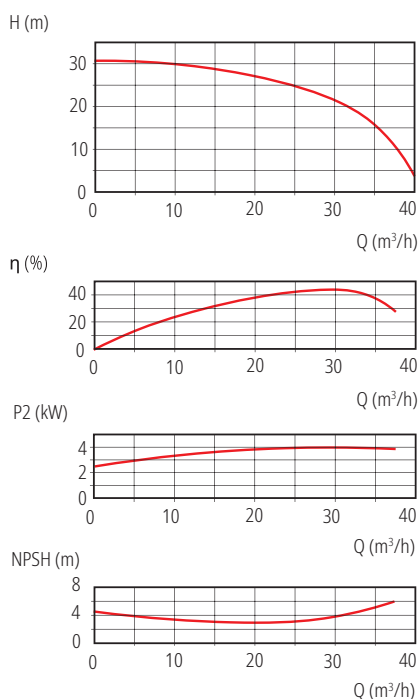
TMR 20.20

Frequency: 50 Hz

Speed: 2900 min⁻¹

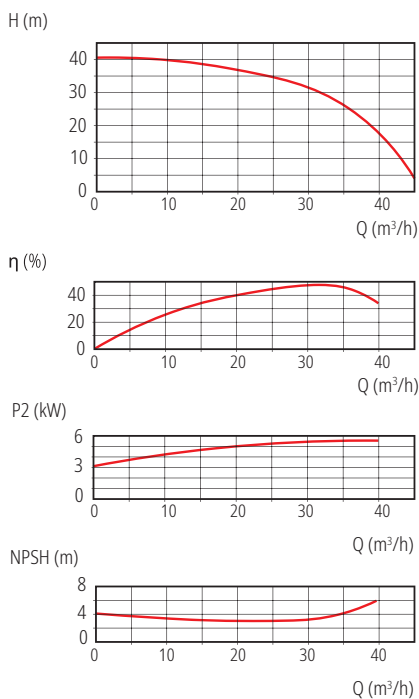
TMR 20.27

Frequency: 50 Hz

Speed: 2900 min⁻¹

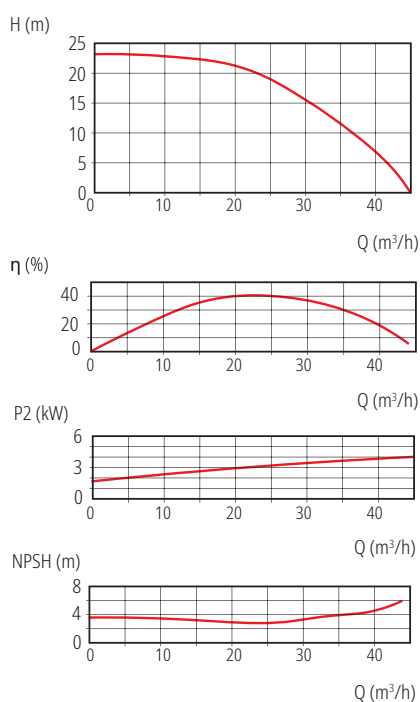
TMR 20.36

Frequency: 50 Hz

Speed: 2900 min⁻¹

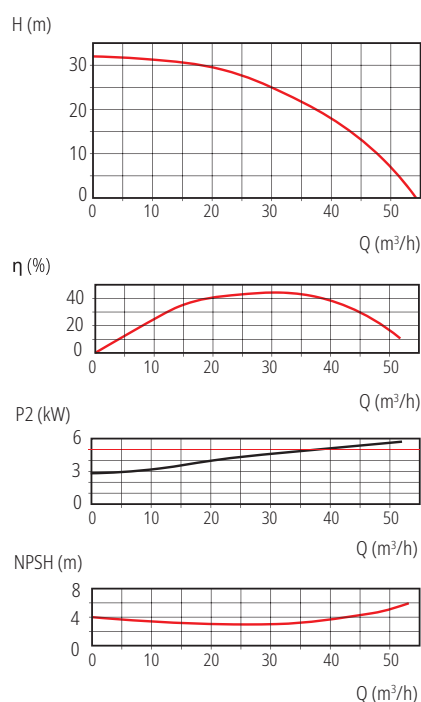
TMR 30.15

Frequency: 50 Hz
Speed: 2900 min⁻¹



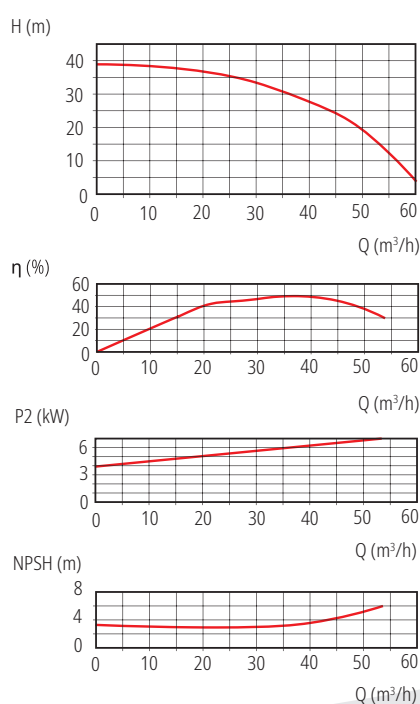
TMR 30.25

Frequency: 50 Hz
Speed: 2900 min⁻¹



TMR 36.30

Frequency: 50 Hz
Speed: 2900 min⁻¹

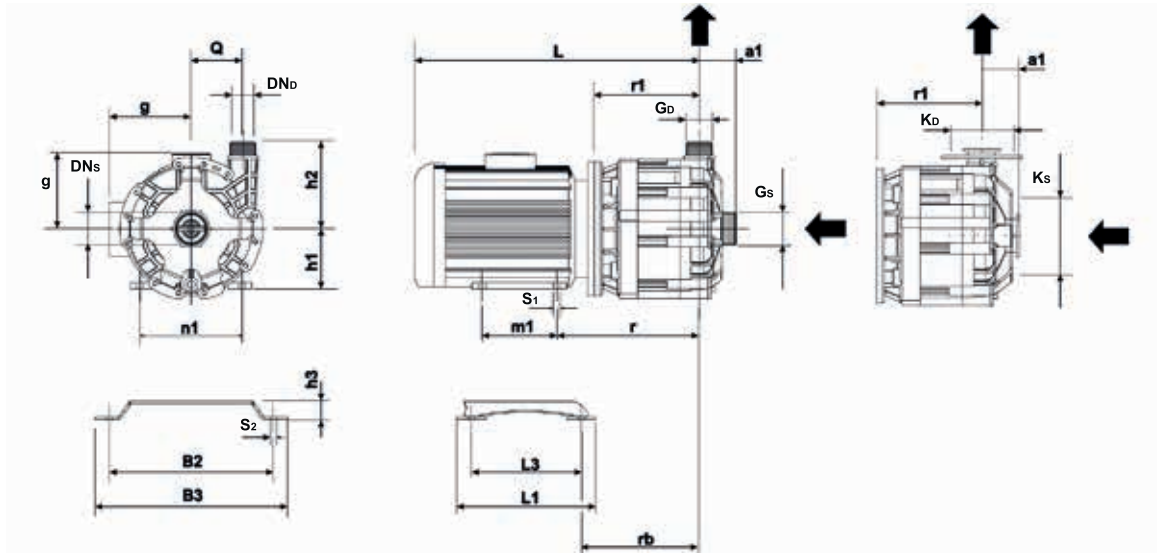


¹FFKM on request

Pump type		20:15			20:20			20:27			20:36			30.15			30.25			36.30		
Motor version		N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S
G _p thread outlet	BSP	G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male		
G _s thread entry	BSP	G2 male			G2 male			G2 male			G2 male			G2 male			G2 male			G2 male		
DN _p flange outlet	DN	40			40			40			40			40			40			40		
DN _s flange entry	DN	50			50			50			50			50			50			50		
Max. density	kg/dm³	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 rating (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 phases 400 V / 50 Hz, IP 55																				

Dimensions

All dimensions in mm



Pump type	20:15			20:20			20:27			20:36		30:15			30:25		36:30
Motor size	90L	100L	112M	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	112M	132SA	132SB	132SA	132SB	132SB
G _b thread	G1 1/2 male			G1 1/2 male			G1 1/2 male			G1 1/2 male		G1 1/2 male			G1 1/2 male		G1 1/2 male
outlet	G2 male			G2 male			G2 male			G2 male		G2 male			G2 male		G2 male
G _s thread	40			40			40			40		40			40		40
entry	50			50			50			50		50			50		50
DN _b flange	110			110			110			110		110			110		110
outlet	125			125			125			125		125			125		125
DN _s flange	98			98			98			98		98			98		98
entry	121			121			121			121		121			121		121
K _b (ISO)	ø 18 x 4			ø 18 x 4			ø 18 x 4			ø 18 x 4		ø 18 x 4			ø 18 x 4		ø 18 x 4
K _s (ISO)	ø 16-19 x 4			ø 16-19 x 4			ø 16-19 x 4			ø 16-19 x 4		ø 16-19 x 4			ø 16-19 x 4		ø 16-19 x 4
K _b (ANSI)	98			98			98			98		98			98		98
K _s (ANSI)	121			121			121			121		121			121		121
d x z (ISO)	ø 18 x 4			ø 18 x 4			ø 18 x 4			ø 18 x 4		ø 18 x 4			ø 18 x 4		ø 18 x 4
d x z (ANSI)	ø 16-19 x 4			ø 16-19 x 4			ø 16-19 x 4			ø 16-19 x 4		ø 16-19 x 4			ø 16-19 x 4		ø 16-19 x 4
a ₁	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 ₁	90	100	112	100	112	132	112	132	132	132	112	132	132	132	132	132	132
h ₂	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 ₁	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 ₁	125	140	140	140			140			140		140			140		140
n ₁	140	160	190	160	190	216	190	216	216	216	190	216	216	216	216	216	216
s ₁	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 ₃	185	205	205	205	205	263	205	263	263	263	205	263	263	263	263	263	263
B ₂	248	305	305	305	305	359	305	359	359	359	305	359	359	359	359	359	359
S ₂	14			14			14			14		14			14		14
L ₁	245	265	265	265	265	333	265	333	333	333	265	333	333	333	333	333	333
B ₃	308	365	365	365	365	429	365	429	429	429	365	429	429	429	429	429	429
h ₃	55			55			55			55		55			55		55

Service



Lutz-Jesco is available to you as a reliable partner with a worldwide network of competent representatives for all service questions relating to our products.

Customer-oriented action extends from advice to sales and after-sales service. To ensure that you are on the safe side, we offer you not only high-quality products but also comprehensive services.



Technical Support | Commissioning | Maintenance | Servicing |
Repairs in the factory | Material Service | Customer Training courses

Do you have questions about our services?

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