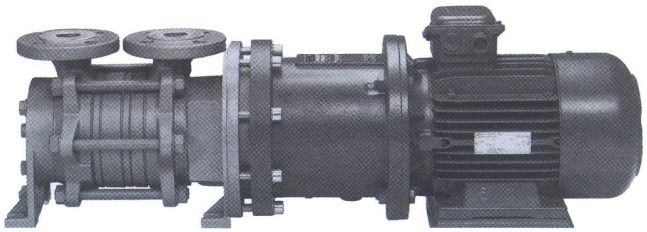
Side Channel Pumps

AEH 1201 ... 6108 magnetic coupling

TECHNICAL DATA

output:	max. 35 m³/h
delivery head:	max. 354 m (at 1450 rpm)
speed:	max. 1800 rpm
temperature:	max. 180°C high temperature on request
casing pressure:	PN 40
shaft sealing:	glandless due to magnetic coupling
flange connection:	DIN 2501 PN 40
sence of rotation:	anti-clockwise when seen on the pump from the drive



APPLICATION

AEH pumps are side channel pumps, are applied in order to handle problem-free and without any leakage and economically clear or turbid, aggressive, valuable toxic or ill-smelling liquids which do not contain any solid particles or abrasive components.

AEH pumps are applied in the chemical and petrochemical industry, in the pharmaceutical industry, in the plastic and rubber industry, in the surface finishing and hardening, in the food, beverage and tobacco industry.

BAUART

Horizontal, selfpriming side channel pumps, handling entrained gas, of segmental type construction with open vane wheel impellers. The sealing to atmosphere is effected glandless by isolation shroud; the drive power is transmitted contactless by a magnetic coupling. The use of stable permanent magnetic material ensures the transmisson of the nominal torque and given protection against overload..

On the basis of the compact close coupled design has been created a pumping unit that is easily to be installed. All IEC standard motors of the construction type IM B 35 are applicable. This design permits the operation of the pump without any additional coupling. Thus the alignment, a source of trouble, can be omitted.

The simple construction of the pump allows the assembly or disassembly without special tools.

CONSTRUCTION

Casing pressure:

Sizes 1200 to 6100: PN 40;
Please observe:
Casing pressure = zero head + inlet pressure
Test pressure 52 bar resp. 33 bar

Position of the branches:

Suction and discharge branches pointing radially upwards.

Flanges:

The flanges comply with DIN 2535 / PN 40
Flanges according to DIN 2512 with groove and bored to ANSI 150 or 300 as well as BS Table F is possible.

Hydraulic:

First hydraulics, designation of this construction type: A•

Bearing:

The pump shaft runs in two sleeve bearings of pure silicon carbide (SiC), lubricated by the pumping medium.
The remaining axial forces are absorbed by axial sleeve bearings.
Optionally available a friction reducing coating of the bushings to avoid critical operation.
The outer magnet is directly fixed on the motor shaft consequently the external bearing becomes unnecessary.
Designation of this construction type: •F

Shaft sealing:

Without shaft seals by an isolation shroud. Transmission of the driving moment by a magnetic coupling.

Designation of this construction type: see last page.

Material design:

Pos.	Components	MATERIAL DESIGN 1A	1B	1F	4B	4F
10.60 10.70 10.80 10.90 11.40 11.41	suction casing discharge casing intermediate piece	GGG 40.3 (0.7043)			1.4408	
21.00	shaft	1.4021			1.4462	
23.50	vane wheel impeller	2.0550	1.4517	PAEK	1.4517	PAEK
0242	bearing bush	from 5-stages: special carbon			special carbon	
31.40 52.90 52.91 54.00 54.01	thrust bearing radial bearing radial bearing	SiC				
34.60	stool	GG 25 (0.6025) or 1.0570				
81.70	sealing shroud	Hastelloy C4 or ZrO2				
81.71	flange for can	1.0570				
84.71	internal magnet	1.4571/SmCo				
84.72	external magnet	1.0570/SmCo				
84.80	driving flange	1.0570				

Casing sealing:

The casing sealing is made by soft Teflon and O-ring PTFE. Designation of this construction type: 4

Drive:

By commercial three-phase A.C. motors, construction type IM B35. The selection is depending on the power consumption of the hydraulics, taking into consideration the density and viscosity of the pumping medium. For the motor rating the eddy current losses are to be added to the pump performance.
Motors controlled by frequency converters are admissible. The motors and magnetic couplings indicated in the delivery programme are selected for a mains frequency of max. 50 Hz and are applicable for watery liquids. In case of differing speeds other magnetic dipole moments are necessary for the couplings. It is recommendable to check the selection with Sterling SIHI.

Position:

Usually the pump units are installed horizontally. The operation with vertically installed pump units is possible, but should be made only in consultation with Sterling SIHI because of the special instructions for starting-up, the support and thermal load of the drive motor.

General remarks:

The following pump series with magnetic couplings are available:

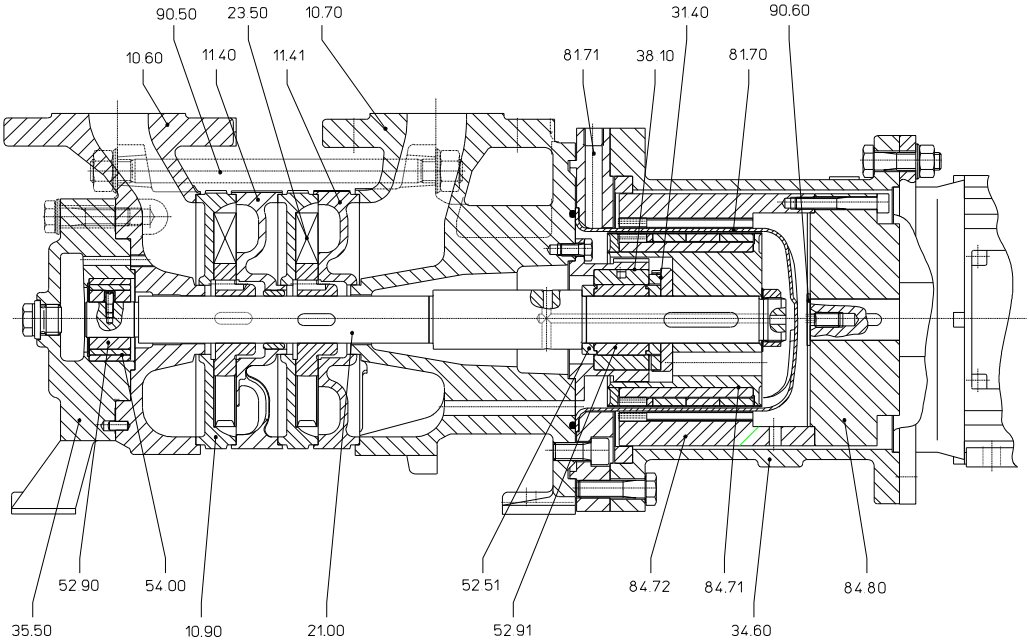
Side channel pump with NPSH inducer stage:
Series **CEHB** with axial inlet and low NPSH

Volute casing pumps:
Series **CBMD** volute casing pump **as per DIN EN 22858 bearing bracket design**
Series **CBED** volute casing pump **as per DIN EN 22858 close coupled construction**
Series **ZLKD** volute casing pump close coupled construction - branches **as per DIN 24255 / EN 733**
Series **ZLID** inline pump

For lower delivery heads:
Series **AKLA /AKVA** single-stage inline side channel pump

Technical documentation on these programmes is available on request.

Sectional drawing and nomenclature



10.60	suction casing	23.50	vane wheel impeller	54.00	bearing bush
10.70	discharge casing	31.40	thrust bearing	81.70	isolation shroud
10.80	intermediate piece	34.60	stool	81.71	flange of can
10.90, 10.91	suction piece	35.50	bearing bracket casing	84.71	Iinterior magnet
11.40, 11.41	discharge piece	38.10	bearing carrier	84.72	exterior magnet
21.00	shaft	52.51	spacer ring	84.80	driving flange
23.10	impeller	52.90, 52.91	sleeve	90.60	shaft screw

FUNCTION

Partial flow:

For the cooling of the isolation shroud, heated up by eddy currents, a partial flow is derived which at the same time serves as lubricant for the ceramic sleeve bearings. The partial flow flows through two longitudinal bores in the discharge casing into the isolation shroud and is led back through the hollow bored shaft and the balance bores of the rear vane wheel impeller to its suction side. By the pumping capability of the inner magnet, inside the isolation shroud a circulation flow is created which flows through the longitudinal bores of the inner magnet towards the bottom of the isolation shroud and in the gap between inner magnet and isolation shroud back to the front side of the inner magnet. This circulation flow is nearly independent of the operating point of the pump. Consequently the cooling of the isolation shroud is guaranteed over the entire characteristic.
By the pumping capability of the lubricating grooves in the thrust bearing disk a further flow is created through the bearing gap of the radial bearing over the thrust bearing towards the longitudinal bores of the inner magnet. Thus, also independent of the operating point of the pump, the lubrication of the bearings is guaranteed.

Bearing:

The SiC bushings are clamped axially on the shaft. The material combination secures that the clamping power is maintained also in case of high temperatures. The sleeve at suction side is secured on the shaft by a shoulder stud. TH stationary bearing inserts are screwed to the discharge casing or pressed into the bearing bracket casing. Alternatively bearings coated with adamantine carbon are available. Hereby are considerably reduced the coefficients of friction during dry operation and danger to the pump can be prevented. This coating is applicable up to 250°C.

Safety:

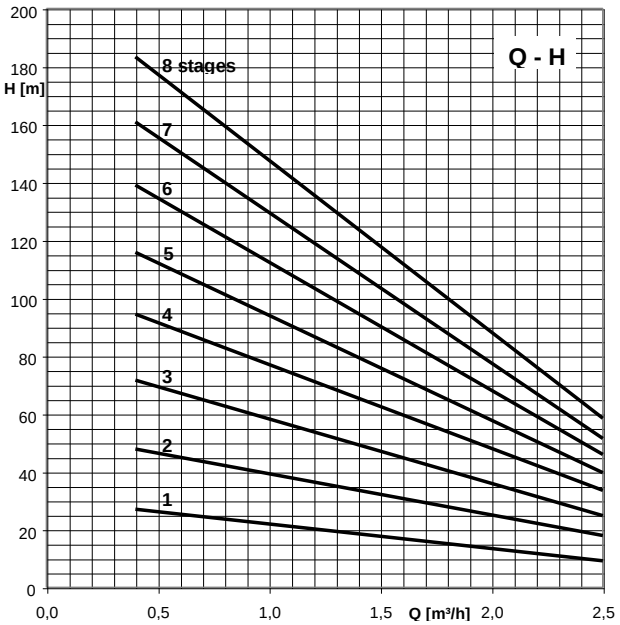
The magnetic bell is directly fixed on the motor shaft. The load on the bearings resulting from this is relatively slight and therefore a damage to the bearings very improbable. In order to protect the isolation shroud against internal or external damages by rotating parts, a stationary seat is installed in the stool and at the bearing insert. The distance from the rotors is smaller than that of the rotors from the isolation shroud.
In order to obtain double leakproofness the application of fanless motors which withstand flooding, is possible. Then the sealed stool chamber serves to control the function of the isolation shroud.

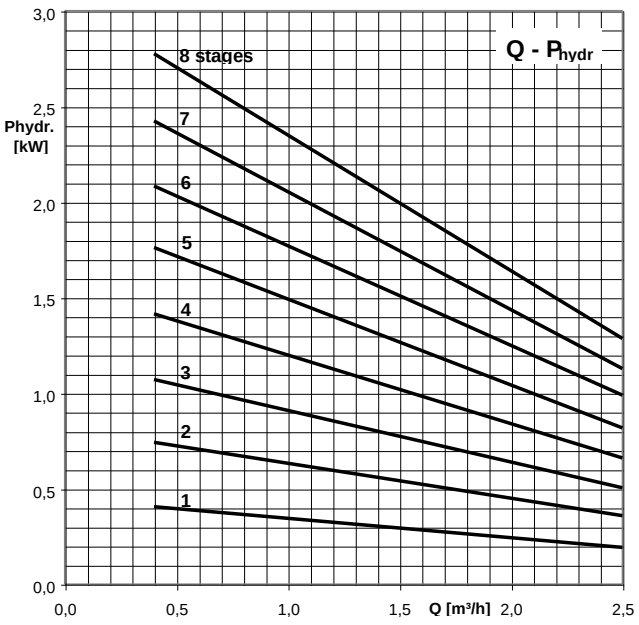
The pump has to be run with a motor load detector. It protects the machine against dry operation and operation beyond the range of the characteristic curves.

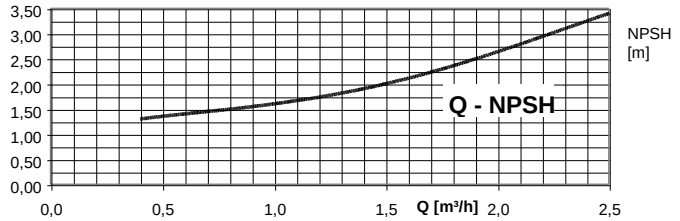
VARIANTS

Pumps with heating or cooling chambers for the handling of smeltings or boiling media also are available. For such cases special heating stages, instead of normal stages, are installed in the pump and thus offering the heating or cooling by means of liquid or vapour.

Characteristic curves

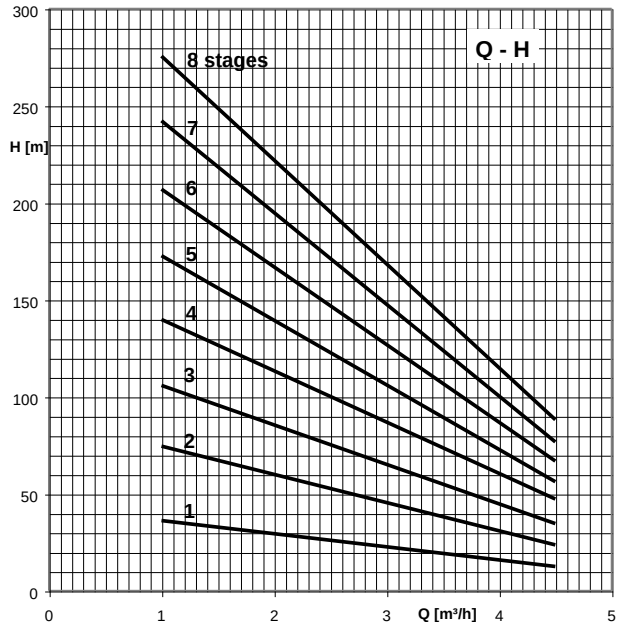


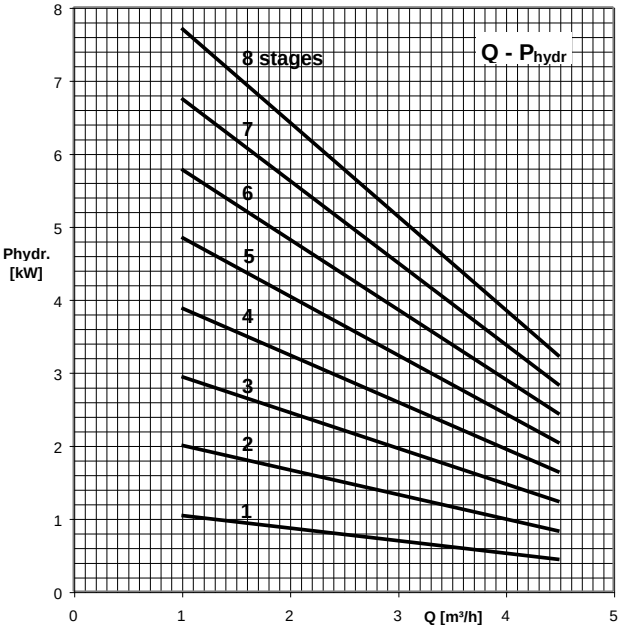


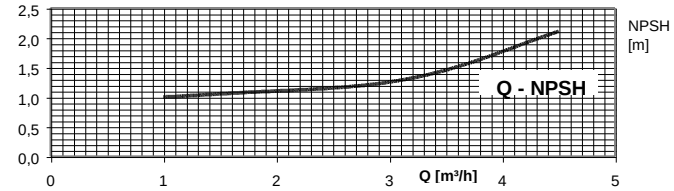


AEH 1200 with magnetic coupling

speed 1450 rpm, Visc.= 1 mm²/s, spec. grav. = 1 kg/dm³



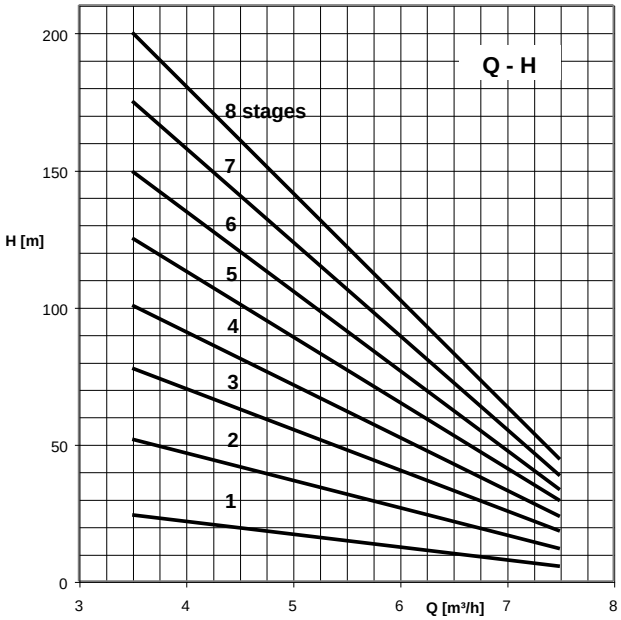


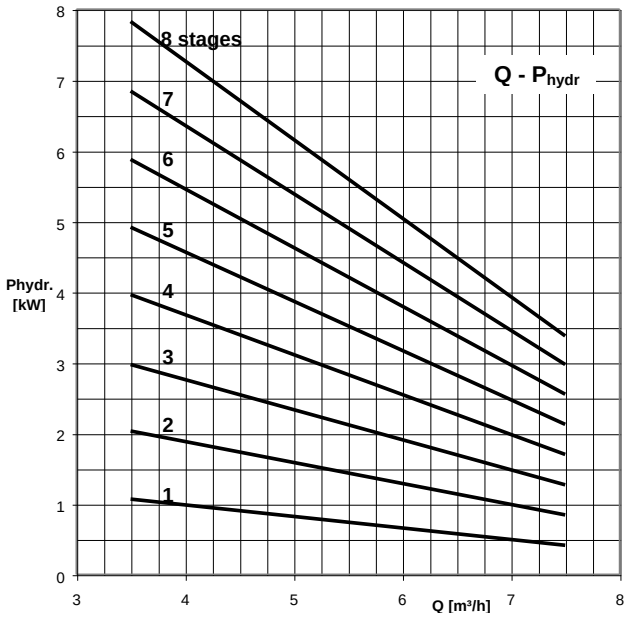


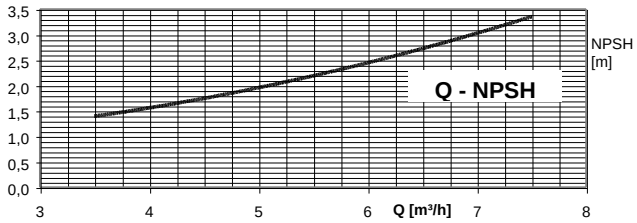
AEH 3100 with magnetic coupling

speed 1450 rpm, Visc. 1 mm²/s, spec.grav. 1 kg/dm³

Characteristic curves

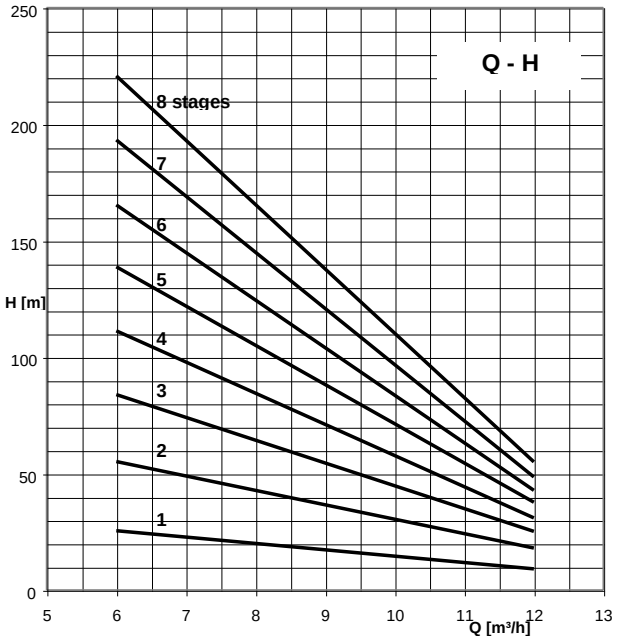


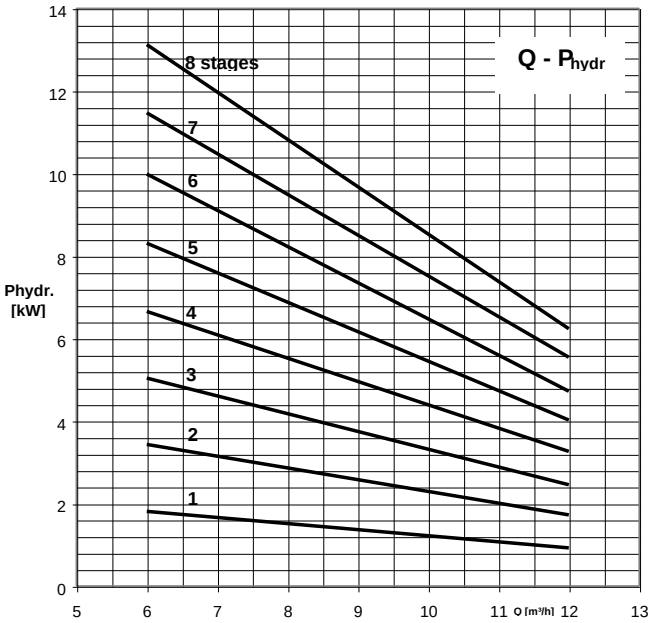


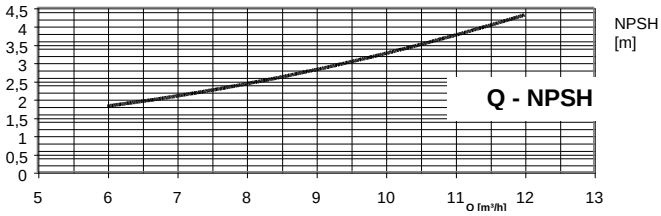


AEH 3600 with magnetic coupling

speed 1450 rpm, Visc. 1 mm²/s, spec.grav. 1 kg/dm³



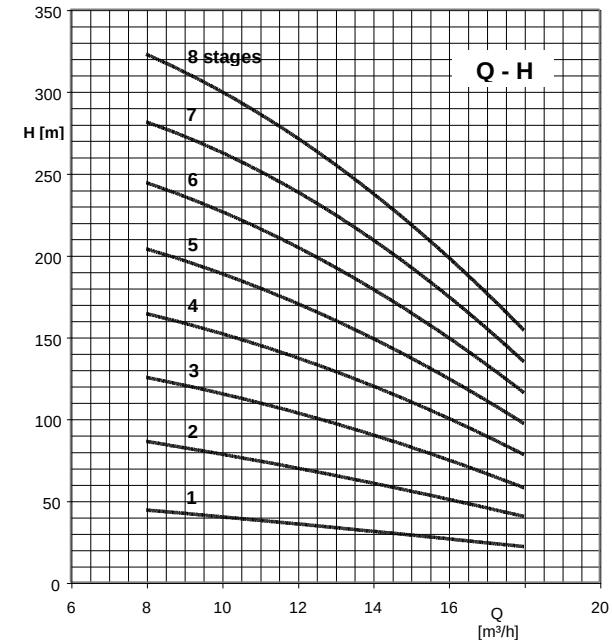


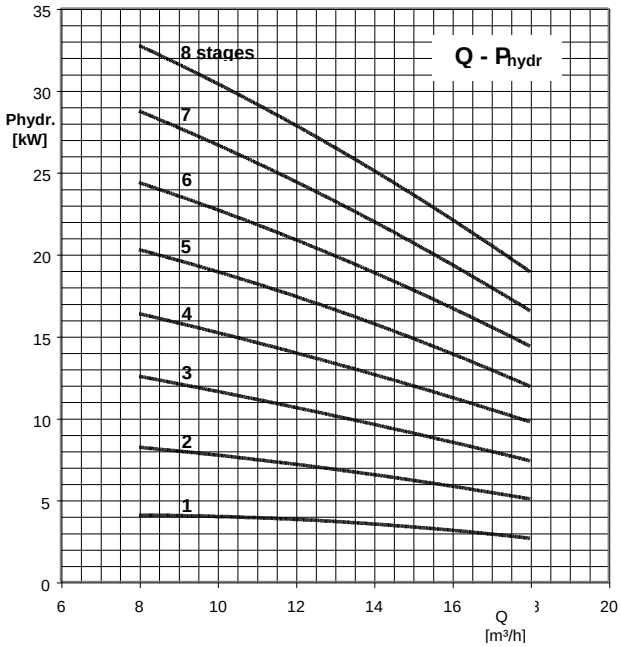


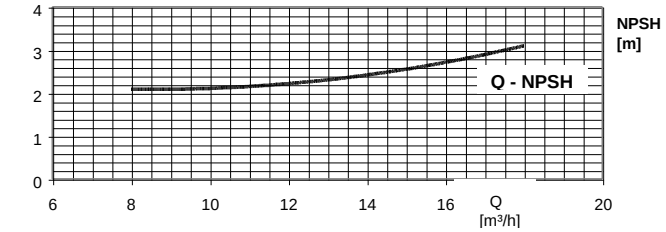
AEH 4100 with magnetic coupling

speed 1450 rpm, Visc. 1 mm²/s, spec.grav. 1 kg/dm³

Characteristic curves

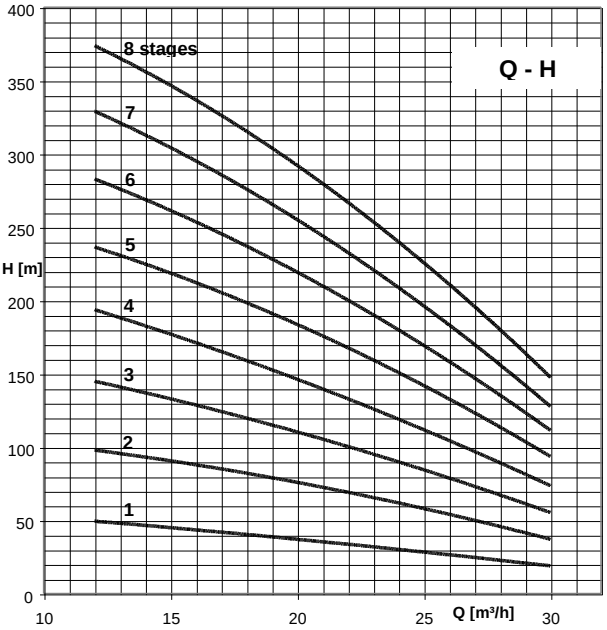


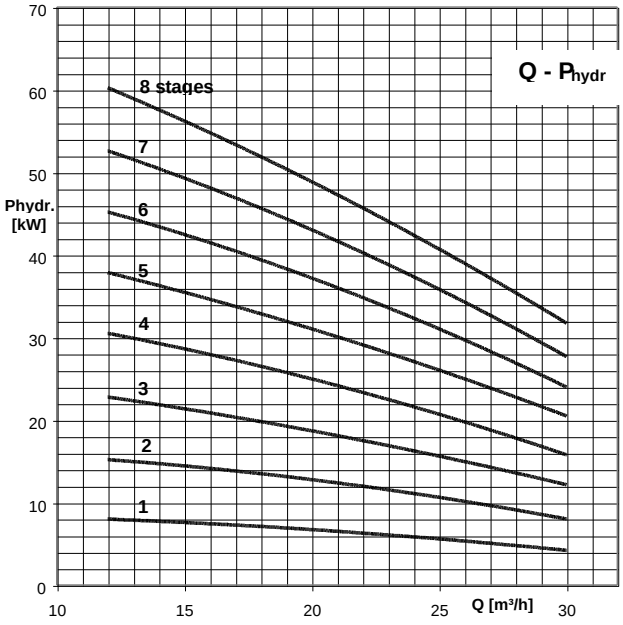


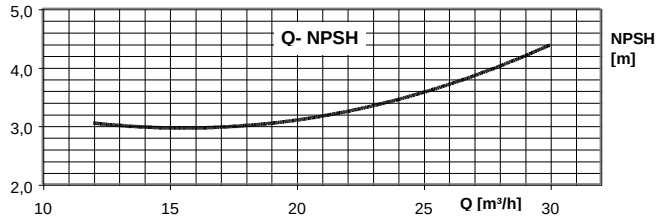


AEH 5100 with magnetic coupling

speed 1450 rpm, Visc. 1 mm²/s, spec.grav. 1 kg/dm³



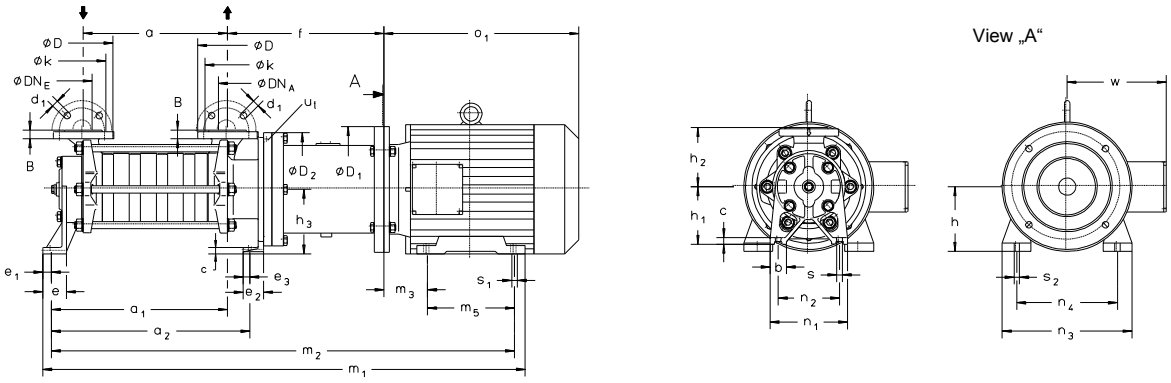




AEH 6100 with magnetic coupling

speed 1450 rpm, Visc. 1 mm²/s, spec.grav. 1 kg/dm³

Dimension table



u_t : connection for temperatur probe G¼

flanges acc. to DIN 2501 PN 40					
$DN_{A/E}$	20	32	40	50	65
D	115	140	154	165	190
k	75	100	110	125	145
d_1 x number	14 X 4	18 x 4	18 x 4	18 x 4	18 x 8

flanges acc. to ANSI 300 RF					
$DN_{A/E}$	20	32	40	50	65
D	115	140	154	165	190
k	82,5	98,4	114,3	127	149,2
d_1 x number	19 x 4	19 x 4	22,2 x 4	19 x 8	22,2 x 8

Dimensions of the motor

size	nominal power		D_1	h	m_3	m_5	n_3*	n_4	o_1*	s_1*	s_2*	w*	weight
	IP54 resp. EExde	EExe	mm										abt. kg
80A	0,55	0,55	200	80	50	100	151	125	229	8,5	15	121	8,3
80B	0,75	0,75	200	80	50	100	151	125	229	8,5	15	121	10
90 S	1,1	1,0	200	90	56	100	180	140	250	10,5	-	167	14
90 L	1,5	1,35	200	90	56	125	180	140	275	10,5	-	167	18
100 L 1	2,2	2,0	250	100	63	140	205	160	323	12	-	175	23
100 L 2	3,0	2,5	250	100	63	140	205	160	323	12	-	175	25
112 M	4,0	3,6	250	112	70	140	230	190	329	12	18	191	38
132 S	5,5	5,0	300	132	89	140	266	216	361	12	18	213	59
132 M	7,5	6,8	300	132	89	178	266	216	399	12	18	213	69
160 M	11,0	10,0	350	160	108	210	310	254	470	15	22	245	108
160 L	15,0	13,5	350	160	108	254	310	254	514	15	22	245	130
180 M	18,5	15,0	350	180	121	241	345	279	536	15	25	280	162
180 L	22,0	17,5	350	180	121	279	345	279	574	15	25	280	176
200 L	30,0	24,0	400	200	133	305	400	318	656	20	26	302	254
225 S	37,0	30,0	450	225	149	286	450	356	678	20	26	353	305
225 M	45,0	36,0	450	225	149	311	450	356	703	20	26	353	335
250 M	55,0	44,0	550	250	168	349	505	406	790	25	36	406	425

* dimension dependent on motor make

Dimensions of the pump

size	IP 54	EExe II T3	torque of the magnetic coupling	DN_A	DN_E	a	a_1	a_2	b	c	D_2	e	e_1	e_2	e_3	f	h_1	h_2	h_3	m_1*	m_2*	n_1	n_2	s	weight of the pump
	kW	kW		mm																					abt. kg
1201	0,55	0,55	K	20	20	120	178	228	32	10	182	44	17	34	17	227	100	100	100	585	555	140	105	13	46
	0,75	0,75																							
1202	0,75	0,75																		593	561				51
	1,1	1																							
	1,5	1,35																		618	586				
1203	0,75	0,75				154	212	262												619	589				62
	1,1	1																		627	595				
	1,5	1,35	P																	652	620				
	2,2	2														237				684	652				
1204	1,1	-	K			188	246	296								227				661	629				65
	1,5	1,35	P																	686	654				
	2,2	2														237				718	686				
	3	2,5	V																						
1205	1,5	1,35	on request			222	280	330								227				720	688				67
	-	2														237				752	720				
	2,2	-																							
	3	2,5																							
	-	3,6																		762	727				
1206	-	1,35				256	314	364								227				754	722				70
	-	2														237				786	754				
	2,2	-																							
	3	2,5																							
	4	3,6																		796	761				
1207	-	2				290	348	398												820	788				73
	2,2	-																							
	3	2,5																							
	4	3,6																		830	795				
1208	2,2	2				324	382	432												854	822				76
	3	2,5																							
	4	3,6																		864	829				
	-	5														257				908	868				

size	IP 54	EExe II T3	torque of the magnetic coupling	DN_A	DN_E	a	a_1	a_2	b	c	D_2	e	e_1	e_2	e_3	f	h_1	h_2	h_3	m_1*	m_2*	n_1	n_2	s	weight of the pump
	kW	kW		mm																					abt. kg
3101 3601	1,1	1	T	32	32	146	213	270	35	12	260	42	17	50	17	295	112	132	132	696	664	170	135	13	122
	1,5	1,35																		721	689				
	2,2	2														305				753	721				
3102 3602	1,5	1,35														295				721	689				130
	2,2	2														305				753	721				
	3	2,5																							
	4	3,6																		763	728				
3103 3603	2,2	2				186	253	310								305				793	761				138
	3	2,5																							
	4	3,6																		803	768				
	-	5														325				847	807				
	5,5	-	W																						
3104 3604	3	2,5	T			226	293	350								305				833	801				142
	-	3,6																		843	808				
	-	5														325				887	847				
	4	-	W													305				843	808				
	5,5	-														325				887	847				
	-	6,8	Z																	925	885				
3105 3605	3	-	on request			266	333	390								305				873	841				146
	-	3,6																		883	848				
	-	5														325				927	887				
	4	-														305				883	848				
	5,5	-														325				927	887				
	-	6,8																		965	925				
	7,5	-																							
3106 3606	-	3,6				306	373	430								305				923	888				157
	4	-														325				967	927				
	-	5																							
	5,5	-																							
	-	6,8																		1005	965				
	7,5	-																							
	11	10														355				1086	1046				
3107 3607	4	-				346	413	470								305				963	928				161
	-	5														325				1007	967				
	5,5	-																							
	-	6,8																		1045	1005				
	7,5	-																							
	11	10														355				1126	1086				
3108 3608	5,5	5				386	453	510								325				1047	1007				165
	7,5	6,8																		1085	1045				
	11	10														355				1166	1126				
	-	13,5																		1210	1170				

Dimensions of the pump

size	IP 54	EExe II T3	torque of the magnetic coupling	DN_A	DN_E	a	a_1	a_2	b	c	D_2	e	e_1	e_2	e_3	f	h_1	h_2	h_3	m_1*	m_2*	n_1	n_2	s	weight of the pump
	kW	kW		mm																					abt. kg
4101	2,2	2	T	40	40	159	214	275	36	15	260	43	17	49	17	311	132	140	132	760	728	195	155	13	113
	3	2,5																							
	-	3,6																		770	735				
	4	-	W																						
4102	2,2	2	T			214	269	330												815	783				140
	3	2,5																							
	4	3,6	W																	825	790				
	5,5	5	Z													331				869	829				
4103	3	-	T			269	324	385								311				870	838				156
	-	3,6	W																	880	845				
	4	-	Z																						
	5,5	5														331				924	884				
	7,5	6,8	A																	962	922				
	-	10														361				1043	1003				
4104	-	5	Z			324	379	440								331				979	939				204
	5,5	-																							
	7,5	6,8	A																	1017	977				
	-	10														361				1098	1058				
	11	-	C																						
4105	-	5	on request			379	434	495								331				1034	994				211
	5,5	-																							
	-	6,8																		1072	1032				
	7,5	-																							
	11	10														361				1153	1113				
	-	13,5																		1197	1157				
4106	-	6,8				434	489	550								331				1127	1087				218
	7,5	-																							
	-	10														361				1208	1168				
	11	-																							
	15	13,5																		1252	1212				
	-	15																		1259	1212				
4107	7,5	6,8				489	544	605								331				1182	1142				225
	-	10														361				1263	1223				
	11	-																							
	15	13,5																		1307	1267				
	18,5	15																		1314	1267				
4108	7,5	-				544	599	660								331				1237	1197				235
	-	10														361				1318	1278				
	11	-																							
	15	13,5																		1362	1322				
	18,5	15																		1369	1322				
	-	17,5																		1407	1360				

Dimensions of the pump

size	IP 54	EExe II T3	torque of the magnetic coupling	DN_A	DN_E	a	a_1	a_2	b	c	D_2	e	e_1	e_2	e_3	f	h_1	h_2	h_3	m_1*	m_2*	n_1	n_2	s	weight of the pump
	kW	kW		mm																					abt. kg
5101	3	-	T	50	50	175	253	315	45	17	260	65	18	57	19	318	160	165	160	808	774	215	170	15	200
	4	3,6	W																	818	781				
	5,5	5	Z													338				862	820				
	7,5	6,8	A																	900	858				
5102	-	5	Z			250	328	390												937	895				235
	5,5	-	A																						
	7,5	6,8																		975	933				
	11	10	C													368				1056	1114				
	-	13,5	D																	1100	1058				
	-	15																		1107	1058				
5103	-	6,8	A			325	403	465								338				1050	1008				254
	7,5	-	C																						
	-	10														368				1131	1089				
	11	-	D																						
	15	13,5	E																	1175	1133				
	18,5	15																		1182	1133				
5104	-	10	D			400	478	540								368				1206	1164				315
	11	-	E																						
	15	13,5																		1250	1208				
	18,5	15																		1257	1208				
	-	17,5																		1295	1246				
	-	24	F																	1333	1284				
5105	-	10	on request			475	553	615			315					434				1347	1305				366
	11	-																							
	15	13,5																		1391	1349				
	18,5	15																		1397	1349				
	-	17,5																		1435	1387				
	22	-																							
	-	24																		1474	1425				
	30	-																							
5106	15	13,5				550	628	690								434				1466	1424				378
	18,5	15																		1472	1424				
	-	17,5																		1510	1462				
	22	-																							
	-	24																		1549	1500				
	30	-																							
	-	30														464				1588	1527				
5107	15	-				625	703	765								434				1541	1499				389
	18,5	15																		1547	1499				
	-	17,5																		1585	1537				
	22	-																							
	-	24																		1624	1575				
	30	-																							
	-	30														464				1663	1602				
	37	-																							
5108	-	17,5				700	778	840								434				1660	1610				401
	22	-																							
	-	24																		1696	1650				
	30	-																							
	-	30														464				1738	1677				
	37	-																							
	-	36																		1763	1702				
	45	-																							
	-	44																		1813	1759				

Dimensions of the pump

size	IP 54	EExe II T3	torque of the magnetic coupling	DN_A	DN_E	a	a_1	a_2	b	c	D_2	e	e_1	e_2	e_3	f	h_1	h_2	h_3	m_1*	m_2*	n_1	n_2	s	weight of the pump
	kW	kW		mm																					abt. kg
6101	5,5	5	A	65	65	196	286	353	50	20	315	63	19	65	20	413	180	180	180	969	928	245	195	15	298
	7,5	6,8																		1007	966				
	-	10														443				1089	1047				
	11	-	B																						
	-	13,5	E																	1133	1091				
6102	7,5	-	A			286	376	443								413				1098	1056				320
	-	10														443				1179	1137				
	11	-	B																						
	15	13,5	E																	1223	1181				
	18,5	15																		1229	1181				
	-	17,5																		1267	1219				
6103	15	13,5				376	466	533												1313	1271				335
	18,5	15																		1319	1271				
	-	17,5																		1357	1309				
	22	-	F																	1396	1347				
	-	24																							
	30	-	H																						
6104	-	13,5	E			466	556	623												1403	1361				349
	18,5	15																		1409	1361				
	-	17,5																		1447	1399				
	22	-	F																						
	-	24																		1486	1437				
	30	-	H																						
	-	30														473				1525	1464				
	37	-	J																						
	-	36																		1550	1489				
6105	-	17,5	on request			556	646	713								443				1537	1489				368
	22	-																							
	-	24																		1576	1527				
	30	-																							
	-	30														473				1615	1554				
	37	-																							
	-	36																		1640	1579				
	45	-																							
	-	44																		1690	1636				
6106	22	-				646	736	803								443				1628	1579				382
	-	24																		1666	1617				
	30	-																							
	-	30														473				1705	1644				
	37	-																							
	-	36																		1730	1669				
	45	-																							
	-	44																		1780	1726				
	55	-																							
6107	-	24				736	826	893								443				1756	1707				397
	30	-																							
	37	-														473				1795	1734				
	-	30																							
	-	36																		1820	1759				
	45	-																							
	-	44																		1870	1816				
	55	-																							
6108	30	-				826	916	983								443				1846	1797				415
	37	-														473				1885	1824				
	-	30																							
	-	36																		1910	1849				
	45	-																							
	-	44																		1960	1906				
	55	-																							

Data regarding pump size - order hints

series + size		hydraulics + bearings	shaft sealing + magnetic coupling	material design	casing seal
		A• first hydraulics •F two liquid surrounded sleeve bearing	1 • • coupling system 1 2 • • coupling system 2 3 • • coupling system 3 4 • • coupling system 4 isolation shroud of: • A • Hastelloy C (2.4610) torque of desychronization [Nm] for system 1 / 2 / 3 / 4 • • A 78 69 • • B 83 • • C 100 • • D 112 • • E 158 133 • • F 179 178 • • H 212 • • J 255 • • K 14 293 • • L 330 • • M 380 • • P 23 • • T 33 • • V 38 • • W 41 • • Z 54	1A main parts of spheroidal cast iron, vane wheel impeller of brass 1B main parts of spheroidal cast iron, vane wheel impeller of chrome steel 1F main parts of spheroidal cast iron, vane wheel impeller of PAEK 4B stainless steel 4F stainless steel vane wheel impeller PAEK	4 soft PTFE and PTFE O-ring at isolation shround
AEH	1201	AF	1AK	alternatively 1A 1B 1F 4B 4F	4
	1202		1AK		
	1203		1AK, 1AP		
	1204		1AK, 1AP, 1AV		
	1205		1AP, 1AV		
	1206		1AP, 1AV		
	1207		1AP, 1AV		
	1208		1AV		
	3101 and 3601		2AT		
	3102 and 3602		2AT		
	3103 and 3603		2AT, 2AW		
	3104 and 3604		2AT, 2AW, 2AZ		
	3105 and 3605		2AT, 2AW, 2AZ, 2AA		
	3106 and 3606		2AT, 2AW, 2AZ, 2AA		
	3107 and 3607		2AW, 2AZ, 2AA		
	3108 and 3608		2AZ, 2AA, 2AC		
	4101		3AT, 3AW		
	4102		3AT, 3AW, 3AZ		
	4103		3AT, 3AW, 3AZ, 3AA		
	4104		3AZ, 3AA, 3AC		
	4105		3AZ, 3AA, 3AC, 3AD		
	4106		3AA, 3AC, 3AD, 3AE		
	4107		3AC, 3AD, 3AE		
	4108		3AC, 3AD, 3AE		
	5101		3AT, 3AW, 3AZ, 3AA		
	5102		3AZ, 3AA, 3AC, 3AD		
	5103		3AA, 3AC, 3AD, 3AE		
	5104		3AD, 3AE, 3AF		
	5105		4AA, 4AB, 4AE, 4AF, 4AH		
	5106		4AE, 4AF, 4AH		
	5107		4AE, 4AF, 4AH, 4AJ		
	5108		4AE, 4AF, 4AH, 4AJ, 4AK; 4AL		
	6101		4AA, 4AB, 4AE		
	6102		4AA, 4AB, 4AE		
	6103		4AE, 4AF, 4AH		
	6104		4AE, 4AF, 4AH, 4AJ		
	6105		4AE, 4AF, 4AH, 4AJ, 4AK; 4AL		
	6106		4AF, 4AH, 4AJ, 4AK; 4AL,4AM		
	6107		4AF, 4AH, 4AJ, 4AK; 4AL,4AM		
	6108		4AH, 4AJ, 4AK; 4AL,4AM		

Possible pump-magnetic coupling-motor combinations please take from the dimensions table on the page 7 - 11.

Order hints

selection table - 3-phase AC motors, speed: = 1450 rpm				
	IP 54 EEx e II T3 (Ex e G3)		IP 54 and IP 54 EEx d II T3 (TEF)	
size	nominal power [kW]	SIHI designation	nominal power [kW]	SIHI designation
80A	0,55	FK	0,55	FB
80B	0,75	GK	0,75	GB
90 S	1,0	HK	1,1	HB
90 L	1,35	JK	1,5	JB
100 L 1	2,0	KK	2,2	KB
100 L 2	2,5	LK	3,0	LB
112 M	3,6	MK	4,0	MB
132 S	5,0	NK	5,5	NB
132 M	6,8	PK	7,5	PB
160 M	10,0	SK	11,0	SB
160 L	13,5	UK	15,0	UB
180 M	15,0	VK	18,5	VB
180 L	17,5	WK	22,0	WB
200 L	24,0	XK	30,0	XB
225 S	30,0	ZK	37,0	ZB
225 M	36,0	AK	45,0	AB
250 M	44,0	BK	55,0	BB

Example of order

A two stage pump of size 3100 in material design 4B, equipped with a T-magnet
and a 1,35 kW motor, protection type EEx e II T3
has the complete order number: **AEH• 3102 AF 2AT 4B 4 JK**

On delivery, the point (•) in the fourth place of the type designation is replaced by a letter in the factory.

Any changes in the interest of the technical development reserved.

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