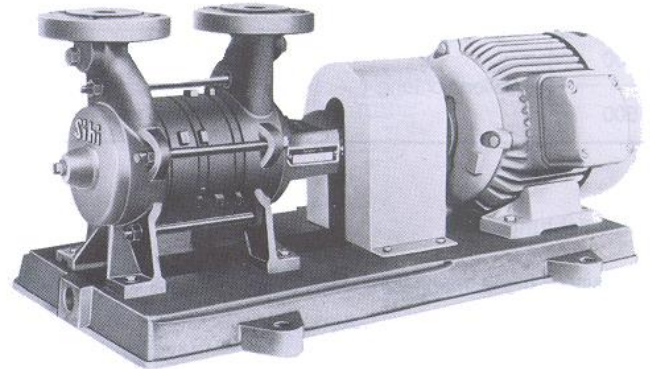


ADH/CDH 0801 . . . 2504
AEH 0805 . . . 0808

TECHNICAL DATA

Capacity:	max. 7,2 m ³ /h
Head:	max. 400 m
Speed:	max. 3000 rpm
Temperature:	max. 120 °C
Casing pressure:	PN 25 for ADH/CDH PN 40 for AEH
Shaft sealing:	stuffing box or standard mechanical seal
Flange connection sizes:	DIN 2501 PN 25 and PN 40
Direction of rotation:	clockwise when looking at the pump from the drive end



APPLICATION

Sterling SIHI side channel pumps

- are self priming
- can handle gas during normal liquid duty
- are of noiseless operation

The pumps of the ADH/AEH series are used when liquids and condensates without abrasive admixtures are to be handled trouble-free under high heads.

The pumps of series CDH with NPSH-improving inducer stage are used when liquids are to be handled reliably and trouble-free under critical suction conditions. With these machines, a safe and efficient pumping service can be achieved, even if the net positive suction head available is low

With regard to hydraulic design they have been staged as is customary in boiler construction.

The pumps are used:

- in industries running boilers
- for the handling of condensate and boiler feed water
- for the construction of washing, cleaning and spraying plants
- in the construction of fire-extinguishing equipment

BAUART

The pumps of the ADH/AEH series are segmental type, horizontal side channel pumps self-priming and handling gases during normal liquid duty, operating with unshrouded vane wheel impellers.

The pumps of the CDH series are horizontal, self-priming, segmental type, side channel pump, handling entrained gases, equipped with unshrouded impellers and a suction side centrifugal stage combination system) for attaining superior characteristics with respect to net positive suction head (NPSH).

By pumps of the ADH/CDH/AEH series are side channel pumps of the high-speed type - maximum 3000 rpm - that have been designed with special regard to noiseless running.

The steeply sloped curves offer considerable possibilities of pressure-dependent regulation.

CONSTRUCTION

Casing pressure:

Max. 25 bar from 0 °C to + 120 °C (ADH/CDH)

Max. 40 bar from 0 °C to + 120 °C (AEH)

Please note:

Casing pressure = inlet pressure + discharge head at min. flow rate

Position of branches:

Suction and discharge branches showing radially upwards.

Flanges:

The flanges comply with: DIN 2534 PN 25 (ADH/CDH)

DIN 2535 PN 40 (AEH)

Flanges drilled according to ANSI 150/300 can be supplied.

Bearings:

One grease-lubricated deep-groove ball bearing according to DIN 625. The first filling with grease is made in the factory. One sleeve bearing flushed by the liquid handled. Designation of this construction type: A

Direction of rotation:

Clockwise when looking at the pump from the drive end.

Designation of this construction type: ·N

Shaft sealing:

The sealing of the shaft passage, according to choice, can be effected by a stuffing box or by standard mechanical seal.

Designation 081: Uncooled stuffing box with lantern ring and internal flushing.

Temperature range: 0 °C to 120 °C

Designation 135: Standard single-action mechanical seal, uncooled, unbalanced, with internal flushing

Temperature range: 0 °C to 105 °C

Material design

Item	COMPONENTS	MATERIAL DESIGN
		01
1	suction casing	GG 25
2	discharge casing	
10, 11, 13, 14	stage casing	
30	vane wheel impeller	So Ms pressed
31	inducer stage impeller	Rg 9
200	shaft	X 20 Cr 13
241	bearing bush	special carbon
400	shaft sealing stuffing box	special asbestos
500	shaft sealing mechanical seal	X 22 Cr Ni 17 / carbon / Perbunan

Casing seal:

The casing seal consists of a liquid sealing compound. Designation of this construction type: 0

Drive / speed:

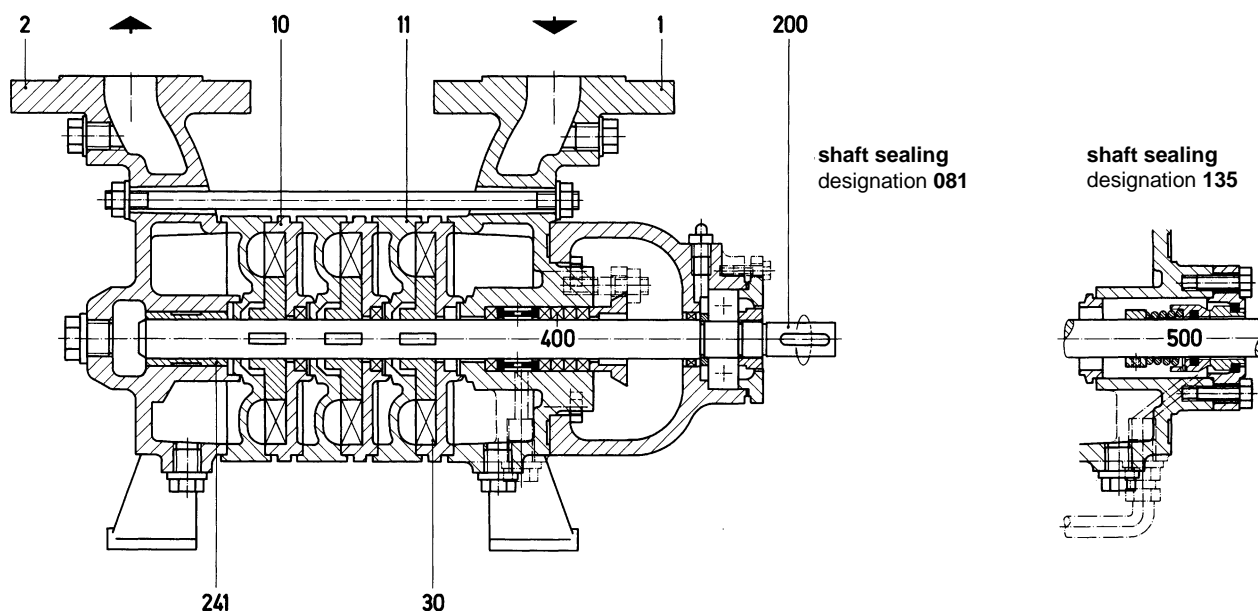
By customary electric motors, type IM B3.
For pump size ADH 0800/0900 1 to 4 stages, speeds up to max. 3400 rpm are allowable.

General comments:

In case of greater delivery heads and greater delivery capacity we recommend the series **CEH** heavy-duty pumps for handling condensates and liquid gases, with inducer stage, PN 40

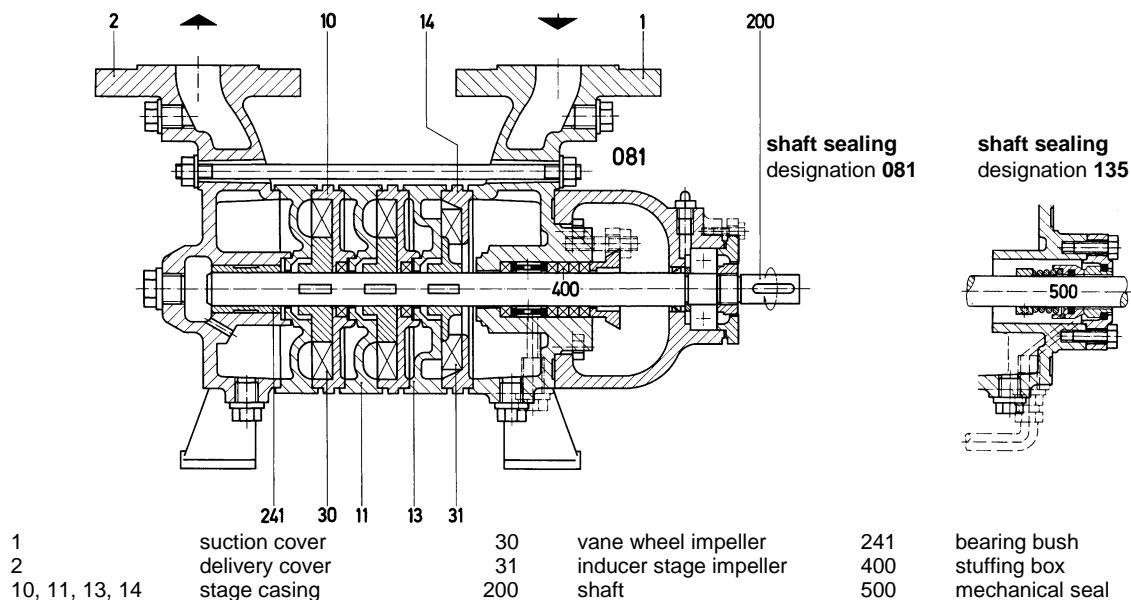
Technical documentation about these programmes will be supplied on request.

Sectional drawing and nomenclature ADH/AEH



1	suction casing	200	shaft
2	discharge casing	241	bearing bush
10, 11	stage casing	400	stuffing box
30	vane wheel impeller	500	mechanical seal

Sectional drawing and nomenclature CDH



Selection table for boiler feed pumps

heating surface, m ²		3	6	9	12	15	20	25	30	40	50	60	70	80	90	
steaming capacity, kg/h		120	240	360	480	600	800	1000	1200	1600	2000	2400	2800	3200	3600	
b o i l e r s e r v i c e p r e s s u r e b a r	6	0802 1,1 kW C 0801 0,75 kW	0802 1,1 kW C 0801 0,75 kW	0802 1,1 kW C 0801 0,75 kW	0802 1,1 kW C 0801 0,75 kW	0802 1,1 kW C 0901 1,1 kW	0802 1,1 kW C 0802 1,1 kW	0803 1,5 kW C 0902 1,5 kW	0903 1,5 kW C 0902 1,5 kW	1402 2,2 kW C 1401 2,2 kW	1402 2,2 kW C 1401 2,2 kW	1403 3,0 kW C 1402 2,2 kW	1502 3,0 kW C 1502 3,0 kW	2402 4,0 kW C 2402 5,2 kW	2403 5,5 kW C 2402 4,0 kW	2403 5,5 kW C 2402 4,0 kW
	8	0802 1,5 kW	0802 1,5 kW	0802 1,5 kW	0802 1,5 kW	0802 1,5 kW	0803 1,5 kW C 0802 1,5 kW	0804 1,5 kW C 0803 1,5 kW	0904 2,2 kW C 0903 2,2 kW	1402 3,0 kW	1402 3,0 kW	1403 3,0 kW C 1502 3,0 kW	1503 4,0 kW	2402 4,0 kW C 2402 5,2 kW	2403 5,5 kW	2403 5,5 kW
	10	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0802 1,5 kW	0803 2,2 kW C 0804 2,2 kW	0903 2,2 kW C 0903 2,2 kW	0904 2,2 kW C 0903 2,2 kW	1402 3,0 kW	1403 3,0 kW C 1403 3,0 kW	1503 4,0 kW C 1504 5,5 kW	2403 5,5 kW C 2403 7,5 kW	2403 5,5 kW C 2403 7,5 kW	2404 7,5 kW
	12	0803 2,2 kW	0803 2,2 kW	0803 2,2 kW	0803 2,2 kW	0803 2,2 kW	0804 2,2 kW	0904 3,0 kW	1402 3,0 kW C 1402 4,0 kW	1403 4,0 kW	1403 4,0 kW	1503 4,0 kW C 1503 5,5 kW	1504 5,5 kW	2403 5,5 kW C 2403 7,5 kW	2403 5,5 kW C 2403 7,5 kW	2503 7,5 kW C 2404 7,5 kW
	14	0803 2,2 kW	0803 2,2 kW	0804 2,2 kW C 0804 3,0 kW	0804 2,2 kW C 0903 3,0 kW	0804 2,2 kW C 0804 3,0 kW	0805 3,0 kW C 0904 3,0 kW	0806 3,0 kW C 1402 4,0 kW	1403 4,0 kW	1403 4,0 kW	1404 4,0 kW	1504 5,5 kW C 1503 5,5 kW	2403 7,5 kW	2404 7,5 kW C 2403 7,5 kW	2503 7,5 kW	2503 7,5 kW
	16	0804 2,2 kW	0804 2,2 kW C 0804 3,0 kW	0804 2,2 kW C 0804 3,0 kW	0804 2,2 kW C 0804 3,0 kW	0804 2,2 kW C 0804 3,0 kW	0805 3,0 kW C 0904 3,0 kW	0807 4,0 kW C 1403 5,5 kW	1403 4,0 kW C 1403 5,5 kW	1403 4,0 kW C 1403 5,5 kW	1403 4,0 kW	1504 5,5 kW	2403 7,5 kW	2404 7,5 kW	2503 7,5 kW	2503 7,5 kW
	18	0804 3,0 kW	0804 3,0 kW	0805 3,0 kW C 0804 3,0 kW	0805 3,0 kW C 0804 3,0 kW	0805 3,0 kW C 0804 3,0 kW	0806 3,0 kW C 1402 5,5 kW	0808 4,0 kW C 1403 5,5 kW	1403 5,5 kW	1404 5,5 kW	1504 7,5 kW C 1503 7,5 kW	2403 7,5 kW	2404 7,5 kW	2503 7,5 kW	2504 7,5 kW	2504 7,5 kW
	20	0805 3,0 kW C 0904 4,0 kW	0805 3,0 kW C 0904 4,0 kW	0805 3,0 kW C 0904 4,0 kW	0805 3,0 kW C 0904 4,0 kW	0805 3,0 kW C 1404 5,5 kW	0806 3,0 kW C 1402 5,5 kW	1403 5,5 kW C 1404 5,5 kW	1403 5,5 kW C 1404 5,5 kW	1404 5,5 kW	1504 7,5 kW	2404 7,5 kW	2404 7,5 kW	2504 7,5 kW	2504 7,5 kW	2504 7,5 kW
	22	0805 3,0 kW	0805 3,0 kW	0805 3,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW
	24	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW	0808 4,0 kW
	26	0806 4,0 kW	0806 4,0 kW	0806 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW
	28	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW
	30	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0807 4,0 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW
32	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	0808 5,5 kW	

When designing and dimensioning the pumps, the regulations concerning the fitting out and erection of steam generators (TRD 401) have been adhered to.

For the determination of the boiler capacity, a generated steam volume per hour of 40 kg/m² of heating surface has been taken as a base. The pumps are capable of a feed-water service for 1,6 times the steaming capacity and they can overcome 1,2 times the service pressure. Under such conditions, the motors provided are not fully charged.

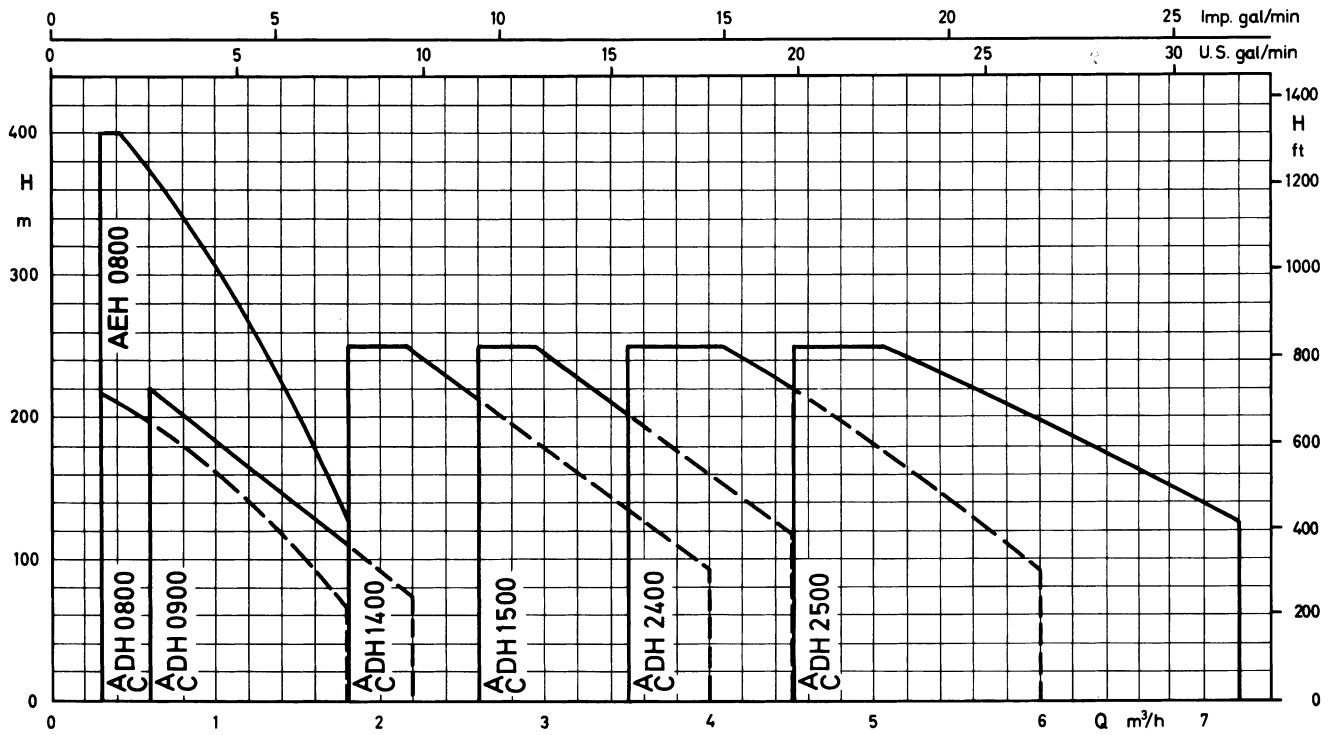
Example:
 Required: boiler pressure 12 bar
 heating surface 30 m²
 steaming capacity 1200 kg/h

The selection table gives:
 pump size ADH 1402 resp. CDH 1402
 motor power 3 kW resp. 4 kW

Note: If there is a „C“ before the number of the pump size given by the selection table then the conditions of the operating point can also be complied with a pump of the series CDH.

Performance graph

n = 2900 rpm



Characteristic curves

For the values stated in the performance curve sheets, the following tolerances apply:

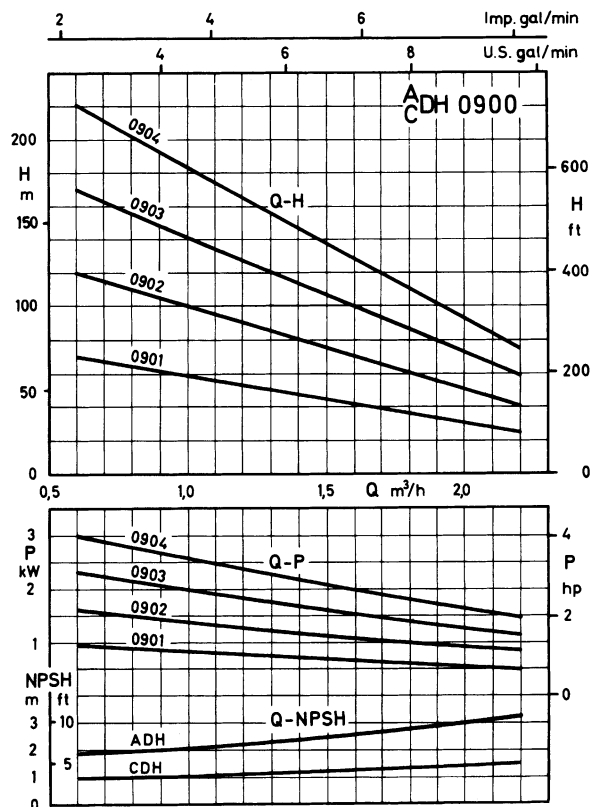
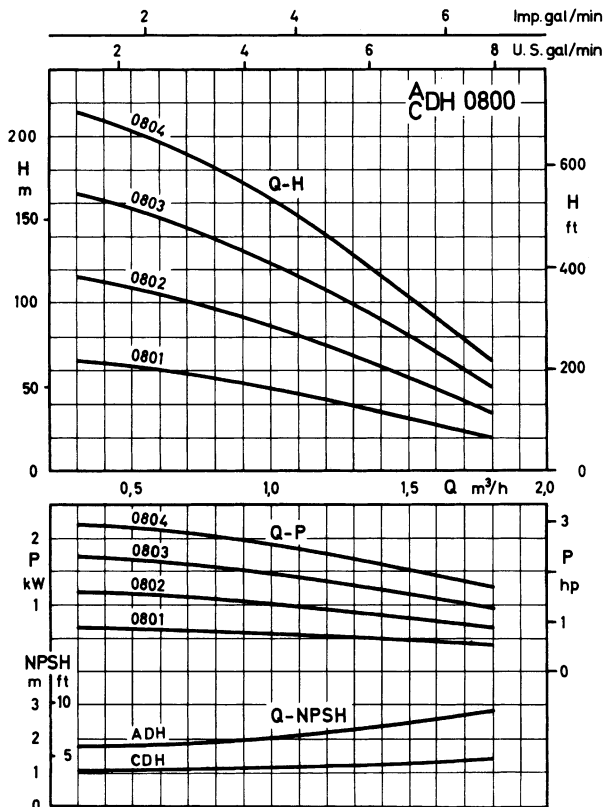
For the series CDH are to be added H = 7 m, P = 0,15 kW to be complete range of output.

n = 2900 rpm

Manufacturing tolerances: capacity $\pm 10\%$, head $\pm 10\%$, power requirements $+10\%$ according to DIN 1944

Measuring tolerances:

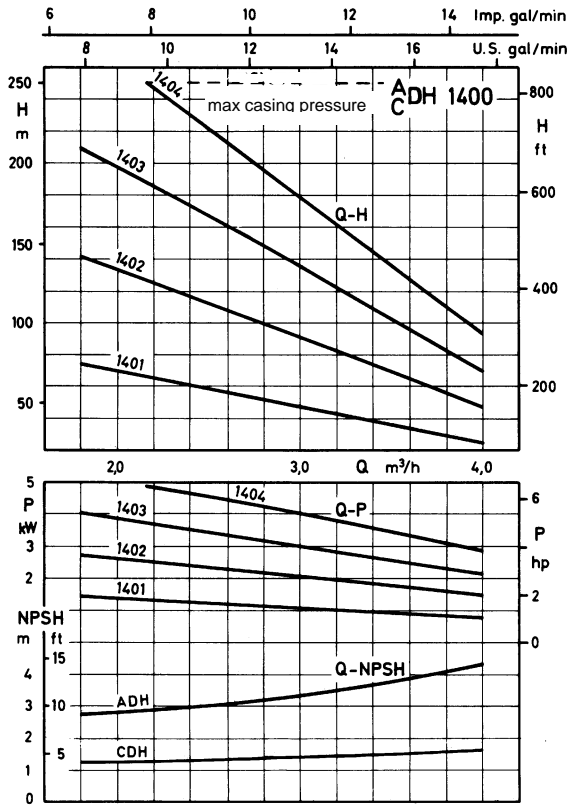
For the series CDH are to be added H = 7 m, P = 0,15 kW to be complete range of output.



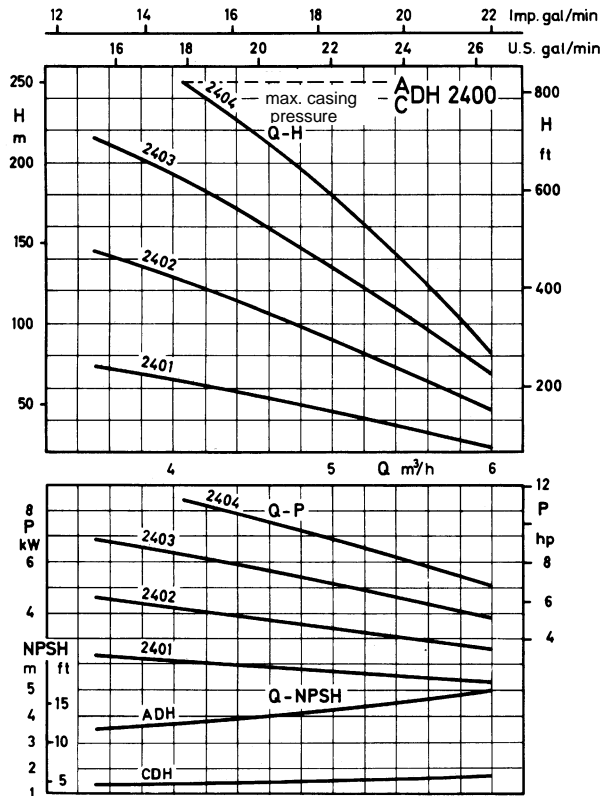
Characteristic curves

For the values stated in the performance curve sheets, the following tolerances apply:

For the series CDH are to be added H = 8 m, P = 0,3 kW to be complete range of output.



For the series CDH are to be added H = 10 m, P = 0,7 kW to be complete range of output.

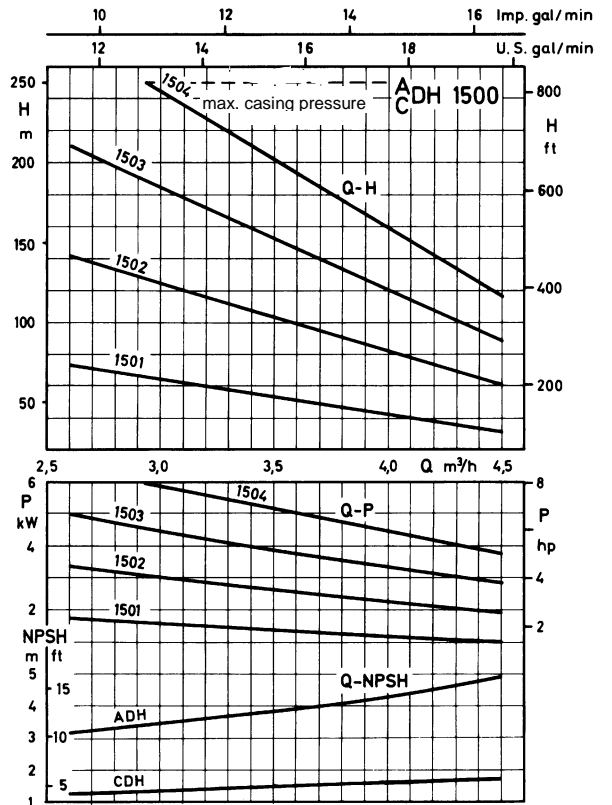


n = 2900 rpm

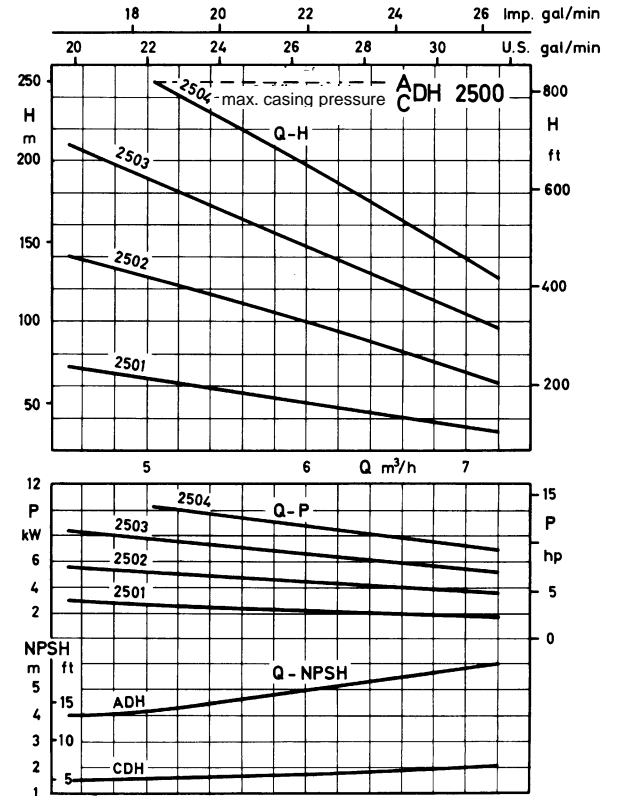
Manufacturing tolerances: capacity $\pm 10\%$, head $\pm 10\%$, power requirements $+10\%$ according to DIN 1944

Measuring tolerances:

For the series CDH are to be added H = 8 m, P = 0,3 kW to be complete range of output.



For the series CDH are to be added H = 10 m, P = 0,7 kW to be complete range of output.



Characteristic curves

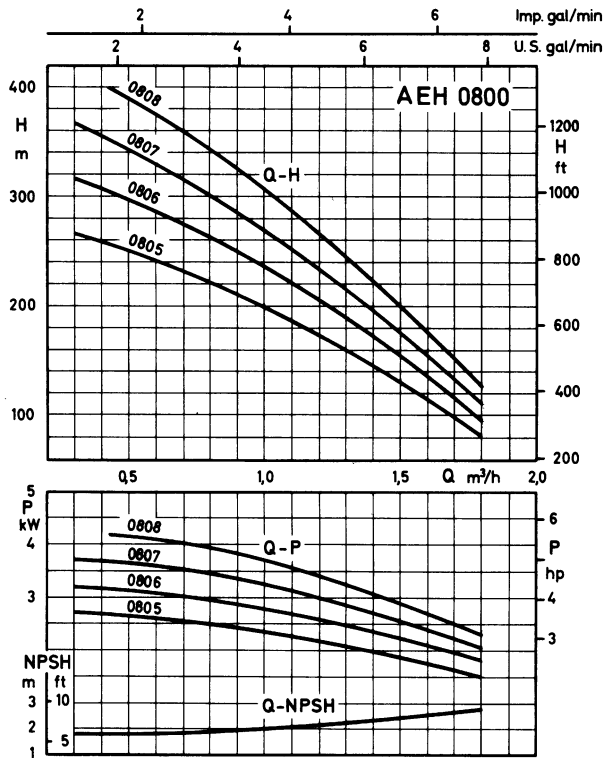
For the values stated in the performance curve sheets, the following tolerances apply:

Manufacturing tolerances:

n = 2900 rpm

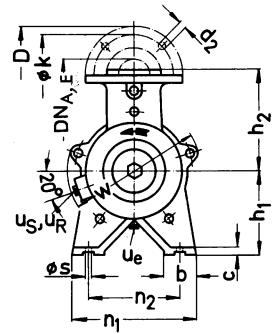
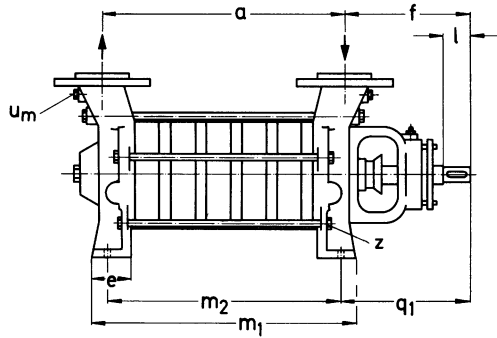
capacity $\pm 10\%$, head $\pm 10\%$,
power requirements $+10\%$
according to DIN 1944

Measuring tolerances:



The values are to be understood for water of $\rho = 1 \text{ kg/l}$

Dimension table



Connection sizes: see column „v“

ue connection for drainage

um connection for pressure gauge

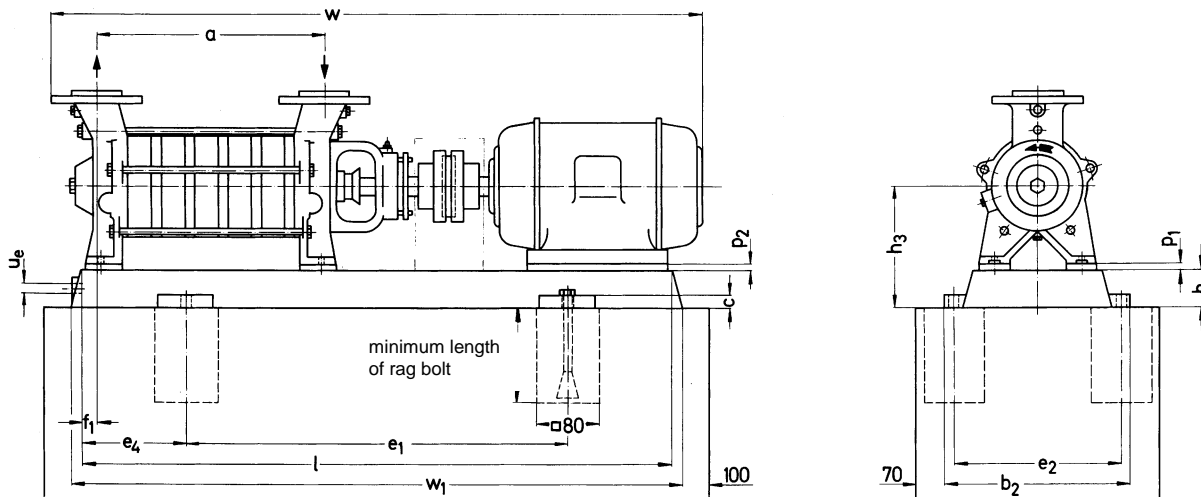
ur connection for flushing liquid - screwed plug

us connection for buffer liquid: screwed plug

series + size	DN _{A,E}	b	c	e	f	h ₁	h ₂	n ₁	n ₂	q ₁	s	v	w	z	d	l	t	u
ADH 0800 CDH 0900	20	35	10	38	129	90	120	125	90	128	13	G ¼	140	5	14	25	16,1	5
ADH 1400 CDH 1500	25			42	136	100	132	140	105	142			168	16	30	18,1		
ADH 2400 CDH 2500	32			46	164		140	155	120	172			174	19	40	21,5	6	
AEH 0800	20			38	129	90	120	125	90	128			140	14	25	16,1	5	

series + size	.. 01			.. 02			.. 03			.. 04		
	a	m ₁	m ₂	a	m ₁	m ₂	a	m ₁	m ₂	a	m ₁	m ₂
ADH 08 .. 09 ..	109	142	112	143	176	146	177	210	180	211	244	214
ADH 14 .. 15 ..	130	152	118	166	188	154	202	224	190	238	260	226
ADH 24 .. 25 ..	150	178	134	190	218	174	230	258	214	270	298	254
CDH 08 .. 09 ..	143	176	146	177	210	180	211	244	214	245	278	248
CDH 14 .. 15 ..	166	188	154	202	224	190	238	260	226	274	296	262
CDH 24 .. 25 ..	190	218	174	230	258	214	270	298	254	310	338	294
series + size	.. 05			.. 06			.. 07			.. 08		
	a	m ₁	m ₂	a	m ₁	m ₂	a	m ₁	m ₂	a	m ₁	m ₂
AEH 08 ..	245	278	248	279	312	282	313	346	316	347	380	350

Flange connection sizes acc. to DIN 2501 PN 25				PN 40
DN _{A,E}	20	25	32	20
k	75	85	100	75
D	105	115	140	105
d ₂ x number	14 x 4	14 x 4	18 x 4	14 x 4



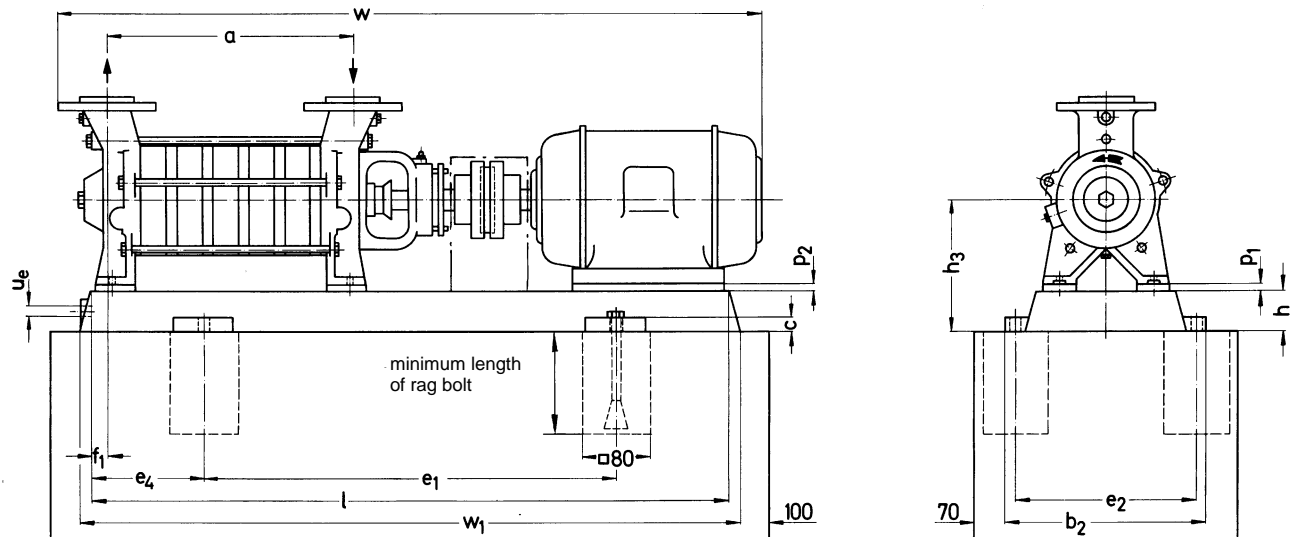
Dimensions in mm, casting tolerances according to DIN 1686 GTB 17

Series + size	motor size	kW	base plate 271 ... 100	coupling	pump weight kg	unit kg	a	b ₂	c	e ₁	e ₂	e ₄	f ₁	h	h ₃	l	P ₁	P ₂	w*	w ₁	u ₆	rag bolt DIN 529
ADH	0801	71 b 80 a	0,55 0,75	270.003. 270.006.	A 10	8	26 30	109 312	20	270 320	230 280	90 100	17 32	35	125	450 500 550	-	19 10	530 538 587	470 520 570	R 1/2	M12 x 125
	0802	80 b 90 S	1,1 1,5	270.007.		11	35 39	143 177	317	25	350 420	285 260	100 105	32	65	155	630	-	627 661 686	650	M16x 200	
	0803	90 S 90 L	1,5 2,2	210		13	44 48	177	300	25	420	260	105	52 42	65	155	630	-	661 686	650	M16x 200	
	0804	90 S 90 L 100 L	1,5 2,2 3,0	241		16	47 51 60	211	330	25	480	290	115	42	65	165	710	10	695 720 779	730	M12 x 125	
	0901	80 a 80 b	0,75 1,1	270.006. 270.007.		8	30 31	109 312	20	320	280	90	32	35	125	500	-	10	538 553	520	M12 x 125	
	0902	90 S 90 L	1,5 2,2	210		11	39 43	143 177	317	25	350	285	100	32	65	155	630	-	627 652	570	M16x 200	
	0903	90 L 100 L	2,2 3,0	210		13	48 54	177	300	25	420	260	105	42 22	65	155	630	10	686 745	650	M16x 200	
	0904	90 L 100 L 112 M	2,2 3,0 4,0	241 301		16	51 60 82	211	330 390	25	480	290	115	42 32	65	165 177	710	10 22	779 779	730	M12 x 125	
	1401	80 b 90 S	1,1 1,5	270.006. 270.007.		A 10	12	35 40	130 312	20	320	280	90	26 46	35	135	500 550	-	20 10	586 627	520 570	M12 x 125
	1402	90 L 100 L	2,2 3,0	210 270		15	50 61	166 300	25	420	260	105	56 36	65	165	630	-	746	650	M16 x 200		
	1403	100 L 112 M 132 S	3,0 4,0 5,5	241 301 303		A 25 A 63	17	61 79 108	202 330 390	25	480	290	115	56 56	65	177	710	12	782 782	730	M16 x 200	
	1404	112 M 132 S	4,0 5,5	301 303		A 25 A 63	20	86 111	238	25	600	480	150	116 76	65	197 177 197	900 710 900	32	865 818 901	920	M12 x 125	
	1501	90 S 90 L	1,5 2,2	270.007.		A 10	12	40 44	130 317	20	350	285	100	46 36	35	135	550	-	10	627 652	570	M12 x 125
	1502	100 L 112 M	3,0 4,0	270		A 25	15	62 79	166 360	25	420	320	105	36	65	165	630	12	746 746	650	M 16 x 200	
	1503	112 M 132 S	4,0 5,5	301 303		A 63	17	83 108	202 390	25	480	350	115	56 116	65	177	710	32	782 865	730 920	M16 x 200	
	1504	132 S 132 S	5,5 7,5	303		A 63	20	111 114	238	25	600	480	150	76	65	197	900	32	901 901	920	M16 x 200	
	2401	90 L 100 L	2,2 3,0	210 270		A 10	18	53 63	150 300	25	420	260	105	43 23	65	165	630	-	10	711 770	650	M16 x 200
	2402	112 M 132 S	4,0 5,5	301 303		A 25 A 63	21	87 112	190 390	25	480	350	115	43 63	65	177 197	710 900	12 32	810 893	730 920	M16 x 200	
	2403	132 S 132 S	5,5 7,5	303		A 63	23	114 117	230	25	600	480	150	93	65	197	900	32	933 933	920	M16 x 200	
	2404	132 S 160 M	7,5 11,0	344		A 63	26	120 157	270	25	660	400	170	73	65	197	1000	60	1098	1020	M20 x 200	
	2501	90 L 100 L	2,2 3,0	210 270		A 10	18	53 65	150 360	25	420	260	105	43 23	65	165	630	-	10	711 770	650	M16 x 200
	2502	132 S 132 S	5,5 7,5	303		A 63	21	112 115	190 390	25	600	350	150	93	65	197	900	32	893 893	920	M16 x 200	
	2503	132 S 160 M	7,5 11,0	344		A 63	23	117 182	230	25	660	400	170	93	65	197	1000	60	1098	1020	M20 x 200	
	2504	132 S 160 M	7,5 11,0	303 344		A 63	26	114 157	270	25	600	350	150	73	65	197	900	32	973	920	M16 x 200	
AEH	0805	90 L 100 L	2,2 3,0	241	A 10	16	54 60	245 330	25	480	290	115	53 23	65	166 165	710	- 10	754 813	730 820	M16 x 200		
	0806	100 L 112 M	3,0 4,0	272	A 25	18	66 84	279	25	540	320	130	53	65	177	800	22	847	820	M16 x 200		
	0807	100 L 112 M	3,0 4,0	272	A 10 A 25	19	67 85	319	25	540	320	130	53	65	165 177	800	10 22	881 881	820	M16 x 200		
	0808	112 M 132 S	4,0 5,5	303	A 25 A 63	21	95 112	347	25	600	350	150	63 43	65	197	900	42	915 998	920	M16 x 200		

* Motor protection type IP 54, dimensions depend on the motor make

Foundation plan CDH

n = 2900 rpm



Dimensions in mm mm, casting tolerances according to DIN 1686 GTB 17

series + size	motor size	kW	base plate 271 ... 100	coup-ling	weight		a	b ₂	c	e ₁	e ₂	e ₄	f ₁	h	h ₃	l	P ₁	P ₂	w*	w ₁	u _e	rag-bolt	
					pump kg	unit kg																	
CDH	0801	80 a	0,75	270.007.	A 10	11	33	177	317	20	350	285	100	37	35	125	550	-	10	538	570	R ½	M12 x 125
	80 b	1,1	210	13		34	300	25	420	260	105	100	37	35	125	550	-	10	538	570	R ½	M12 x 125	
	90 S	1,5		44	627	650																	
	90 S	1,5	241	A 10	16	47	211	330	480	290	115	100	37	35	125	550	-	10	661	730	R ½	M16x 200	
	90 L	2,2			51	686	730																
	90 S	1,5	241	A 10	18	49	245	330	480	290	115	100	37	35	125	550	-	10	695	730	R ½	M16x 200	
	90 L	2,2			56	720	730																
	100 L	3,0	301	A 25	11	62	143	390	480	290	115	100	37	35	125	550	-	10	779	730	R ½	M12 x 125	
	80 a	0,75			33	538	570																
	80 b	1,1	210	A 10	13	34	177	300	25	420	260	105	100	37	35	125	550	-	10	538	570	R ½	M12 x 125
	90 S	1,5			44	627	650																
	90 S	1,5	241	A 10	13	44	177	300	25	420	260	105	105	52	65	155	630	-	-	538	650	R ½	M 16 x 200
	90 L	2,2			48	652	730																
	90 L	2,2	241	A 10	16	51	211	330	480	290	115	115	42	22	165	710	10	-	686	730	R ½	M 16 x 200	
	100 L	3,0			60	745	730																
	90 L	2,2	301	A 25	18	56	245	390	480	290	115	115	42	22	165	710	10	-	720	730	R ½	M 16 x 200	
	100 L	3,0			62	779	730																
	112 M	4,0	301	A 25	18	62	245	390	480	290	115	115	42	22	165	710	10	-	779	730	R ½	M 16 x 200	
	100 L	3,0			84	779	730																
	80 b	1,1	210	A 10	15	38	166	300	25	420	260	105	100	14	35	135	550	-	20	586	570	R ½	M12 x 125
	90 S	1,5			42	627	650																
	90 L	2,2	241	A 10	15	50	202	330	480	290	115	105	34	14	65	165	630	-	10	652	650	R ½	M 16 x 200
	90 L	2,2			53	683	730																
	90 L	2,2	241	A 10	18	53	202	390	480	290	115	115	44	14	65	165	630	-	-	746	730	R ½	M 16 x 200
	100 L	3,0			62	746	730																
	112 M	4,0	301	A 25	20	64	238	390	480	290	115	115	34	14	65	165	630	-	12	746	730	R ½	M 16 x 200
	100 L	3,0			84	746	730																
	112 M	4,0	301	A 25	20	86	238	390	480	290	115	115	34	14	65	165	630	-	12	782	730	R ½	M 16 x 200
112 M	4,0	86			782	730																	
132 S	5,5	303	A 63	20	111	238	390	480	290	115	115	84	14	65	165	630	32	-	865	920	R ½	M 16 x 200	
132 S	5,5			111	865	920																	
112 M	4,0	272	A 25	23	89	274	360	480	290	130	44	14	65	165	630	12	-	818	820	R ½	M 16 x 200		
132 S	5,5			114	901	920																	
90 S	1,5	270.007.	A 10	15	42	166	317	20	350	285	100	11	35	135	550	-	10	627	570	R ½	M12 x 125		
90 L	2,2			50	652	650																	
100 L	3,0	241	A 10	18	62	202	330	25	420	260	105	34	65	165	630	-	-	746	730	R ½	M 16 x 200		
112 M	4,0			85	746	730																	
112 M	4,0	301	A 25	20	86	238	390	480	290	115	115	34	14	65	165	630	-	12	746	730	R ½	M 16 x 200	
132 S	5,5			111	865	920																	
132 S	5,5	303	A 63	23	114	274	390	480	290	130	44	14	65	165	630	32	-	865	920	R ½	M 16 x 200		
132 S	5,5			117	865	920																	
90 L	2,2	210	A 10	23	58	190	300	25	420	260	105	17	65	165	630	-	10	711	650	R ½	M 16 x 200		
100 L	3,0			67	770	730																	
112 M	4,0	272	A 25	25	91	230	360	25	420	260	105	37	65	177	800	12	-	770	820	R ½	M 16 x 200		
112 M	4,0			89	770	820																	
112 M	4,0	303	A 63	25	91	230	390	25	420	260	105	57	65	177	800	12	-	810	820	R ½	M 16 x 200		
132 S	5,5			116	810	820																	
132 S	5,5	303	A 63	28	119	270	390	25	420	260	105	77	65	197	900	32	-	893	920	R ½	M 16 x 200		
132 S	5,5			122	893	920																	
132 S	7,5	344	A 63	28	122	270	390	25	420	260	105	77	65	197	900	32	-	933	920	R ½	M 16 x 200		
160 M	11,0			143	933	920																	
160 M	11,0	344	A 63	30	138	310	450	30	660	400	170	47	80	240	1000	60	-	1098	1020	R ½	M 20 x 200		
132 S	7,5			189	1098	1020																	
90 L	2,2	241	A 10	23	67	190	330	25	480	290	115	37	65	165	710	-	-	770	730	R ½	M 16 x 200		
100 L	3,0			91	770	730																	
132 S	5,5	303	A 63	25	116	230	390	25	480	290	130	77	65	177	800	12	-	770	820	R ½	M 16 x 200		
132 S	7,5			119	770	820																	
132 S	7,5	303	A 63	25	116	230	390	25	480	290	130	77	65	177	800	12	-	810	920	R ½	M 16 x 200		
132 S	7,5			119	810	920																	
160 M	11,0	344	A 63	28	122	270	390	25	480	290	130	77	65	177	800	12	-	933	920	R ½	M 16 x 200		
132 S	7,5			143	933	920																	
160 M	11,0	344	A 63	30	189	310	450	30	660	400	170	37	80	240	1000	60	-	1138	1020	R ½	M 20 x 200		
132 S	7,5			205	1138	1020																	
160 M	11,0	344	A 63	30	189	310	450	30	660	400	170	37	80	240	1000	60	-	1138	1020	R ½	M 20 x 200		
132 S	7,5			205	1138	1020																	

* Motor protection typet IP 54, dimensions depend on the motor make

Data regarding the pump size - order notes

Series + size	Bearing + sense of rotation	Shaft sealing	Material design	Casing joint
	A · one grease-lubricated antifriction bearing, one liquid-fushed sleeve bearing · N sense of rotation: clockwise when looking at the pump from the motor	081 stuffing box 135 standard mechanical seal	01 standard design: grey cast iron	0 liquid sealing compound
ADH CDH 0801 0802 0803 0804 0901 0902 0903 0904 1401 1402 1403 1404 1501 1502 1503 1504 2101 2402 2403 2404 2501 2502 2503 2504	AN	alternatively 081 135	01	0
AEH 0805 0806 0807 0808		081		

Scope of delivery	Designation	Motor selection table		
pump with free shaft end	01	motor n = 2900 rpm		
pump with coupling, motor side rough-drilled	04	kW	size	designation
as above, but pump mounted on base plate	05	0,55	71 b	EA
as above, but with motor and coupling guard	e.g. JA	0,75	80 a	FA
e.g. three-phase A.C. motor of 2,2 kW		1,1	80 b	GA
(50 Hz, 230/400 V Δ), of 2900 rpm		1,5	90 S	HA
		2,2	90 L	JA
		3,0	100 L	KA
		4,0	112 M	MA
		5,5	132 S	NA
	7,5	132 S	OA	
	11,0	160 M	SA	
	15,0	160 M	TA	

Important

In case of an order, specify always Q (m³/h) and head H (m)

Example of an order:

The pump size ADH 1402 AN 081.01.0 with coupling rough-drilled on the motor side has the complete order number:

ADH · 1402 AN 081.01.0 04

The pump size ADH 1402 AN 081.01.0 as a complete unit with 2,2 kW three-phase A.C. motor of 2900 rpm has the complete order number:

ADH · 1402 AN 081.01.0 JA

On delivery the period (·) at the fourth place of the type designation is replaced by a letter in the factory.

If the motor type to be provided is specified, then the coupling can be finish-drilled on the side of the motor and a coupling guard as well as the suitable shims to compensate for the height difference between the shaft centerlines of the motor and pump can be supplied.

Any changes in the interest of the technical development are reserved.

Sterling SIHI GmbH

Lindenstraße 170, D-25524 Itzehoe, Germany, Telephone +49 (0)48 21 / 7 71 - 01, Fax +49 (0)48 21 / 7 71-274, www.sih.com