

NEW



**IH INLINE PUMPS –
VERTICAL INLINE
MULTISTAGE PUMPS**

Inline Pumps

IH11...17

The IH series pumps achieve optimum hydraulic efficiency with their closed impellers.

The compact design of the inline pumps with opposing suction and discharge ports allows for space-saving installation – either integrated directly into the pipeline or directly on the tank.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. Please see technical information “Controls/Regulations” in the main catalogue or on our website in the “Downloads” section.



Applications

Multi-stage inline centrifugal pumps are ideal for high delivery pressures and, in addition to supplying cooling lubricants in industry, are used in water supply, refrigeration and air conditioning technology, and industrial cleaning processes.

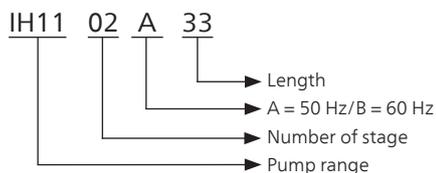
Pump Curves

One key feature of the IH series pumps is their non-overloading motors. These pumps can be operated across the entire pump curve without damaging the motor. This key advantage applies for all allowed fluids, including coolant oils. For specific applications where only one working point is required, the pump/motor combinations can be reviewed and a smaller motor size might be applicable.

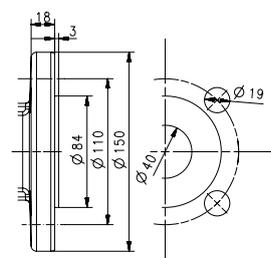
Number of Stages

IH pump curves are determined by the number of impeller used within the pump.

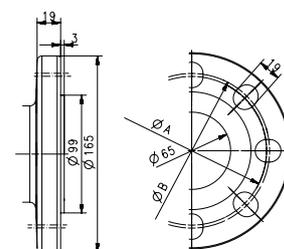
Type Designation



Suction and pressure connections



IH11: DN40, 4- hole

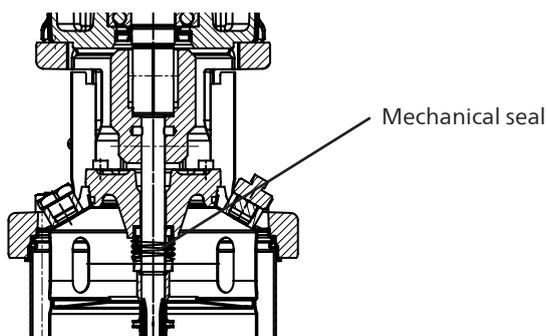


IH14 / IH17: DN50, 4 hole, Ø 125 mm
ANSI, 8 hole, Ø 127 mm
JIS 2", 8 hole, Ø 130 mm

Digital solutions for a modern pump system



Mechanical seal



The pump does not need to be removed from the piping system to replace the mechanical seal.

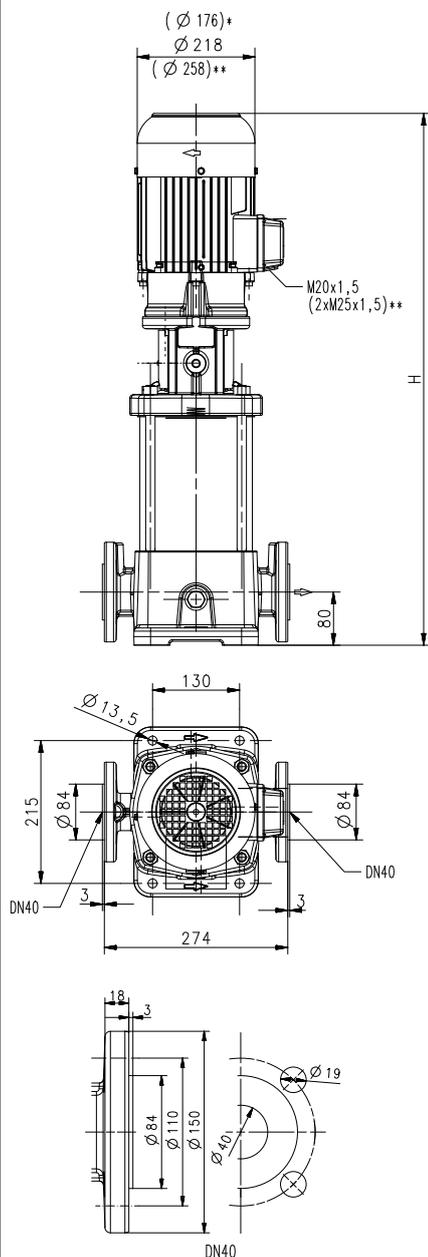
The motor, coupling, and housing cover are dismantled and the mechanical seal is removed from the shaft. The counter ring is located in the housing cover.

IH11

50 Hz

Closed impellers

IH1102...1121



*) Dimensions for IH1102...1106

**) Dimensions for IH1116...1121

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1102A33	150/19	887	52	1.3	220-240 380-415	50 50	4.85 2.80	2900 2900
IH1104A33	150/38	913	54	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
IH1106A33	150/58	945	59	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
IH1108A33	150/78	984	71	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
IH1110A52	150/98	1176	79	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
IH1112A52	150/118	1206	84	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
IH1114A52	150/138	1206	85	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
IH1116A72	150/158	1478	120	7.5	380-415	50	14.3	2950
IH1118A72	150/178	1478	121	7.5	380-415	50	14.3	2950
IH1121A72	150/206	1478	128	9.0	380-415	50	16.7	2955



Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

The pumps of the IH series are suitable, for example, for supplying coolant to internally cooled tools.

For further information, please refer to the technical information for medium-pressure pumps.

Applications

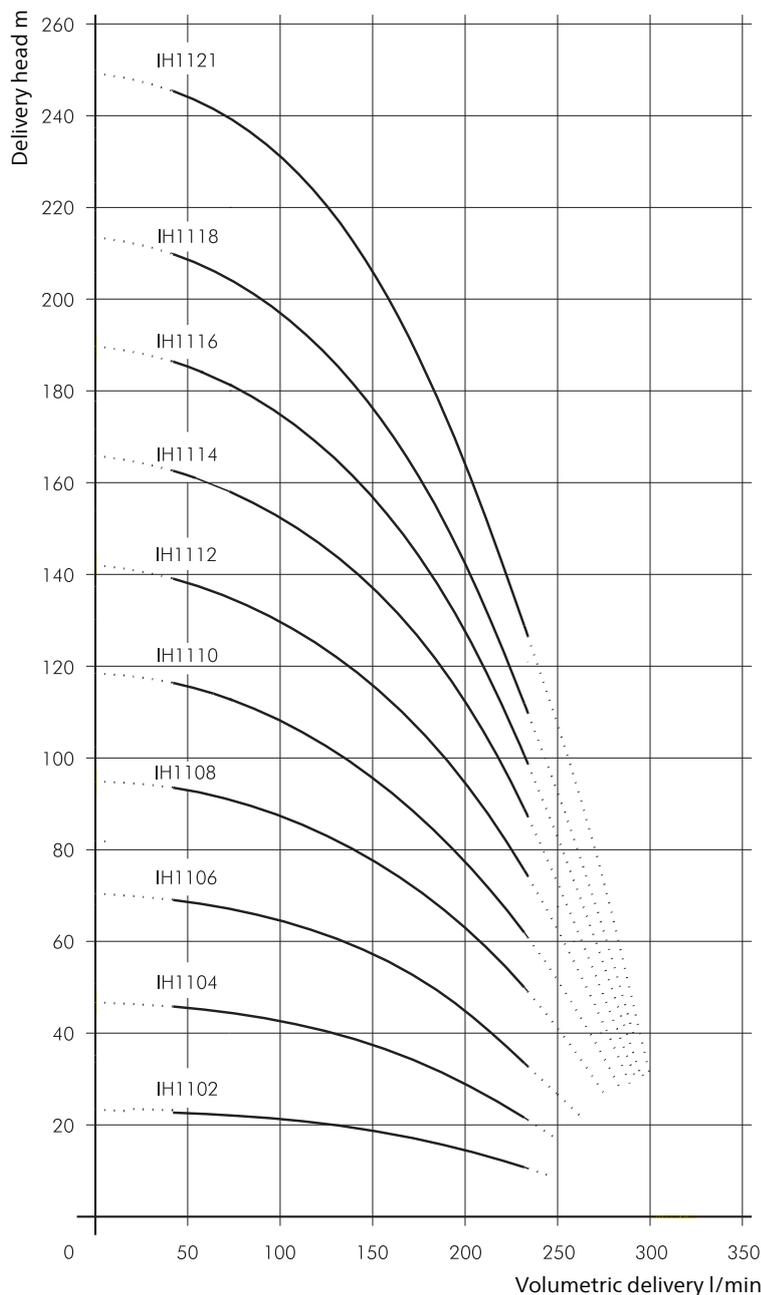
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...25 mm²/s (25 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1102...IH1106	63 dBA
IH1108...IH1114	71 dBA
IH1116...IH1121	74 dBA

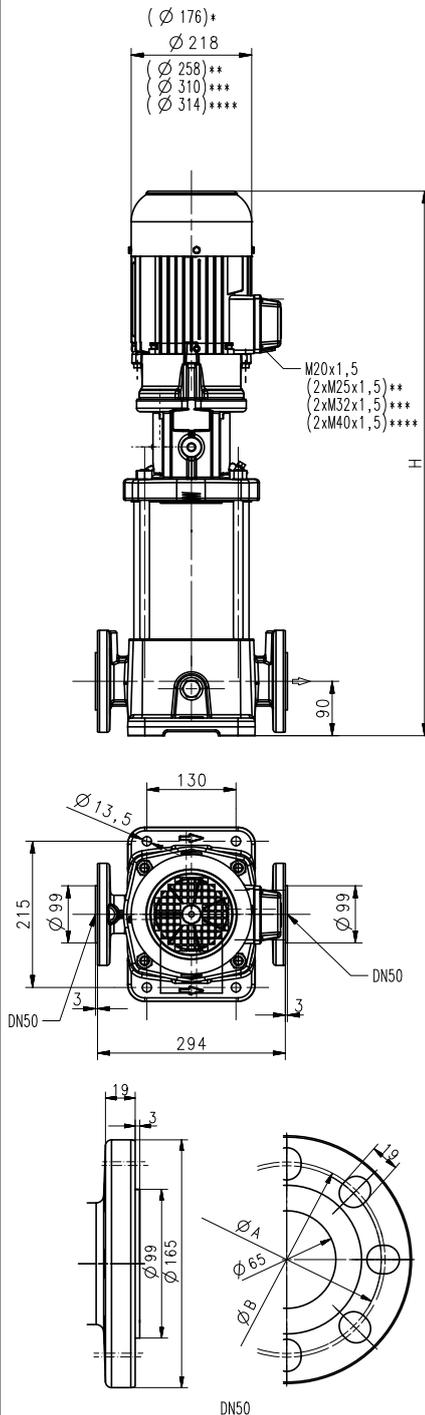


IH14

50 Hz

Closed impellers

IH1402...1417



A=Ø125 mm DN 50

B=Ø127 mm ANSI

B=Ø130 mm JIS 2"

*) Dimensions for IH1402

**) Dimensions for IH1408...1410

**) Dimensions for IH1408...1410

**) Dimensions for IH1408...1410

**) Dimensions for IH1408...1410

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1402A33	250/21	913	52	1.7	220-240	50	6.24	2890
					380-415	50	3.60	2890
IH1404A33	250/48	984	69	3.3	220-240	50	11.6	2930
					380-415	50	6.7	2930
IH1406A33	250/74	1014	77	5.0	220-240	50	17.3	2920
					380-415	50	10.0	2920
IH1408A52	250/98	1286	117	7.5	380-415	50	14.3	2950
IH1410A52	250/120	1286	124	9.0	380-415	50	16.7	2955
IH1412A72	250/144	1486	155	11.0	380-415	50	20.1	2960
IH1414A72	250/170	1486	156	13.0	380-415	50	24.2	2960
IH1417A86	250/200	1924	184	15.0	400	50	27	2960

Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

The pumps of the IH series are suitable, for example, for supplying coolant to internally cooled tools.

For further information, please refer to the technical information for medium-pressure pumps.

Applications

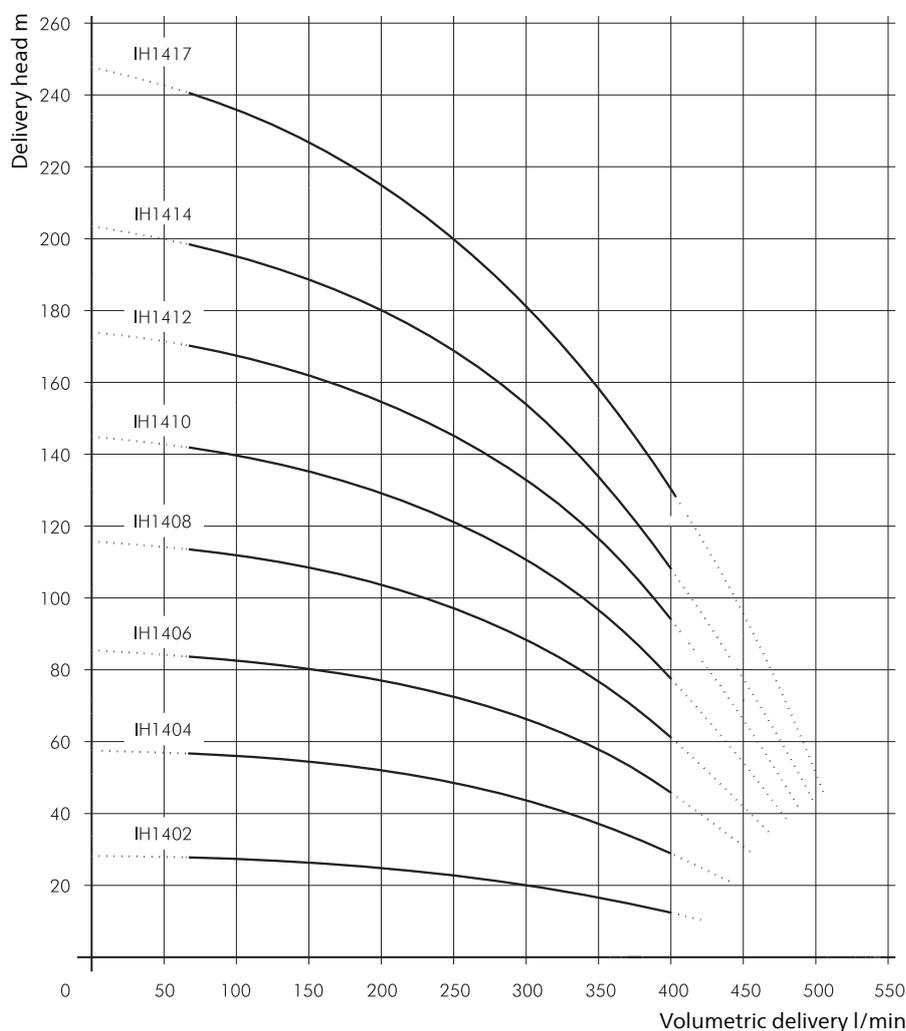
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...25 mm²/s (25 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1402	63 dBA
IH1404...IH1406	71 dBA
IH1408...IH1414	74 dBA
IH1417	78 dBA



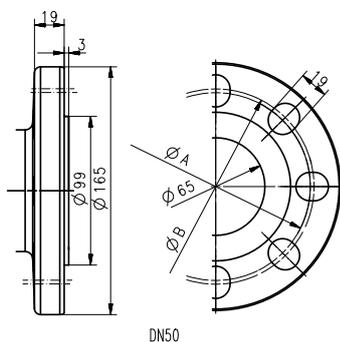
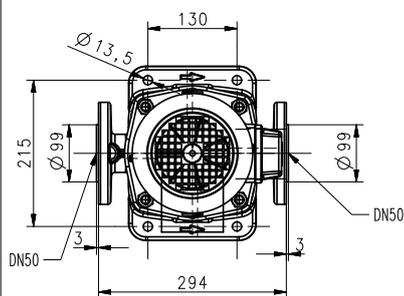
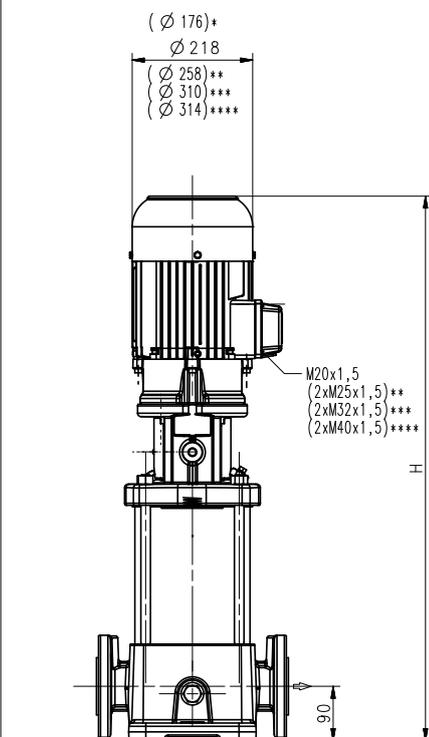
Inline pressure boosting pumps

IH17

50 Hz

Closed impellers

IH1702...1717



A=∅125 mm DN 50

B=∅127 mm ANSI

B=∅130 mm JIS 2"

*) Dimension for IH1702

**) Dimension for IH1706...1708

***) Dimension for IH1709...1712

****) Dimension for IH1713...1717

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1702A33	300/24	945	56	2.2	220-240	50	7.8	2890
					380-415	50	4.5	2890
IH1704A33	300/51	1014	76	5.0	220-240	50	17.3	2920
					380-415	50	10.0	2920
IH1706A33	300/77	1094	107	7.5	380-415	50	14.3	2950
IH1708A52	300/103	1286	123	9.0	380-415	50	16.7	2955
IH1710A52	300/130	1294	146	11.0	380-415	50	20.1	2960
IH1712A72	300/157	1486	155	13.0	380-415	50	24.2	2960
IH1714A72	300/186	1840	190	18.5	400	50	32	2955
IH1717A86	300/227	1984	200					

Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

The pumps of the IH series are suitable, for example, for supplying coolant to internally cooled tools.

For further information, please refer to the technical information for medium-pressure pumps.

Applications

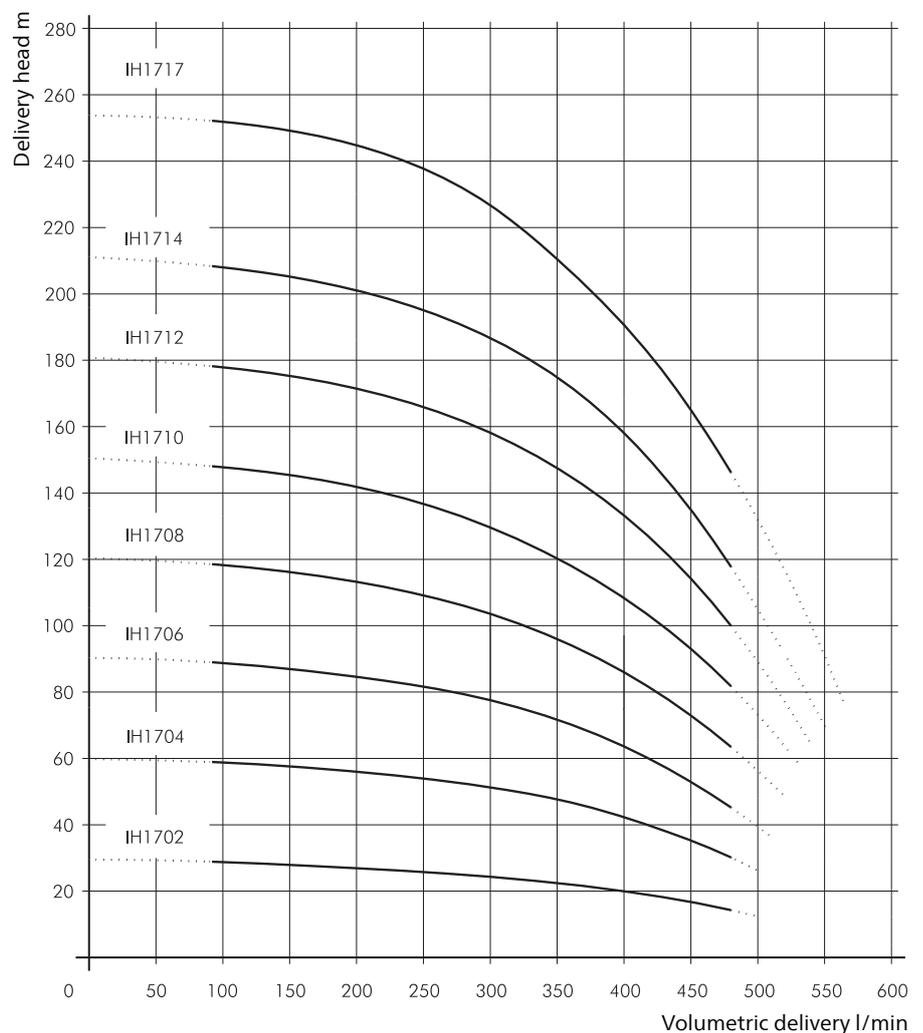
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...25 mm²/s (25 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1702	63 dBA
IH1704	71 dBA
IH1706...IH1712	74 dBA
IH1714...IH1717	78 dBA



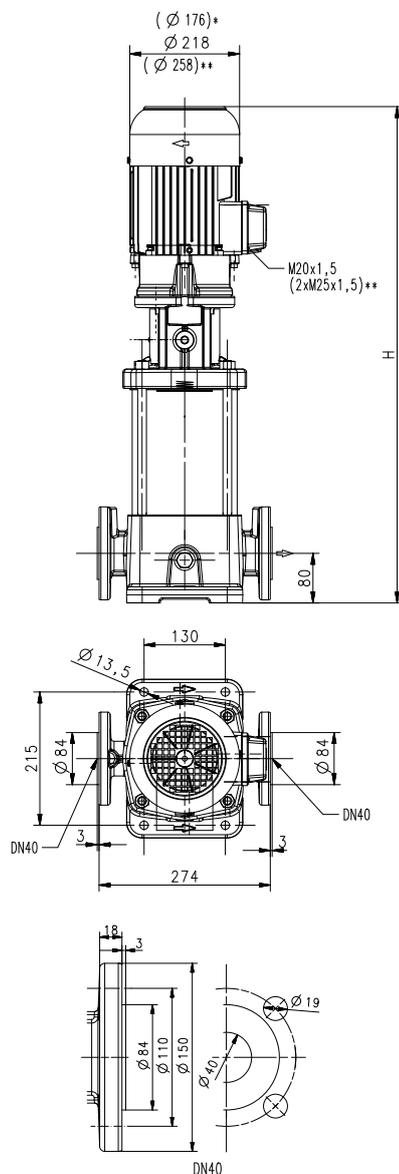
Inline pressure boosting pumps

IH11

Closed impellers



IH1102...1114



*) Dimension for IH1102...1104

**) Dimension for IH1112...1114

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1102B33	150/30	887	52	1.49	460	60	2.7	3500
IH1104B33	150/59	945	58	2.94	460	60	5.1	3480
IH1106B33	150/90	984	72	4.55	460	60	7.9	3520
IH1109B33	150/138	1014	78	6.3	460	60	10.4	3510
IH1112B52	150/180	1286	114	8.6	460	60	13.7	3550
IH1114B52	150/212	1286	121	10.3	460	60	15.8	3550



Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

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Applications

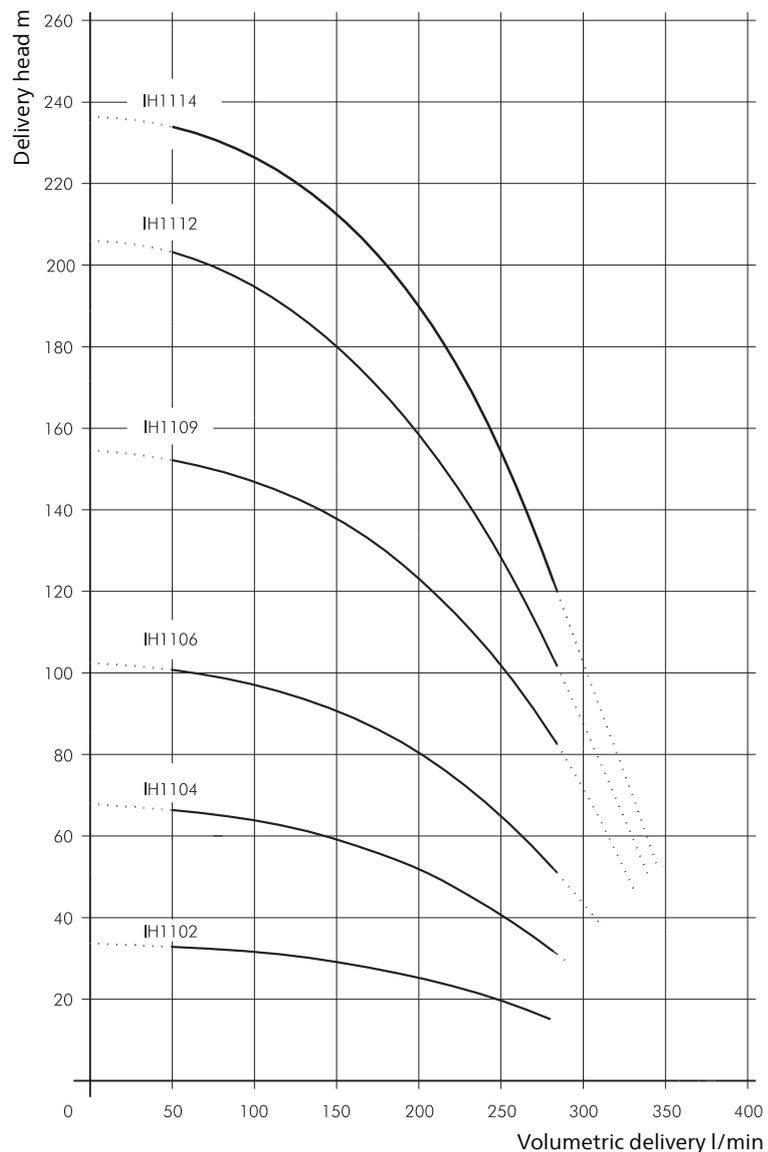
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...25 mm²/s (25 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1102...IH1104	66 dBA
IH1106...IH1109	74 dBA
IH1112...IH1114	77 dBA



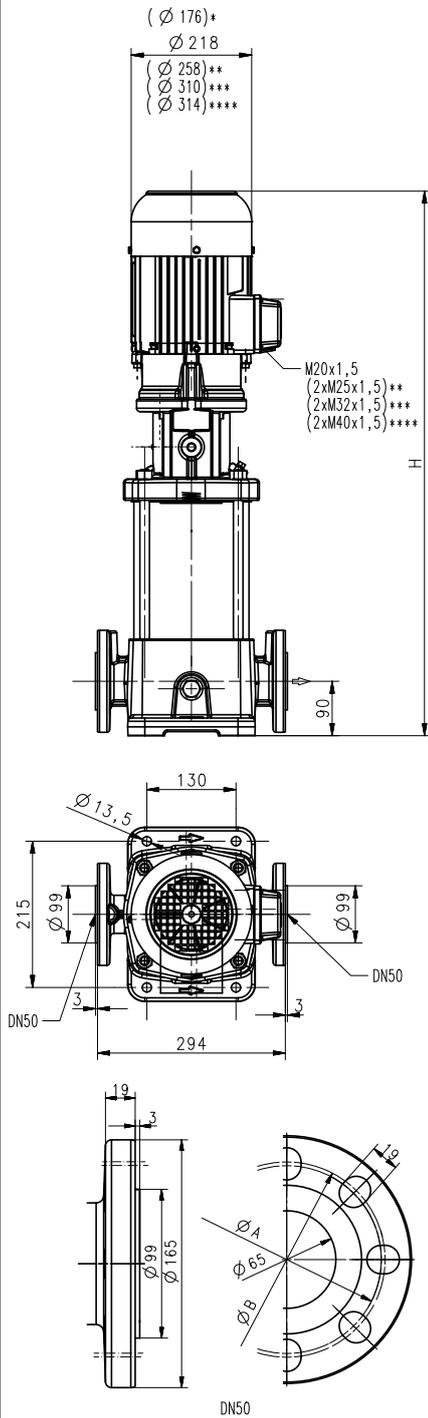
Inline pressure boosting pumps

IH14

Closed impellers

60 Hz

IH1402...1412



A=Ø125 mm DN 50

B=Ø127 mm ANSI

B=Ø130 mm JIS 2"

*) Dimension for IH1402

**) Dimension for IH1406

***) Dimension for IH1408...1410

****) Dimension for IH1412

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1402B33	250/38	945	56	2.94	460	60	5.1	3480
IH1403B33	250/58	984	71	4.55	460	60	7.9	3520
IH1404B33	250/77	1014	76	6.3	460	60	10.4	3510
IH1406B33	250/111	1094	107	8.6	460	60	13.7	3550
IH1408B52	250/147	1294	145	12.6	460	60	19.5	3560
IH1410B52	250/184	1294	146	15.0	460	60	23.6	3560
IH1412B72	250/222	1771	174	17.3	460	60	27	3555

Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

The pumps of the IH series are suitable, for example, for supplying coolant to internally cooled tools.

For further information, please refer to the technical information for medium-pressure pumps.

Applications

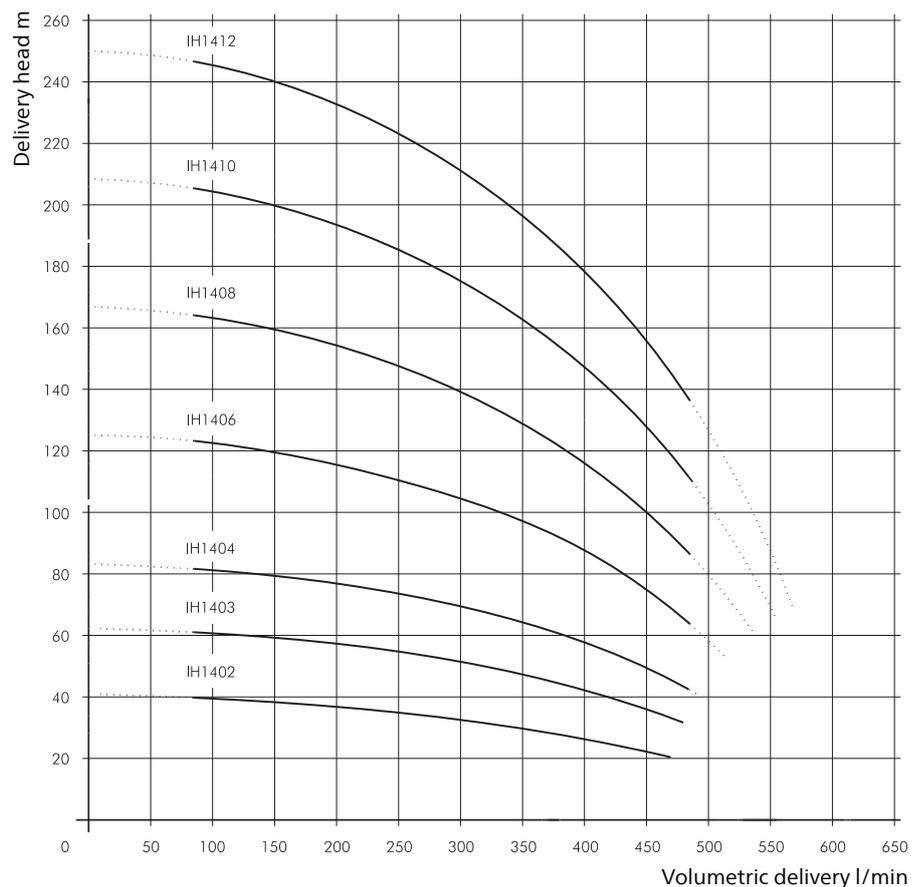
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...25 mm²/s (25 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1402	66 dBA
IH1403...IH1404	74 dBA
IH1406	77 dBA
IH1408...IH1410	79 dBA
IH1412	81 dBA



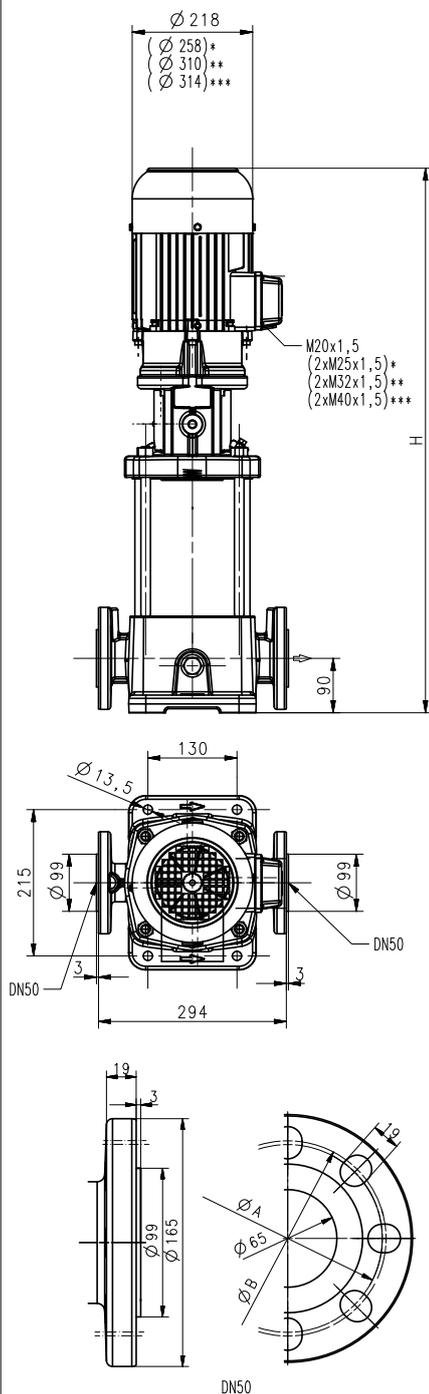
Inline pressure boosting pumps

IH17

Closed impellers



IH1702...1711



A=Ø125 mm DN 50
 B=Ø127 mm ANSI
 B=Ø130 mm JIS 2"

*) Dimension for IH1705
 **) Dimension for IH1706...1708
 ***) Dimension for IH1709...1711

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Weight kg	Power kW	Voltage 3~ V	Fre- quen- cy Hz	Current A	Speed 1/min
IH1702B33	300/37	984	68	3.8	460	60	6.4	3520
IH1703B33	300/58	1014	75	5.75	460	60	9.5	3520
IH1705B33	300/99	1094	112	10.3	460	60	15.8	3550
IH1706B33	300/118	1100	135	12.6	460	60	19.5	3560
IH1708B52	300/160	1294	145	15.0	460	60	23.6	3560
IH1709B52	300/180	1599	165	17.3	460	60	27	3555
IH1710B52	300/200	1649	181	21.3	460	60	32	3555
IH1711B72	300/219	1840	189					

Inline pressure boosting pumps

are **multi-stage** centrifugal pumps with suction and discharge ports arranged on the same axis (inline). They operate with **closed impellers**, achieving **optimal hydraulic performance** with low motor power. Inline pumps of this design are not self-priming.

Having **opposing suction and discharge ports**, the pumps can be installed in horizontal pipelines or connected directly to the tank.

The pumps of the IH series are suitable, for example, for supplying coolant to internally cooled tools.

For further information, please refer to the technical information for medium-pressure pumps.

Applications

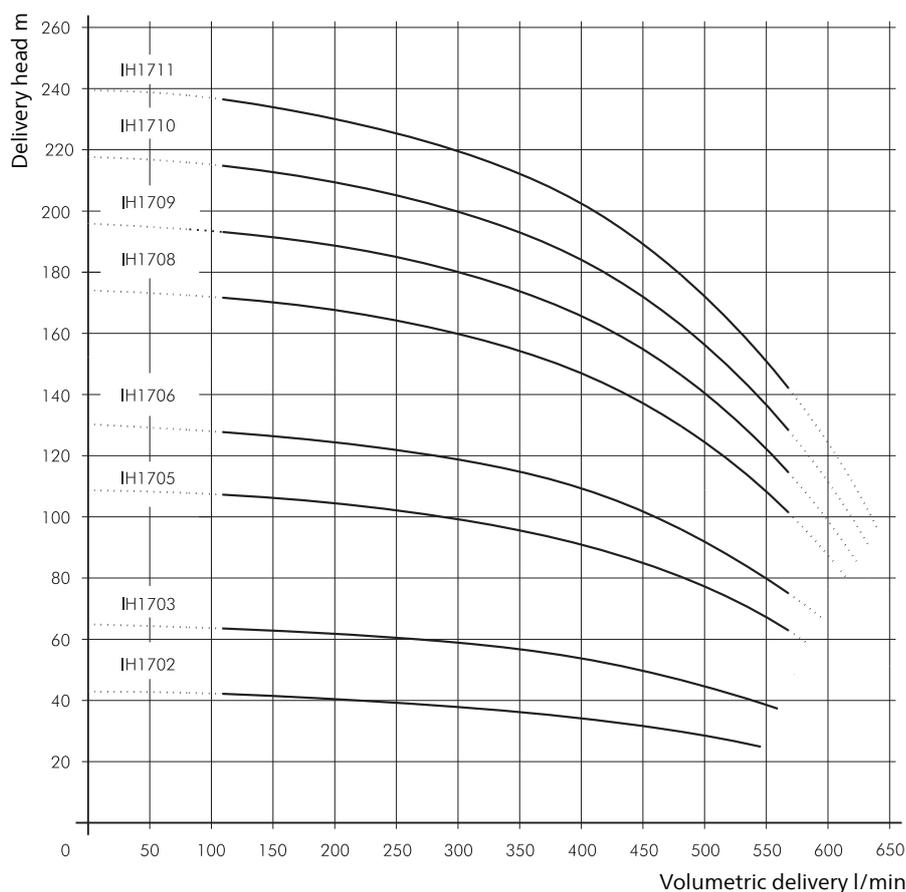
- Types of fluid
 - Industrial water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - ...20 mm²/s (20 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

Pump body	cast iron
Connection cover	cast iron
Casing cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Connection cover	CrNi-steel
Casing cover	CrNi-steel

Noise level

IH1702...IH1703	74 dBA
IH1705	77 dBA
IH1706...IH1708	79 dBA
IH1709...IH1711	81 dBA



Inline Pumps IH11...17

BRINKMANN PUMPS IH11, IH14 and IH17 inline series are vertical, multi-stage centrifugal pumps with opposing suction and discharge connections. As gravity fed pumps, they can be installed in horizontal pipelines or directly on side of the tank.

Different materials such as cast iron or stainless steel are available for a wide range of fluids. Pressures up to 25 bar and flow rates up to 450 l/min can be achieved.



Kennlinienübersicht | Performance curve overview IH11 ... IH17

