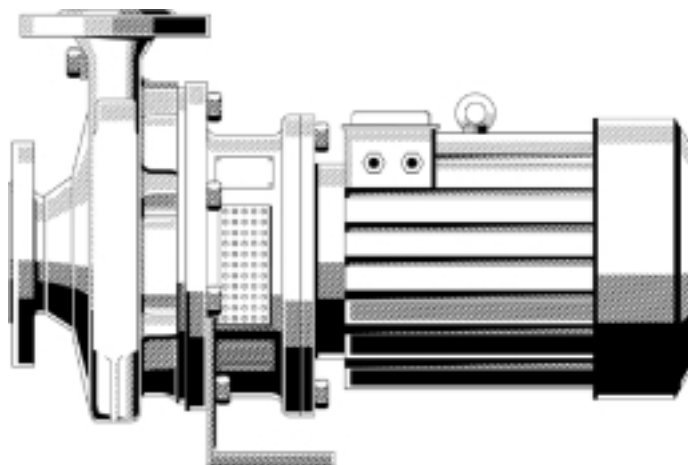


Close-coupled pumps



Fields of application

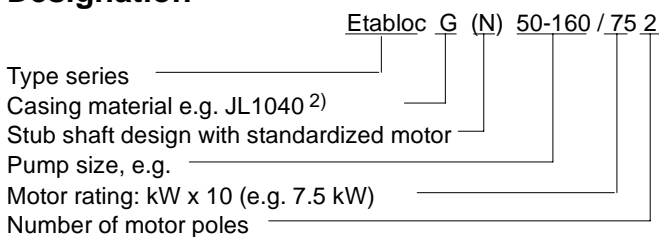
- Water supply
- Sprinkling
- Irrigation
- Drainage
- Heating systems
- Air-conditioning systems
- Drinking water
- Service water
- Hot water
- Cooling water
- Swimming pool water
- Sea water
- Fire-fighting water
- Brackish water
- Condensate
- Brine
- Oils
- Cleaning agents

Operating data

Q up to 580 m³/h, 161 l/s
 H up to 95 m
 t -30 to +140 °C
 p₂ up to 16 bar¹⁾

1) see pressure/temperature limits, page 5

Designation



1) to EN 1561 = GJL-250

Shaft seal

Mechanical seal to DIN 24 960

Design/Variants

Volute casing pumps, single-stage³⁾, with ratings to EN 733. The shaft is fitted with a replaceable shaft sleeve in the shaft seal area. Volute casing and impeller supplied with replaceable wear rings⁴⁾.

3) Etabloc 32-23 double-stage

4) except Etabloc 25-20 and 32-23

Etabloc GN, MN, SN, BN, CN

Pump and motor flanged together to form a close-coupled unit, with standardized motor.

Pump shaft and motor shaft are rigidly connected.

Etabloc G, M

Pump and motor flanged together to form a close-coupled unit, with common shaft

Drive

Standard version Etabloc N

Surface-cooled KSB-IEC three-phase squirrel cage motor.

Winding: up to 2.2 kW 220-240 V/380-420 V
 3kW and above 380-420/660-725 V
 Design: up to 4 kW IM V1
 5.5 kW and above IM V15

Enclosure: IP 55
 Thermal class: F with temperature sensors: 3 PTC resistors
 Operating mode: continuous operation S1
 or
 surface-cooled three-phase squirrel cage motor as described above, but West European brand to KSB's choice.

Flameproof version Etabloc N

Surface-cooled IEC three-phase squirrel cage motor, West European brand to KSB's choice.

Winding: up to 1.85 kW 220-240 V/380-420 V
 for 2.5 kW and above 380-420/660-725 V
 Design: up to 3.3 kW IM V1
 4.6 kW and above IM V15

Enclosure: IP 55 or IP 54
 Type of protection: EExe II
 Thermal class: T3
 Operating mode: continuous operation S1

Standard version Etabloc G, M

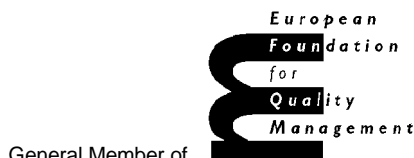
Surface-cooled KSB three-phase squirrel cage motor with longer shaft and special flange

Winding: up to 2.2 kW: 230/400 V
 for 3 kW and above: 400/690 V
 Design: up to 4 kW: without foot
 5.5 kW and above: with foot

Enclosure: IP 55 or IP 54
 Thermal class: F
 Operating mode: continuous operation S1

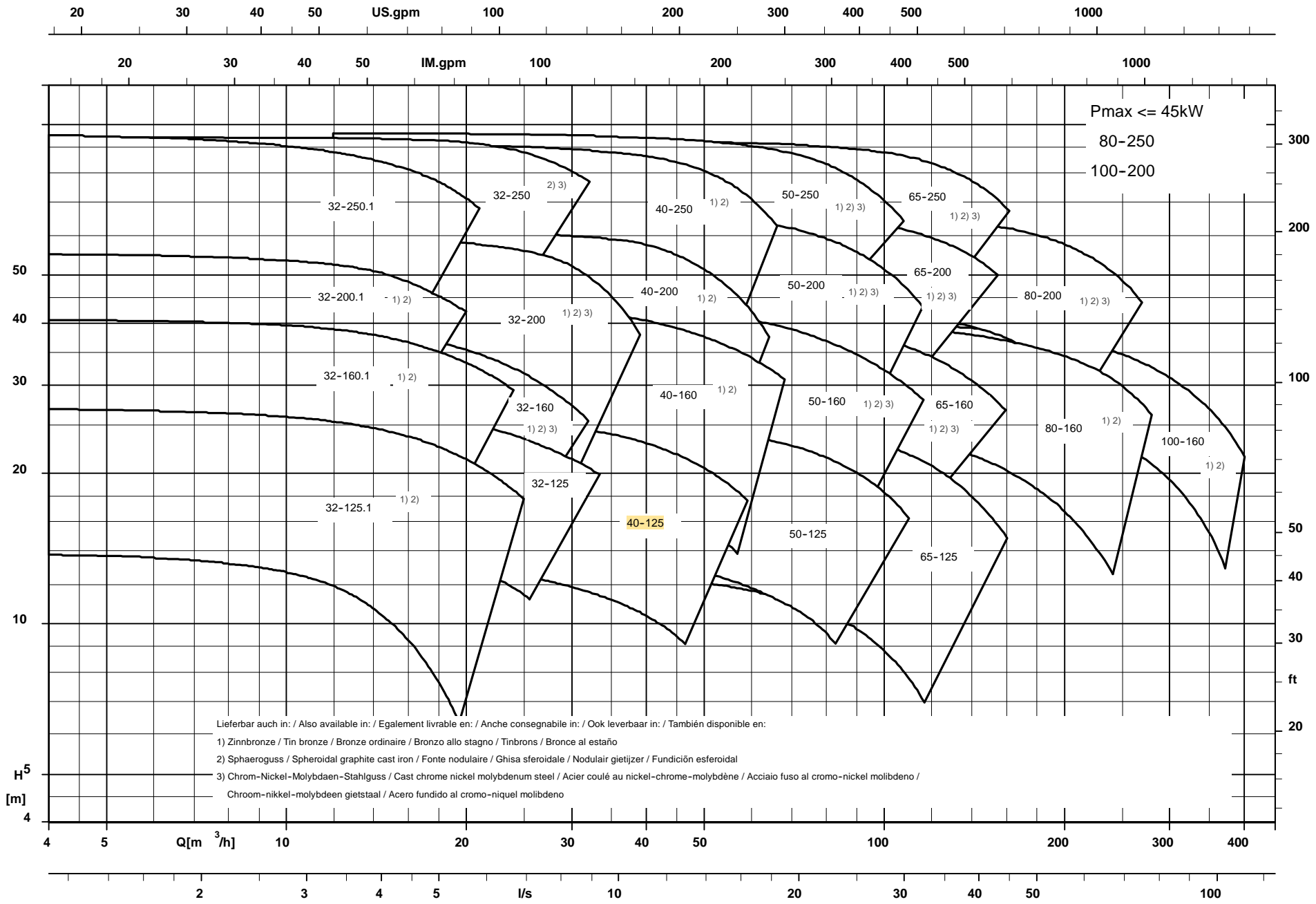
Contact guard:

Cover plates on drive lantern to EN 294



General Member of

n ≈ 2900 1/min

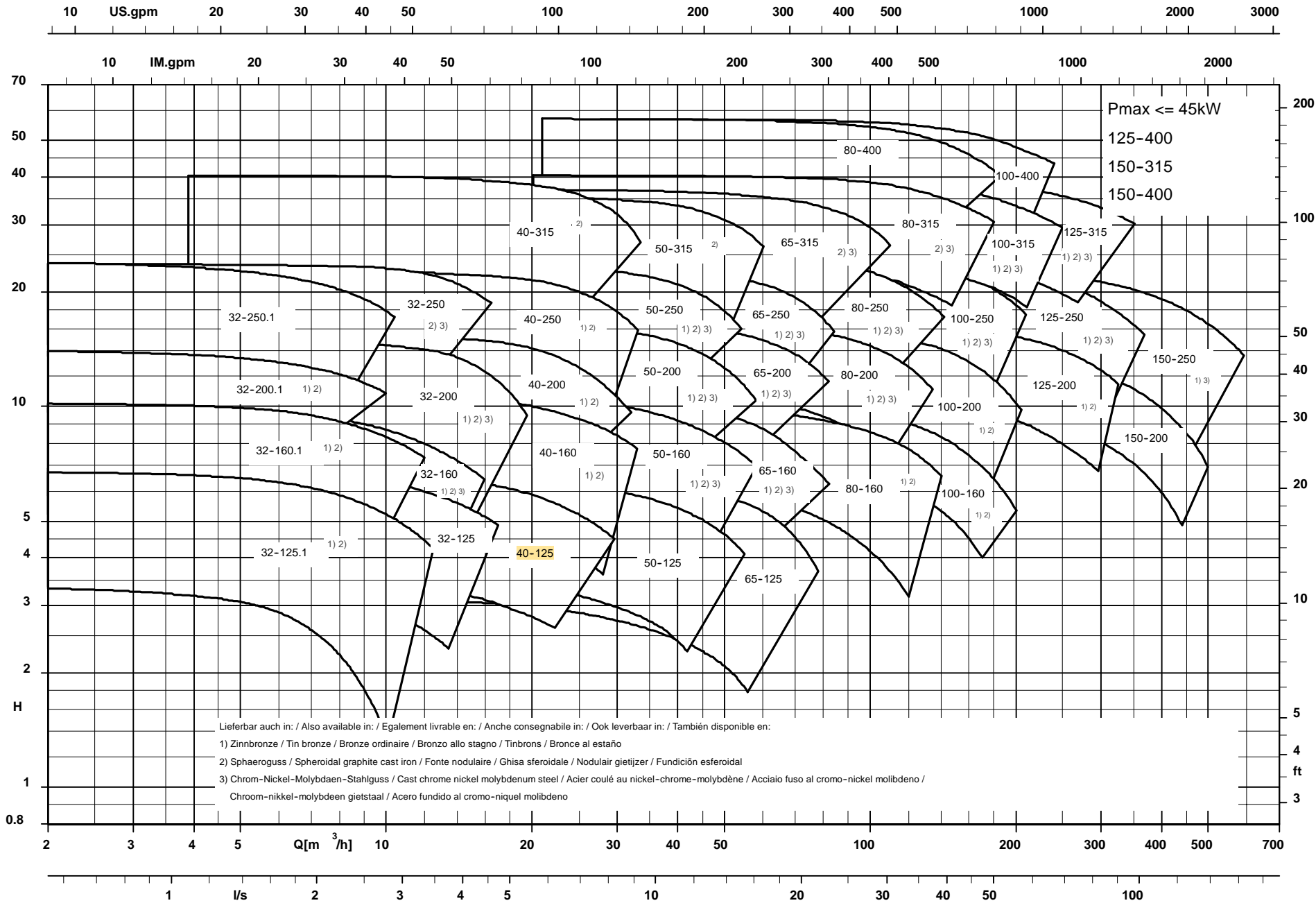


Lieferbar auch in: / Also available in: / Egalement livrable en: / Anche consegnabile in: / Ook leverbaar in: / También disponible en:

- 1) Zinnbronze / Tin bronze / Bronze ordinaire / Bronzo allo stagno / Tinbrons / Bronce al estaño
- 2) Sphaeroguss / Spheroidal graphite cast iron / Fonte nodulaire / Ghisa sferoidale / Nodulair gietijzer / Fundición esferoidal
- 3) Chrom-Nickel-Molybdaen-Stahlguss / Cast chrome nickel molybdenum steel / Acier coulé au nickel-chrome-molybdène / Acciaio fuso al cromo-nichel molibdeno / Chrom-nikkel-molybdeen gietstaal / Acero fundido al cromo-niquel molibdeno

1167.4052/7

n ≈ 1450 1/min



1167.4054/7

Materials

	Etabloc G, GN	Etabloc M, MN	Etabloc BN
Volute casing	Grey cast iron JL1040 ¹⁾	Grey cast iron JL1040 ¹⁾	Tin bronze CC480K-GS ³⁾
Discharge cover	Grey cast iron JL1040 ¹⁾	Grey cast iron JL1040 ¹⁾	Tin bronze CC480K-GS ³⁾
Impeller	Grey cast iron JL1040 ¹⁾	Tin bronze CC480K-GS ³⁾	Tin bronze CC480K-GS ³⁾
Casing wear rings	Grey cast iron GG	Grey cast iron / Leaded bronze GG/CC495K-GS ³⁾	Leaded bronze CC495K-GS ³⁾
Shaft	Tempering steel C45N	Tempering steel C45N	Chrome nickel molybdenum steel 1.4571
Shaft sleeve	Chrome nickel molybdenum steel 1.4571	Chrome nickel molybdenum steel 1.4571	Chrome nickel molybdenum steel 1.4571
Drive lantern	Grey cast iron JL1040 ¹⁾	Grey cast iron JL1040 ¹⁾	Grey cast iron JL1040 ¹⁾

	Etabloc SN	Etabloc CN
Volute casing	Nodular cast iron JS1025 ²⁾	Cast chrome nickel molybdenum steel 1.4408
Discharge cover	Nodular cast iron JS1025 ²⁾	Cast chrome nickel molybdenum steel 1.4408
Impeller	Grey cast iron JL1040 ¹⁾	Cast chrome nickel molybdenum steel 1.4408
Casing wear rings	Grey cast iron GG	Cast chrome nickel molybdenum steel 1.4408
Shaft	Tempering steel C45N	Chrome nickel molybdenum steel 1.4571
Shaft sleeve	Chrome nickel molybdenum steel 1.4571	Chrome nickel molybdenum steel 1.4571
Drive lantern	Grey cast iron JL1040 ¹⁾	Grey cast iron JL1040 ¹⁾

- 1) to EN 1561 = GJL-250
 2) to EN 1563 = GJS-400-18-LT
 3) to EN 1982

Etabloc N

Large material selection
 Grey cast iron, tin bronze, nodular cast iron, cast chrome nickel molybdenum steel

Shaft sleeve
 prevents wear on the shaft

Service-friendly,
 sturdy KSB IEC three-phase motor

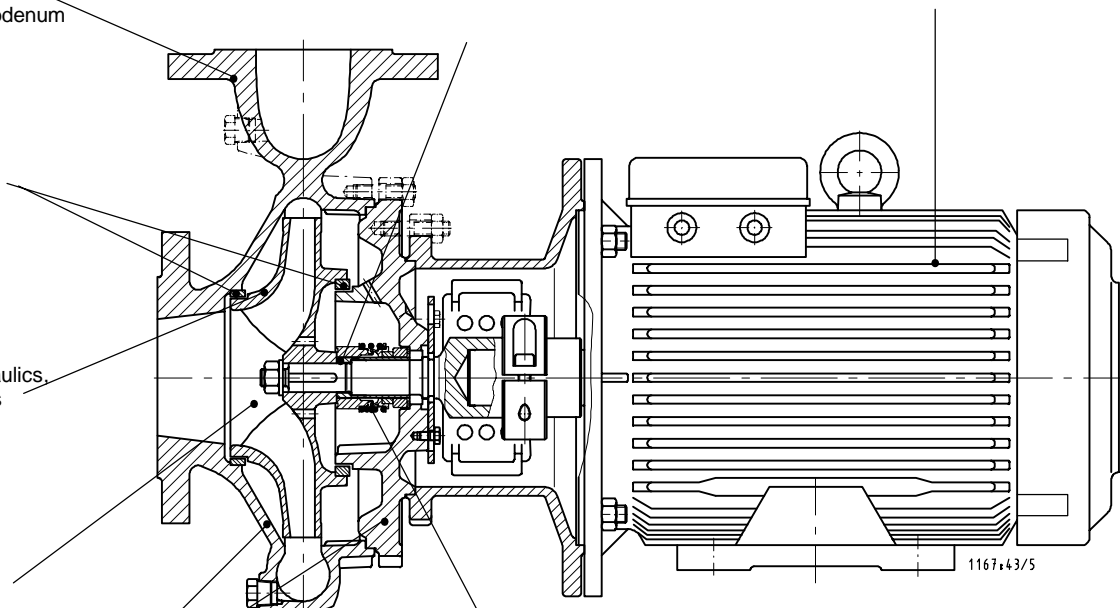
Casing wear rings
 service-friendly, no wear on casing/impeller

Impeller
 with optimized hydraulics, excellent efficiencies

Suction geometry
 designed for max. suction capacity (NPSH) and optimal cavitation behaviour

Pressure jacket designed for 16 bar to guarantee high operating reliability

Reliable standardized mechanical seal,
 maintenance-free



Pressure and Temperature Limits

Etabloc	Product temperature 1)4)	Discharge pressure p_2 ²⁾	Test pressure ³⁾
G, GN	-30 °C to + 140 °C	5)	up to 21 bar
M, MN	-30 °C to + 140 °C		up to 21 bar
SN	-30 °C to + 140 °C		up to 25 bar
BN	-30 °C to + 140 °C	10 bar	up to 13 bar
CN	-30 °C to + 140 °C	5)	up to 21 bar

1) For hot water heating systems to DIN 4752, section 4.5, application limits must be observed.

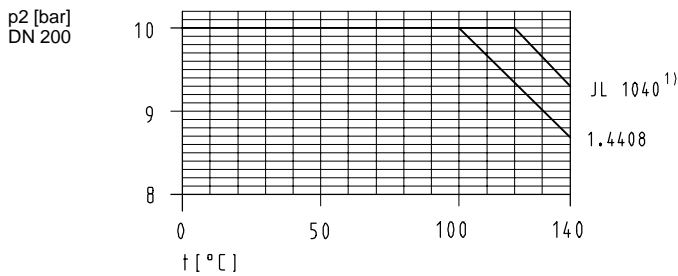
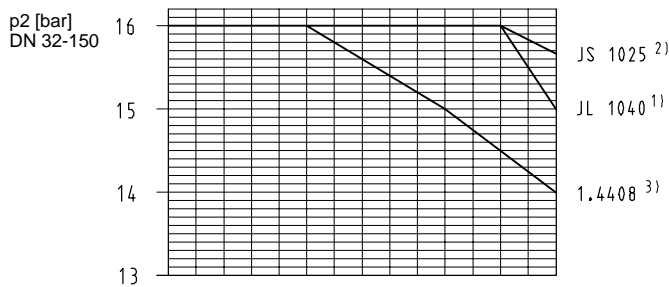
2) The sum of inlet pressure and shut-off head must not exceed the values shown in the diagram.

3) The casing components are checked for leakage by means of an internal pressure test to AN 1897/75-03 D00 with water.

4) For product temperatures > 140 °C, Etabloc SY, Etaline SY shall be used.

5) See diagram

Pressure/Temperature Diagram for Flanges to ISO 7005-1 and EN 1092-2



1) to EN 1561 = GJL-250

2) to EN 1563 = GJS-400-18-LT

3) DN 65-150 only; DN 32-50 16 bar

12 11 : 173

Etabloc	Ⓜ	kW	400 V ≈ A
≈ 2900 1/min ²⁾			
25-20/152	90S	1,5	3,35
25-20/222	90L	2,2	4,6
25-20/302	100L	3,0	6,3
25-20/402	112M	4,0	8,3
32-23/402 ¹⁾	112M	4,0	8,3
32-23/552 ¹⁾	112L	5,5	11,0
32-125.1/072	80a	0,75	1,8
32-125.1/112	80b	1,1	2,6
32-125.1/152	90S	1,5	3,35
32-125.1/222	90L	2,2	4,6
32-160.1/222	90L	2,2	4,6
32-160.1/302	100L	3,0	6,3
32-200.1/302	100L	3,0	6,3
32-200.1/402	112M	4,0	8,3
32-200.1/552	132Sa	5,5	11,0
32-250.1/752	132S	7,5	14,6
32-250.1/1102	160Ma	11,0	20,7
32-125/112	80b	1,1	2,6
32-125/152	90S	1,5	3,35
32-125/222	90L	2,2	4,6
32-125/302	100L	3,0	6,3
32-160/302	100L	3,0	6,3
32-160/402	112M	4,0	8,3
32-200/552	132Sa	5,5	11,0
32-200/752	132S	7,5	14,6
32-250/1102	160Ma	11,0	20,7
32-250/1502	160M	15,0	28,0
40-125/152	90S	1,5	3,35
40-125/222	90L	2,2	4,6
40-125/302	100L	3,0	6,3
40-125/402	112M	4,0	8,3
40-160/402	112M	4,0	8,3
40-160/552	132Sa	5,5	11,0
40-160/752	132S	7,5	14,6
40-200/752	132S	7,5	14,6
40-200/1102	160Ma	11,0	20,7
40-250/1102	160Ma	11,0	20,7
40-250/1502	160M	15,0	28,0
40-250/1852	160L	18,5	33,0
40-250/2202	180M	22,0	40,0
50-125/302	100L	3,0	6,3
50-125/402	112M	4,0	8,3
50-125/552	132Sa	5,5	11,0
50-125/752	132S	7,5	14,6
50-160/752	132S	7,5	14,6
50-160/1102	160Ma	11,0	20,7
50-200/1502	160M	15,0	28,0
50-200/1852	160L	18,5	33,0
50-200/2202	180M	22,0	40,0
50-250/1852	160L	18,5	33,0
50-250/2202	180M	22,0	40,0
50-250/3002	200L	30,0	54,0
50-250/3702	200L	37,0	65,0
65-125/402	112M	4,0	8,3
65-125/552	132Sa	5,5	11,0
65-125/752	132S	7,5	14,6
65-160/1102	160Ma	11,0	20,7
65-160/1502	160M	15,0	28,0
65-200/1852	160L	18,5	33,0
65-200/2202	180M	22,0	40,0
65-200/3002	200L	30,0	54,0
65-250/3002	200L	30,0	54,0
65-250/3702	200L	37,0	65,0
65-250/4502	225M	45,0	78,0
80-160/1102	160Ma	11,0	20,7
80-160/1502	160M	15,0	28,0
80-160/1852	160L	18,5	33,0
80-160/2202	180M	22,0	40,0
80-160/3002	200L	30,0	54,0
80-200/3002	200L	30,0	54,0
80-200/3702	200L	37,0	65,0
80-200/4502	225M	45,0	78,0
80-250/3002	200L	30,0	54,0
80-250/3702	200L	37,0	65,0
80-250/4502	225M	45,0	78,0
100-160/3002	200L	30,0	54,0
100-160/3702	200L	37,0	65,0
100-200/3002	200L	30,0	54,0
100-200/3702	200L	37,0	65,0
100-200/4502	225M	45,0	78,0

Etabloc	Ⓜ	kW	400 V ≈ A
≈ 1450 1/min ²⁾			
25-20/034	71b	0,37	1,15
32-125.1/024	71a	0,25	0,80
32-160.1/034	71b	0,37	1,15
32-200.1/054	80a	0,55	1,60
32-250.1/114	90S	1,1	2,8
32-250.1/154	90L	1,5	3,6
32-125/034	71b	0,37	1,15
32-160/054	80a	0,55	1,60
32-200/074	80b	0,75	2,0
32-200/114	90S	1,1	2,8
32-250/154	90L	1,5	3,6
32-250/224	100La	2,2	5,1
40-125/024	71a	0,25	0,80
40-125/034	71b	0,37	1,15
40-125/054	80a	0,55	1,6
40-160/054	80a	0,55	1,6
40-160/074	80b	0,75	2,0
40-200/114	90S	1,1	2,8
40-200/154	90L	1,5	3,6
40-250/224	100La	2,2	5,1
40-250/304	100L	3,0	6,7
40-315/304	100L	3,0	6,7
40-315/404	112M	4,0	8,8
40-315/554	132S	5,5	12,0
50-125/054	80a	0,55	1,6
50-125/074	80b	0,75	2,0
50-160/114	90S	1,1	2,8
50-160/154	90L	1,5	3,6
50-200/224	100La	2,2	5,1
50-200/304	100L	3,0	6,7
50-250/304	100L	3,0	6,7
50-250/404	112M	4,0	8,8
50-315/404	112M	4,0	8,8
50-315/554	132S	5,5	11,5
50-315/754	132M	7,5	16,0
65-125/074	80b	0,75	2,0
65-125/114	90S	1,1	2,8
65-160/114	90S	1,1	2,8
65-160/154	90L	1,5	3,6
65-160/224	100La	2,2	5,1
65-200/304	100L	3,0	6,7
65-200/404	112M	4,0	8,8
65-250/554	132S	5,5	11,5
65-315/754	132M	7,5	15,5
65-315/1104	160M	11,0	21,5
80-160/154	90L	1,5	3,6
80-160/224	100La	2,2	5,1
80-160/304	100L	3,0	6,7
80-200/404	112M	4,0	8,8
80-200/554	132S	5,5	11,5
80-250/754	132M	7,5	15,5
80-250/1104	160M	11,0	21,5
80-315/1104	160M	11,0	21,5
80-315/1504	160L	15,0	28,5
80-315/1854	180M	18,5	35,0
80-315/2204	180L	22,0	42,0
80-400/3004	200L	30,0	56,0
80-400/3704	225S	37,0	67,0
100-160/304	100L	3,0	6,7
100-160/404	112M	4,0	8,8
100-200/554	132S	5,5	11,5
100-200/754	132M	7,5	15,5
100-250/1104	160M	11,0	21,5
100-250/1504	160L	15,0	28,5
100-315/1854	180M	18,5	35,0
100-315/2204	180L	22,0	42,0
100-315/3004	200L	30,0	56,0
100-400/3004	200L	30,0	56,0
100-400/3704	225S	37,0	67,0
100-400/4504	225M	45,0	81,0
125-200/754	132M	7,5	15,5
125-200/1104	160M	11,0	21,5
125-250/1504	160L	15,0	28,5
125-250/1854	180M	18,5	35,0
125-315/3004	200L	30,0	56,0
125-315/3704	225S	37,0	67,0
125-400/3004	200L	30,0	56,0
125-400/3704	225S	37,0	67,0
125-400/4504	225M	45,0	81,0
150-200/1104	160M	11,0	21,5

Etabloc	Ⓜ	kW	400 V ≈ A
≈ 1450 1/min ²⁾			
150-250/1504	160L	15,0	28,5
150-250/1854	180M	18,5	35,0
150-250/2204	180L	22,0	42,0
150-250/3004	200L	30,0	56,0
150-315/3004	200L	30,0	56,0
150-315/3704	225S	37,0	67,0
150-315/4504	225M	45,0	81,0

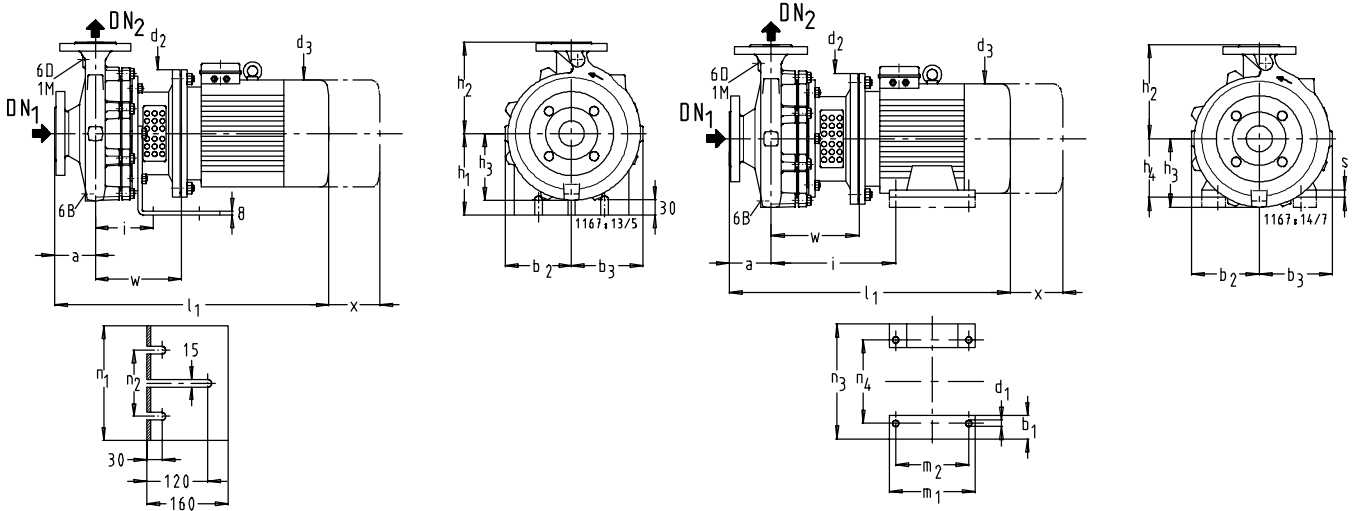
Etabloc N...ex	Ⓜ	kW	400 V ≈ A
≈ 2900 1/min ²⁾			
32-125.1/072	80a	0,75	1,76
32-125.1/132	90S	1,3	2,75
32-125.1/182	90L	1,85	3,85
32-160.1/252	100L	2,5	5,2
32-160.1/332	112M	3,3	6,9
32-200.1/462	132Sa	4,6	9,0
32-250.1/752	160Ma	7,5	13,2
32-125/132	90S	1,3	2,75
32-125/182	90L	1,85	3,85
32-125/252	100L	2,5	5,2
32-160/332	112M	3,3	6,9
32-200/462	132S	4,6	9,0
32-200/752	160Ma	7,5	13,2
40-125/182	90L	1,85	3,85
40-125/252	100L	2,5	5,2
40-125/332	112M	3,3	6,9
40-160/462	132Sa	4,6	9,0
40-160/752	160Ma	7,5	13,2
50-125/332	112M	3,3	6,9
50-125/462	132Sa	4,6	9,0
50-160/752	160Ma	7,5	13,2
65-125/462	132Sa	4,6	9,0
65-125/752	160Ma	7,5	13,2
≈ 1450 1/min			
32-200.1/054	80a	0,55	1,5
32-200.1/074	80b	0,75	2,0
32-250.1/134	90L	1,35	3,1
32-160/054	80a	0,55	1,5
32-200/074	80b	0,75	2,0
32-250/134	90L	1,35	3,1
40-125/054	80a	0,55	1,5
40-160/074	80b	0,75	2,0
40-200/134	90L	1,35	3,1
50-125/054	80a	0,55	1,5
50-125/074	80b	0,75	2,0
50-160/134	90L	1,35	3,1
65-125/074	80b	0,75	2,0
65-160/134	90L	1,35	3,1

1) zweistufig/two stages/2 étages/a due stadi/tweetraps
 2) The current values A given are guide values. For exact current values please refer to the motor nameplate.

Etabloc GN, MN 32-125/... - 40-250/..., n ≈ 2900 1/min

mit Stützfuß (bis Motorbaugröße 112 = 4 kW)
 mit Motorfuß (ab Motorbaugröße 132 = 5,5 kW)
 with support foot (up to motor size 112 = 4 kW)
 with motor foot (motor size 132 = 5.5 kW and above)
 avec béquille (jusqu'à taille de moteur 112 = 4 kW)

avec pied de moteur (à partir de la taille de moteur 132 = 5,5 kW)
 con piede angolare (fino alla grandezza del motore 112 = 4 kW)
 con piede di fusione (a partire della grandezza del motore 132 = 5,5 kW)
 met voetsteen (tot motorgrootte 112 = 4 kW)
 met motorvoet (vanaf motorgrootte 132 = 5,5 kW)



1 M	Druckmeßgerät-Anschluß / Pressure gauge connection / Indicateur de pression / Manomètre / Manometro / Manometer	Rc 3/8 1)
6 B	Förderflüssigkeit-Entleerung / Casing drain / Vidange du liquide pompé / Scarico del liquido convogliato / Vloeistof- aftap	Rc 3/8 1)
6 D	Förderflüssigkeit-Auffüllen und Entlüften / Filling and venting of medium handled / Remplissage et purge d'air du liquide pompé / Riempimento del liquido convogliato spurgo dell'aria / Vloeistof vullen en ontluften	Rc 3/8 1)

Etabloc GN, MN	DN ₁ ²⁾	DN ₂ ²⁾	a	b ₁ ≈	b ₂	b ₃	d ₁	d ₂	d ₃ ≈	h ₁	h ₂	h ₃	h ₄	i	l ₁ ≈	m ₁ ≈	m ₂	n ₁	n ₂	n ₃ ≈	n ₄	s	w	x	
32-125.1/072	50	32	80		113	113		200	160	160	140	103		118	457			225	130				156	100	
32-125.1/112	50	32	80		113	113		200	160	160	140	103		118	491			225	130				156	100	
32-125.1/152.2	50	32	80		113	113		200	178	160	140	103		118	518			225	130				156	100	
32-125.1/152.1	50	32	80		113	113		200	178	160	140	103		118	518			225	130				156	100	
32-125.1/222	50	32	80		113	113		200	178	160	140	103		118	525			225	130				156	100	
32-160.1/222.2	50	32	80		116	125		200	178	160	160	115		118	525			225	130				156	100	
32-160.1/222.1	50	32	80		116	125		200	178	160	160	115		118	525			225	130				156	100	
32-160.1/302	50	32	80		116	125		250	198	160	160	115		118	563			225	130				170	100	
32-200.1/302	50	32	80		128	137		250	198	160	180	130		118	563			225	130				170	100	
32-200.1/402.2	50	32	80		128	137		250	222	160	180	130		118	584			225	130				170	100	
32-200.1/402.1	50	32	80		128	137		250	222	160	180	130		118	584			225	130				170	100	
32-200.1/552 3)	50	32	80	43	128	137	12	300	265		180	130	132	282	672	220	140				270	216	15	193	100
32-250.1/752 3)4)	50	32	100	43	164	171	12	300	265		225	162	132	282	692	220	140				270	216	15	193	100
32-250.1/1102 3)4)	50	32	100	70	164	171	14	350	323		225	162	160	334	872	300	210				320	254	21	226	100
32-125/112	50	32	80		113	113		200	160	160	140	103		118	491			225	130				156	100	
32-125/152	50	32	80		113	113		200	178	160	140	103		118	518			225	130				156	100	
32-125/222	50	32	80		113	113		200	178	160	140	103		118	525			225	130				156	100	
32-125/302	50	32	80		113	113		250	198	160	140	103		118	563			225	130				170	100	
32-160/302.2	50	32	80		113	125		250	198	160	160	115		118	563			225	130				170	100	
32-160/302.1	50	32	80		113	125		250	198	160	160	115		118	563			225	130				170	100	
32-160/402	50	32	80		113	125		250	222	160	160	115		118	584			225	130				170	100	
32-200/552.2 3)4)	50	32	80	43	132	141	12	300	265		180	133	132	282	672	220	140				270	216	15	193	100
32-200/552.1 3)4)	50	32	80	43	132	141	12	300	265		180	133	132	282	672	220	140				270	216	15	193	100
32-200/752 3)4)	50	32	80	43	132	141	12	300	265		180	133	132	282	672	220	140				270	216	15	193	100
32-250/1102.2 3)4)	50	32	100	70	170	176	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
32-250/1102.1 3)4)	50	32	100	70	170	176	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
32-250/1502 3)4)	50	32	100	70	170	176	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
40-125/152	65	40	80		113	113		200	178	160	140	103		118	518			225	130				156	100	
40-125/222.2	65	40	80		113	113		200	178	160	140	103		118	525			225	130				156	100	
40-125/222.1	65	40	80		113	113		200	178	160	140	103		118	525			225	130				156	100	
40-125/302.2	65	40	80		113	113		250	198	160	140	103		118	563			225	130				170	100	
40-125/302.1	65	40	80		113	113		250	198	160	140	103		118	563			225	130				170	100	
40-125/402	65	40	80		113	113		250	222	160	140	103		118	584			225	130				170	100	
40-160/402	65	40	80		115	131		250	222	160	160	118		118	584			225	130				170	100	
40-160/552.2 3)	65	40	80	43	115	131	12	300	265		160	118	132	282	672	220	140				270	216	15	193	100
40-160/552.1 3)	65	40	80	43	115	131	12	300	265		160	118	132	282	672	220	140				270	216	15	193	100
40-160/752 3)	65	40	80	43	115	131	12	300	265		160	118	132	282	672	220	140				270	216	15	193	100
40-200/752 3)4)	65	40	100	43	140	152	12	300	265		180	140	132	282	692	220	140				270	216	15	193	100
40-200/1102 3)	65	40	100	70	140	152	14	350	323		180	140	160	334	872	300	210				320	254	21	226	100
40-250/1102 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
40-250/1502.3 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
40-250/1502.2 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
40-250/1502.1 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	300	210				320	254	21	226	100
40-250/1852.2 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	314	254				320	254	21	226	100
40-250/1852.1 3)4)	65	40	100	70	165	178	14	350	323		225	168	160	334	872	314	254				320	254	21	226	100
40-250/2202	65	40	100	80	165	178	14	350	355		225	168	180	347	936	320	241				360	279	23	226	100

1) Rc = ISO 7/1 2) DN = EN 1092-2/DN.../PN 16/21/B 3) On these pump sizes, the motor feet have to be underpinned by 20 mm thick shims 4) $h_3 \geq h_4$

