Chemical motor block pump BN

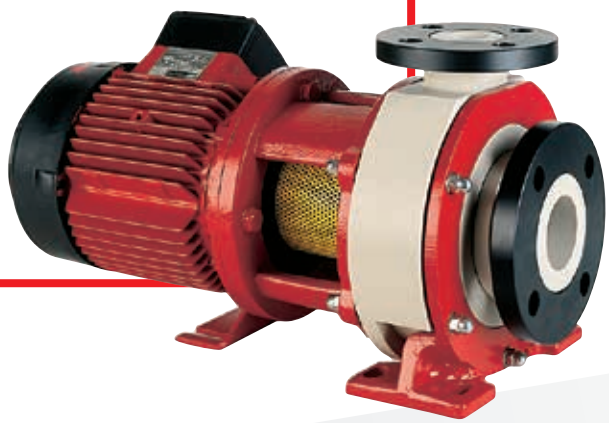
General

- 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

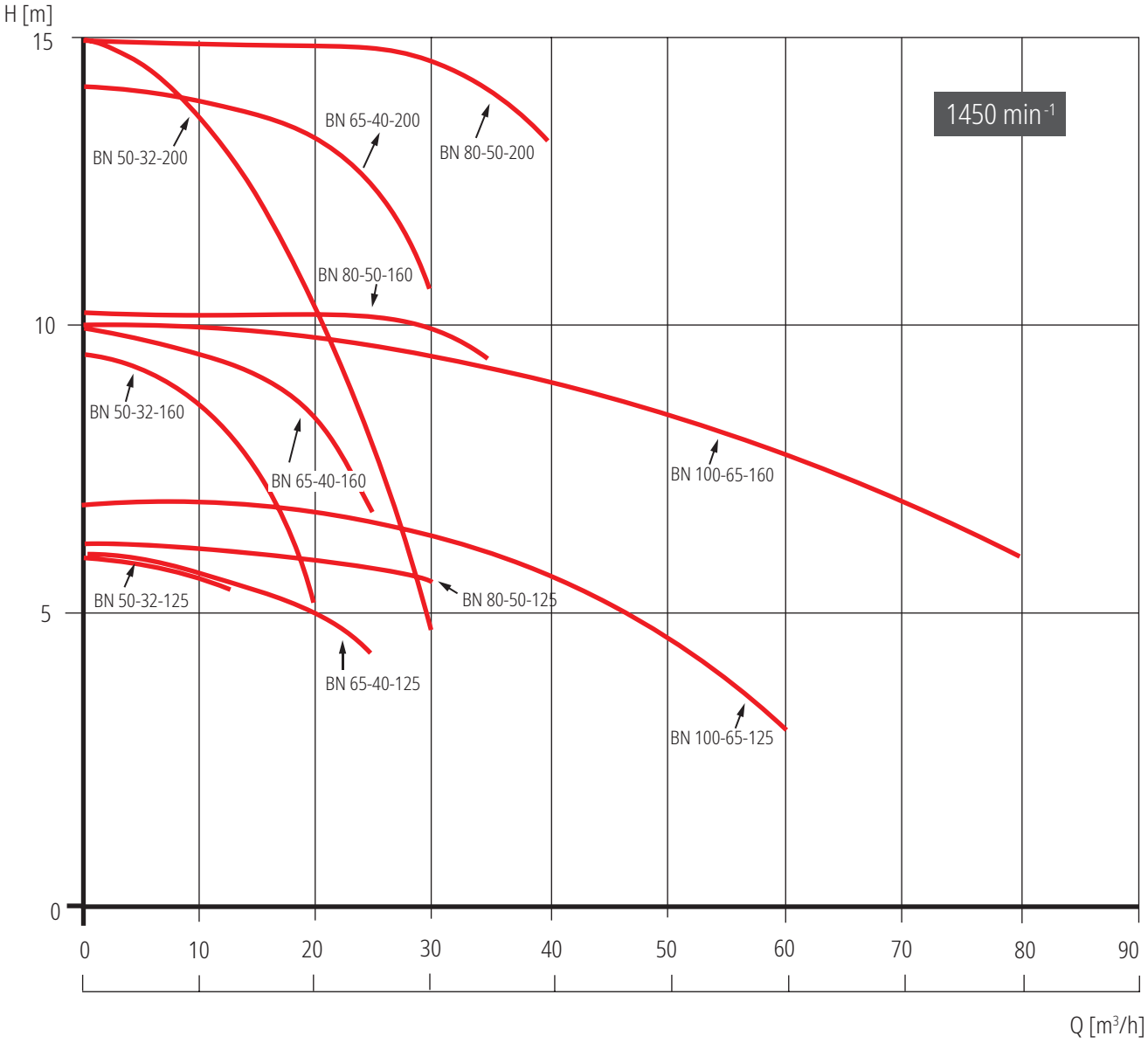
Possible seal designs

- **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 chenching chamber for dual active barrier and buffer fluid systems

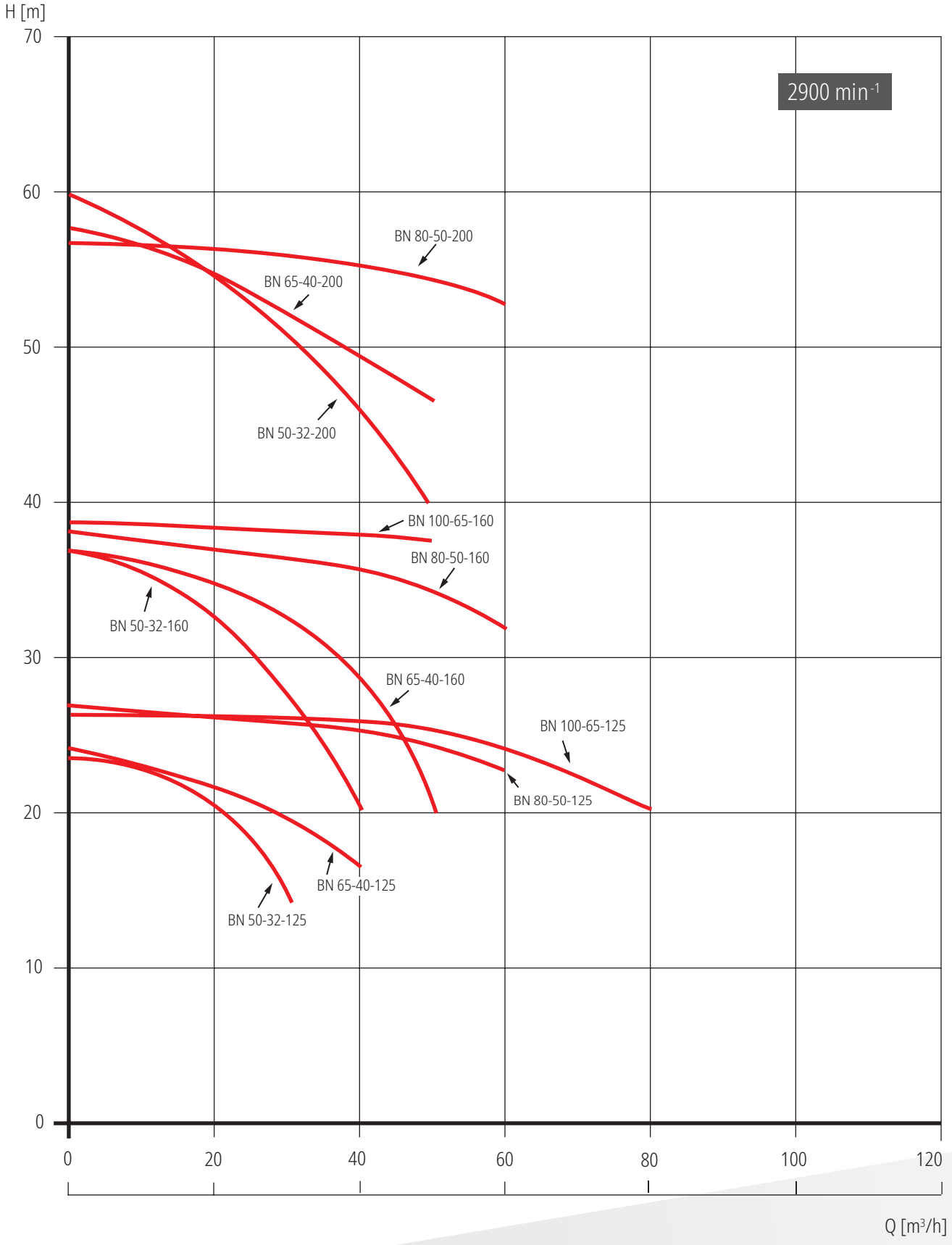


Characteristic curves

Horizontal, normal priming chemical motor block pump BN 1450 min^{-1}

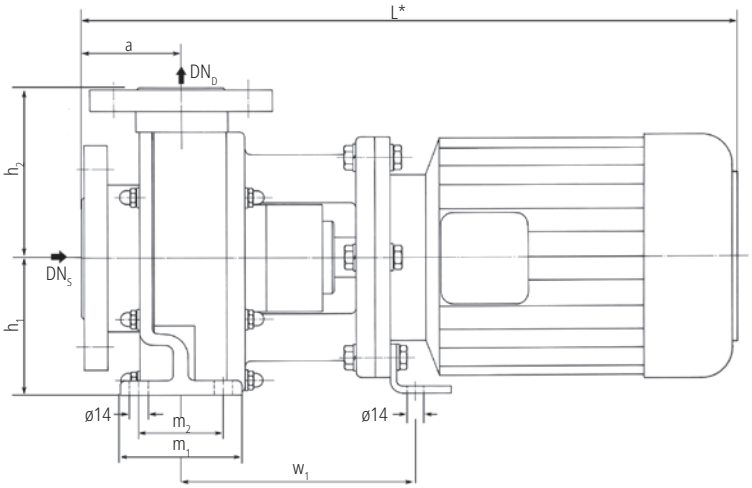


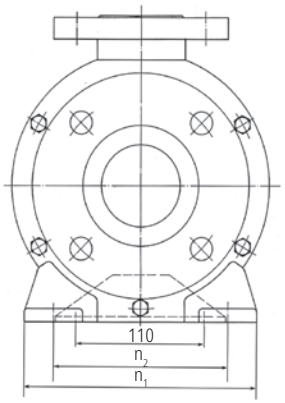
Horizontal, normal priming chemical motor block pump BN 2900 min^{-1}



Dimensions

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
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