

Boiler feed pumps

ES series

with mechanical seal or stuffing box packing

PN 40 or PN 63

Research and development with recent test stands



Computer-controlled and fully automated test stands on the premises of Speck in Roth.

Measuring of hydraulics, power requirements, axial thrust, vibrations and NPSH values. Heads of up to 400 m and flow rates of up to 750 m³/h are possible.



Thermal oil test stand with pump surveillance system on the premises of Speck in Roth.

Research of impacts of high temperatures up to 350 °C on the lifetime of the pumps.

Your contacts

Speck Pumpen Walter Speck GmbH & Co. KG

Regensburger Ring 6 – 8
91154 Roth / Germany
Phone: +49 9171 809 0
Fax: +49 9171 809 10
info@speck.de
www.speck.de

International representatives

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Boiler feed pumps made by Speck

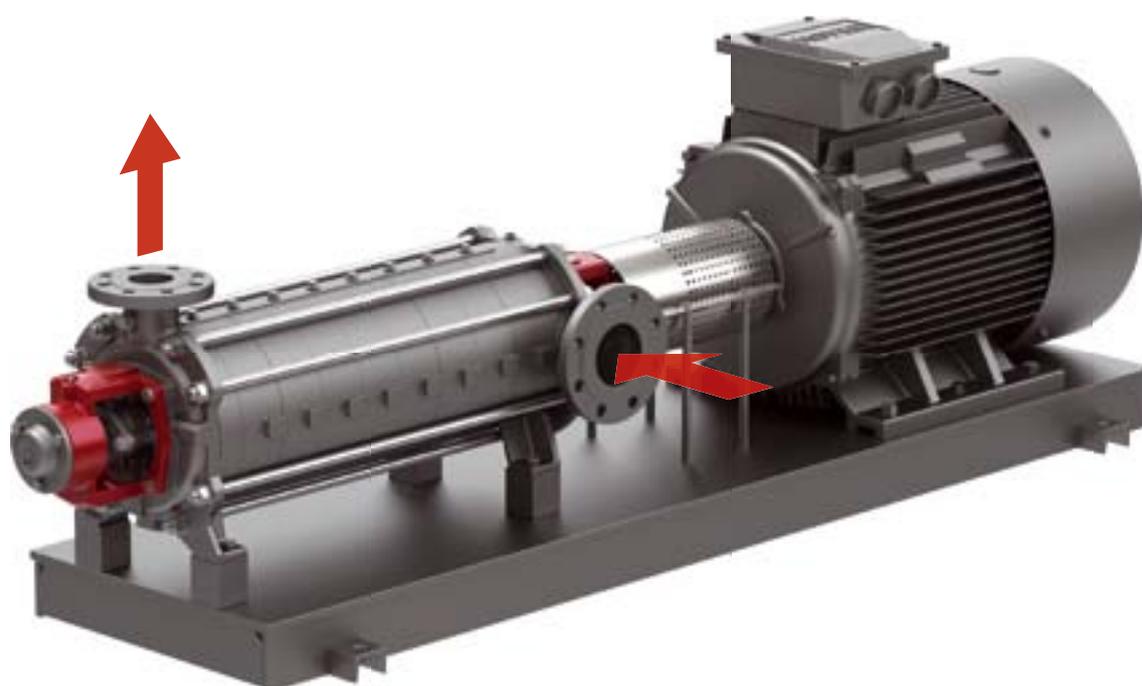
ES series

- » Horizontal multistage modular pumps
- » Designed for the delivery and circulation of clear or slightly contaminated liquids
- » Suitable for liquids without abrasive contaminants and without solid particles
- » Shaft bearing with two external rolling bearings
- » Hydraulically balanced impellers
- » Cast iron version and spheroidal graphite cast iron version

With mechanical seal

With stuffing box packing

Nominal pressure	PN 40 or PN 63
50 Hz	$H_{\max.}$ 630 m / $Q_{\max.}$ 110 m ³ /h
60 Hz	$H_{\max.}$ 400 m / $Q_{\max.}$ 125 m ³ /h



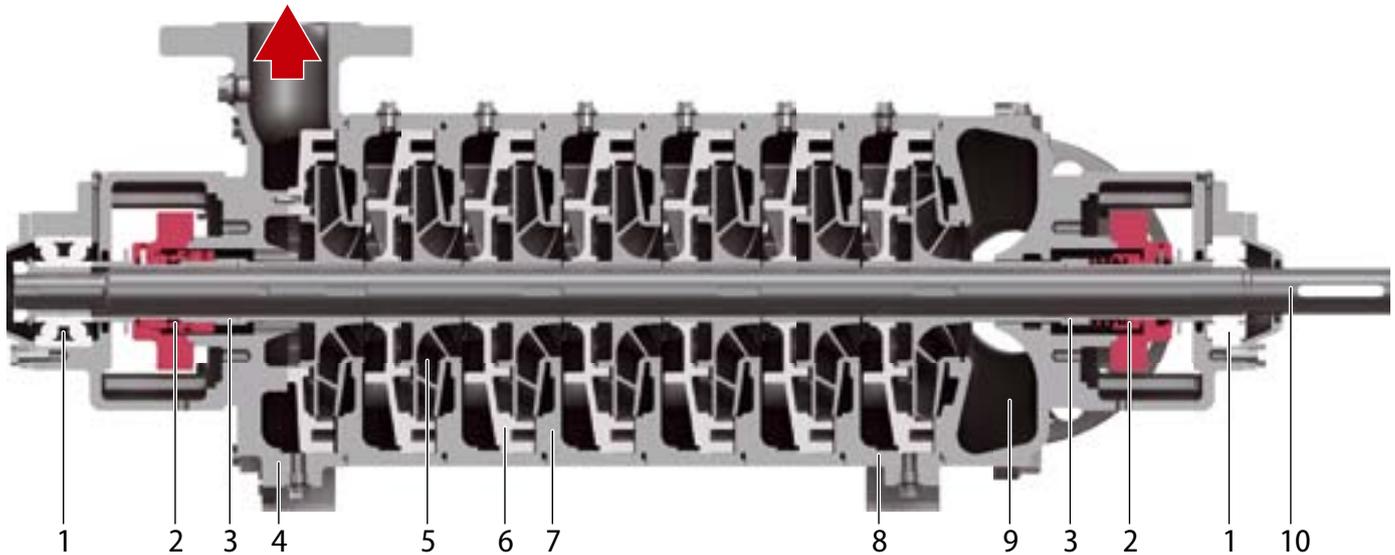
Proven boiler feed pumps for universal applications

Main applications

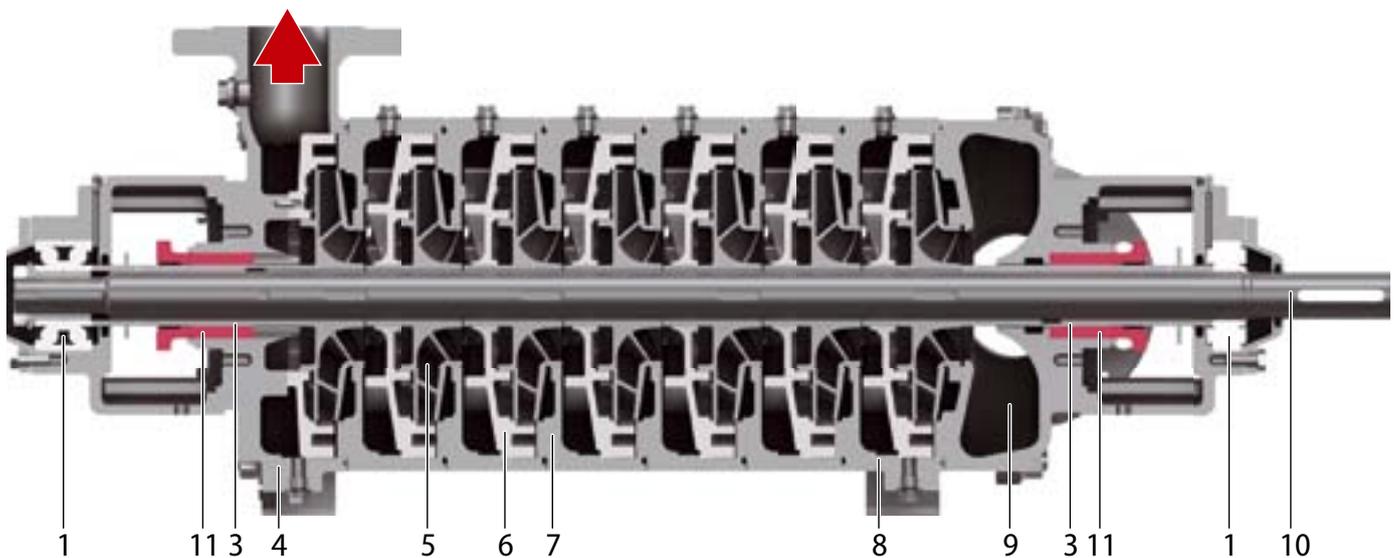
- » Delivery of hot water in boiler systems
- » Booster stations
- » Water supply units
- » Sprinkler units
- » Cleaning stations
- » Recovering of condensates (water)
- » Extracting palm oil

Modular system

Pumps with mechanical seal



Pumps with stuffing box packing



No.	Designation
1	Rolling bearing
2	Mechanical seal
3	Shaft protection sleeve
4	Discharge casing
5	Impeller
6	Diffuser insert

No.	Designation
7	Stage casing
8	Stage casing with foot
9	Suction casing, from stage number 3: rotatable in steps of 90°
10	Shaft
11	Stuffing box packing

Type code

Denomination

Type code Example	ES-	40	07	LL	G2-	30	001
Denomination of series							
Pump size							
Number of stages							
Shaft bearing (table 1)							
Shaft sealing (table 2)							
Material design (table 3)							
Counting number							

Table 1 - Shaft bearing

Code	LL	LL	LL
Types / Sizes	ES-32	ES-40 / ES-50	ES-65 (PN 40) / ES-65 (PN 63)
Design	1 roller bearing, 1 ball bearing	2 ball bearings	1 rolling bearing, 1 ball bearing

Table 2 - Shaft sealing

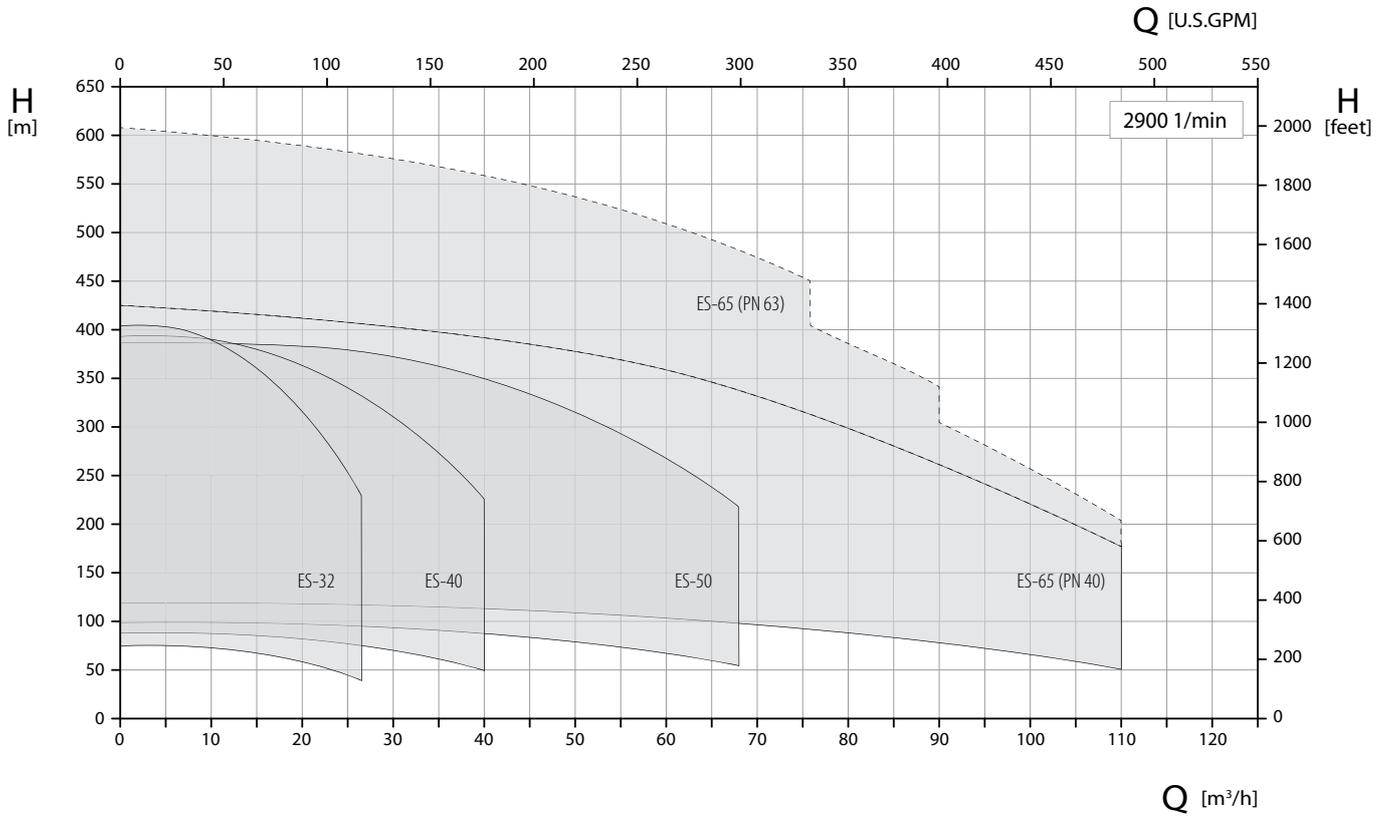
Code	G1	G2	G4	X	SB	G6
Types / Sizes	ES-32 / ES-40 / ES-50 / ES-65 (PN 40)					ES-65 (PN 63)
Shaft sealing	Mechanical seal				Stuffing box packing	Mechanical seal
Material	SiC, carbon, FKM			Special version	PTFE, graphite	SiC, carbon, FKM
Max. operating pressure	suction side	12 bar 174 psi			–	16 bar 232 psi
	discharge side	12 bar 174 psi	25 bar 362 psi		40 bar 580 psi	63 bar 910 psi

Table 3 - Material design

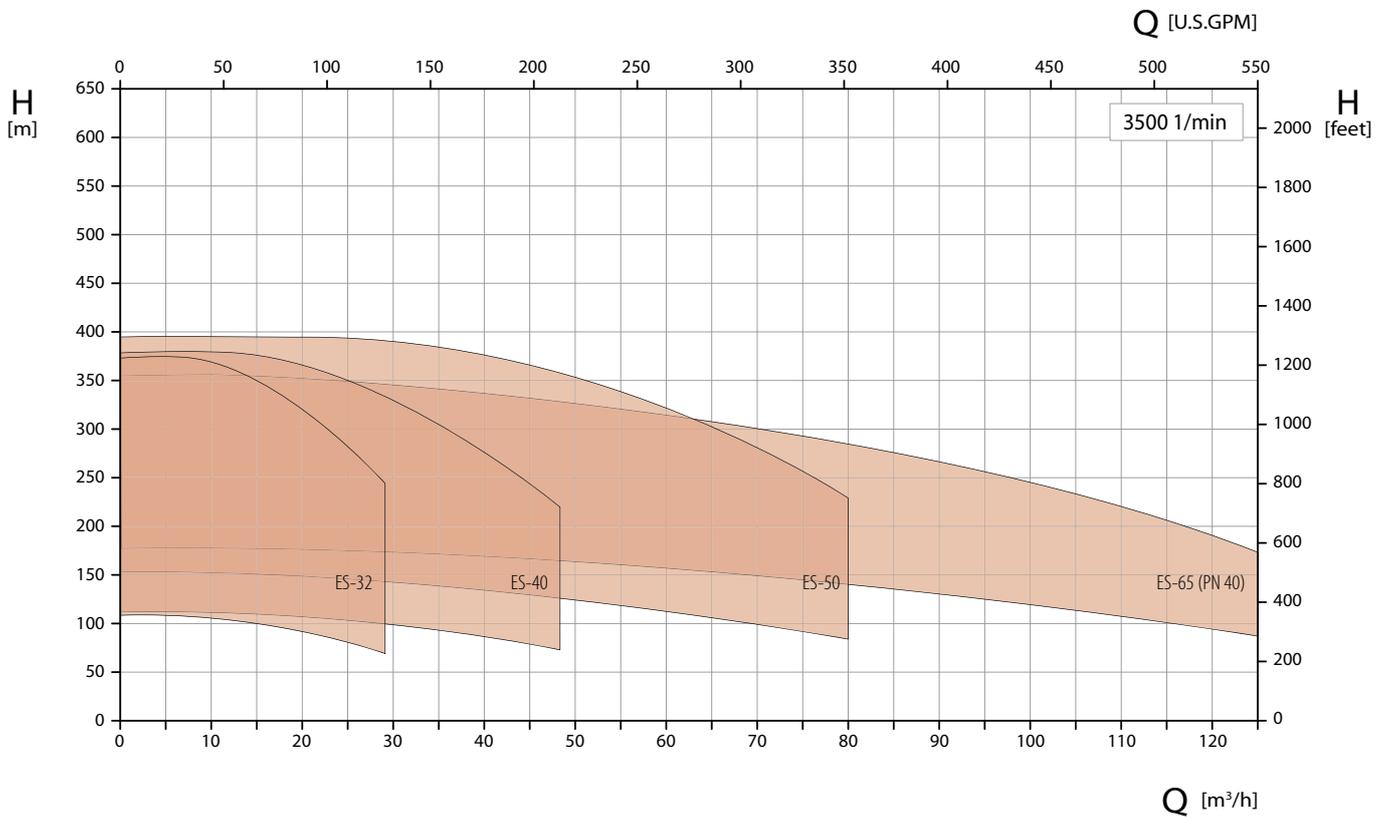
Code	30	30
Types / Sizes	ES-32 / ES-40 / ES-50	ES-65
Suction casing	EN-GJL-200 Cast iron	EN-GJS-400-15 Spheroidal graphite cast iron
Discharge casing		
Stage casing		
Stage casing with foot		
Diffuser insert	EN-GJL-250	
Impeller	Cast iron	
Shaft	1.4021 Cr-steel	1.4021 Cr-steel
Shaft protection sleeve	1.4122 CrMo-steel	1.4122 CrMo-steel

Performance range

50 Hz



60 Hz



Order-related tests and dimensioning

Pressure tests

Speck carries out the tests below as standard:

Gas pressure test

The gas pressure test is used to prove that the components are leak-proof. All components that bear pressure are tested, such as the discharge casing and the suction casing, stages and mechanical seal casing. The test is carried out with forming gas at 2 bar. The holding time is 15 minutes.

Hydrostatic pressure test

The hydrostatic pressure test is used to prove strength of the components and that the pump is leak-proof. The fully assembled pump is tested. The test is carried out with a hydrostatic test pressure based on prEN 12162; the hydrostatic test pressure corresponds to 1.5 x the nominal pressure (PN16) at 20 °C. The holding time is 10 minutes.

If you want to use pressure tests according to different criteria, please enter them in the request.

Testing the performance

At the customer's request, Speck offers the following tests:

Hydraulic tests

Measurement according to EN ISO 9906, Class II, Acceptance class 2B, Edition March 2013

NPSH test

In this test, the suction-side pressure is gradually reduced until the decrease in the delivered head reaches 3 % at a constant flow rate. At least four flows are evaluated that are spread appropriately over the admissible operating range. The NPSH value is not a guarantee point.

Vibration test

Vibration test according to EN ISO 5199, Edition 2002

The vibration values are measured radially and vertically at every operating point on the bearing casing at the nominal speed and with the corresponding flow rate.

Temperature measurement

The measurement is taken on the motor-side bearing at operating temperature. The operating temperature and the ambient temperature at every operating point measured are documented.

Standard conditions at site

- » Ambient temperature from - 20 °C to + 40 °C
- » Permissible altitude up to 1000 m above sea level

Deviations from the site conditions specified herein must already be disclosed in the inquiry.

Dimensioning

Assessment of the maximum pump outlet pressure

The pump outlet pressure at the pump outlet nozzle depends on

- » the pump inlet pressure
- » the density of the medium to be pumped

The maximum pump outlet pressure $p_{2\max\text{ op}}$ is calculated using the formula:

$$p_{2\max\text{ op}} = p_{1\max\text{ op}} + \rho \cdot g \cdot H \cdot 10^{-5}$$

With:

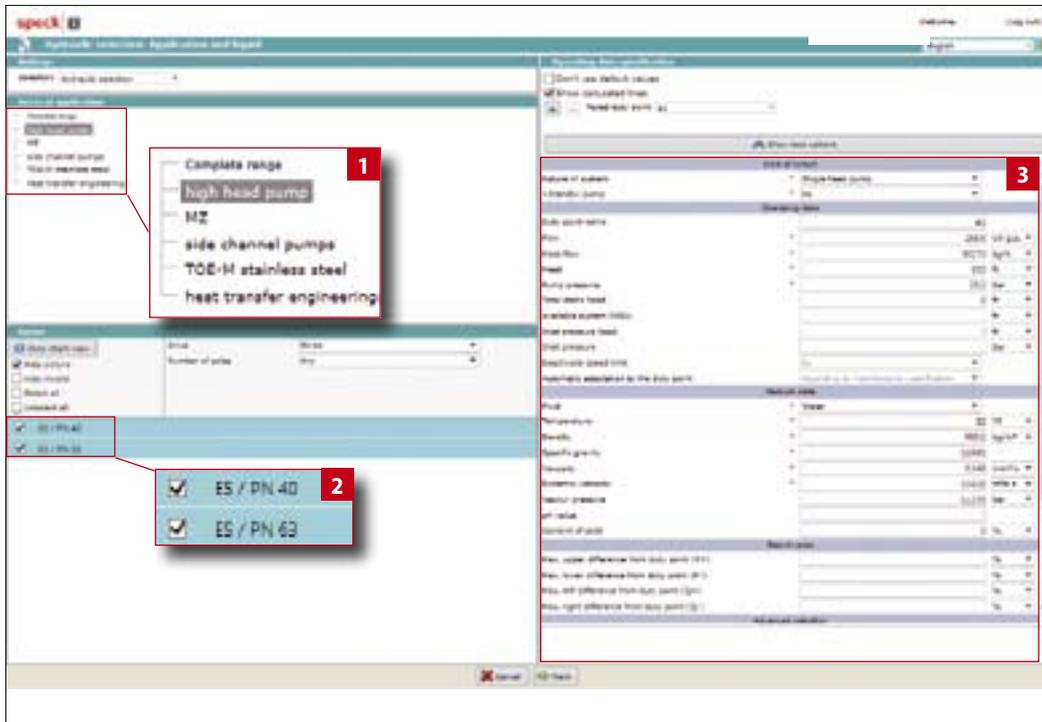
- $p_{2\max\text{ op}}$ = maximum pump outlet pressure [bar]
- $p_{1\max\text{ op}}$ = maximum pump inlet pressure [bar]
- ρ = density of the medium to be pumped [kg/m³]
- g = gravitation constant [m/s²]
- H = maximum total head at zero flow or at the peak of the pump's characteristic curve [m]

Pumps must be selected and operated in a way which ensures that the maximum pump outlet pressure does by no means exceed the maximum permissible operating pressure of the casing $p_{\text{all w c}}$ at operating pressure.

This also applies to commissioning while the discharge valve is closed.

Simple and optimal configuration software

SPAIX selection program



The software allows you to configure heat transfer pumps, side channel pumps and boiler feed pumps via your Internet browser. As well as design details, the system will also request operating details and details about the medium to be pumped.

Ideal for system planners

Speck now also offers the latest version 4 of the renowned SPAIX design software.

We make the program available to authorised customers who can pre-select the pumps within their system.

The web-based software always accesses an up-to-date database.

Easy pre-selection

The configuration system avoids a wide range of selection parameters with regard to design, sealing systems, hydraulics, operating conditions and media.

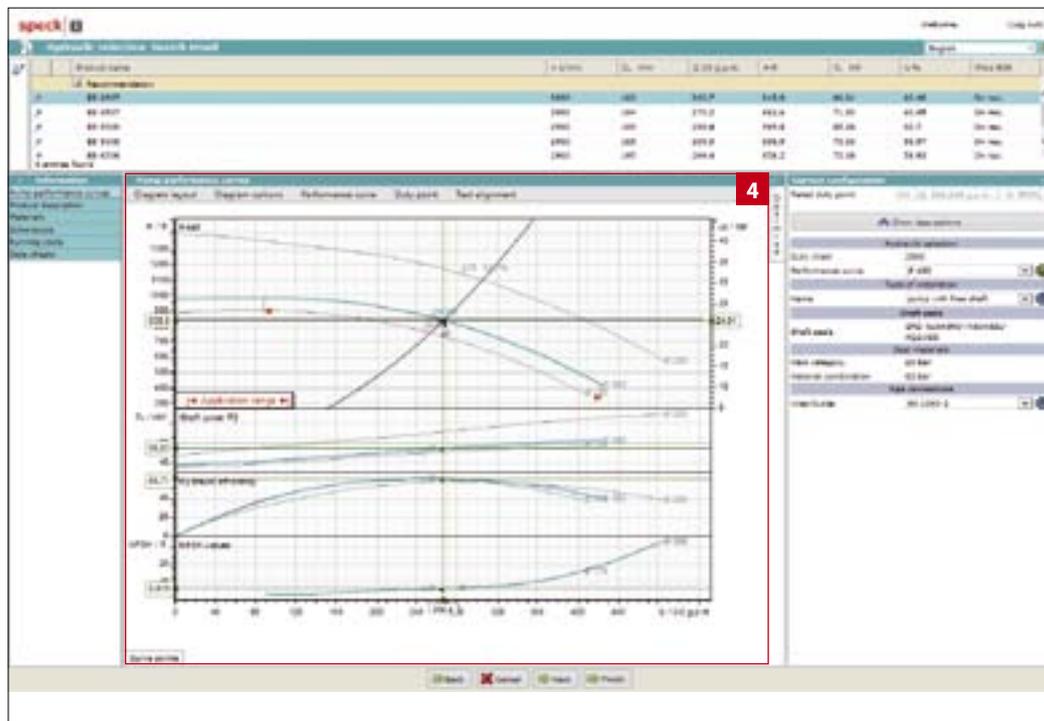
The software has language options for German and English.

Checking the pre-selection

When the order is submitted, the customer's choices are double-checked to ensure that your project requirements are met.

Key

- 1** List of all pump designs that can be configured in the software
- 2** List of all series within the pump designs
- 3** Selection parameters operating parameters and medium data in the first instance
- 4** Characteristic curve depending on hydraulic selection generated

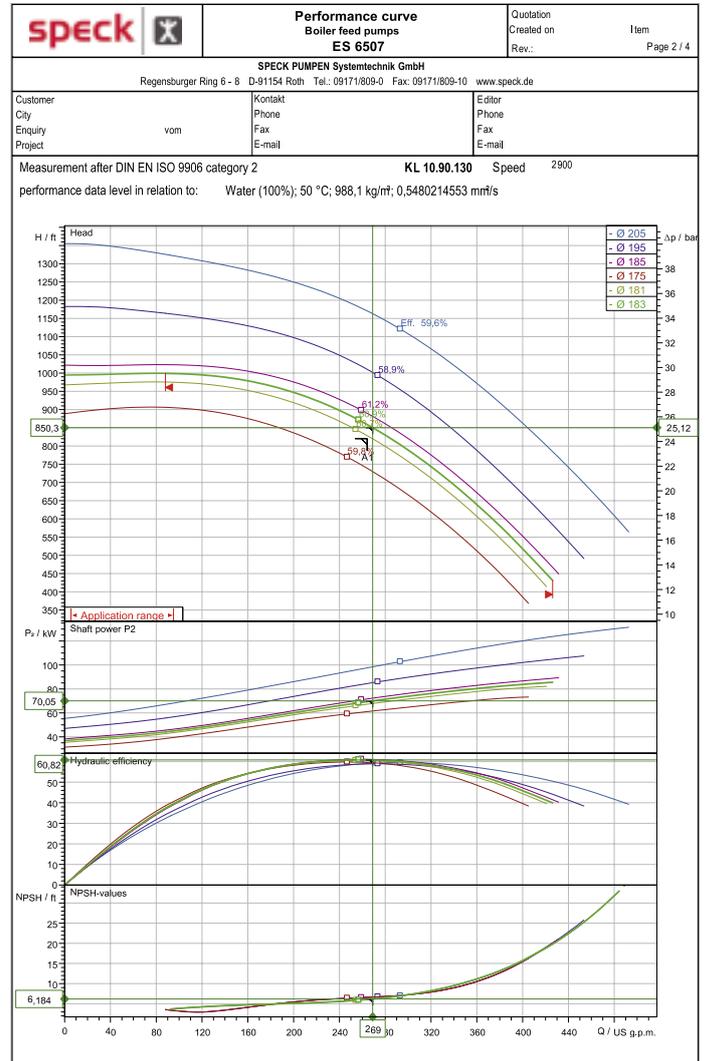


Characteristic curve depending on hydraulic selection

Documentation based on the selection program

speck		Data Sheet Boiler feed pumps ES 6507		Quotation Created on Rev.:	Item Page 1 / 4		
SPECK PUMPEN Systemtechnik GmbH Regensburger Ring 6 - 8 D-91154 Roth Tel.: 09171/809-0 Fax: 09171/809-10 www.speck.de							
Customer	vom		Kontakt Phone	Editor Phone			
City			Fax	Fax			
Enquiry			E-mail	E-mail			
Project							
Operating Data							
1 Fluid	Water	Flow rate	rated	269 US g.p.m.	Speed	2900 1/min	
2 Corrosive matters	keine/hot	Wghtl.-%	min / max	80,7 / 426,2 US g.p.m.	Hydr. efficiency	60,82 %	
3 Abrasive matters	keine/hot	Wghtl.-%	Inlet	0 bar (0)	hydr. power cons.	70,05 kW	
4 Solids	0	Wghtl.-%	Disch.	25,12 bar (0)	Max. operating pressure	28,4 bar (0)	
5 Oper. Temp. IW / IS	50 °C	Head		850,3 ft			
6 Density at tw	988,1 kg/m³	Pressure differential		25,12 bar (0)	Start-up temp.	°C	
7 Kin. viscosity at IW / IS	0,548 mm²/s				Flow rate at cold start	US g.p.m.	
8 Vapor press. at IA	0,1233 bar	NPSH	System required	9,08 ft	Total abs. power at cold start	kW	
9 PH value	7			6,68 ft			
Installation / Environment							
10 Building / Outside	Gebäude	Altitude	<	3281 ft	Amb. Temp. min	20 / 40 °C	
11 under roof yes/no	Ja / Yes	Hazardous area			rel. Humidity	<55 %	
Pumps							
12 No of stages Impeller-Ø	mm	6	175	Impeller type		Pressure rating	PN 16
13 1	205	7	175	direction of rotation	right	nom. diam. DN	DN 100
14 2	195	8				Standard	EN 1092-2
15 3	175	9				Pressure rating	PN 40
16 4	175	10				nom. diam. DN	DN 65
17 5	175	11				Standard	EN 1092-2
Accessories							
18	Motor		Shaft seal		Base plate		
19 Make		Type		GRD NU045R0-1N04551-AQ1VGG	Description		
20 Specific design		Number of poles		Max. 120 °C / 63 bar	Specific design		
21 Rated power	kW	Degree of prot.	±5%		Length	mm	
22 Rated current	A	Frequency	±2%	Hz	Width	mm	
23 1-phase / 3-phs		Voltage	V	Series			
24 Sound pressure level	dB(A)	Mounting		Frame size	Coupling protection		
25 Explosion protection				Spacer length	mm		
Materials							
26 Suction casing	EN-GJS-400-15	Discharge casing		EN-GJS-400-15			
27 Stage casing	EN-GJS-400-15	Suction stage with foot		EN-GJS-400-15			
28 Diffuser insert	EN-GJL-250	Impeller		EN-GJL-250			
29 Bearing support	EN-GJL-250	Bearing cover		EN-GJL-250			
30 Shaft	1.4122	O-ring		Viton			
31							
32							
Tests and Inspections							
33	Material Tests	Test	Certificate	Other Tests	Tests and Inspections	Certificate	Qty
34 Suction casing	keine	keine	Hydrost. Pressure Test	Intem	Keine	alle	
35 Discharge casing	keine	keine	Gas Pressure Test	Intem	Keine	alle	
36 Stage casing	keine	keine	Performance curve	Keine	Keine	alle	
37 Suction stage with foot	keine	keine	NPSH-Measurement	Keine	Keine	alle	
38 Diffuser insert	keine	keine	Final check	Intem	Keine	alle	
39			Vibration	Keine	Keine	alle	
40			temperature	Keine	Keine	alle	
41			Max. operating pressure	63 bar / 20°C	X 1	Factor 1,3	test time 30 min
Shipping data							
42 Net weight appr.	kg	Gross weight appr.	kg	pump color		motor color	
Documentation							
43 Dimensional drwg.	Cross sect. drwg.	Performance curve No.	Oper & Instruct. Man.	Other (see attached)		Qty	
44 Rp 8.30. xxx	E 4022. xxx	KL 10.90.130	DE 1096.0902			1	
Remarks							
45	motor article						
46	1) Motor equipment corresponds to ISO 9908						
	2) According to EN 10204						
	3) Yokite casing & casing cover						
	4) Without NPSH test						
	5) Scope of deliv. to price sheet						

Technical data sheet (example)



Characteristic curve (example)

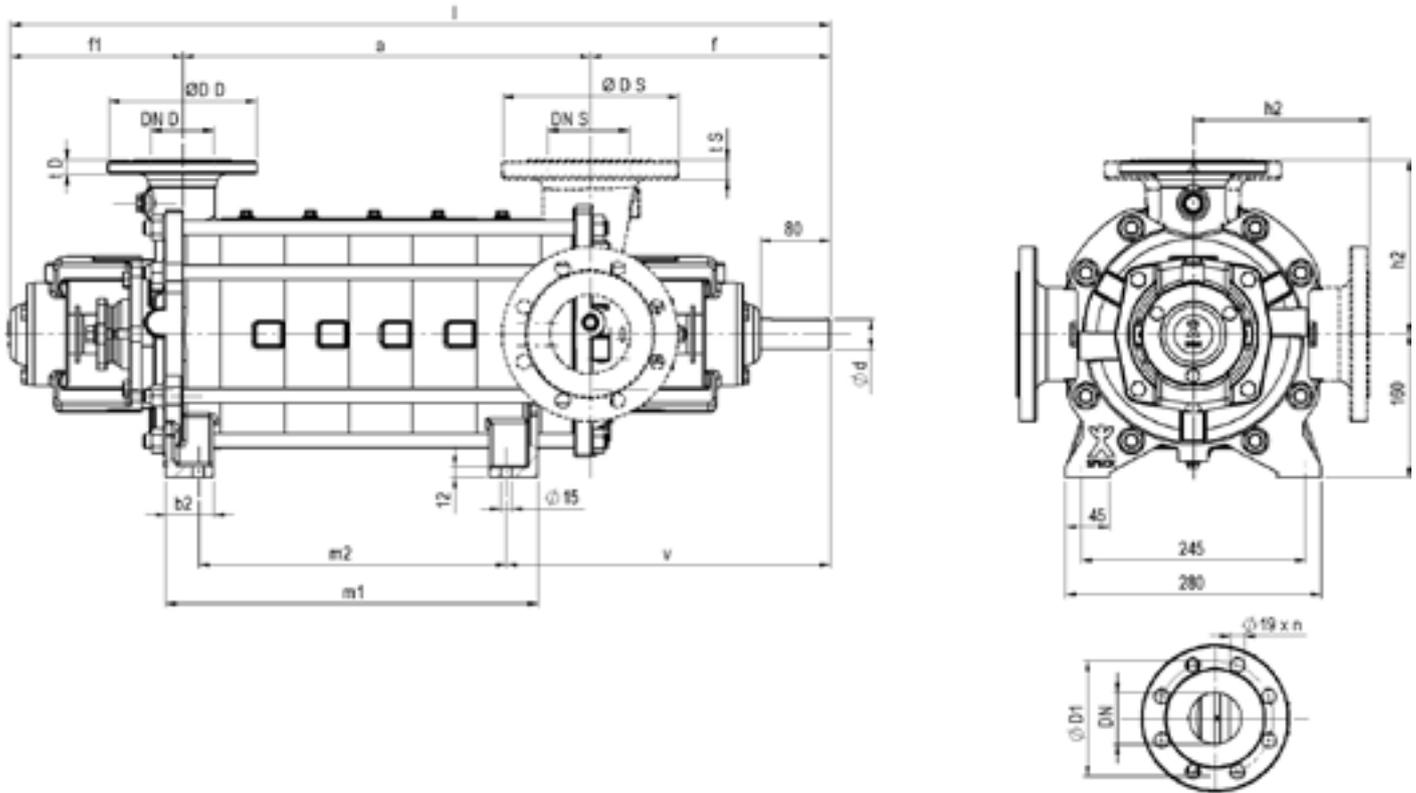
speck		Dimension drawing Boiler feed pumps ES 6507		Customer City	Kontakt Phone Fax E-Mail	Editor Phone Fax E-Mail
SPECK PUMPEN Systemtechnik GmbH Regensburger Ring 6 - 8 D-91154 Roth Tel.: 09171/809-0 Fax: 09171/809-10 www.speck.de						Created on 2015-07-09 Item Rev. 2015-07-09 Page 4 / 4
Pumpe freie Welle		Motor		Anschlüsse		Dimensions in mm
		Suction port EN 1092-2 DN 100 PN 16 ø D1 180 mm ø D2 19 mm D2 x 8		Delivery port EN 1092-2 DN 65 PN 40 ø D1 145 mm ø D2 19 mm D2 x 8		DNS 100 DS 220 IS 24 DND 60 DD 180 ID 24 a 510 m1 460 m2 380 l 1020

Dimensional drawing (example)

Save projects

Interim configuration results such as characteristic curves, scale drawings or technical data sheets can be saved as a project and generated as a pdf file.

ES-32 / 40 / 50 – Dimensions



ES-32 | PN 40 | Cast iron

Size	a	m1	m2	(l)	b2	Ød	f1	f	h2
ES-3202	118	103	53	522					
ES-3203	173	158	108	577					
ES-3204	228	213	163	632					
ES-3205	283	268	218	687					
ES-3206	338	323	273	742	45	28	174	230	180
ES-3207	393	378	328	797					
ES-3208	448	433	383	852					
ES-3209	503	488	438	907					
ES-3210	558	543	492	962					
ES-3211	613	598	548	1017					

Discharge flange PN 40				
DND	DD	D1	n	tD
DN 32	140	100	4	22

Suction flange PN 16				
DNS	DS	D1	n	tS
DN 50	165	125	4	21

ES-40 | PN 40 | Cast iron

Size	a	m1	m2	(l)	b2	Ød	f1	f	h2
ES-4002	135	115	55	597					
ES-4003	195	175	115	657					
ES-4004	255	235	175	717					
ES-4005	315	295	235	777					
ES-4006	375	355	295	837	50	32	197	265	180
ES-4007	435	415	355	897					
ES-4008	495	475	415	957					
ES-4009	555	535	475	1017					

Discharge flange PN 40				
DND	DD	D1	n	tD
DN 40	150	110	4	19

Suction flange PN 16				
DNS	DS	D1	n	tS
DN 65	185	145	4	21

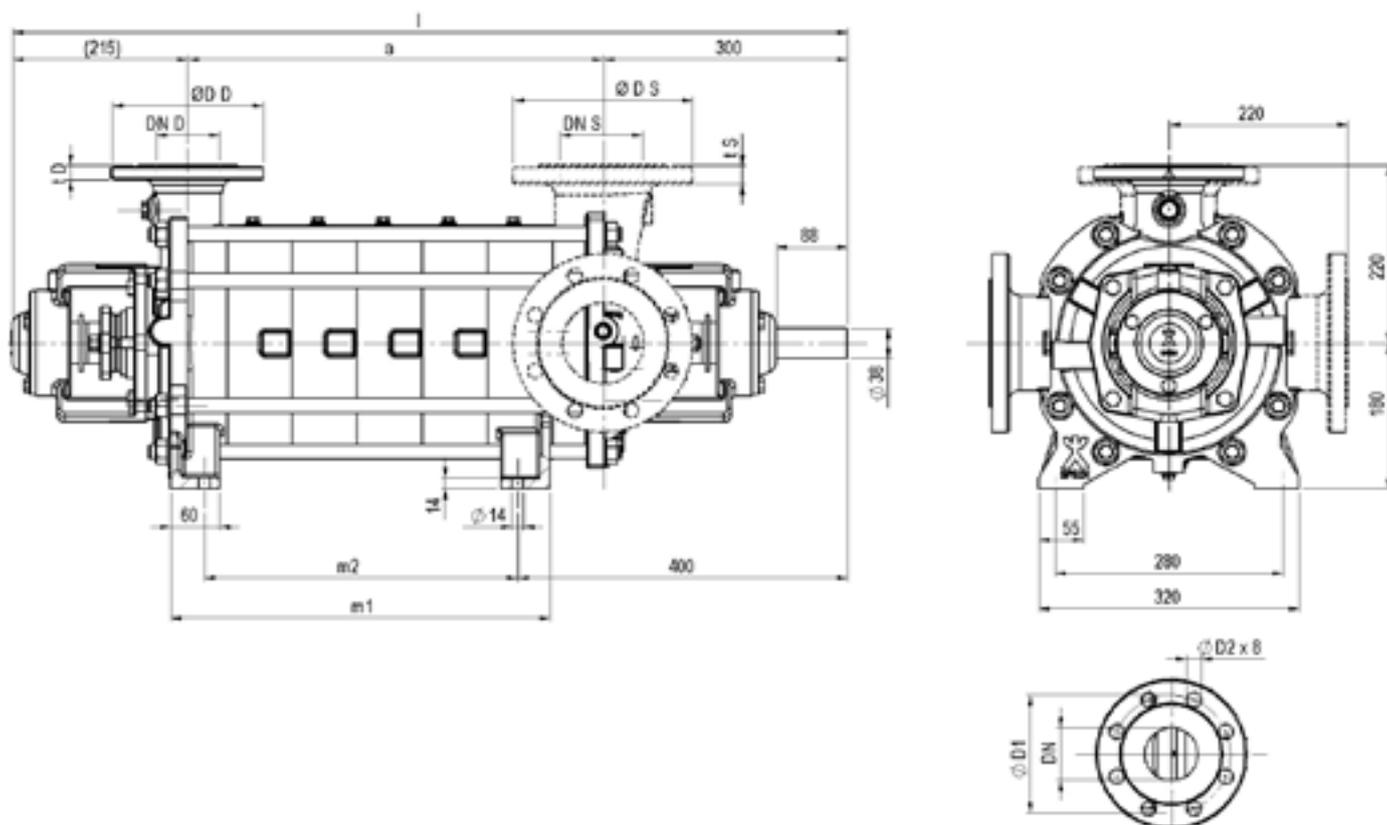
ES-50 | PN 40 | Cast iron

Size	a	m1	m2	(l)	b2	Ød	f1	f	h2
ES-5002	153	133	63	625					
ES-5003	218	198	128	690					
ES-5004	283	263	193	755					
ES-5005	348	328	258	820	55	32	197	275	200
ES-5006	413	393	323	885					
ES-5007	478	458	388	950					
ES-5008	543	523	453	1015					

Discharge flange PN 40				
DND	DD	D1	n	tD
DN 50	165	125	4	25

Suction flange PN 16				
DNS	DS	D1	n	tS
DN 80	200	160	8	25

ES-65 – Dimensions



ES-65 | PN 40 | Spheroidal graphite cast iron

Size	a	m1	m2	(l)	Ød	f1	f	h2
ES-6502	190	146	65	705				
ES-6503	270	226	145	785				
ES-6504	350	306	225	865				
ES-6505	430	386	305	945	38	215	300	220
ES-6506	510	466	385	1025				
ES-6507	590	546	465	1105				

Discharge flange PN 40				
DND	DD	D1	n	tD
DN 65	185	145	8	24

Suction flange PN 16				
DNS	DS	D1	n	tS
DN 100	220	180	8	24

ES-65 | PN 63 | Spheroidal graphite cast iron

Size	a	m1	m2	(l)	Ød	f1	f	h2
ES-6507	590	546	465	1105				
ES-6508	670	626	545	1185				
ES-6509	750	706	625	1265	38	215	300	220
ES-6510	830	786	705	1345				

Discharge flange PN 63				
DND	DD	D1	n	tD
DN 65	205	160	8	28

Suction flange PN 63				
DNS	DS	D1	n	tS
DN 100	253	200	8	33

Flanges

Flanges in acc. with EN 1092 PN 40.
Flanges in acc. with EN 1092-2, drilled in acc. with ANSI 150 lbs or 300 lbs on request.

Direction of rotation

Direction of rotation is clockwise with view towards pump shaft

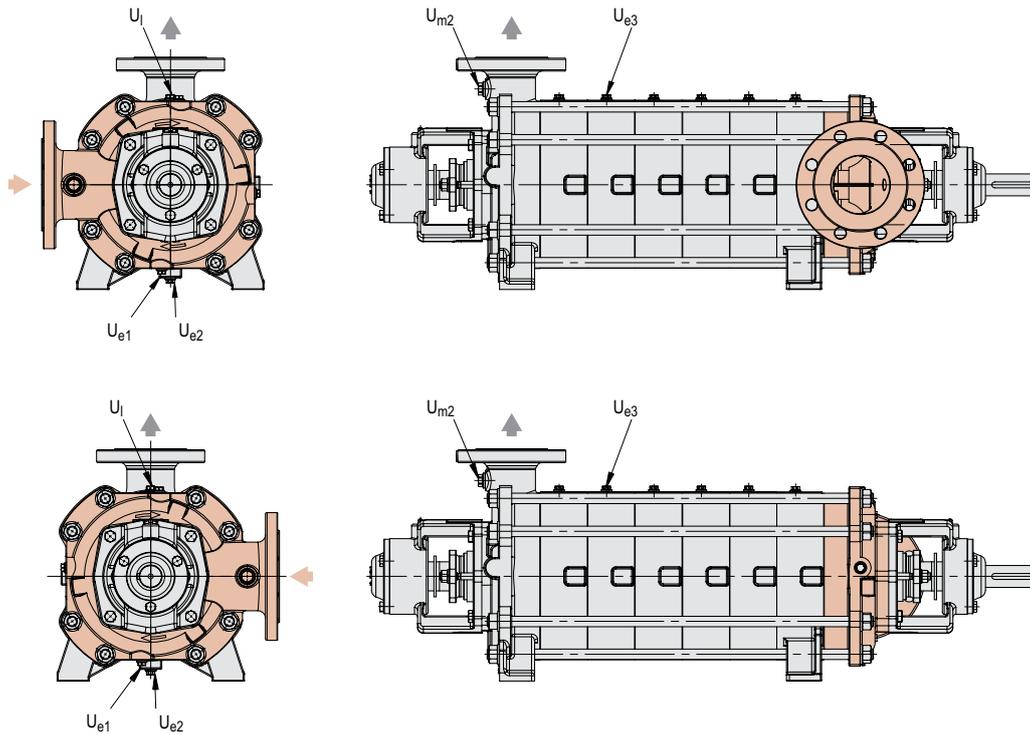
Connections

Position of inlet and outlet nozzle

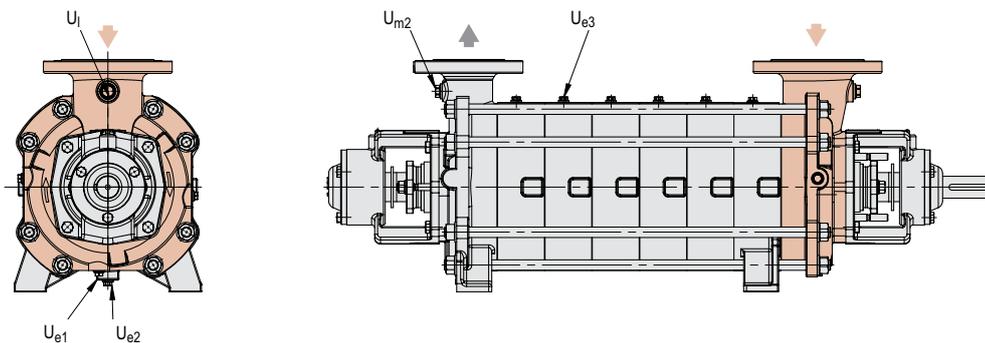
The outlet nozzle is always on the top. The inlet nozzle can be rotated 90°.

	Number of stages	
	2	≥ 3
Position of inlet nozzle	Nozzle at the side	Nozzle at the side / on top
Position of outlet nozzle	on top	on top

Inlet nozzle at the side

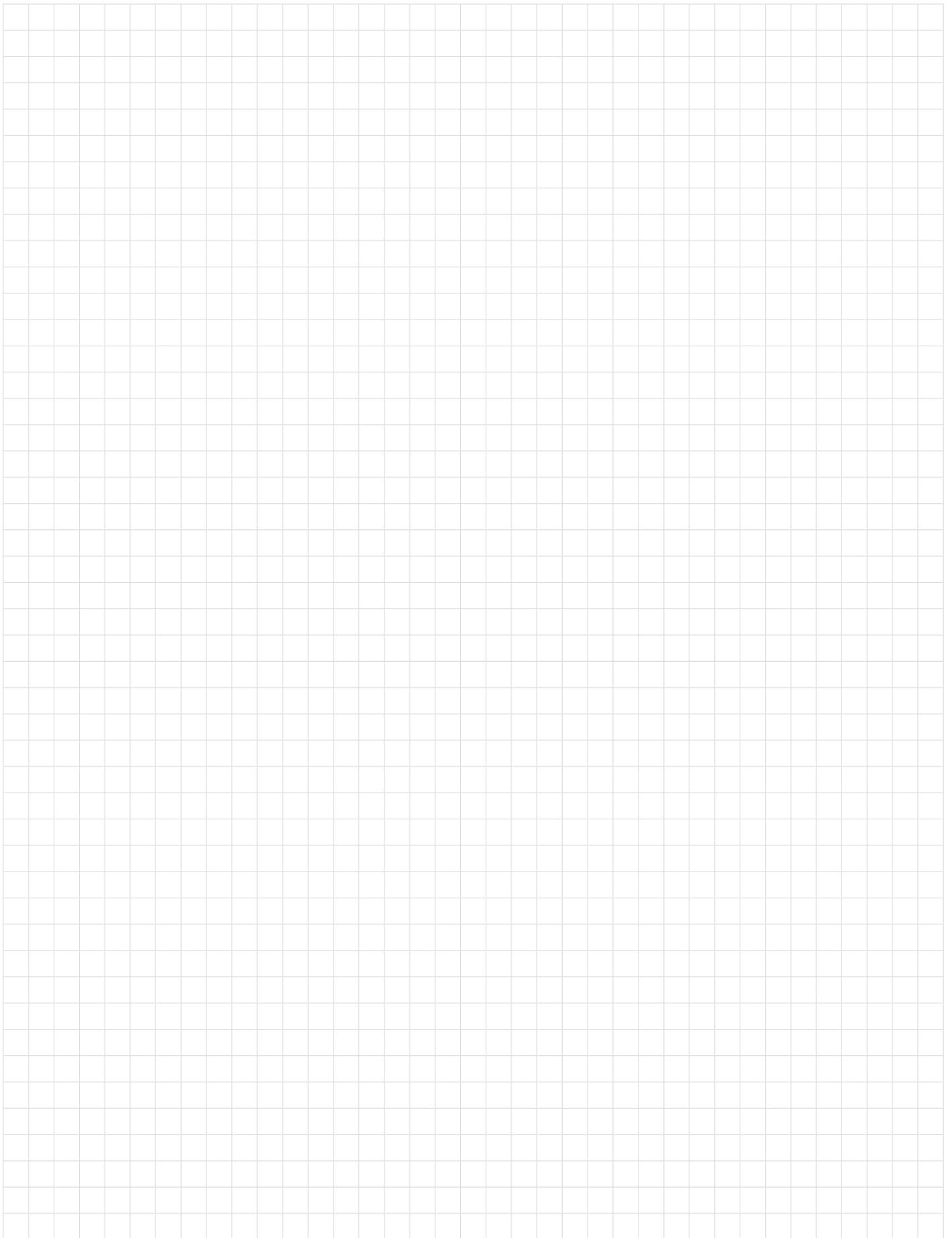


Inlet nozzle on top

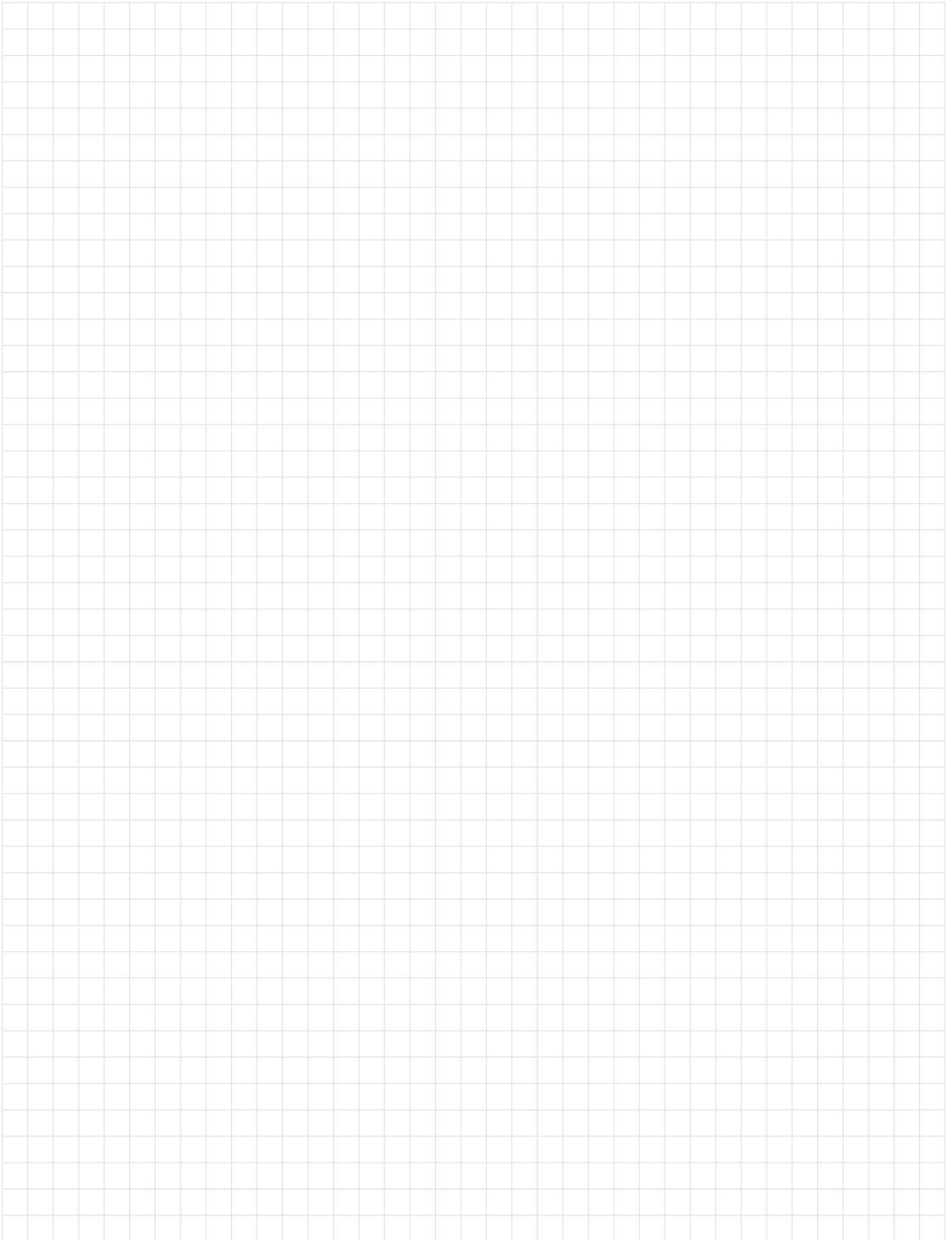


Designation	Connection	Sizes		
		ES-32	ES-40/ ES-50	ES-65
U_{e1}	Drainage (screw plug)	G 1/4	G 1/4	G 1/4
U_{e2}	Drainage (screw plug)	-	G 1/4	G 1/4
U_{e3}	Drainage (screw plug)	G 1/4	G 1/4	G 1/4
U_i	Vent (screw plug)	G 1/4	G 1/4	G 1/4
U_{m1}	Pressure gauge connection	G 3/8	G 3/8	G 1/2
U_{m2}	Pressure gauge connection	G 1/2	G 1/2	G 1/2

Your notes



Your notes



Representations

D Germany

Deutschland Ost
Huckauf Ingenieure GmbH
Rathausstraße 5
09244 Lichtenau
Tel.: +49 37 208 660 80
Fax: +49 37 208 660 77
info@huckauf.de
www.huckauf.de

Berlin
Huckauf Ingenieure GmbH
Fontanepromenade 17
10967 Berlin
Tel.: +49 30 890 959 92
Fax: +49 30 890 959 91
info@huckauf.de
www.huckauf.de

Norddeutschland
Ingenieure Willy Wandrach GmbH
Flurstraße 105
22549 Hamburg
Tel.: +49 40 398 624 0
Fax: +49 40 398 624 28
info@speck-nord.de
www.speck-nord.de

Hannover, Kassel
IVT – Pumpen GmbH
Zum Wischfeld 1A
31749 Auetal
Tel.: +49 5752 929 597
Fax: +49 5752 929 599
Mobile: +49 172 511 699 9
info@ivt-pumpen.de
www.ivt-pumpen.de

Köln
Huckauf Ingenieure GmbH
Grillenpfad 28
40764 Langenfeld
Tel.: +49 2173 914 560
Fax: +49 2173 914 588
info@huckauf.de
www.huckauf.de

Bayern, Baden-Württemberg
Speck Pumpen
VERKAUFSGESELLSCHAFT GMBH
Hauptstraße 1 – 3
91233 Neunkirchen a. Sand
Tel.: +49 9123 949 – 0
Fax: +49 9123 949 – 260
info@speck-pumps.com
www.speck-pumps.com

Service

Deutschland Mitte
FSE Fluid Systems Erfurt
Poeler Weg 6
99085 Erfurt
Tel.: +49 361 550 715 0
Fax: +49 361 550 715 19
info@fluidsystems.org
www.fluidsystems.org

Köln
Arpuma GmbH
Ottostraße 10
50170 Kerpen
Tel.: +49 2273 953 300 0
Fax: +49 2273 953 300 20
info@arpuma.de
www.arpuma.de

International

A Austria
Tuma Pumpensysteme GmbH
Eitnergasse 12
1230 Wien
Tel.: +43 191 493 40
Fax: +43 191 414 46
contact@tumpumpen.at
www.tumpumpen.at

AUS Australia
Pump Solutions Australasia
Unit 1
7 Bessemer Way
Wangara, WA 6065
P.O. Box 1811
Wangara DC, WA 6947
Tel.: +61 8 9408 1544
Fax: +61 8 9408 1644
mike@pumpsolutions.com.au
www.pumpsolutions.com.au

Pump Systems Australia
Factory 2
21 London Drive
Bayswater/Melbourne
Victoria 3153
Tel.: +61 397 623 100
Fax: +61 397 623 188
sales@pumpsystemsaustralia.com.au

B Belgium

Heat transfer pumps / Pompes pour fluid thermique
FLOWMOTION BVBA
Mergelweg 3
1730 Asse
Tel.: +32 2 309 67 13
Fax: +32 2 309 69 13
info@flowmotion.be
www.flowmotion.be

SPECK – Pompen België N.V.
Bierweg 24
9880 Aalter
Tel.: +32 937 530 39
Fax: +32 932 500 17
info@speckpompen.be
www.speckpompen.be

BG Bulgaria

EVROTECH OOD
54 A, Manastirska Str.
1111 Sofia
Tel.: +359 2 971 32 73
Fax: +359 2 971 22 88
office@evrotech.com
www.evrotech.com

CH Switzerland

Speck Pumpen Subsidiary
Speck Pumpen Industrie GmbH
Bürglenweg 4
8854 Galgenen
Tel.: +41 554 425 094
Fax: +41 554 425 094
info@speckswitzerland.com
www.speckswitzerland.com

Sales and Service

HänyTec AG
Lättfeld 2
6142 Gettnau
Tel.: +41 62 544 33 00
Fax: +41 62 544 33 10
contact@haenytec.ch
www.haenytec.ch

Service
MEYER ARMATUREN PUMPEN GMBH
Rigackerstrasse 19
5610 Wohlen
Tel.: +41 56 622 77 33
Fax: +41 56 622 77 60
info@meyer-armaturen.ch
www.meyer-armaturen.ch

CN China

Speck Pumpen Subsidiary
Jiashan SPECK PUMPS
Systemtechnik Ltd.
No. 57, Hong Qiao Rd.,
No. 4 Economic Developing Zone,
314100 Jiashan Xian,
Zhejiang Province
Tel.: +86 573 847 312 98
Fax: +86 573 847 312 88
steveche@speck-pumps.cn
www.speck-pumps.cn

CZ Czech Republic

Sigmat spol s.r.o.
Kosmonautu č.p. 1103/3a
77200 Olomouc
Tel.: +420 585 231 070
Fax: +420 585 227 072
sigmet@sigmet.cz
www.sigmet.cz

DK Denmark

Pumpegrupper a/s
Lundtoftegårdsvej 95
2800 Lyngby
Tel.: +45 459 371 00
Fax: +45 459 347 55
info@pumpegrupper.dk
www.pumpegrupper.dk

E Spain

Speck Pumpen Subsidiary
SPECK BOMBAS INDUSTRIALES, S.L.U.
Trafalgar, 53 despacho 6
Centro de Negocios CNAF
46023 Valencia
Tel.: +34 963 811 094
Fax: +34 963 811 096
Mobile: +34 618 376 241
speck-spain@terra.com
www.speck.de

F France

Speck Pumpen Subsidiary
Speck Pompes Industries S.A.
Z.I. Parc d'Activités du Ried
4, rue de l'Énergie
B.P. 227
67727 Hoerd Cedex
Tel.: +33 3 88 68 26 60
Fax: +33 3 88 68 16 86
info@speckpi.fr

GB Great Britain

Speck ABC UK Ltd
AreenA House
Moston Road,
Elworth, Sandbach
Cheshire CW11 3HL
Tel.: +44 844 764 063 2
Fax: +44 844 764 063 4
admin@speck-abc.com
www.speck-abc.com

GR Greece

SPECK Hellas
Salaminos St. 54
17676 Kalithea
Tel.: +30 210 956 500 6
Fax: +30 210 957 747 3
grecha@speckhellas.gr

I Italy

Centrifugal pumps / Pompe centrifughe
Speck Industries S.r.l.
Via Garibaldi, 53
20010 Canegrate (MI)
Tel.: +39 0331 405 805
Mobile: +39 339 16 59 440
info@speckindustries.it
www.speckindustries.it

Vacuum pumps / Pompe per vuoto
Rio Nanta S.r.l.
Via Mauro Macchi, 42
20124 Milano
Tel.: +39 028 940 642 1
Fax: +39 028 323 913
Mobile: +39 339 658 781 6
rionanta@rionanta.it
www.rionanta.it

IL Israel

Ambi-Tech
Electronics Engineering Ltd.,
20 Ta'as st.,
Industrial Area, Kfar-Saba
P.O. Box 50
Kfar-Saba 44425
Tel.: +972 976 775 00
Fax: +972 976 774 00
Arie.Weiss@PWeiss.d2g.com
www.pweiss.co.il

*Small pumps /
heat transfer pumps:*
Ringel Brothers (1973) Ltd.
134 Hertzel St.
P.O. Box 5148
Tel-Aviv 66555
Tel.: +972 368 255 05
Fax: +972 368 220 41
Mobile: +972 544 623 095
mringel@ringel-bros.co.il
www.ringel-bros.co.il

IN India

Flux Pumps India Pvt. Ltd.
427/A-2, Gulsarkki Industrial Estate
Near Prabhat Printing Press
Pune – 411 047, Maharashtra
Tel.: +91 020 2427 1023
Fax: +91 020 2427 0689
Mobile: +91 98504 03114
kiran.kadam@flux-pumps.in
www.flux-pumps.in

J Japan

Rodateq, Inc.
Suite 301 Oka Bldg.
2 - 1 - 16 Kyomachibori, Nishiku
550 - 0003 Osaka
Tel.: +81 664 441 940
Fax: +81 664 449 050
info@rodiateq.co.jp
www.rodiateq.co.jp

Rodateq, Inc.
Tokyo Branch
No. 408, 3 - 22 - 12
Hashihei Ikekukuro, Toshima - ku
170-0013 Tokyo
Tel.: +81 359 798 818
Fax: +81 359 798 817
roda-t@yo.rim.or.jp
www.rodiateq.co.jp

L Luxembourg

Heat transfer pumps / Pompes pour fluid thermique
FLOWMOTION BVBA
Mergelweg 3
1730 Asse
Tel.: +32 2 309 67 13
Fax: +32 2 309 69 13
info@flowmotion.be
www.flowmotion.be

MAL Malaysia

Leesonmech
Engineering (M) Sdn. Bhd.
No. 18 Jalan 18, Taman Sri Kluang,
86000 Kluang, Johor
Tel.: +607 777 105 5
Fax: +607 777 106 6
sales@leesonmech.com
www.leesonmech.com

N Norway

Ing. Per Gjerdrum A/S
P.O. Box 154
Nye Vakasvei 28
1360 Nesbru
Tel.: +47 667 756 00
Fax: +47 667 756 01
Pg-pumps@pergjerdrum.no
www.pg-marinegroup.com

NL Netherlands

*Centrifugal pumps /
Centrifugaalpompen*
Speck Pompen Nederland B.V.
Businesspark 7Poort
Stationspoort 10
6902 KG Zevenaer
Tel.: +31 316 331 757
Fax: +31 316 528 618
info@speck.nl
www.speck.nl

Vacuum pumps / Vacuümpompen
DOVAC B.V.
Meer en Duin 228
2163 HD Lisse
Tel.: +31 252 423 363
Fax: +31 252 417 946
info@dovac.nl
www.dovac.nl

Heat transfer pumps / Pompes pour fluid thermique
FLOWMOTION BVBA
Mergelweg 3
1730 Asse
Tel.: +32 2 309 67 13
Fax: +32 2 309 69 13
info@flowmotion.be
www.flowmotion.be

NZ New Zealand

MacEwans Pumping Systems Ltd.
19 Ride Way
North Harbour Industrial Estate
Tel.: +64 941 548 60
Fax: +64 941 548 68
pumps-ak@macewans.co.nz
www.macewans.co.nz

P Portugal

Ultra Controlo
Projectos Industriais, Lda.
Quinta Lavi – Armazém 8
Abrunheira
27 10 - 089 Sintra
Tel.: +351 219 154 350
Fax: +351 219 259 002
info@ultra-controlo.com
www.ultra-controlo.com

PL Poland

E.A. Krupinski Elzbieta Krupinska
ul. Przymarki 4A
31-764 Krakow
Tel.: Fax: +48 126 455 684
biuro@krupinski.krakow.pl
www.krupinski.krakow.pl

RC Taiwan

Speck Pumpen Subsidiary
Speck Pumps Technology Taiwan Ltd.
2Fl, no. 153, Sec. 2
Datong Rd., Xizhi District
New Taipei City
Tel.: +886 286 926 220
Fax: +886 286 926 759
Mobile: +886 936 120 952
speck886@ms32.hinet.net
www.speck-pumps.com.tw

RCH Chile

W & F Ingeniería Y Maquinas S.A.
Felix de Amesti 90, Piso 6
Las Condes, Santiago
Tel.: +56 220 629 43
Fax: +56 220 630 39
rwendler@tie.cl

RI Indonesia

PT Roda Rollen Indonesia
Kompleks Pertokoan Glodok
Jaya No. 30
Jl. Hayam Wuruk,
Jakarta - Pusat
Indonesia, 11180
Tel.: +6221 659 922 528
Fax: +6221 380 595 9
rudya@rodarollenindonesia.com

ROK Korea

J.C. International Inc.
2F, Bikeum Bldg. 108,
Yanghwa-Ro, Mapo-Gu,
121-893 Seoul
Tel.: +82 232 628 00
Fax: +82 232 569 09
jcleee@jaint.co.kr
www.jaint.co.kr

RO Romania

S.C. Gimsid S.R.L.
Str. Arcului nr. 9, Arp. 2
021031 Bucuresti
Tel.: +40 21 2118701
Fax: +40 21 2102675
gimsid@gimsid.ro
www.gimsid.ro

RUS Russia

LLC Firm Kreoline
Yunosti str., 5/3
Moscow 111395
Tel.: +7 495 737 321 4
Fax: +7 495 769 844 0
Mobile: +7 495 505 198 8
info@kreoline.ru
www.kreoline.ru

S Sweden

Hugo Tillquist AB
P.O.Box 1120
16422 Kista
Tel.: +46 859 463 200
Fax: +46 875 136 95
info@tillquist.com
www.tillquist.com

SK Slovak Republic → Czech Republic (CZ)

SLO Slovenia

SILOTEH Branko Gabric s.p.
Zagrebska cesta 20
2000 Maribor
Tel.: +38 624 614 460
Fax: +38 624 614 465
branko.gabric@amis.net
www.sloteh.si

SGP Singapore → Malaysia (MAL)

T Thailand

Speck Pumpen Subsidiary
Pump Systems Flux & Speck Co. Ltd.
181/4 Soi Anamai
Srinakarin Road
Suanluang Bangkok 10250
Tel.: +662 320 256 7
Fax: +662 322 248 6
thienchai@fluxspeck.com
www.fluxspeck.com

TR Turkey

Speck Pompa
San. ve Tic. Ltd. Sti.
Girne Mah., Kücükyali Is Merkezi
B Blok No.12 Maltepe
34852 Istanbul
Tel.: +90 216 375 750 5
Fax: +90 216 375 753 3
Mobil: +90 532 293 010 4
speck@speckpompa.com.tr
www.speckpompa.com.tr

USA USA

Speck Pumpen Subsidiary
Speck Industries LP
301 Veterans Blvd
Rutherford
NJ 07070
Tel.: +1 201 569 3114
Fax: +1 201 569 9607
info@speckamerica.com
www.speckamerica.com

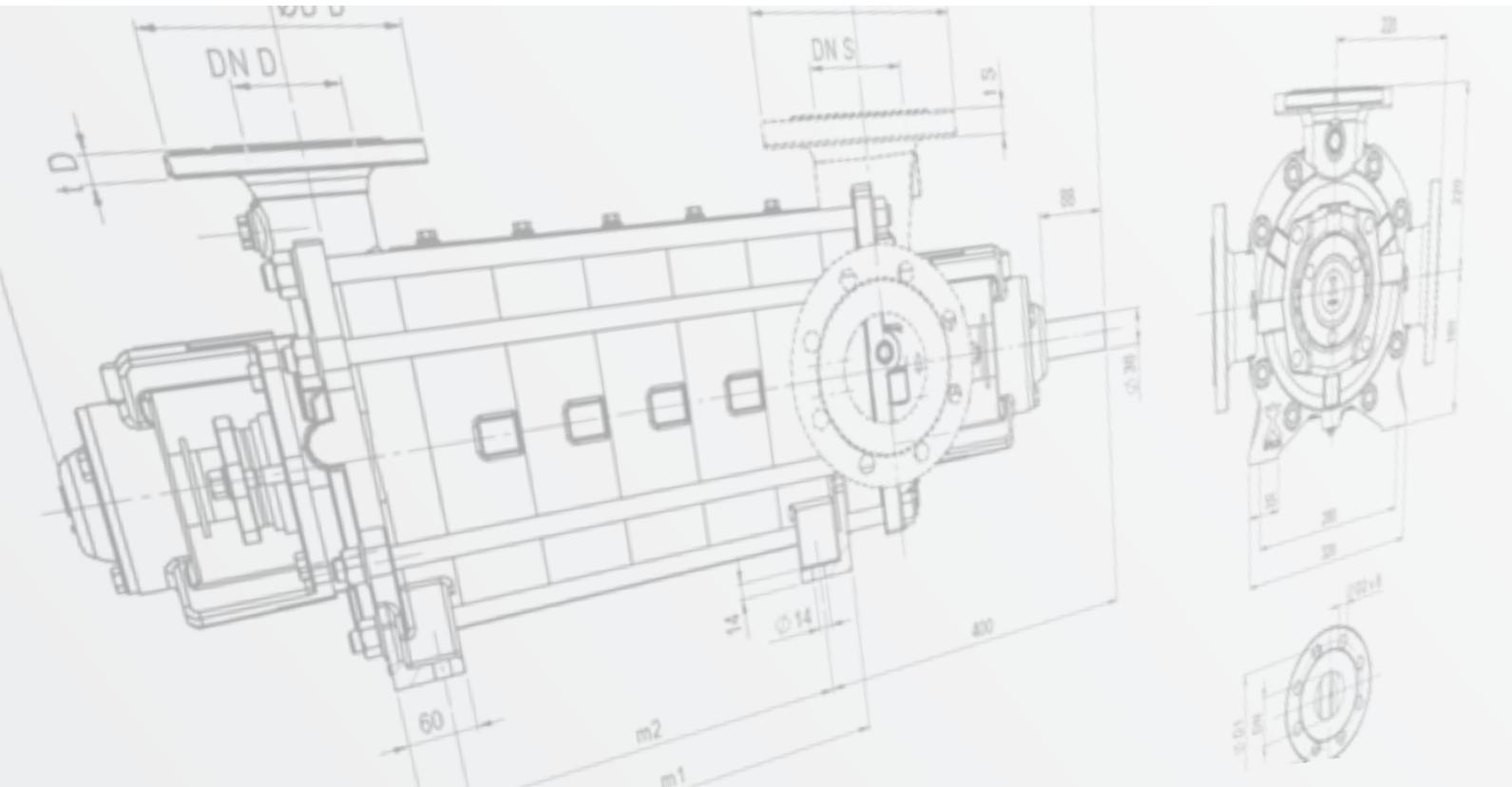
ZA Rep. South Africa

AQUAPUMP (Pty) Ltd.
Unit 54
APD Industrial park
Kelvin street
Kya Sand
Tel.: +27 117 080 600
Fax: +27 865 864 151
Mobile: +27 824 509 078
cliff@aquapump.co.za
www.aquapump.co.za

**D Produktion / Verwaltung
Production / Administration**
Speck Pumpen Walter Speck GmbH & Co. KG
Speck Pumpen Systemtechnik GmbH
Speck Pumpen Vakuumtechnik GmbH
Regensburger Ring 6 – 8, 91154 Roth

Tel.: +49 9171 809 0
Fax: +49 9171 809 10

info@speck.de
www.speck.de



Speck Pumpen Walter Speck GmbH & Co. KG

PO Box 1453 · 91142 Roth / Germany
Regensburger Ring 6 - 8 · 91154 Roth / Germany
Phone: +49 (0) 91 71 809 - 0
Fax: +49 (0) 91 71 809 - 10
info@speck.de
www.speck.de