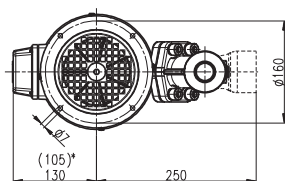


**BRINKMANN
PUMPS**

Closed impellers

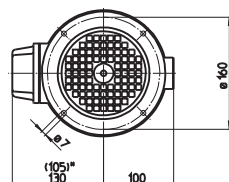
Technical drawing of a vertical pump assembly. The drawing shows a side view of the pump with a motor and a vertical shaft. Key dimensions and labels include:

- Top horizontal dimension: 169
- Motor base diameter: $\phi 176$
- Motor base outer diameter: $\phi 138^*$
- Motor base mounting holes: M20x1,5
- Leakage port: Leckage $\phi 7$
- Flange connection: G 1 and G 1/4
- Flange thickness: 50
- Flange to pump body distance: 120
- Bottom flange: $\phi 180$
- Bottom flange mounting holes: $\phi 139$



Technical drawing of the motor assembly showing dimensions and labels:

- Top flange dimensions: $(\phi 38)^*$ and $\phi 176$
- Motor body dimensions: $M20 \times 1.5$ (thread), $G 1$ (port), and 32 (height)
- Leakage dimension: $\phi 7$



Type	Vol. del. at manom. del. head l/min /m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH203A190	20/15	291	190	14.9	0.48	220-240 380-415	50	2.06 1.19	2820 2820
(S)TH204A190	20/20			15.0					
(S)TH205A190	20/25			15.1					
(S)TH206A190	20/30			15.2					
(S)TH207A290	20/35		290	15.7					
(S)TH208A290	20/40			15.8					
(S)TH209A290	20/45			15.9					
(S)TH210A290	20/50			16.0					
(S)TH211A290	20/56	332	290	17.4	0.63	220-240 380-415	50	2.70 1.56	2850 2850
(S)TH212A390	20/60		390	17.9					
(S)TH213A390	20/68	332	390	20.0	0.75	220-240 380-415	50	3.24 1.87	2850 2850
(S)TH214A390	20/75			20.1					
(S)TH215A390	20/82	332	390	21.4	0.92	220-240 380-415	50	3.8 2.2	2840 2840
(S)TH216A390	20/88			21.5					
(S)TH217A490	20/93		490	22.1					
(S)TH218A490	20/98			22.2					
(S)TH219A490	20/102	359	490	24.1	1.1	220-240 380-415	50	4.33 2.50	2850 2850
(S)TH220A490	20/108			24.2					
(S)TH221A490	20/112			24.3					
(S)TH222A590	20/118		590	24.9					
(S)TH223A590	20/125	381	590	31.0	1.3	220-240 380-415	50	4.85 2.80	2900 2900
(S)TH224A590	20/130			31.2					
(S)TH225A590	20/135			31.3					
(S)TH226A590	20/142	381	590	31.5	1.5	220-240 380-415	50	5.5 3.2	2880 2880
(S)TH227A690	20/150		690	32.4					
(S)TH228A690	20/155			32.5					
(S)TH229A690	20/160	407	690	34.3	1.7	220-240 380-415	50	6.24 3.60	2890 2890
(S)TH230A690	20/166			34.4					
(S)TH231A690	20/172			34.5					
(S)TH232A790	20/178		790	36.4					
(S)TH233A790	20/182			36.5					
(S)TH234A790	20/190	439	790	41.0	1.9	220-240 380-415	50	6.84 3.95	2900 2900
(S)TH235A790	20/195			41.1					
(S)TH236A790	20/200			41.2					
(S)TH237A890	20/205	439	890	43.0	2.2	220-240 380-415	50	7.8 4.5	2890 2890
(S)TH238A890	20/210			43.1					
(S)TH239A890	20/215			43.2					
(S)TH240A890	20/220			43.3					
(S)TH241A890	20/225			43.4					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

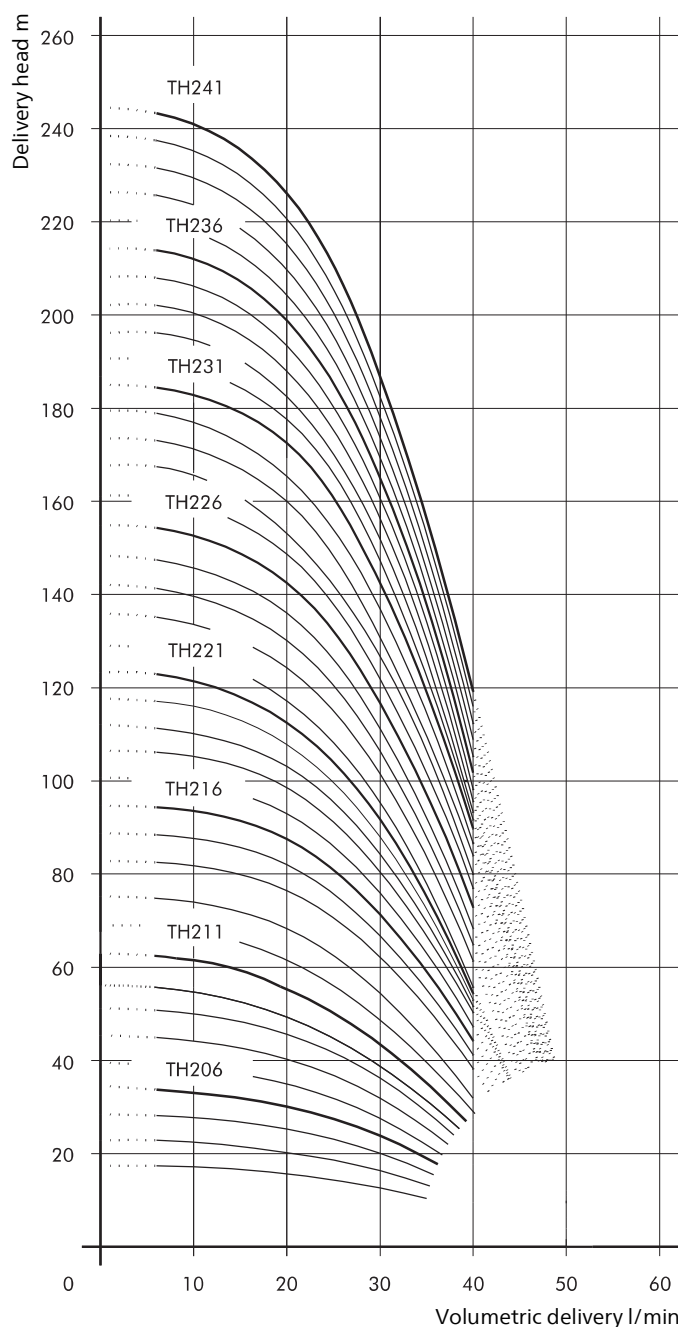
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm²/s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
	CrNi-steel
Cover	bronze
	CrNi-steel

Noise level (Motor only; + 3 dBA)
(S)TH203...(S)TH222 58 dBA
(S)TH223...(S)TH241 63 dBA

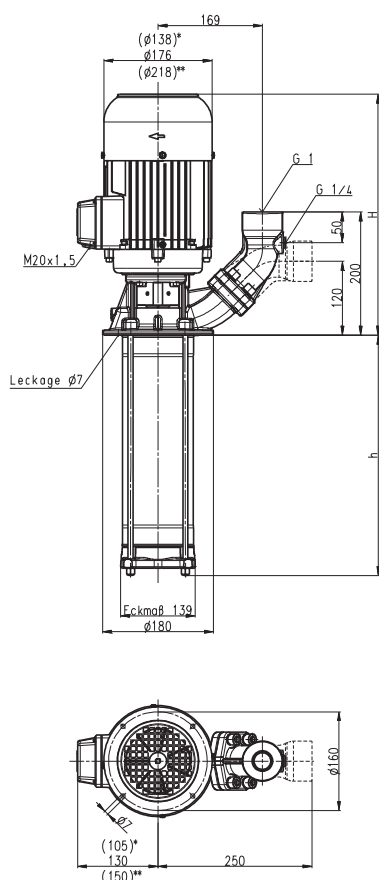


Immersion Pumps (S)TH4

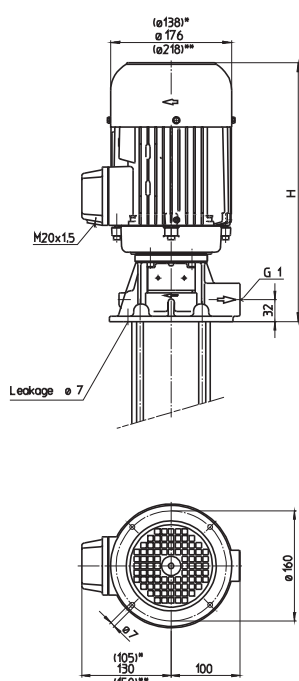
Closed impellers

50 Hz

STH403...436



TH403...436



*) Dimensions for (S)TH403...(S)TH412
**) Dimensions for (S)TH428...(S)TH436

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH403A190	40/18	291	190	14.9	0.48	220-240	50	2.06	2820
(S)TH404A190	40/25			15.0		380-415	50	1.19	2820
(S)TH405A190	40/30			15.1					
(S)TH406A190	40/36	332	190	16.5	0.63	220-240	50	2.70	2850
						380-415	50	1.56	2850
(S)TH407A290	40/42	332	290	17.9	0.75	220-240	50	3.24	2850
(S)TH408A290	40/50			18.0		380-415	50	1.87	2850
(S)TH409A290	40/56	332	290	18.5	0.85	220-240	50	3.64	2850
						380-415	50	2.10	2850
(S)TH410A290	40/62	332	290	19	0.92	220-240	50	3.8	2840
						380-415	50	2.2	2840
(S)TH411A290	40/68	359	290	20.1	1.1	220-240	50	4.33	2850
						380-415	50	2.50	2850
(S)TH412A390	40/74		390	20.6					
(S)TH413A390	40/80	381	390	27.6	1.3	220-240	50	4.85	2900
						380-415	50	2.80	2900
(S)TH414A390	40/86	381	390	28.1	1.5	220-240	50	5.5	2880
(S)TH415A390	40/95			28.2		380-415	50	3.2	2880
(S)TH416A390	40/104	407	390	30.9	1.7	220-240	50	6.24	2890
						380-415	50	3.60	2890
(S)TH417A490	40/112		490	31.4					
(S)TH418A490	40/118	439	490	35.6	1.9	220-240	50	6.84	2900
(S)TH419A490	40/125			35.9		380-415	50	3.95	2900
(S)TH420A490	40/130	439	490	36.0	2.2	220-240	50	7.8	2890
(S)TH421A490	40/136			36.1		380-415	50	4.5	2890
(S)TH422A590	40/142		590	36.6					
(S)TH423A590	40/150	439	590	37.2	2.6	220-240	50	9.30	2880
(S)TH424A590	40/156			37.3		380-415	50	5.35	2880
(S)TH425A590	40/162			37.4					
(S)TH426A590	40/168			37.5					
(S)TH427A690	40/175		690	38.0					
(S)TH428A690	40/182	432	690	50.0	3.0	220-240	50	10.7	2930
(S)TH429A690	40/190			50.2		380-415	50	6.2	2930
(S)TH430A690	40/198	432	690	50.4	3.3	220-240	50	11.6	2930
(S)TH431A690	40/208			50.6		380-415	50	6.7	2930
(S)TH432A790	40/216		790	51.4					
(S)TH433A790	40/220	432	790	52.6	4.0	220-240	50	14.50	2920
(S)TH434A790	40/230			52.7		380-415	50	8.35	2920
(S)TH435A790	40/240			52.8					
(S)TH436A790	40/248			53.0					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

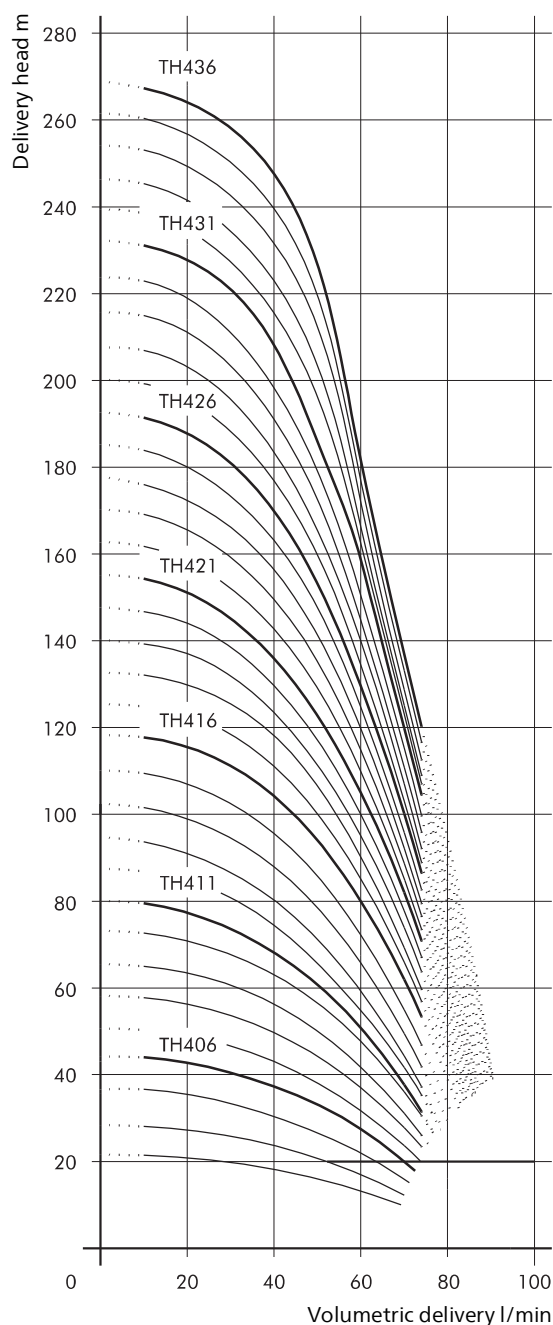
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm²/s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
	CrNi-steel
Cover	bronze
	CrNi-steel

Noise level (Motor only; + 3 dBA)
(S)TH403...(S)TH412 58 dBA
(S)TH413...(S)TH427 63 dBA
(S)TH428...(S)TH436 71 dBA



Immersion Pumps

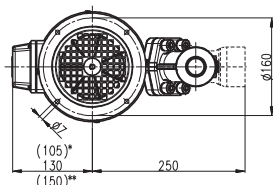
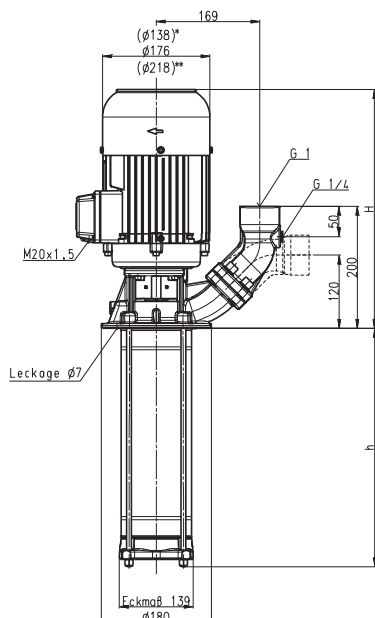
(S)TH6

Closed impellers

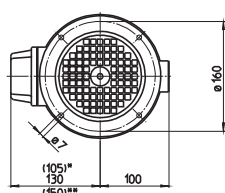
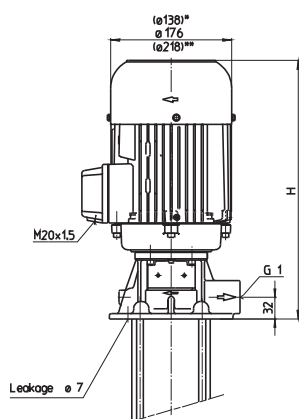


50 Hz

STH603...632



TH603...632



*) Dimensions for (S)TH603...(S)TH607
 **) Dimensions for (S)TH619...(S)TH632

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH603A190	80/18	291	190	15.3	0.48	220-240 380-415	50 50	2.06 1.19	2820 2820
(S)TH604A190	80/24	332	190	16.8	0.63	220-240 380-415	50 50	2.70 1.56	2850 2850
(S)TH605A240	80/30	332	240	17.8	0.75	220-240 380-415	50 50	3.24 1.87	2850 2850
(S)TH606A240	80/36	332	240	18	0.92	220-240 380-415	50 50	3.8 2.2	2840 2840
(S)TH607A290	80/41	359	290	19.5	1.1	220-240 380-415	50 50	4.33 2.50	2850 2850
(S)TH608A290	80/48	381	290	26.2	1.3	220-240 380-415	50 50	4.85 2.80	2900 2900
(S)TH609A340	80/56	381	340	26.8	1.5	220-240 380-415	50 50	5.5 3.2	2880 2880
(S)TH610A340	80/61			27.0					
(S)TH611A390	80/71	407	390	29.5	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
(S)TH612A390	80/76	439	390	34	1.9	220-240 380-415	50 50	6.84 3.95	2900 2900
(S)TH613A490	80/82	439	490	35.0	2.2	220-240 380-415	50 50	7.8 4.5	2890 2890
(S)TH614A490	80/90			35.2					
(S)TH615A490	80/96			35.5					
(S)TH616A490	80/101	439	490	36.3	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
(S)TH617A590	80/108		590	36.8					
(S)TH618A590	80/114			37.0					
(S)TH619A590	80/120	432	590	48.3	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
(S)TH620A590	80/128			48.5					
(S)TH621A690	80/136		690	49.5					
(S)TH622A690	80/142	432	690	50.1	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
(S)TH623A690	80/150			50.3					
(S)TH624A690	80/155			50.5					
(S)TH625A790	80/160		790	51.2					
(S)TH626A790	80/166			51.4					
(S)TH627A790	80/172	462	790	58.8	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
(S)TH628A790	80/180			59.0					
(S)TH629A890	80/186		890	60.0					
(S)TH630A890	80/192			60.2					
(S)TH631A890	80/200			60.4					
(S)TH632A890	80/206			60.6					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

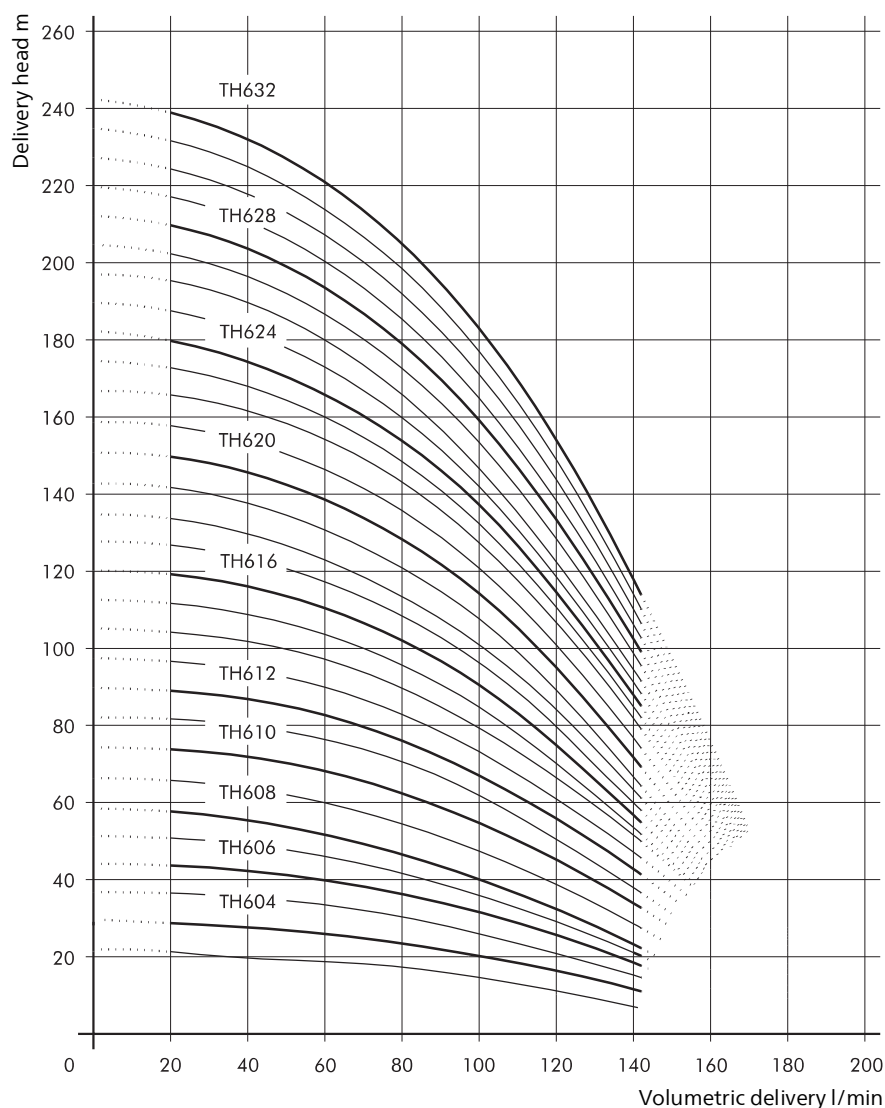
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
	CrNi-steel
Cover	bronze
	CrNi-steel

Noise level (Motor only; + 3 dBA)

(S)TH603...(S)TH607	58 dBA
(S)TH608...(S)TH618	63 dBA
(S)TH619...(S)TH632	71 dBA



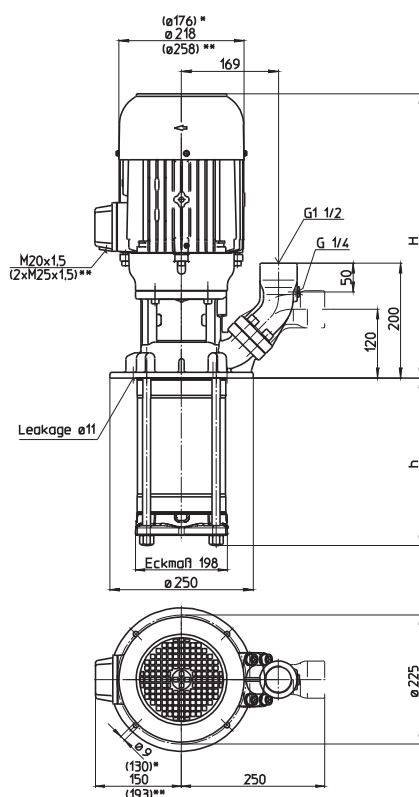
Immersion Pumps

(S)TH11

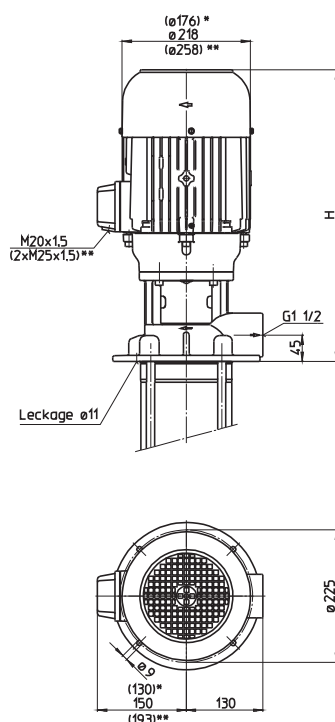
Closed impellers

50 Hz

STH1102...1121



TH1102...1121



*) Dimensions for (S)TH1102...1106

**) Dimensions for (S)TH1115...1121

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH1102A180	150/19	433	182	34	1.3	220-240 380-415	50 50	4.85 2.80	2900 2900
(S)TH1103A180	150/29	433	182	35	1.5	220-240 380-415	50 50	5.5 3.2	2880 2880
(S)TH1104A280	150/38	459	278	39	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
(S)TH1105A280	150/48	492	278	43	1.9	220-240 380-415	50 50	6.84 3.95	2900 2900
(S)TH1106A280	150/58	492	278	45	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
(S)TH1107A310	150/67	531	310	55	3.0	220-240 380-415	50 50	10.7 6.2	2930 2930
(S)TH1108A380	150/78	531	374	58	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
(S)TH1109A380	150/88	531	374	59	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
(S)TH1110A470	150/98		470	60	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
(S)TH1111A470	150/106	561	470	67					
(S)TH1112A470	150/118			68					
(S)TH1113A500	150/128	561	502	69	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
(S)TH1114A570	150/138		566	71					
(S)TH1115A570	150/149	640	566	101	7.5	380-415	50	14.3	2950
(S)TH1116A660	150/158		662	103					
(S)TH1117A660	150/168			104					
(S)TH1118A660	150/178			105					
(S)TH1119A760	150/188	640	758	110					
(S)TH1120A760	150/198			112					
(S)TH1121A760	150/206			115					
					9.0	380-415	50	16.7	2955

Immersion Pumps

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Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

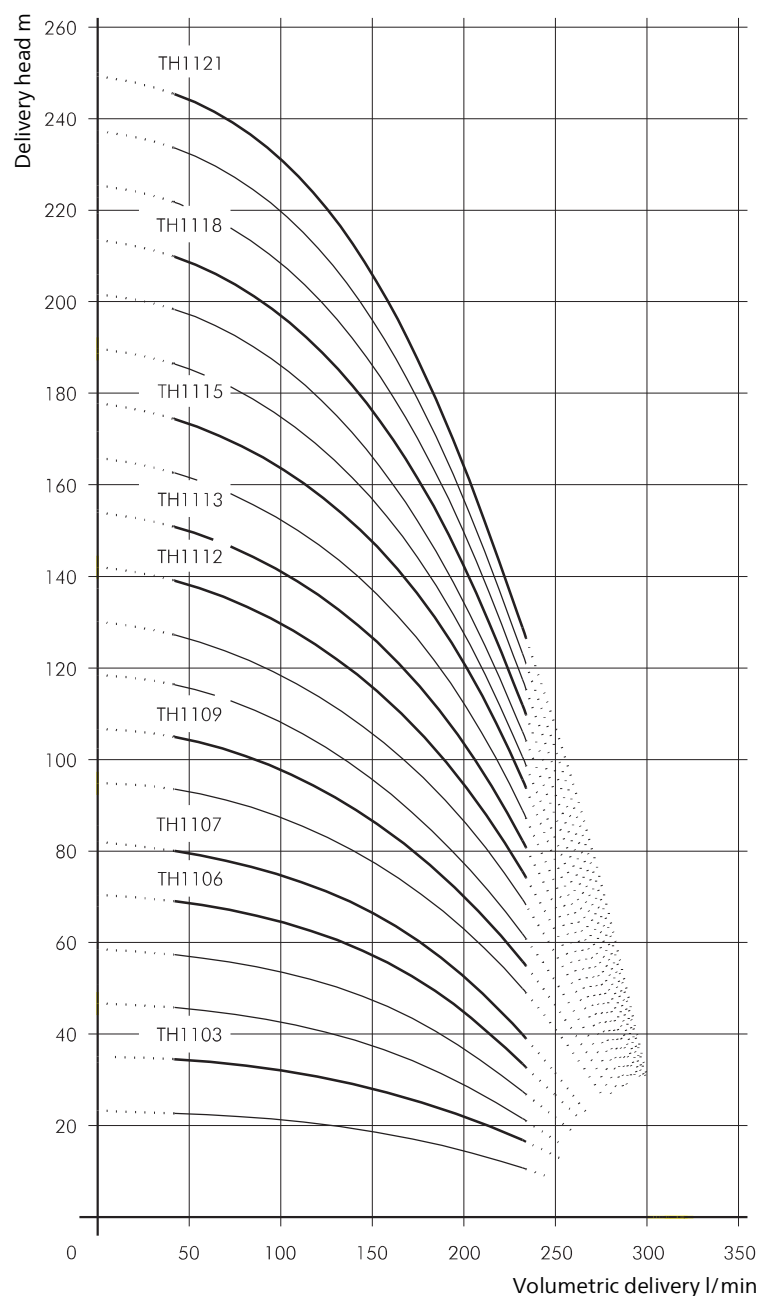
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

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

Noise level (Motor only; + 3 dBA)

(S)TH1102...(S)TH1106	63 dBA
(S)TH1107...(S)TH1114	71 dBA
(S)TH1115...(S)TH1121	74 dBA



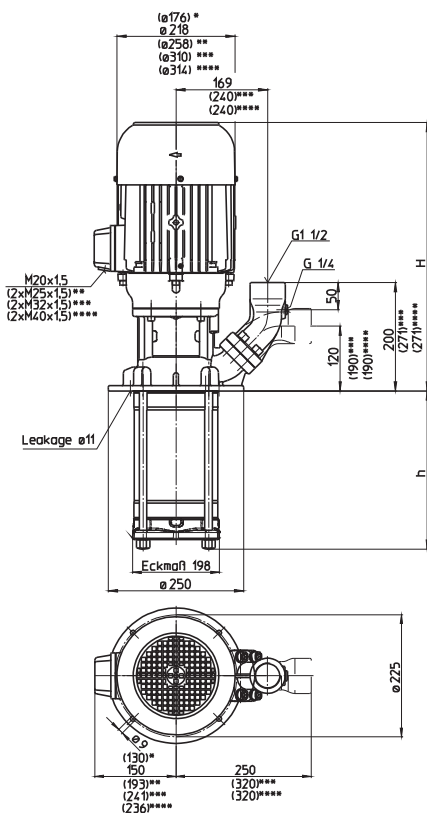
(S)TH14

Closed impellers

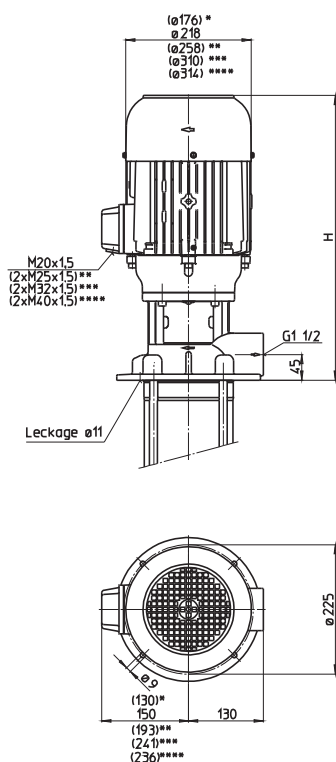


50 Hz

STH1402...1417



TH1402...1417



- *) Dimension for (S)TH1402...1403
- **) Dimension for (S)TH1408...1411
- ***) Dimension for (S)TH1412...1416
- ****) Dimension for (S)TH1417

Type	Vol. del. at manom. del. head l/min /m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH1402A180	250/21	459	182	37	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
(S)TH1403A280	250/38	492	278	43	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
(S)TH1404A280	250/48	531	278	55	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
(S)TH1405A380	250/60	531	374	57	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
(S)TH1406A380	250/74	561	374	64	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
(S)TH1407A470	250/85	561	470	66	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
(S)TH1408A470	250/98	640	470	98	7.5	380-415	50	14.3	2950
(S)TH1409A570	250/110		566	102					
(S)TH1410A570	250/120	640	566	110	9.0	380-415	50	16.7	2955
(S)TH1411A660	250/134		662	115					
(S)TH1412A660	250/144	647	662	131	11.0	380-415	50	20.1	2960
(S)TH1413A760	250/159		758	135					
(S)TH1414A760	250/170	647	758	139	13.0	380-415	50	24.2	2960
(S)TH1415A900	250/180		902	143					
(S)TH1416A900	250/190			145					
(S)TH1417A900	250/200	952	902	161	15.0	400	50	27	2960

Immersion Pumps

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Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

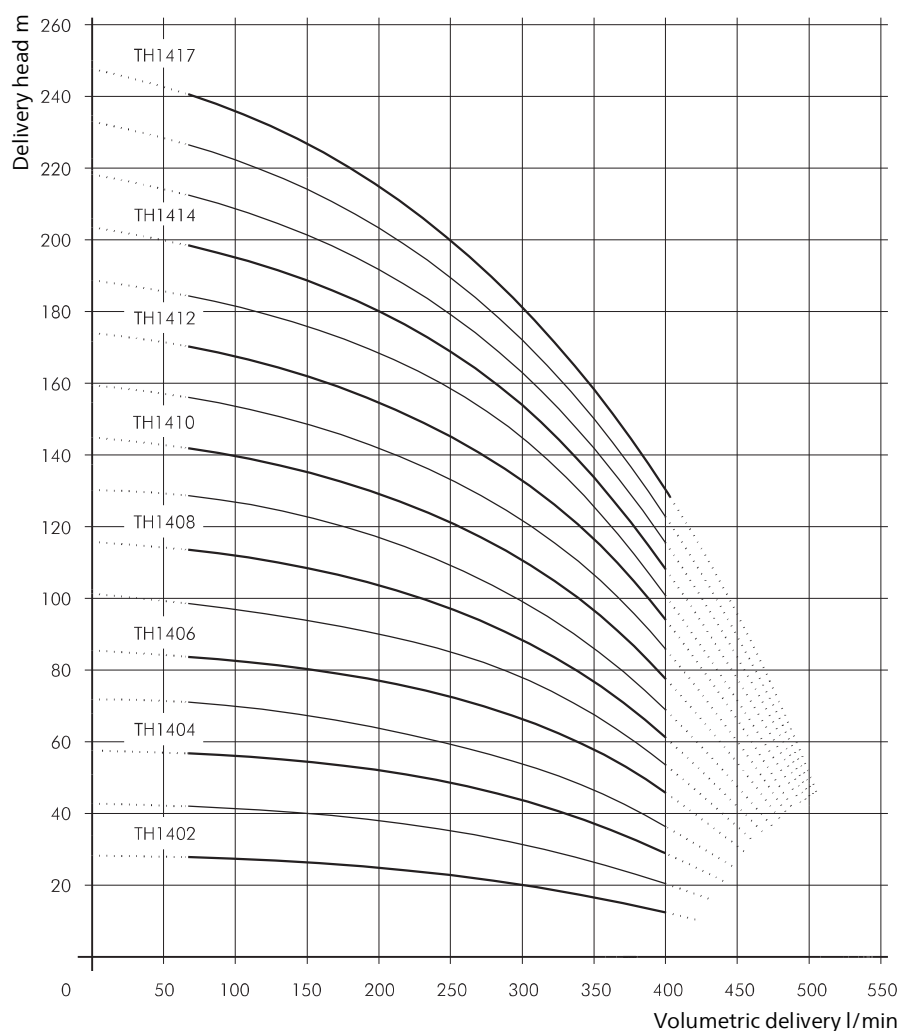
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

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

Noise level (Motor only; + 3 dBA)

(S)TH1402...(S)TH1403	63 dBA
(S)TH1404...(S)TH1407	71 dBA
(S)TH1408...(S)TH1416	74 dBA
(S)TH1417	78 dBA

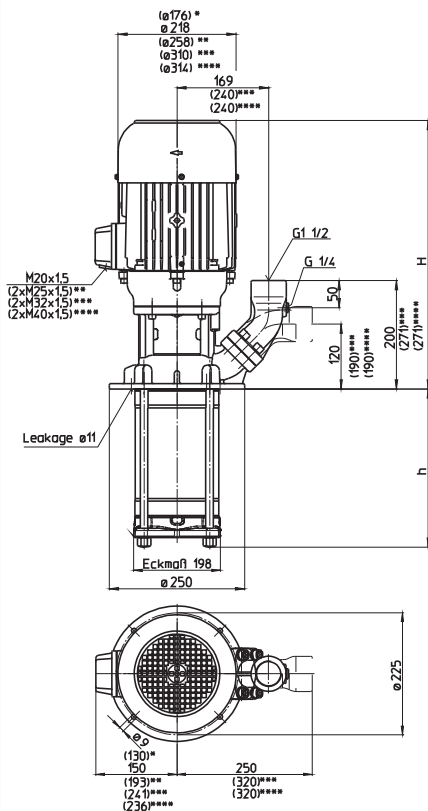


Immersion Pumps (S)TH17

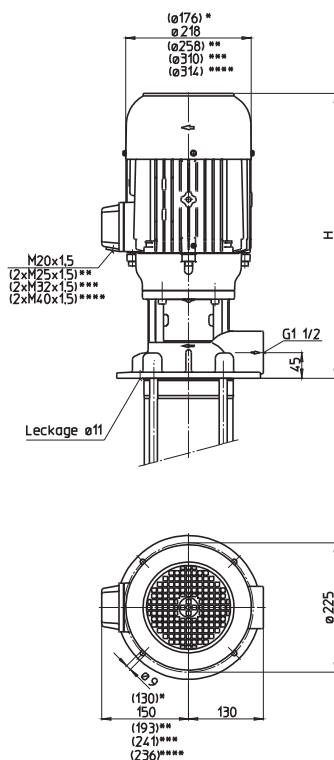
Closed impellers

50 Hz

STH1702...1717



TH1702...1717



- *) Dimension for (S)TH1702
- **) Dimension for (S)TH1706...1708
- ***) Dimension for (S)TH1709...1712
- ****) Dimension for (S)TH1713...1717

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH1702A180	300/24	492	182	42	2.2	220-240 380-415	50 50	7.8 4.5	2890 2890
(S)TH1703A280	300/37	531	278	55	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
(S)TH1704A280	300/51	561	278	61	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
(S)TH1705A380	300/66	561	374	64	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
(S)TH1706A380	300/77	640	374	87	7.5	380-415	50	14.3	2950
(S)TH1707A470	300/90		470	97					
(S)TH1708A470	300/103	640	470	116	9.0	380-415	50	16.7	2955
(S)TH1709A570	300/116	647	566	124	11.0	380-415	50	20.1	2960
(S)TH1710A570	300/130			126					
(S)TH1711A660	300/143	647	662	128					
(S)TH1712A660	300/157			129					
(S)TH1713A760	300/172	952	758	150	15.0	400	50	27	2960
(S)TH1714A760	300/186	1002	758	168	18.5	400	50	32	2955
(S)TH1715A900	300/200		902	170					
(S)TH1716A900	300/212			172					
(S)TH1717A900	300/227			175					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

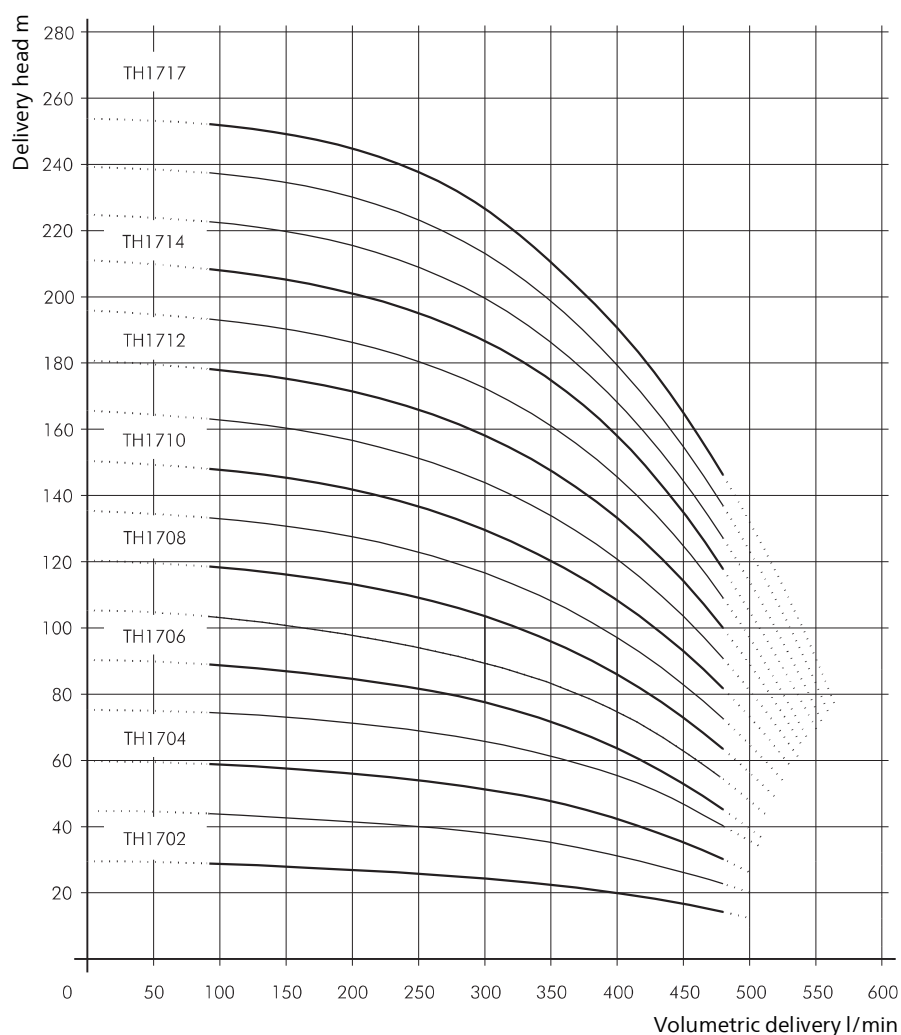
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

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

Noise level (Motor only; + 3 dBA)

(S)TH1702	63 dBA
(S)TH1703...(S)TH1705	71 dBA
(S)TH1706...(S)TH1712	74 dBA
(S)TH1713...(S)TH1717	78 dBA

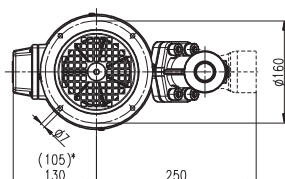
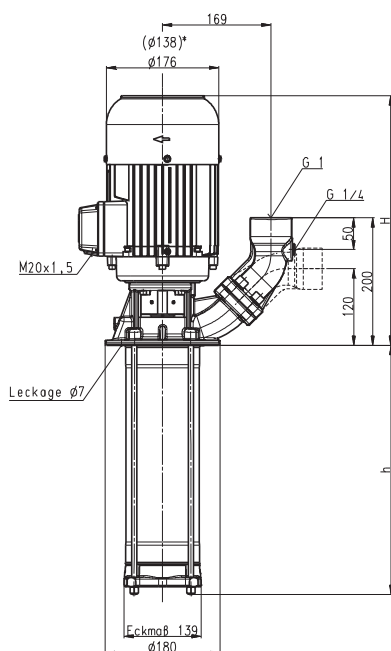


Immersion Pumps (S)TH2

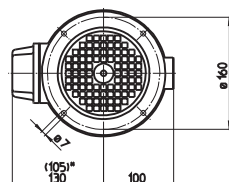
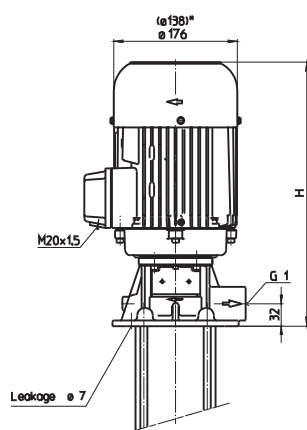
Closed impellers

60 Hz

STH203...231



TH203...231



*) Dimensions for (S)TH203...(S)TH215

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH203B190	20/25	291	190	14.9	0.55	460	60	1.14	3405
(S)TH204B190	20/30			15.0					
(S)TH205B190	20/40			15.1					
(S)TH206B190	20/50			15.2					
(S)TH207B290	20/57	332	290	18.6	0.725	460	60	1.46	3425
(S)TH208B290	20/64			18.7					
(S)TH209B290	20/74	332	290	19.2	0.86	460	60	1.85	3440
(S)TH210B290	20/81	332	290	20.1	0.98	460	60	2	3450
(S)TH211B290	20/90	332	290	20.3	1.06	460	60	2.1	3440
(S)TH212B390	20/98		390	20.4					
(S)TH213B390	20/106			20.5					
(S)TH214B390	20/113	359	390	21.7	1.27	460	60	2.4	3440
(S)TH215B390	20/119			21.8					
(S)TH216B390	20/127	381	390	28	1.49	460	60	2.7	3500
(S)TH217B490	20/136	381	490	30.2	1.75	460	60	3.1	3470
(S)TH218B490	20/146			30.3					
(S)TH219B490	20/156			30.4					
(S)TH220B490	20/164	407	490	32.5	1.95	460	60	3.5	3480
(S)TH221B490	20/172			32.6					
(S)TH222B590	20/182	439	590	37.4	2.18	460	60	3.9	3500
(S)TH223B590	20/191			37.5					
(S)TH224B590	20/200	439	590	38.2	2.55	460	60	4.4	3480
(S)TH225B590	20/208			38.4					
(S)TH226B590	20/216			38.5					
(S)TH227B690	20/224		690	39.1					
(S)TH228B690	20/231	439	690	40.2	2.94	460	60	5.1	3480
(S)TH229B690	20/238			40.3					
(S)TH230B690	20/245			40.4					
(S)TH231B690	20/252			40.5					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

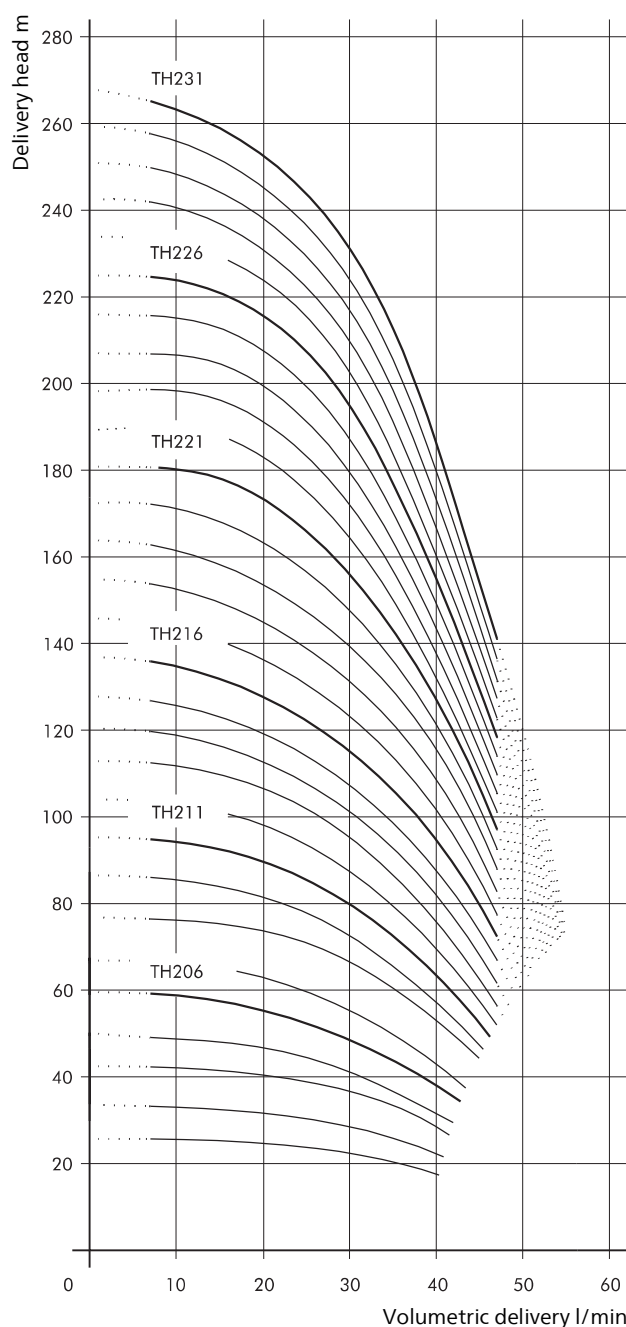
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm²/s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze
	CrNi-steel

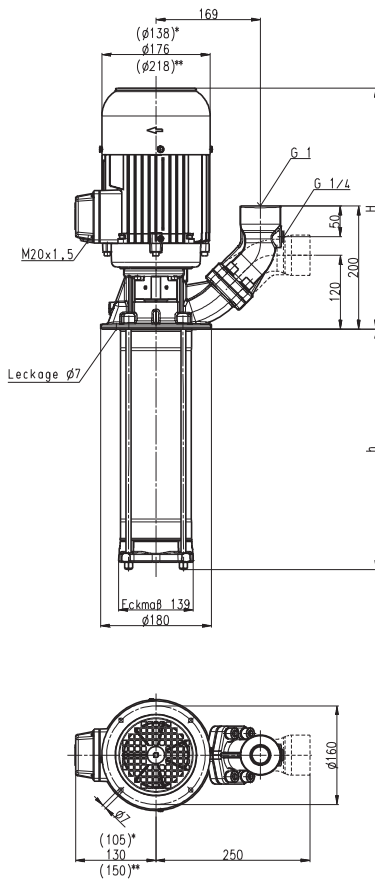
Noise level (Motor only; + 3 dBA)
(S)TH203...(S)TH215 61 dBA
(S)TH216...(S)TH231 66 dBA



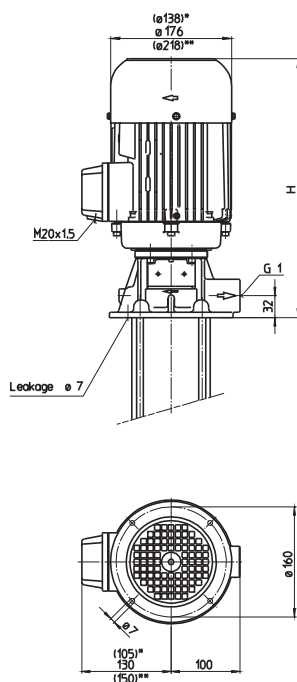
Immersion Pumps (S)TH4

Closed impellers

STH403...424



TH403...424



*) Dimensions for (S)TH403...(S)TH408
**) Dimensions for (S)TH419...(S)TH424

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH403B190	40/29	291	190	15.4	0.55	460	60	1.14	3405
(S)TH404B190	40/39	332	190	16.7	0.725	460	60	1.46	3425
(S)TH405B190	40/49	332	190	17.2	0.86	460	60	1.85	3440
(S)TH406B190	40/58	332	190	18.2	1.06	460	60	2.1	3440
(S)TH407B290	40/68	359	290	19.4	1.27	460	60	2.4	3440
(S)TH408B290	40/78			19.5					
(S)TH409B290	40/88	381	290	27	1.49	460	60	2.7	3500
(S)TH410B290	40/100	381	290	27.2	1.75	460	60	3.1	3470
(S)TH411B290	40/110	407	290	29.4	1.95	460	60	3.5	3480
(S)TH412B390	40/119		390	30.0					
(S)TH413B390	40/129	439	390	35	2.18	460	60	3.9	3500
(S)TH414B390	40/139	439	390	35.5	2.55	460	60	4.4	3480
(S)TH415B390	40/150			35.6					
(S)TH416B390	40/159	439	390	36.0	2.94	460	60	5.1	3480
(S)TH417B490	40/170		490	36.1					
(S)TH418B490	40/179			36.2					
(S)TH419B490	40/192	432	490	47.9	3.8	460	60	6.4	3520
(S)TH420B490	40/202			48.0					
(S)TH421B490	40/214			48.1					
(S)TH422B590	40/224		590	48.3					
(S)TH423B590	40/233	432	590	49.5	4.55	460	60	7.9	3520
(S)TH424B590	40/242			49.7					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

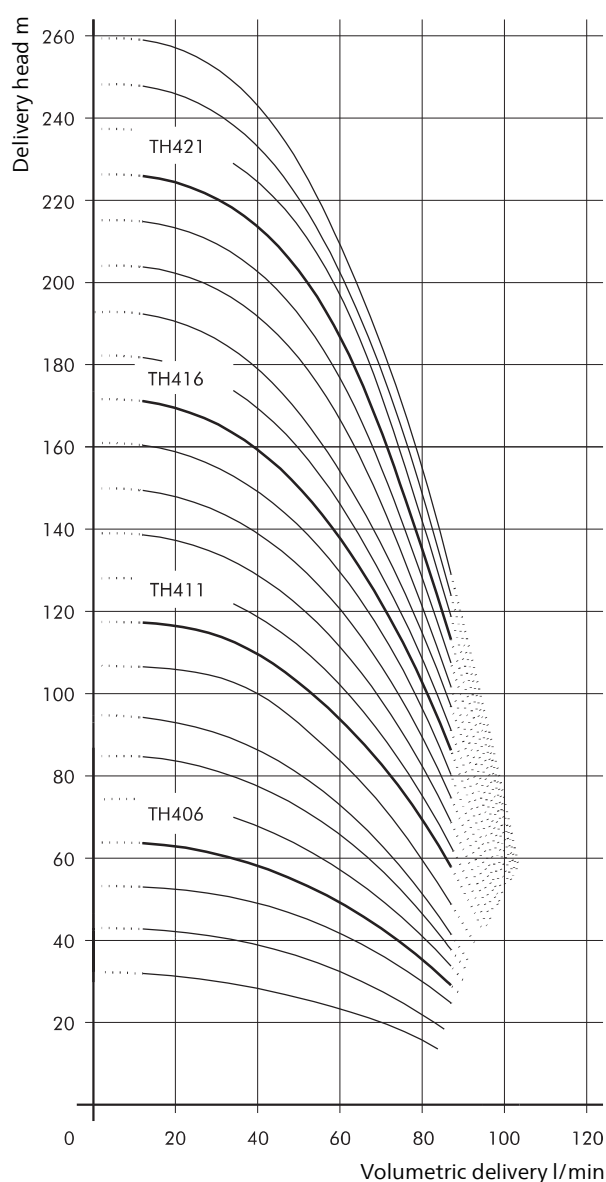
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
	CrNi-steel
Cover	bronze
	CrNi-steel

Noise level (Motor only; + 3 dBA)

(S)TH403...(S)TH408	61 dBA
(S)TH409...(S)TH418	66 dBA
(S)TH419...(S)TH424	75 dBA



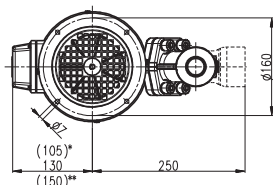
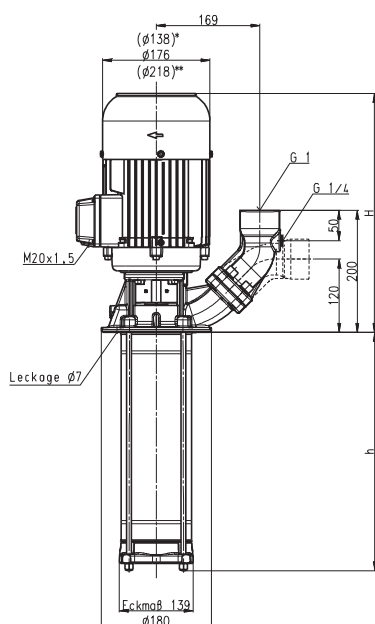
Immersion Pumps (S)TH6

Closed impellers

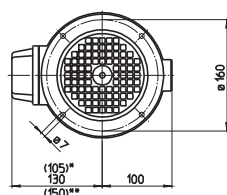
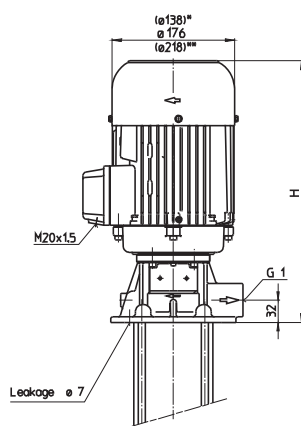


60 Hz

STH603...624



TH603...624



*) Dimensions for (S)TH603...(S)TH605
**) Dimensions for (S)TH612...(S)TH624

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH603B190	80/28	332	190	16.8	0.86	460	60	1.85	3440
(S)TH604B190	80/38	332	190	17.5	1.06	460	60	2.1	3440
(S)TH605B240	80/48	359	240	18.5	1.27	460	60	2.4	3440
(S)TH606B240	80/58	381	240	25	1.75	460	60	3.1	3470
(S)TH607B290	80/68	407	290	29	1.95	460	60	3.5	3480
(S)TH608B290	80/78	439	290	32	2.18	460	60	3.9	3500
(S)TH609B340	80/88	439	340	35	2.55	460	60	4.4	3480
(S)TH610B340	80/98	439	340	36.0	2.94	460	60	5.1	3480
(S)TH611B390	80/108		390	36.6					
(S)TH612B390	80/118	432	390	48	3.45	460	60	6	3520
(S)TH613B490	80/128	432	490	49.9	3.8	460	60	6.4	3520
(S)TH614B490	80/139			50.1					
(S)TH615B490	80/149	432	490	51.8	4.55	460	60	7.9	3520
(S)TH616B490	80/159			52.3					
(S)TH617B590	80/168		590	52.8					
(S)TH618B590	80/178	462	590	56.8	5.75	460	60	9.5	3520
(S)TH619B590	80/188			56.9					
(S)TH620B590	80/198			57.0					
(S)TH621B690	80/206		690	57.2					
(S)TH622B690	80/214			57.3					
(S)TH623B690	80/222	462	690	61.0	6.3	460	60	10.4	3510
(S)TH624B690	80/232			61.2					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

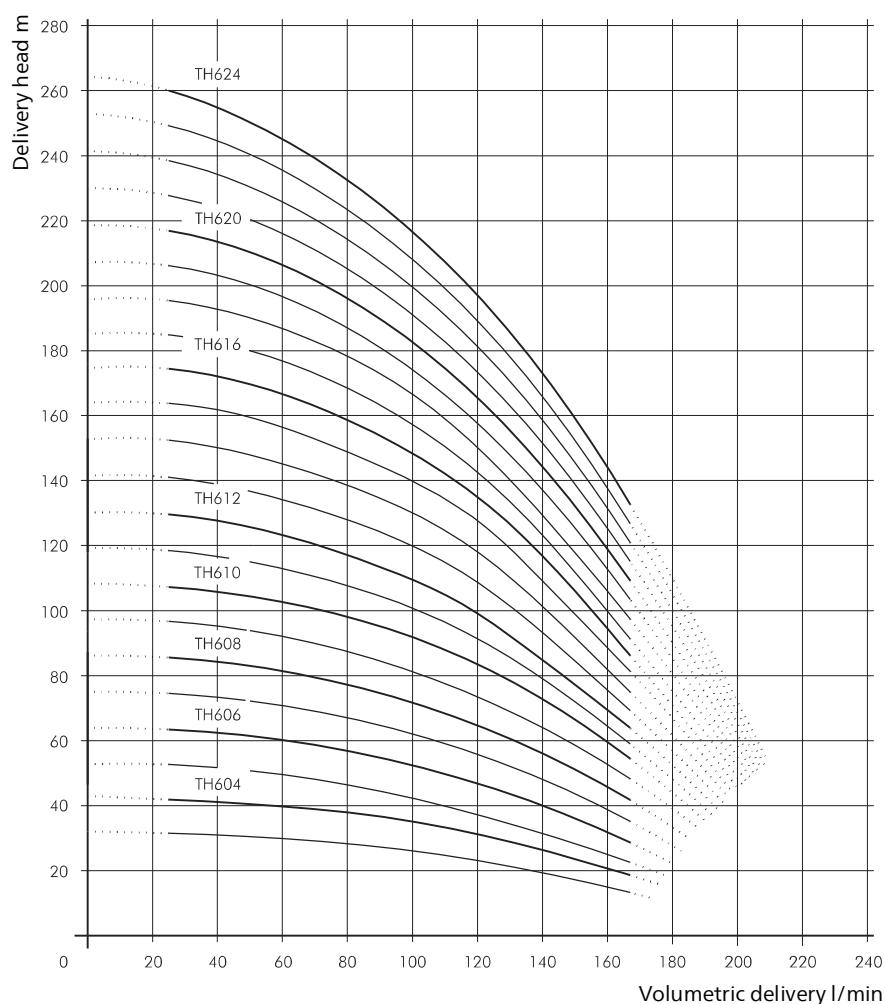
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze
	CrNi-steel

Noise level (Motor only; + 3 dBA)

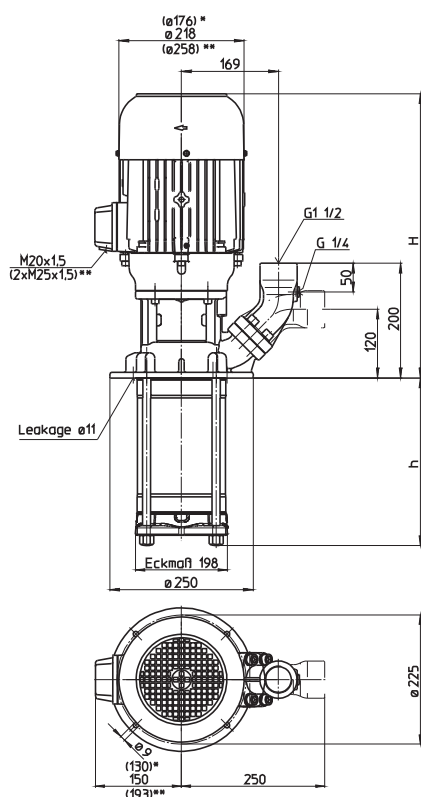
(S)TH603...(S)TH605	61 dBA
(S)TH606...(S)TH611	66 dBA
(S)TH612...(S)TH624	75 dBA



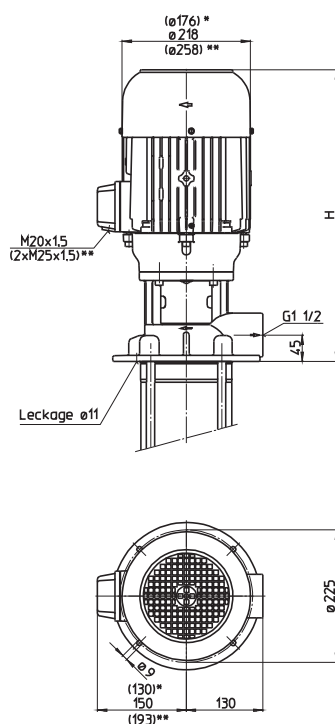
**BRINKMANN
PUMPS**

Closed impellers

STH1102...1115



TH1102...1115



*) Dimensions for (S)TH1102...1104

***) Dimensions for (S)TH1110...1115

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH1102B180	150/30	433	182	34	1.49	460	60	2.7	3500
(S)TH1103B180	150/45	492	182	43	2.18	460	60	3.9	3500
(S)TH1104B280	150/59	492	278	44	2.94	460	60	5.1	3480
(S)TH1105B280	150/77	531	278	57	3.8	460	60	6.4	3520
(S)TH1106B280	150/90	531	278	58	4.55	460	60	7.9	3520
(S)TH1107B310	150/106	561	310	62	5.75	460	60	9.5	3520
(S)TH1108B380	150/121		374	64					
(S)TH1109B380	150/138	561	374	65	6.3	460	60	10.4	3510
(S)TH1110B470	150/152	640	470	97	8.6	460	60	13.7	3550
(S)TH1111B470	150/166			98					
(S)TH1112B470	150/180			99					
(S)TH1113B500	150/198	640	502	108	10.3	460	60	15.8	3550
(S)TH1114B570	150/212		566	109					
(S)TH1115B570	150/230			110					

Immersion Pumps

Series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

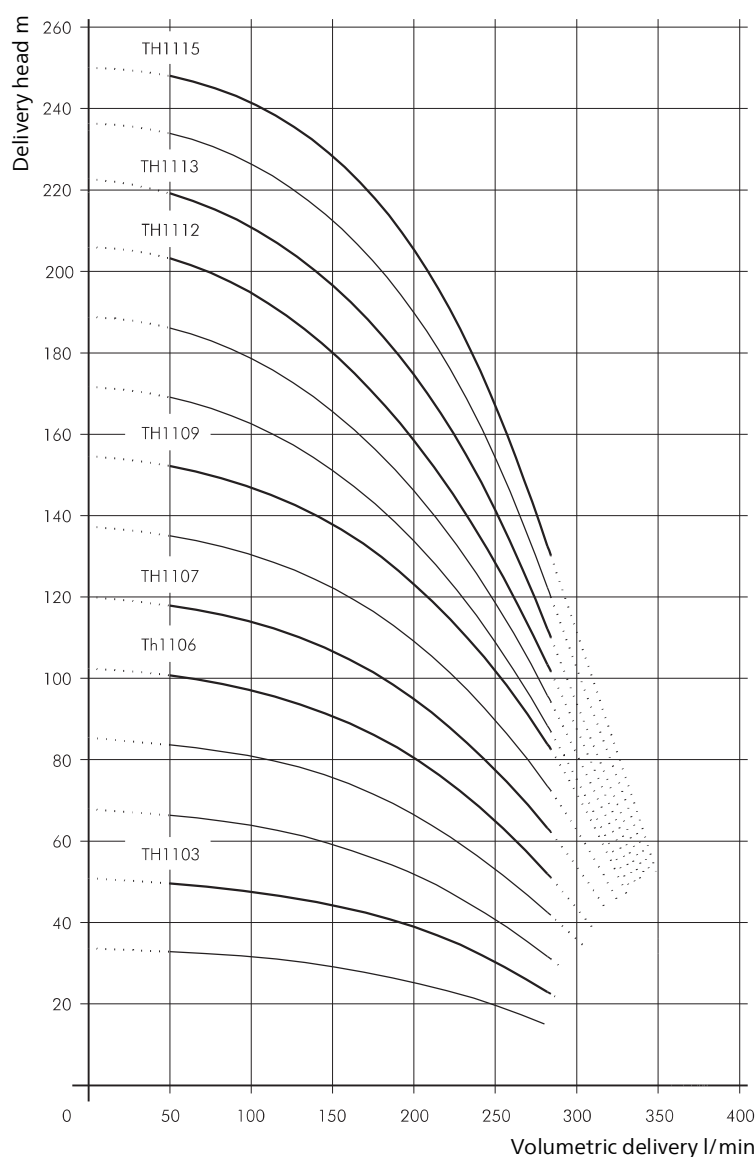
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

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

Noise level (Motor only; + 3 dBA)

(S)TH1102...(S)TH1104	66 dBA
(S)TH1105...(S)TH1109	74 dBA
(S)TH1110...(S)TH1115	77 dBA

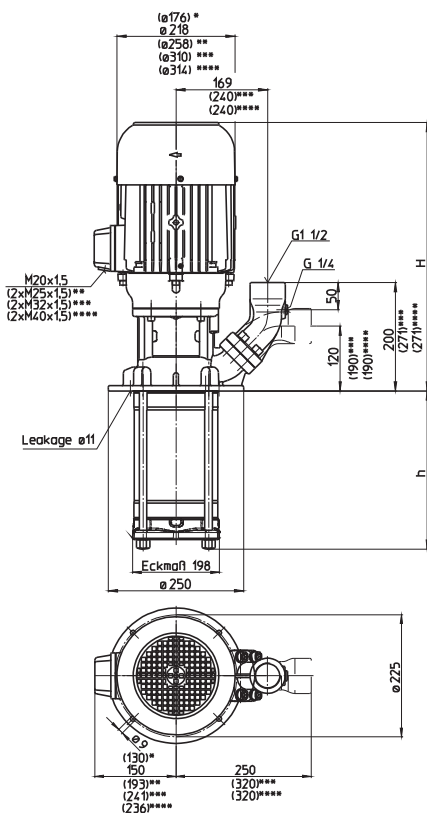


(S)TH14

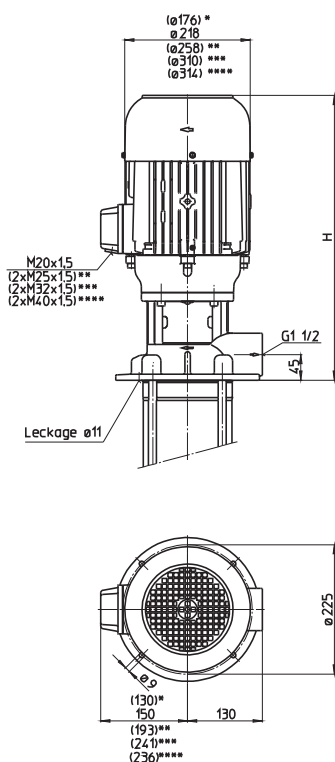
Closed impellers

60 Hz

STH1402...1412



TH1402...1412



- *) Diemensions for (S)TH1402
- **) Diemensions for (S)TH1405...1407
- ***) Diemensions for (S)TH1408...1410
- ****) Diemensions for (S)TH1411...1412

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/mi
(S)TH1402B180	250/38	492	182	47	2.94	460	60	5.1	3480
(S)TH1403B280	250/58	531	278	58	4.55	460	60	7.9	3520
(S)TH1404B280	250/77	561	278	65	6.3	460	60	10.4	3510
(S)TH1405B380	250/96	640	374	94	8.6	460	60	13.7	3550
(S)TH1406B380	250/111			95					
(S)TH1407B470	250/128	640	470	108	10.3	460	60	15.8	3550
(S)TH1408B470	250/147	647	470	123	12.6	460	60	19.5	3560
(S)TH1409B570	250/165	647	566	127	15.0	460	60	23.6	3560
(S)TH1410B570	250/184			128					
(S)TH1411B660	250/203	952	662	157	17.3	460	60	27	3555
(S)TH1412B660	250/222			160					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

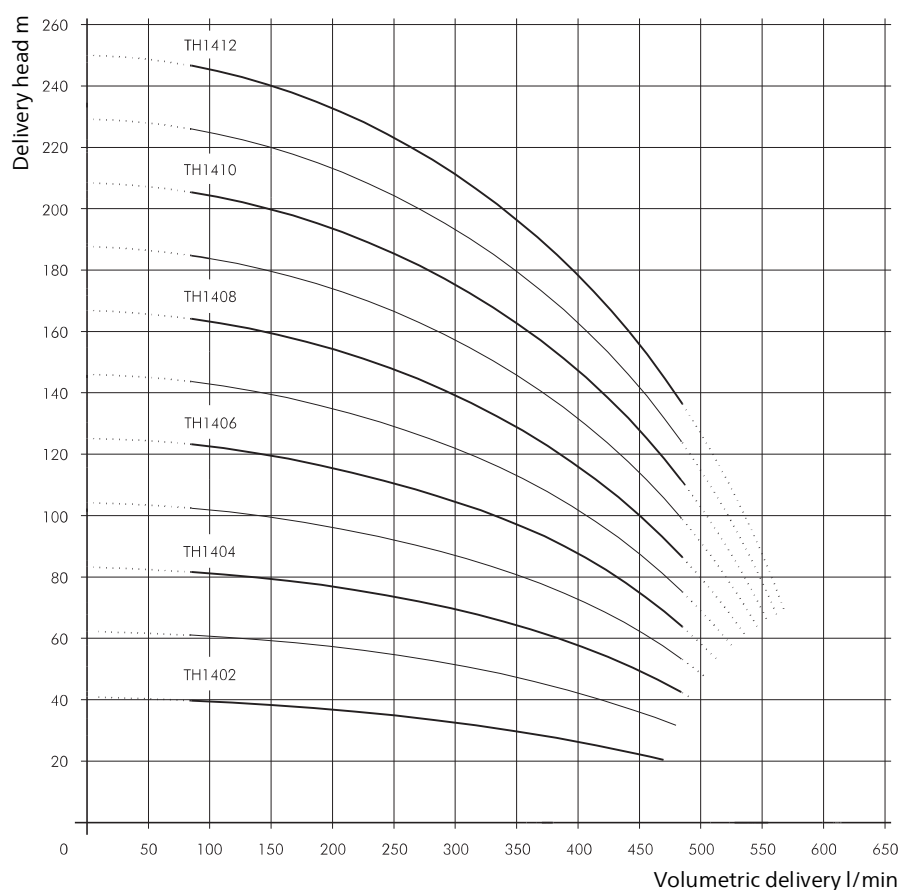
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

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

Noise level (Motor only; + 3 dBA)

(S)TH1402	66 dBA
(S)TH1403...(S)TH1404	74 dBA
(S)TH1405...(S)TH1407	77 dBA
(S)TH1408...(S)TH1410	79 dBA
(S)TH1411...(S)TH1412	81 dBA



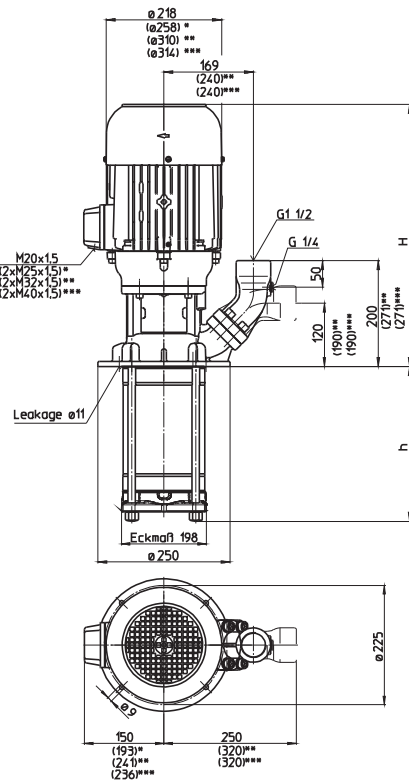
Immersion Pumps

(S)TH17

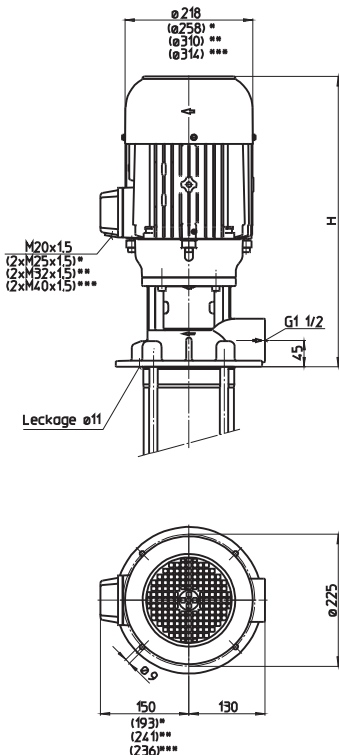
Closed impellers

60 Hz

STH1702...1711



TH1702...1711



*) Dimensions for (S)TH1704...1705

**) Dimensions for (S)TH1706...1708

***) Dimensions for (S)TH1709...1711

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Depth of im- mersion h mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
(S)TH1702B180	300/37	531	182	55	3.8	460	60	6.4	3520
(S)TH1703B280	300/58	561	278	60	5.75	460	60	9.5	3520
(S)TH1704B280	300/80	640	278	86	8.6	460	60	13.7	3550
(S)TH1705B380	300/99	640	374	115	10.3	460	60	15.8	3550
(S)TH1706B380	300/118	647	374	118	12.6	460	60	19.5	3560
(S)TH1707B470	300/140	647	470	122	15.0	460	60	23.6	3560
(S)TH1708B470	300/160			123					
(S)TH1709B570	300/180	952	566	148	17.3	460	60	27	3555
(S)TH1710B570	300/200	1002	566	160	21.3	460	60	32	3555
(S)TH1711B660	300/219		662	161					

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

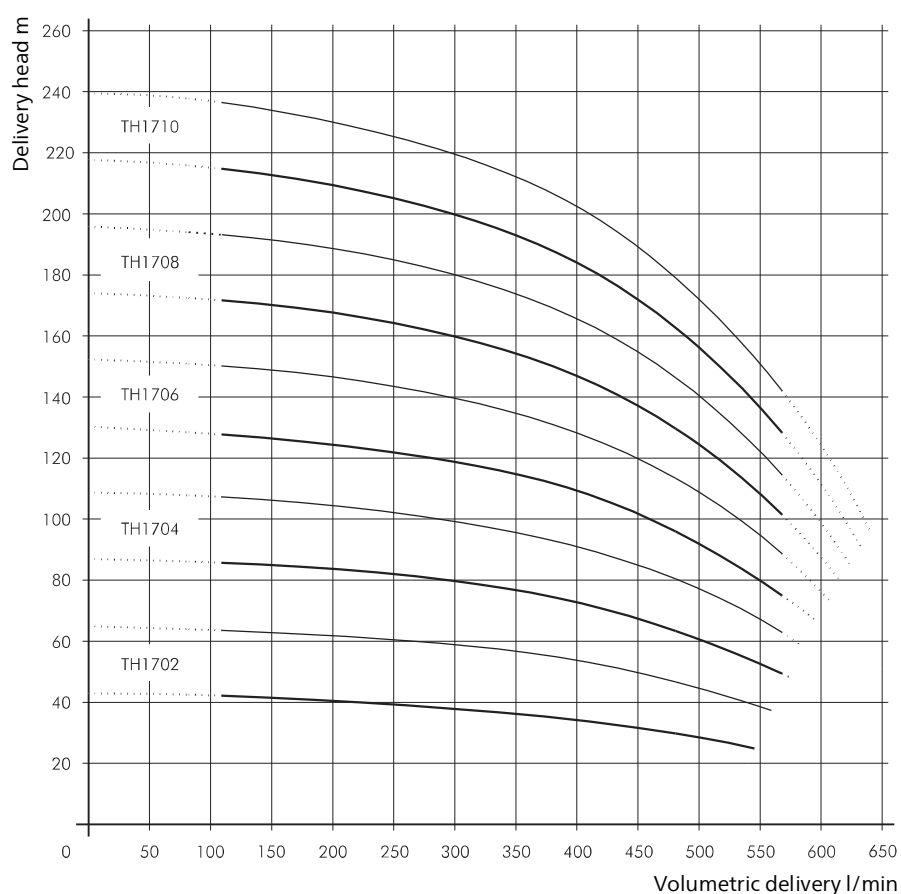
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

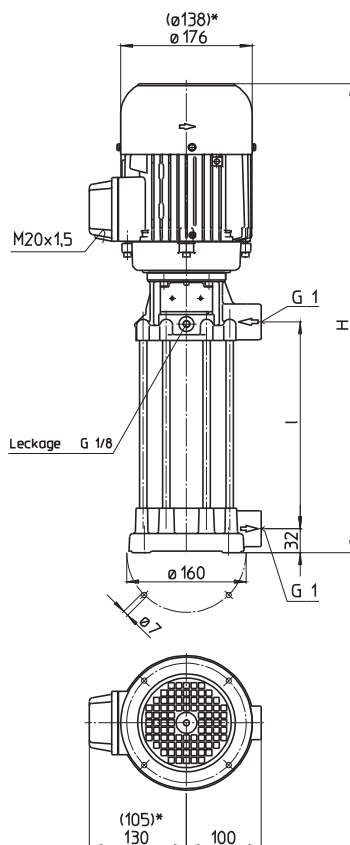
Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	CrNi-steel
Cover	CrNi-steel

Noise level (Motor only; + 3 dBA)

(S)TH1702...(S)TH1703	74 dBA
(S)TH1704...(S)TH1705	77 dBA
(S)TH1706...(S)TH1708	79 dBA
(S)TH1709...(S)TH1711	81 dBA



FH203...240



*) Dimensions for FH203...FH222

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH203A19	20/15	488	197	17.4	0.48	220-240 380-415	50	2.06	2820
FH204A19	20/20			17.5					
FH205A19	20/25			17.6					
FH206A29	20/30	588	297	18.1	0.63	220-240 380-415	50	2.70	2850
FH207A29	20/35			18.2					
FH208A29	20/40			18.3					
FH209A29	20/45			18.4	0.75	220-240 380-415	50	3.24	2850
FH210A29	20/50			18.5					
FH211A39	20/56	729	397	21.7					
FH212A39	20/60			21.9	0.92	220-240 380-415	50	3.8	2840
FH213A39	20/68	729	397	23.0					
FH214A39	20/75			23.1					
FH215A39	20/82	729	397	23.5	1.1	220-240 380-415	50	4.33	2850
FH216A49	20/88	829	497	24.1					
FH217A49	20/93			24.2					
FH218A49	20/98			24.3	1.3	220-240 380-415	50	4.85	2900
FH219A49	20/102	856	497	28.1					
FH220A49	20/108			28.2					
FH221A59	20/112	956	597	28.8	1.5	220-240 380-415	50	5.5	2880
FH222A59	20/118			28.9					
FH223A59	20/125	978	597	34.8					
FH224A59	20/130			34.9	1.7	220-240 380-415	50	6.24	2890
FH225A59	20/135			35.0					
FH226A69	20/142	1078	697	35.9					
FH227A69	20/150			36.0	1.9	220-240 380-415	50	6.84	2900
FH228A69	20/155			36.1					
FH229A69	20/160	1104	697	38.9					
FH230A69	20/166			39.0	2.2	220-240 380-415	50	7.8	2890
FH231A79	20/172	1204	797	39.5					
FH232A79	20/178			39.6					
FH233A79	20/182			39.8	1.9	220-240 380-415	50	6.84	2900
FH234A79	20/190	1236	797	44.1					
FH235A79	20/195			44.2					
FH236A89	20/200	1336	897	44.8	2.2	220-240 380-415	50	7.8	2890
FH237A89	20/205	1336	897	46.7					
FH238A89	20/210			46.8					
FH239A89	20/215			46.9	2.2	220-240 380-415	50	4.5	2890
FH240A89	20/220			47.0					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

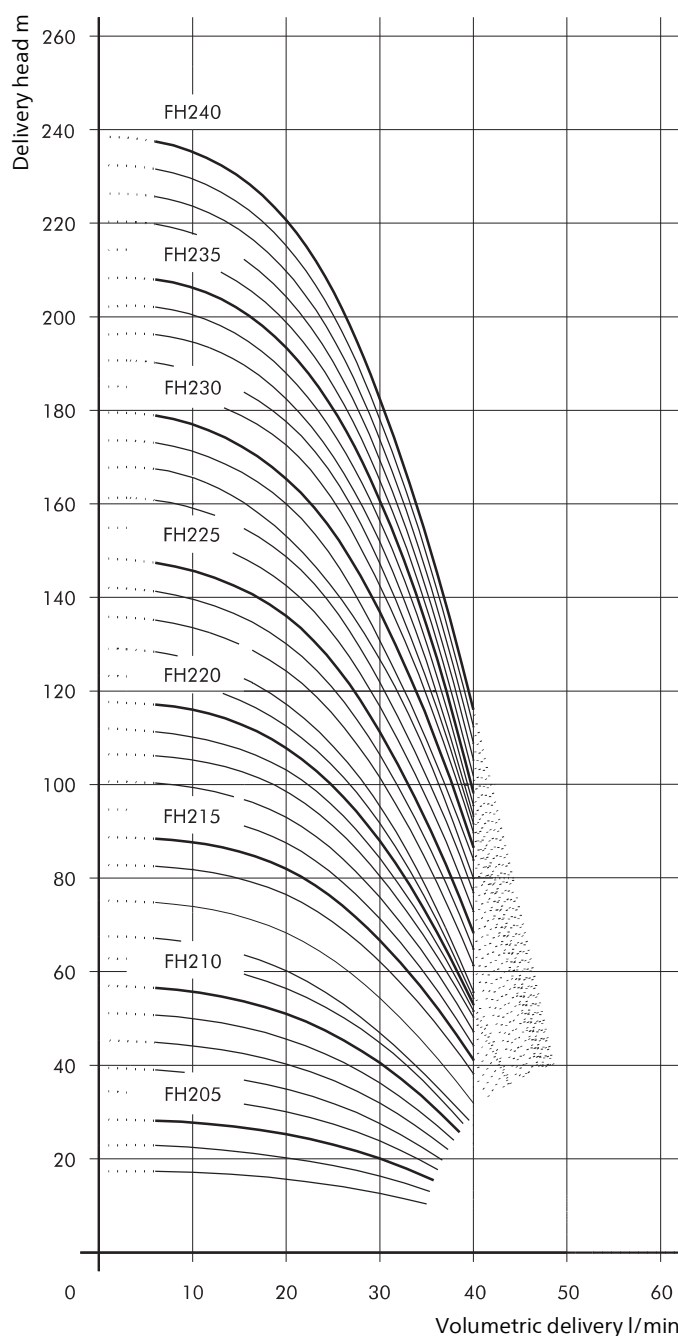
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm²/s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

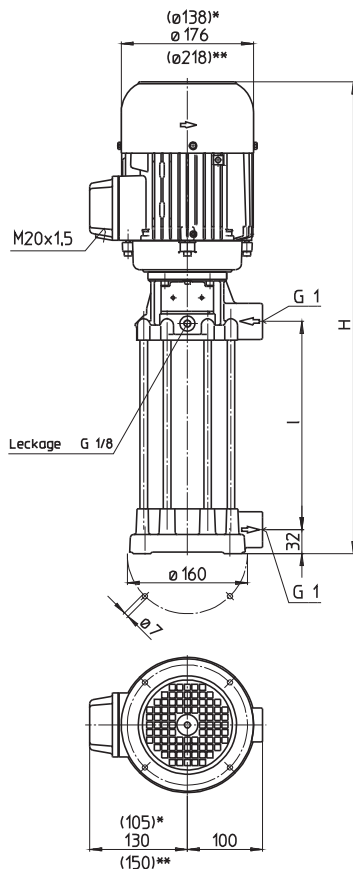
Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)
FH203...FH222 58 dBA
FH223...FH240 63 dBA



FH403...435



*) Dimensions for FH403...FH412

**) Dimensions for FH428...FH435

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH403A19	40/18	488	197	17.9	0.48	220-240	50	2.06	2820
FH404A19	40/25			18.0		380-415	50	1.19	2820
FH405A19	40/30			18.1					
FH406A29	40/36	629	297	19.5	0.63	220-240	50	2.70	2850
						380-415	50	1.56	2850
FH407A29	40/42	629	297	20.9	0.75	220-240	50	3.24	2850
FH408A29	40/50			21.0		380-415	50	1.87	2850
FH409A29	40/56	629	297	22.5	0.85	220-240	50	3.64	2850
						380-415	50	2.10	2850
FH410A29	40/62	629	297	23	0.92	220-240	50	3.8	2840
						380-415	50	2.2	2840
FH411A39	40/68	756	397	24.6	1.1	220-240	50	4.33	2850
FH412A39	40/74			24.8		380-415	50	2.50	2850
FH413A39	40/80	778	397	31	1.3	220-240	50	4.85	2900
						380-415	50	2.80	2900
FH414A39	40/86	778	397	31.5	1.5	220-240	50	5.5	2880
FH415A39	40/95			32.1		380-415	50	3.2	2880
FH416A49	40/104	904	497	34.5	1.7	220-240	50	6.24	2890
FH417A49	40/112			34.9		380-415	50	3.60	2890
FH418A49	40/118	936	497	38.5	1.9	220-240	50	6.84	2900
FH419A49	40/125			38.9		380-415	50	3.95	2900
FH420A49	40/130	936	497	39.5	2.2	220-240	50	7.8	2890
						380-415	50	4.5	2890
FH421A59	40/136	1036	597	41.0					
FH422A59	40/142			41.3					
FH423A59	40/150	1036	597	41.7	2.6	220-240	50	9.30	2880
FH424A59	40/156			42.0		380-415	50	5.35	2880
FH425A59	40/162			42.8					
FH426A69	40/168	1136	697	43.0					
FH427A69	40/175			43.3					
FH428A69	40/182	1129	697	54.2	3.0	220-240	50	10.7	2930
FH429A69	40/190			54.3		380-415	50	6.2	2930
FH430A69	40/198	1129	697	55.8	3.3	220-240	50	11.6	2930
						380-415	50	6.7	2930
FH431A79	40/208	1229	797	56.6					
FH432A79	40/216			57.0					
FH433A79	40/220	1229	797	58.1	4.0	220-240	50	14.50	2920
FH434A79	40/230			58.3		380-415	50	8.35	2920
FH435A79	40/240			58.5					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

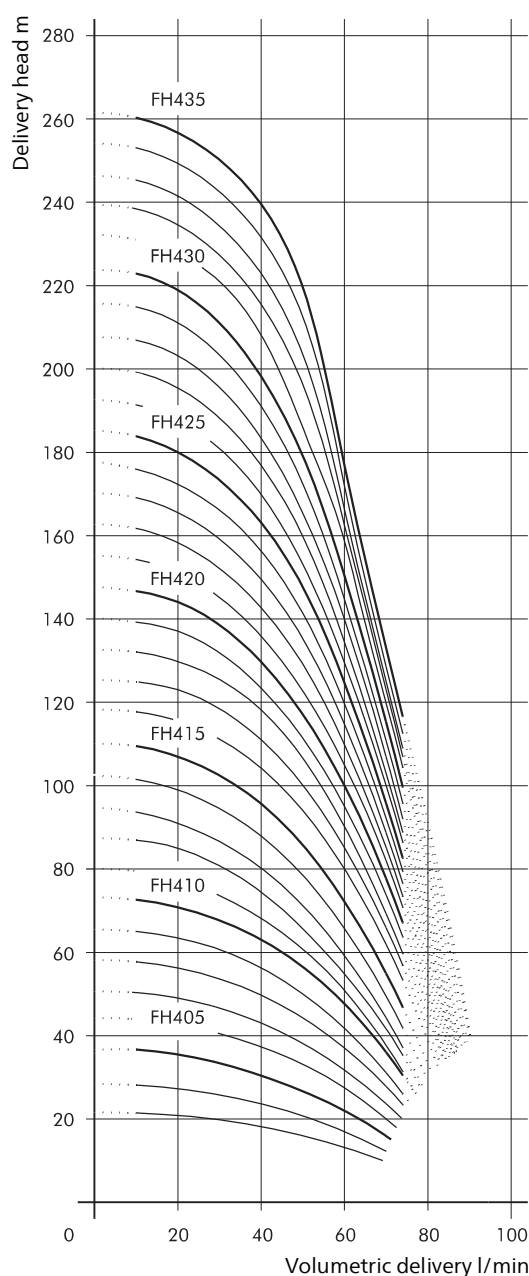
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm²/s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

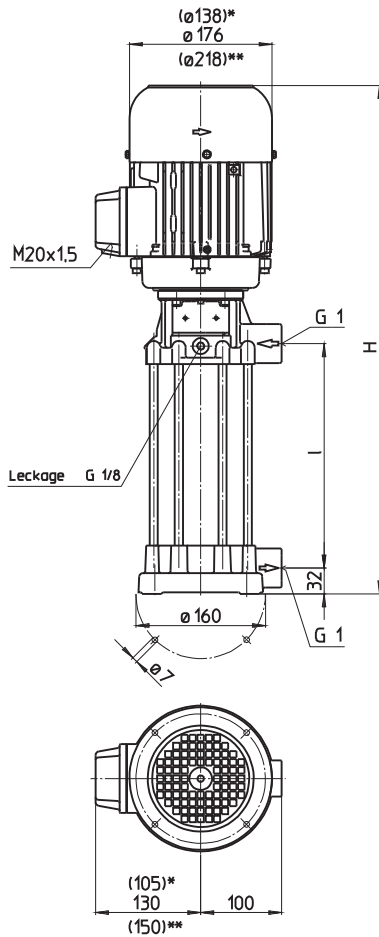
Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)
FH403...FH412 58 dBA
FH413...FH427 63 dBA
FH428...FH435 71 dBA



FH603...632



*) Dimensions for FH603...FH607

**) Dimensions for FH619...FH632

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH603A19	80/18	488	197	18	0.48	220-240 380-415	50 50	2.06 1.19	2820 2820
FH604A19	80/24	529	197	19.6	0.63	220-240 380-415	50 50	2.70 1.56	2850 2850
FH605A24	80/30	579	247	20.8	0.75	220-240 380-415	50 50	3.24 1.87	2850 2850
FH606A24	80/36	579	247	21.4	0.92	220-240 380-415	50 50	3.8 2.2	2840 2840
FH607A29	80/41	656	297	22.5	1.1	220-240 380-415	50 50	4.33 2.50	2850 2850
FH608A29	80/48	678	297	29	1.3	220-240 380-415	50 50	4.85 2.80	2900 2900
FH609A34	80/56	728	347	30.0	1.5	220-240 380-415	50 50	5.5 3.2	2880 2880
FH610A34	80/61			30.2					
FH611A39	80/71	804	397	33	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
FH612A39	80/76	836	397	37	1.9	220-240 380-415	50 50	6.84 3.95	2900 2900
FH613A49	80/82	936	497	39.0	2.2	220-240 380-415	50 50	7.8 4.5	2890 2890
FH614A49	80/90			39.1					
FH615A49	80/96			39.2					
FH616A49	80/101	936	497	39.8	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
FH617A59	80/108	1036	597	40.4					
FH618A59	80/114			40.6					
FH619A59	80/120	1029	597	52.0	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
FH620A59	80/128			52.1					
FH621A69	80/136	1129	697	53.5					
FH622A69	80/142	1129	697	54.6	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
FH623A69	80/150			54.8					
FH624A69	80/155			55.0					
FH625A79	80/160	1229	797	56.2					
FH626A79	80/166			56.4					
FH627A79	80/172	1259	797	63.0	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
FH628A79	80/180			63.2					
FH629A89	80/186	1359	897	64.9					
FH630A89	80/192			65.1					
FH631A89	80/200			65.3					
FH632A89	80/206			65.5					

Pressure Boosting Pumps

Series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

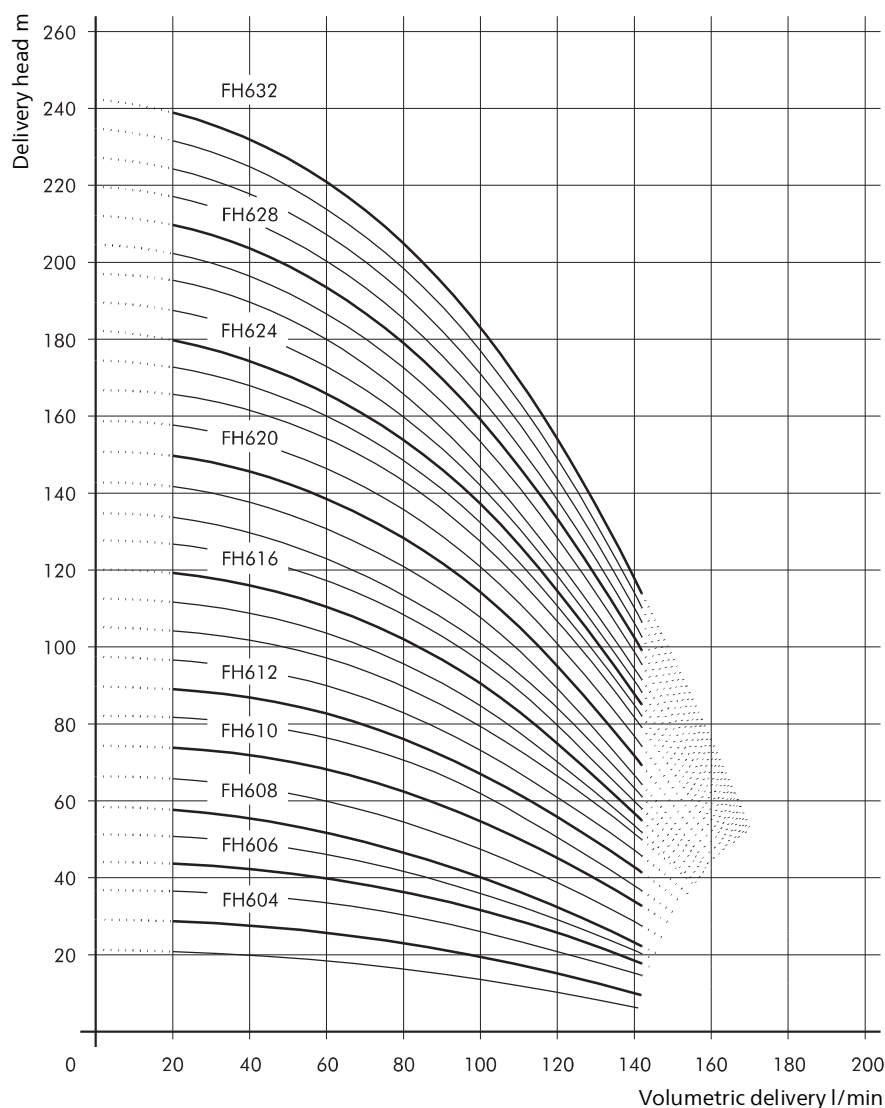
Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)

FH603...FH607 58 dBA

FH608...FH618 63 dBA

FH619...FH632 71 dBA

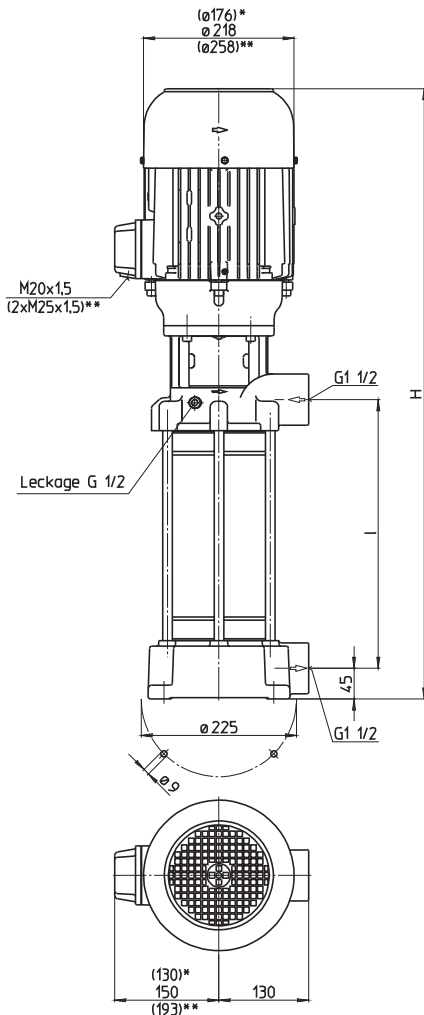


FH11

Closed impellers

50 Hz

FH1102...1121



*) Dimensions for FH1102...1106

**) Dimensions for FH1115...1121

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1102A18	150/19	643	212	39	1.3	220-240 380-415	50 50	4.85 2.80	2900 2900
FH1103A18	150/29	643	212	40	1.5	220-240 380-415	50 50	5.5 3.2	2880 2880
FH1104A28	150/38	765	308	44	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
FH1105A28	150/48	798	308	48	1.9	220-240 380-415	50 50	6.84 3.95	2900 2900
FH1106A28	150/58	798	308	50	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
FH1107A31	150/67	869	340	60	3.0	220-240 380-415	50 50	10.7 6.2	2930 2930
FH1108A38	150/78	933	404	63	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
FH1109A38	150/88	933	404	64	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
FH1110A47	150/98	1028	500	66	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
FH1111A47	150/106	1058	500	72	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
FH1112A47	150/118			73					
FH1113A50	150/128	1090	532	74	7.5	380-415	50	14.3	2950
FH1114A57	150/138	1154	596	75					
FH1115A57	150/149	1232	596	107					
FH1116A66	150/158	1328	682	109					
FH1117A66	150/168			110					
FH1118A66	150/178			113					
FH1119A76	150/188	1424	788	117	9.0	380-415	50	16.7	2955
FH1120A76	150/198			118					
FH1121A76	150/206			119					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

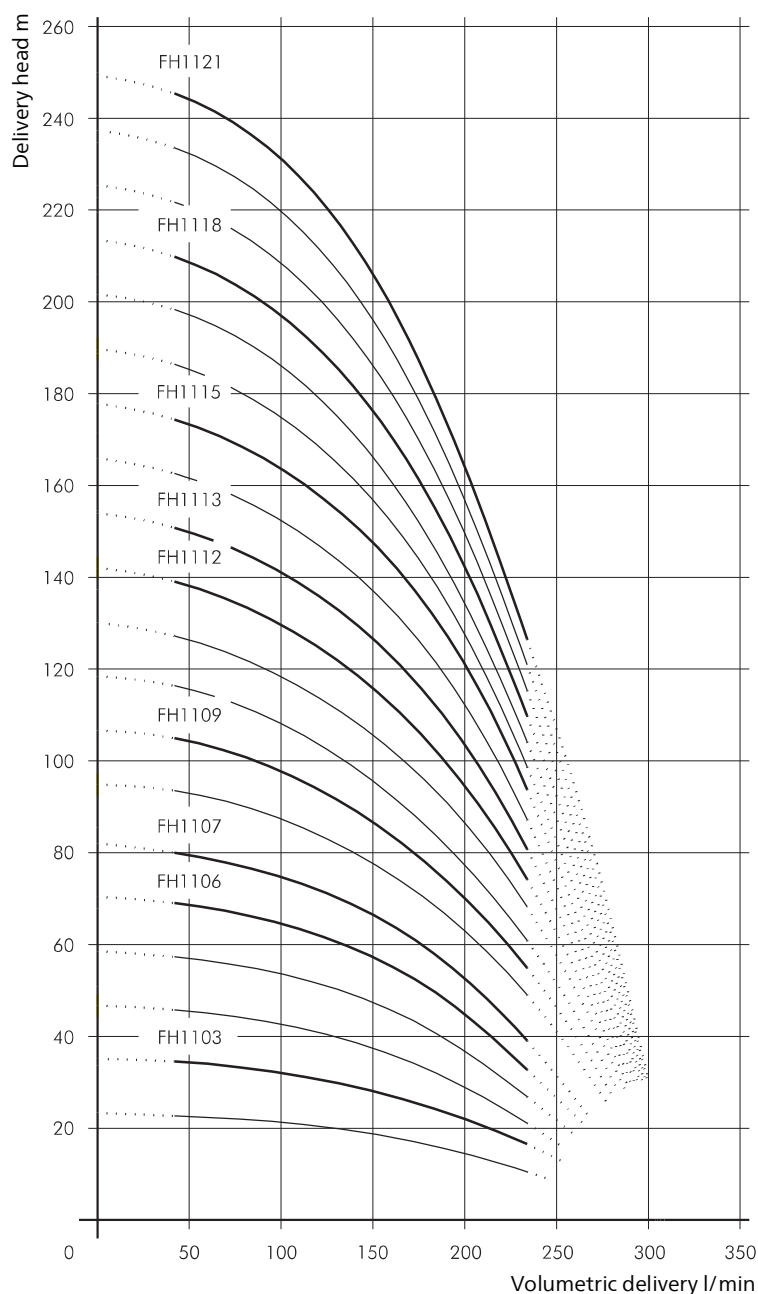
Applications

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

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)	
FH1102...FH1106	63 dBA
FH1107...FH1114	71 dBA
FH1115...FH1121	74 dBA

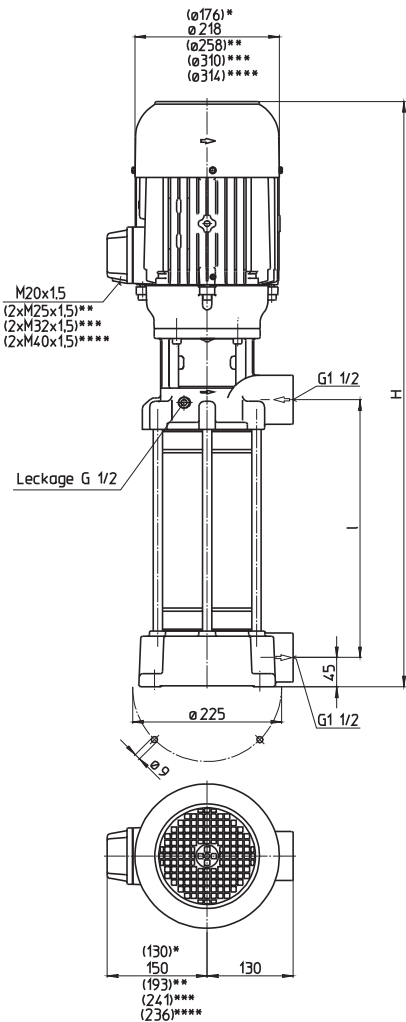


FH14

Closed impellers

50 Hz

FH1402...1417



- *) Dimensions for FH1402...1403
**) Dimensions for FH1408...1411
***) Dimensions for FH1412...1416
****) Dimensions for FH1417

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1402A18	250/21	669	212	42	1.7	220-240 380-415	50 50	6.24 3.60	2890 2890
FH1403A28	250/38	798	308	49	2.6	220-240 380-415	50 50	9.30 5.35	2880 2880
FH1404A28	250/48	837	308	61	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
FH1405A38	250/60	933	404	63	4.0	220-240 380-415	50 50	14.50 8.35	2920 2920
FH1406A38	250/74	963	404	69	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
FH1407A47	250/85	1058	500	72	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
FH1408A47	250/98	1136	500	103	7.5	380-415	50	14.3	2950
FH1409A57	250/110	1232	596	105					
FH1410A57	250/120	1232	596	112	9.0	380-415	50	16.7	2955
FH1411A66	250/134	1328	692	128					
FH1412A66	250/144	1336	692	137	11.0	380-415	50	20.1	2960
FH1413A76	250/159	1432	788	140					
FH1414A76	250/170	1432	788	144	13.0	380-415	50	24.2	2960
FH1415A90	250/180	1576	932	147					
FH1416A90	250/190			148					
FH1417A90	250/200	1881	932	167	15.0	400	50	27	2960

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

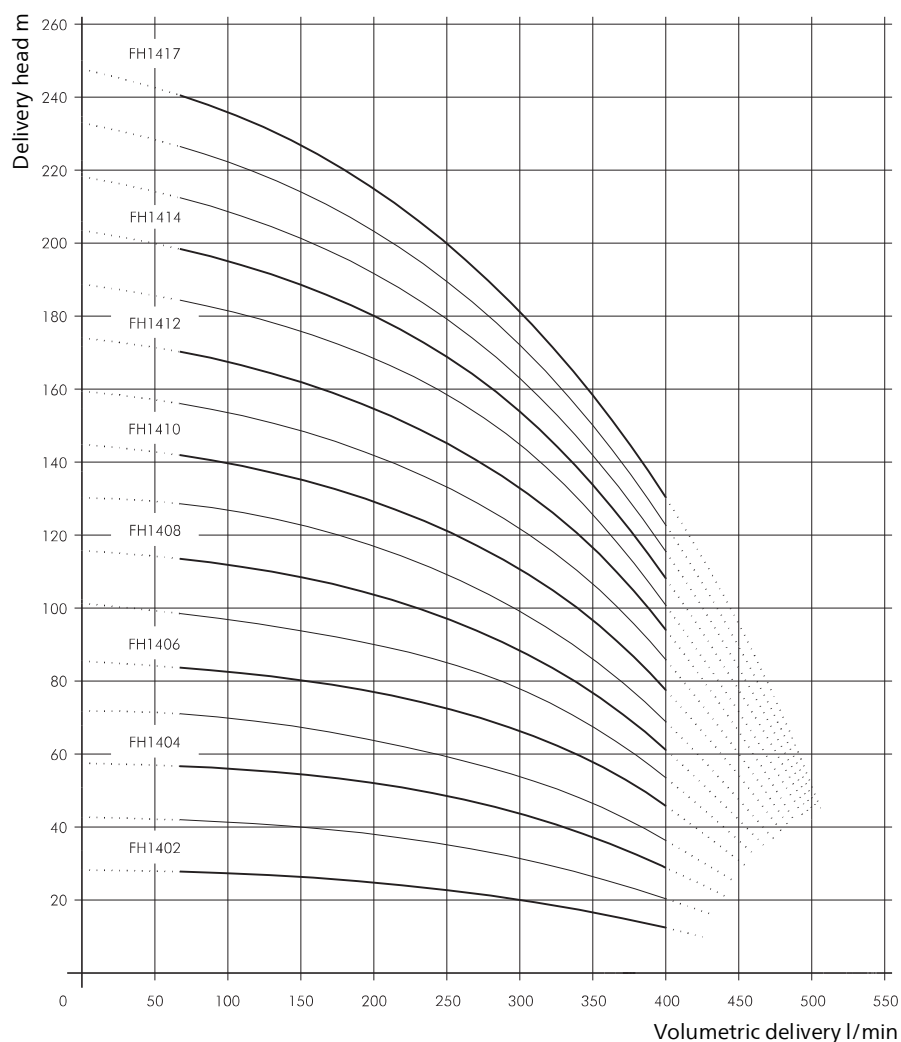
Applications

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

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)	
FH1402...FH1403	63 dBA
FH1404...FH1407	71 dBA
FH1408...FH1416	74 dBA
FH1417	78 dBA

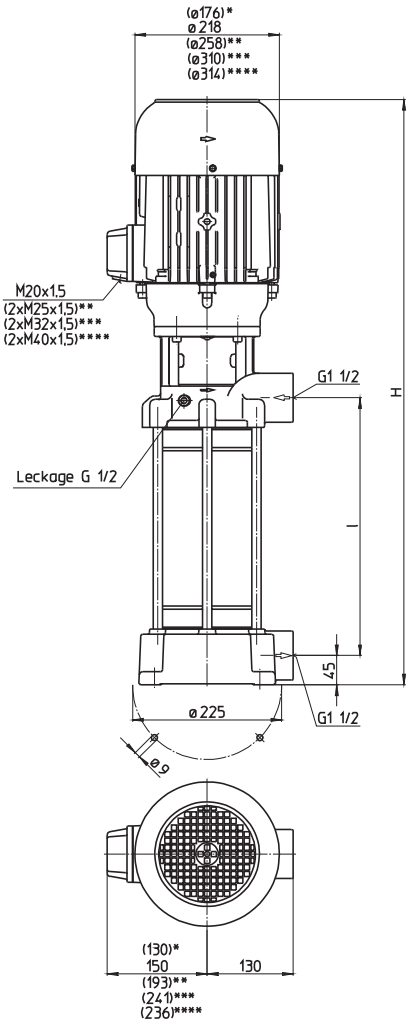


FH17

Closed impellers

50 Hz

FH1702...1717



- *) Dimensions for FH1702
- **) Dimensions for FH1706...1708
- ***) Dimensions for FH1709...1712
- ****) Dimensions for FH1713...1717

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1702A18	300/24	702	212	48	2.2	220-240 380-415	50 50	7.8 4.5	2890 2890
FH1703A28	300/37	837	308	61	3.3	220-240 380-415	50 50	11.6 6.7	2930 2930
FH1704A28	300/51	867	308	67	5.0	220-240 380-415	50 50	17.3 10.0	2920 2920
FH1705A38	300/66	963	404	70	5.5	220-240 380-415	50 50	18.9 10.9	2915 2915
FH1706A38	300/77	1040	404	93	7.5	380-415	50	14.3	2950
FH1707A47	300/90	1136	500	103	9.0	380-415	50	16.7	2955
FH1708A47	300/103	1136	500	122					
FH1709A57	300/116	1240	596	130	11.0	380-415	50	20.1	2960
FH1710A57	300/130			132					
FH1711A66	300/143	1336	692	136	13.0	380-415	50	24.2	2960
FH1712A66	300/157			138					
FH1713A76	300/172	1737	788	156	15.0	400	50	27	2960
FH1714A76	300/186	1787	788	174	18.5	400	50	32	2955
FH1715A90	300/200	1930	932	176					
FH1716A90	300/212			178					
FH1717A90	300/227			183					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

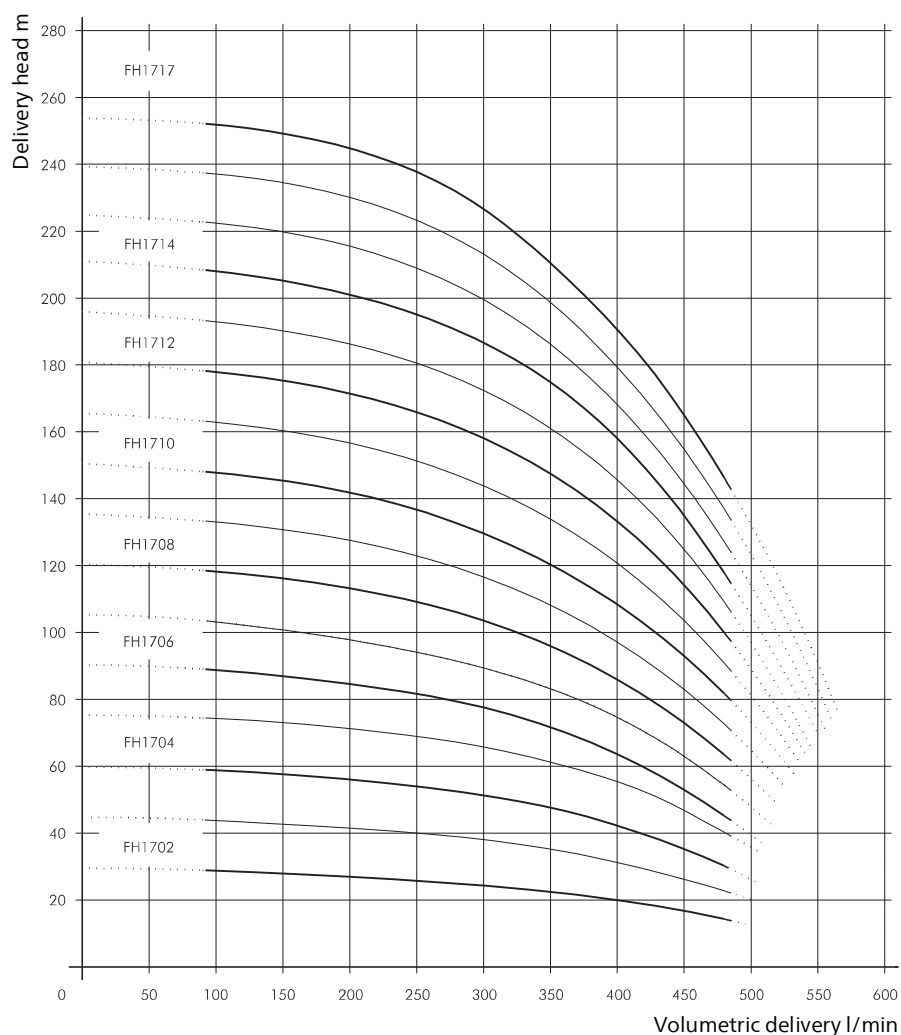
Applications

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

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)	
FH1702	63 dBA
FH1703...FH1705	71 dBA
FH1706...FH1712	74 dBA
FH1713...FH1717	78 dBA



Pressure Boosting Pumps

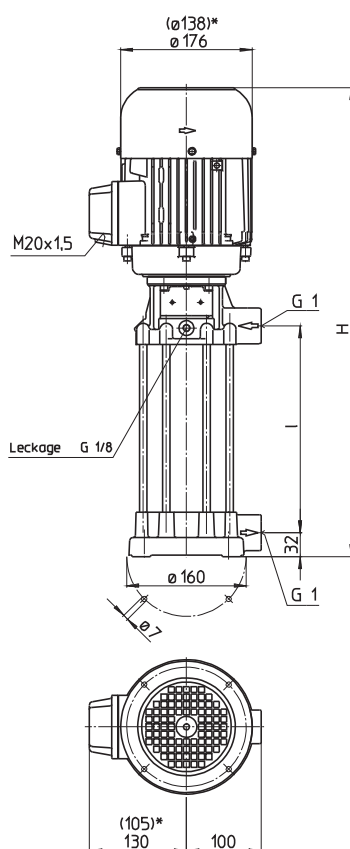
FH2

Closed impellers



60 Hz

FH203...230



*) Dimensions for FH203...FH215

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH203B19	20/25	488	197	17.4	0.55	460	60	1.14	3405
FH204B19	20/30			17.5					
FH205B19	20/40			17.9					
FH206B29	20/50	588	297	18.4					
FH207B29	20/57	629	297	21.2	0.725	460	60	1.46	3425
FH208B29	20/64			21.3					
FH209B29	20/74	629	297	22.2	0.86	460	60	1.85	3440
FH210B29	20/81	629	297	23.3	0.98	460	60	2	3450
FH211B39	20/90	729	397	24.0	1.06	460	60	2.1	3440
FH212B39	20/98			24.1					
FH213B39	20/106			24.2					
FH214B39	20/113	756	397	25.4	1.27	460	60	2.4	3440
FH215B39	20/119			25.5					
FH216B49	20/127	878	497	31	1.49	460	60	2.7	3500
FH217B49	20/136	878	497	33.2	1.75	460	60	3.1	3470
FH218B49	20/146			33.3					
FH219B49	20/156			33.4					
FH220B49	20/164	904	497	35.5	1.95	460	60	3.5	3480
FH221B59	20/172	1004	597	36.5					
FH222B59	20/182	1036	597	40.4	2.18	460	60	3.9	3500
FH223B59	20/191			40.5					
FH224B59	20/200	1036	597	41.2	2.55	460	60	4.4	3480
FH225B59	20/208			41.4					
FH226B69	20/216	1136	697	42.0					
FH227B69	20/224			42.1					
FH228B69	20/231	1136	697	43.1	2.94	460	60	5.1	3480
FH229B69	20/238			43.3					
FH230B69	20/245			43.5					

Pressure Boosting Pumps

Series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

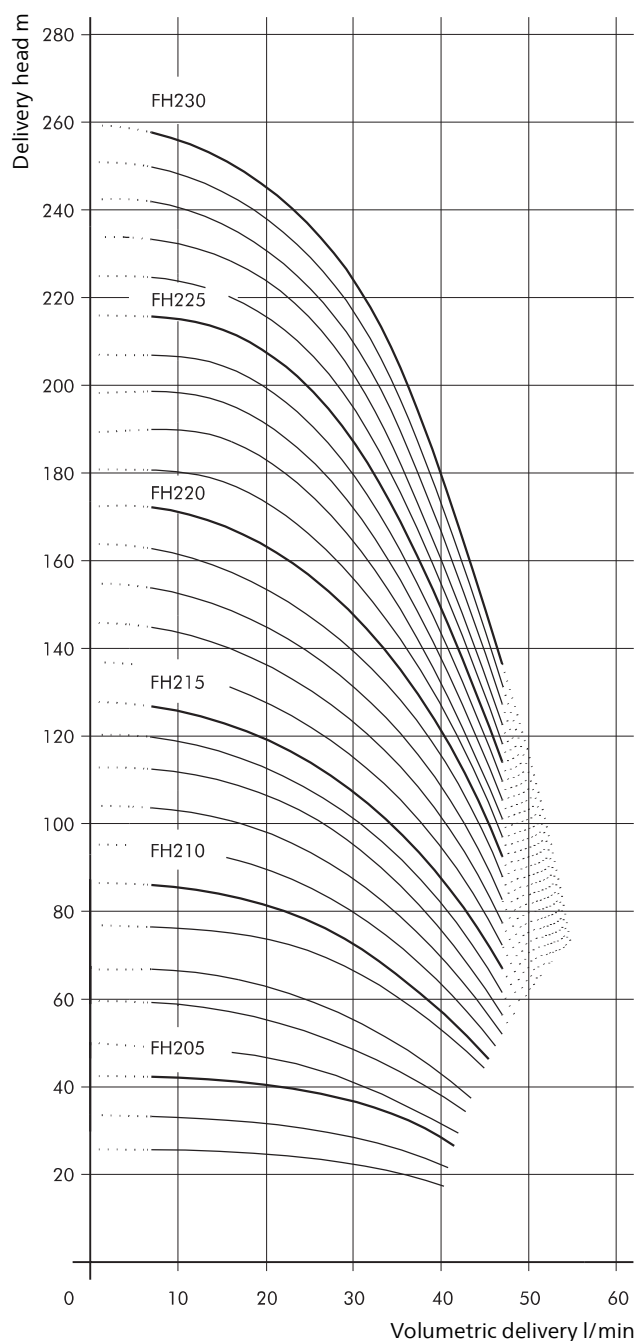
Applications

Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)	
FH203...FH215	61 dBA
FH216...FH230	66 dBA



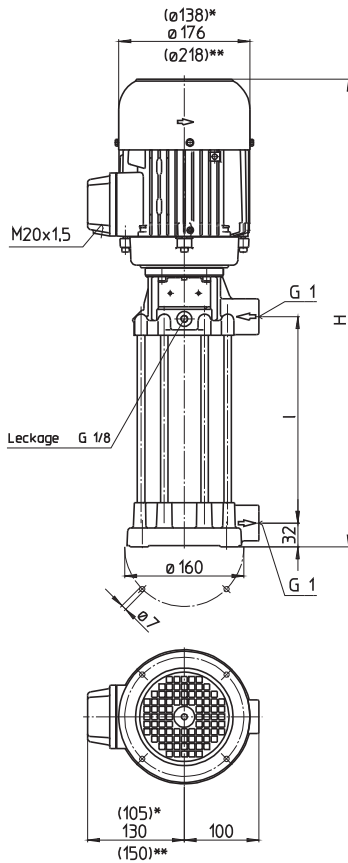
Pressure Boosting Pumps

FH4

Closed impellers

60 Hz

FH403...423



*) Dimensions for FH403...FH408

**) Dimensions for FH419...FH423

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH403B19	40/29	488	197	18.4	0.55	460	60	1.14	3405
FH404B19	40/39	529	197	19.5	0.725	460	60	1.46	3425
FH405B19	40/49	529	197	20.3	0.86	460	60	1.85	3440
FH406B29	40/58	629	297	21.2	1.06	460	60	2.1	3440
FH407B29	40/68	656	297	22.4	1.27	460	60	2.4	3440
FH408B29	40/78			22.5					
FH409B29	40/88	678	297	30	1.49	460	60	2.7	3500
FH410B29	40/100	678	297	30.2	1.75	460	60	3.1	3470
FH411B39	40/110	804	397	32.4	1.95	460	60	3.5	3480
FH412B39	40/119			33.0					
FH413B39	40/129	836	397	38	2.18	460	60	3.9	3500
FH414B39	40/139	836	397	38.5	2.55	460	60	4.4	3480
FH415B39	40/150			38.6					
FH416B49	40/159	936	497	39.0	2.94	460	60	5.1	3480
FH417B49	40/170			39.1					
FH418B49	40/179			39.2					
FH419B49	40/192	929	497	50.9	3.8	460	60	6.4	3520
FH420B49	40/202			51.0					
FH421B59	40/214	1029	597	51.1					
FH422B59	40/224			51.3					
FH423B59	40/233	1029	597	55.5	4.55	460	60	7.9	3520

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Applications

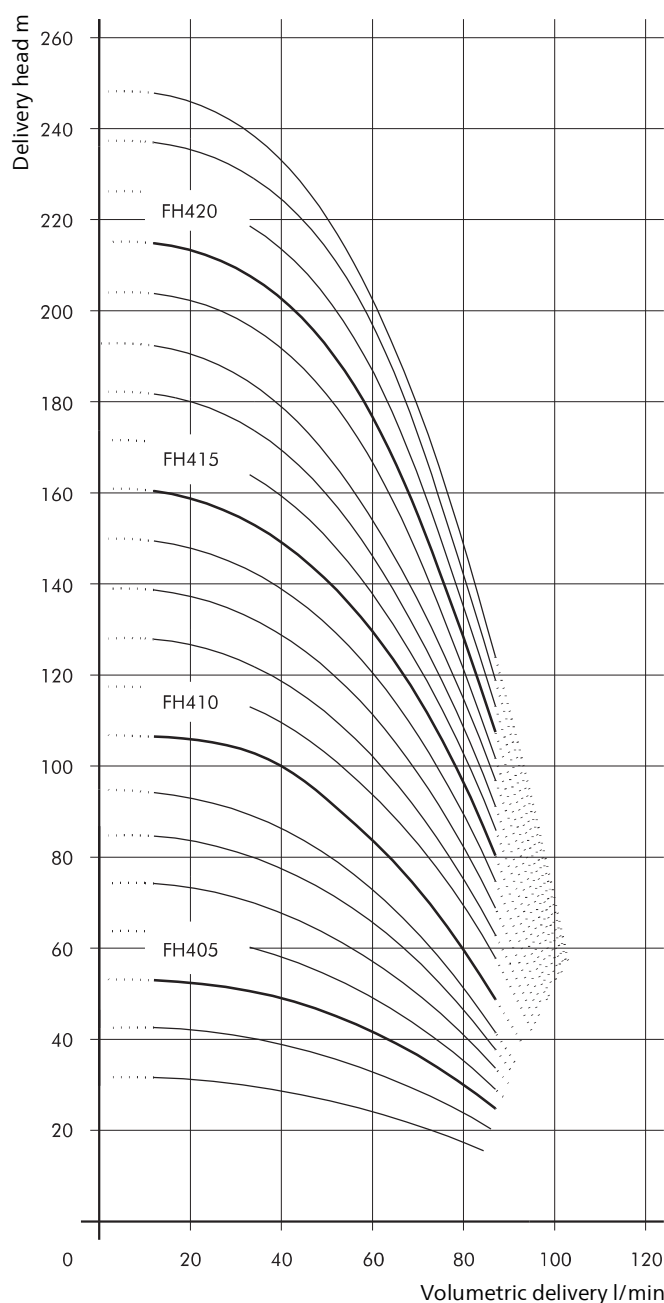
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
1 mm ² /s (1 cSt)
higher viscosity upon request
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)

FH403...FH408	61 dBA
FH409...FH418	66 dBA
FH419...FH423	75 dBA



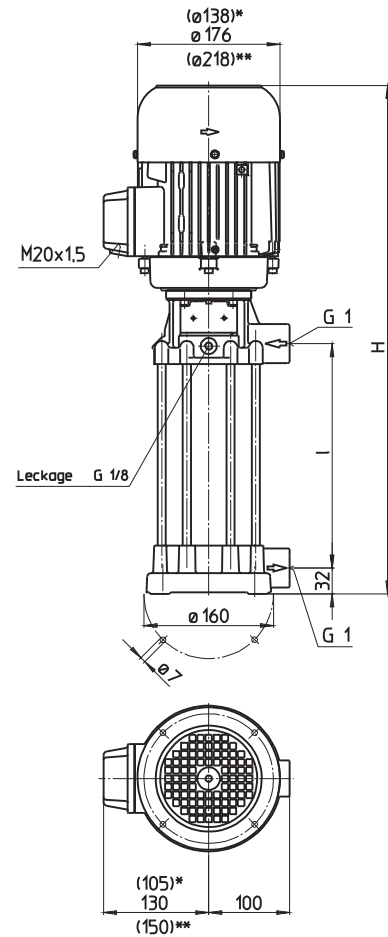
Pressure Boosting Pumps

FH6

Closed impellers

60 Hz

FH603...624



*) Dimensions for FH603...FH605
**) Dimensions for FH612...FH624

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH603B19	80/28	529	197	19.9	0.86	460	60	1.85	3440
FH604B19	80/38	529	197	21	1.06	460	60	2.1	3440
FH605B24	80/48	606	247	22	1.27	460	60	2.4	3440
FH606B24	80/58	628	247	28	1.75	460	60	3.1	3470
FH607B29	80/68	704	297	32	1.95	460	60	3.5	3480
FH608B29	80/78	736	297	35	2.18	460	60	3.9	3500
FH609B34	80/88	786	347	38	2.55	460	60	4.4	3480
FH610B34	80/98	786	347	39.0	2.94	460	60	5.1	3480
FH611B39	80/108	836	397	39.6					
FH612B39	80/118	829	397	52.3	3.45	460	60	6	3520
FH613B49	80/128	929	497	53.2	3.8	460	60	6.4	3520
FH614B49	80/139			53.5					
FH615B49	80/149	929	497	55.6	4.55	460	60	7.9	3520
FH616B49	80/159			55.8					
FH617B59	80/168	1029	597	56.3					
FH618B59	80/178	1059	597	60.3	5.75	460	60	9.5	3520
FH619B59	80/188			60.4					
FH620B59	80/198			60.5					
FH621B69	80/206	1159	697	61.2					
FH622B69	80/214			61.3					
FH623B69	80/222	1159	697	64.5	6.3	460	60	10.4	3510
FH624B69	80/232			64.7					

Pressure Boosting Pumps

Series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Applications

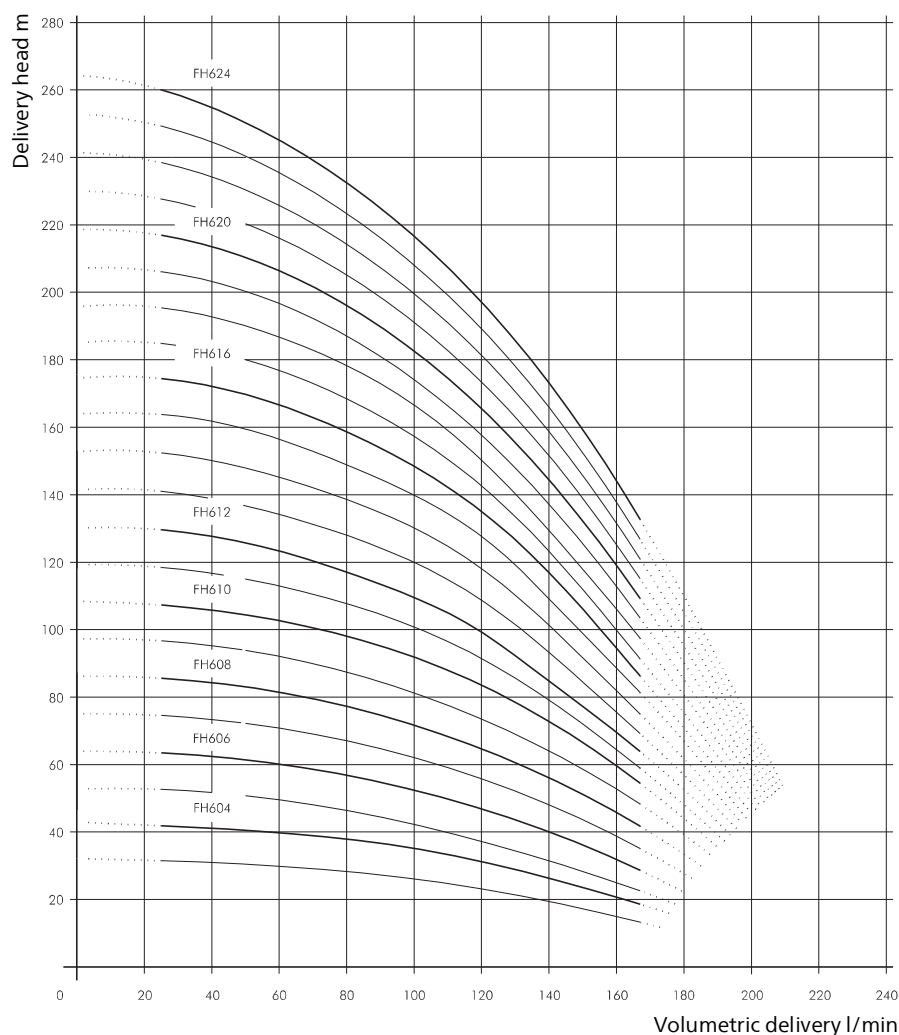
Types of fluid	Industry water coolants cooling/cutting oils
Kinematic viscosity	1 mm ² /s (1 cSt) higher viscosity upon request
Pumping temperature	0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton
Optional:	
Pump body	bronze
Cover	bronze

Noise level (Motor only; + 3 dBA)

FH603...FH605	61 dBA
FH606...FH611	66 dBA
FH612...FH624	75 dBA



Pressure Boosting Pumps

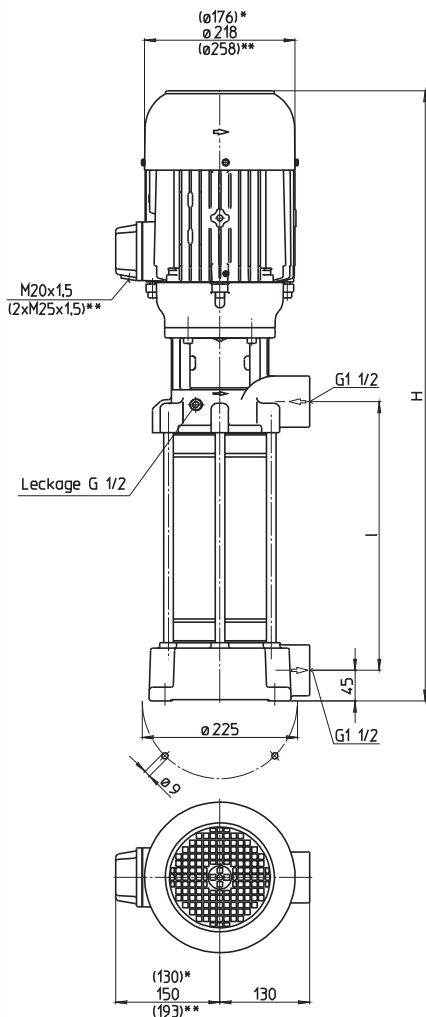


FH11

Closed impellers

60 Hz

FH1102...1115



*) Dimensions for FH1102...1104

**) Dimensions for FH1110...1115

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1102B18	150/30	643	212	39	1.49	460	60	2.7	3500
FH1103B18	150/45	702	212	46	2.18	460	60	3.9	3500
FH1104B28	150/59	798	308	47	2.94	460	60	5.1	3480
FH1105B28	150/77	837	308	60	3.8	460	60	6.4	3520
FH1106B28	150/90	837	308	62	4.55	460	60	7.9	3520
FH1107B31	150/106	899	340	67	5.75	460	60	9.5	3520
FH1108B38	150/121	963	404	69					
FH1109B38	150/138	963	404	71	6.3	460	60	10.4	3510
FH1110B47	150/152	1136	500	102	8.6	460	60	13.7	3550
FH1111B47	150/166			103					
FH1112B47	150/180			104					
FH1113B50	150/198	1168	532	112	10.3	460	60	15.8	3550
FH1114B57	150/212	1232	596	113					
FH1115B57	150/230			114					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

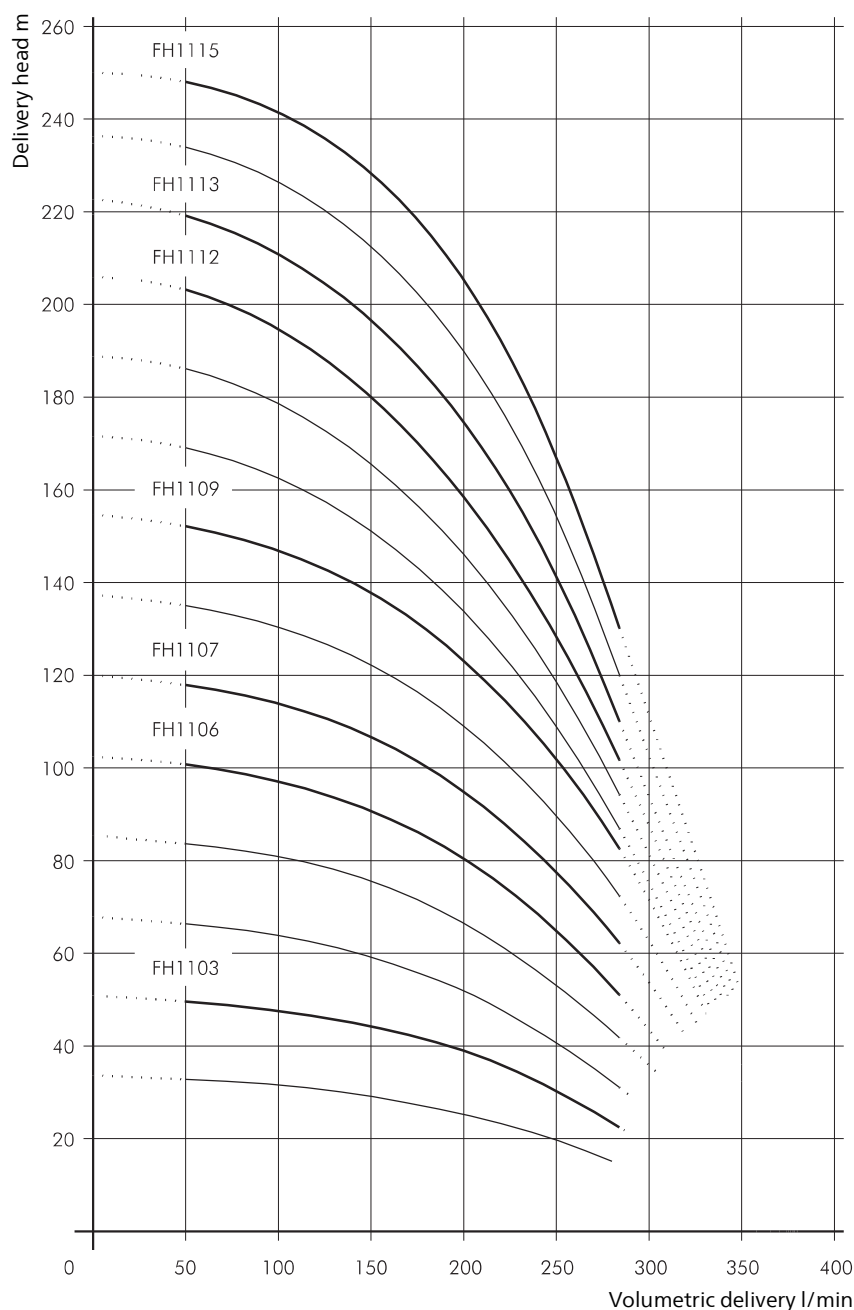
Applications

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

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)	
FH1102...FH1104	66 dBA
FH1105...FH1109	74 dBA
FH1110...FH1115	77 dBA



Pressure Boosting Pumps

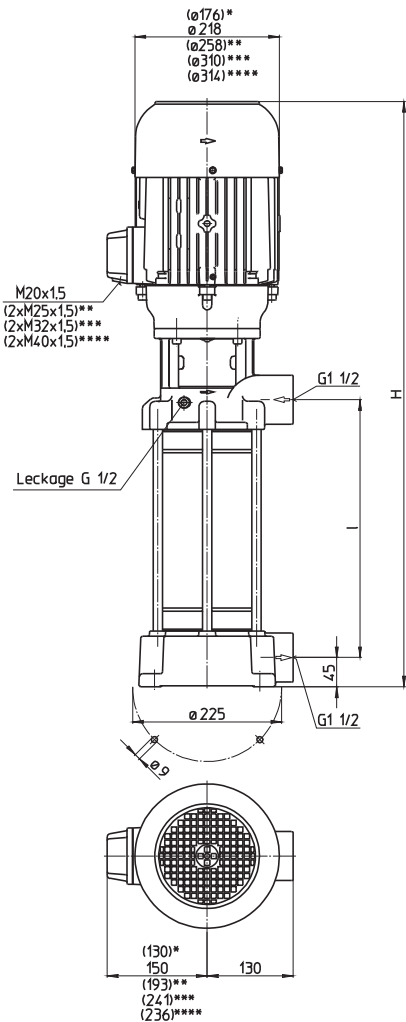


FH14

Closed impellers

60 Hz

FH1402...1412



- *) Dimensions for FH1402
- **) Dimensions for FH1405...1407
- ***) Dimensions for FH1408...1410
- ****) Dimensions for FH1411...1412

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1402B18	250/38	702	212	48	2.94	460	60	5.1	3480
FH1403B28	250/58	837	308	62	4.55	460	60	7.9	3520
FH1404B28	250/77	867	308	68	6.3	460	60	10.4	3510
FH1405B38	250/96	1040	404	98	8.6	460	60	13.7	3550
FH1406B38	250/111			99					
FH1407B47	250/128	1136	500	109	10.3	460	60	15.8	3550
FH1408B47	250/147	1144	500	127	12.6	460	60	19.5	3560
FH1409B57	250/165	1240	596	131	15.0	460	60	23.6	3560
FH1410B57	250/184			133					
FH1411B66	250/203	1641	692	161	17.3	460	60	27	3555
FH1412B66	250/222			164					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Applications

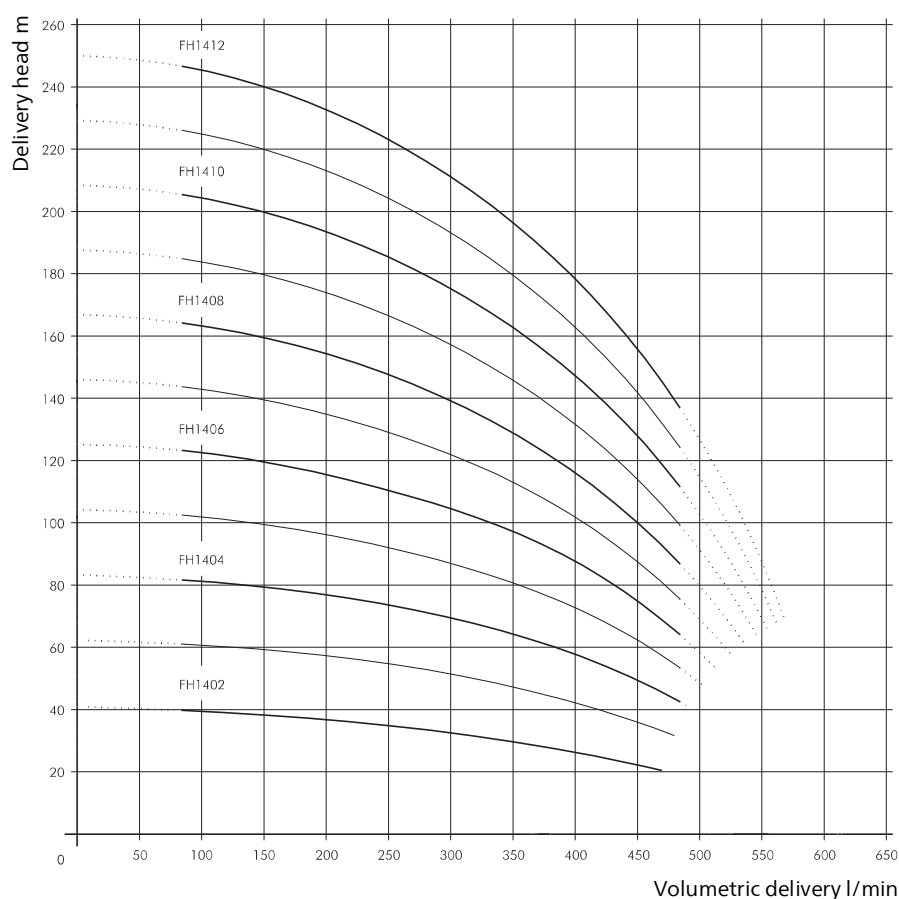
Types of fluid
Industry water
coolants
cooling/cutting oils
Kinematic viscosity
...25 mm²/s (25 cSt)
Pumping temperature
0...80° C

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)

FH1402	66 dBA
FH1403...FH1404	74 dBA
FH1405...FH1407	77 dBA
FH1408...FH1410	79 dBA
FH1411...FH1412	81 dBA



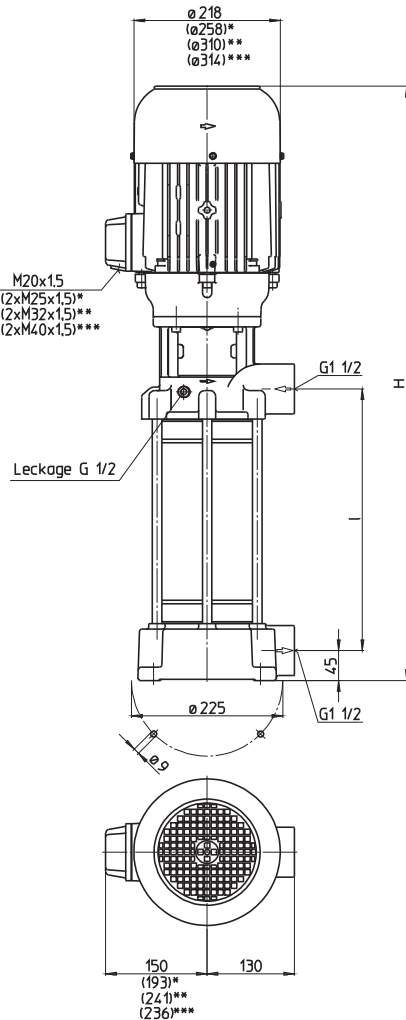
Pressure Boosting Pumps

FH17

Closed impellers

60 Hz

FH1702...1711



- *) Dimensions for FH1704...1705
- **) Dimensions for FH1706...1708
- ***) Dimensions for FH1709...1711

Type	Vol. del. at manom. del. head l/min / m	Height H mm	Length l mm	Weight kg	Power kW	Voltage 3 ~ V	Fre- quen- cy Hz	Current A	Speed 1/min
FH1702B18	300/37	741	212	60	3.8	460	60	6.4	3520
FH1703B28	300/58	867	308	66	5.75	460	60	9.5	3520
FH1704B28	300/80	943	308	91	8.6	460	60	13.7	3550
FH1705B38	300/99	1040	404	120	10.3	460	60	15.8	3550
FH1706B38	300/118	1048	404	123	12.6	460	60	19.5	3560
FH1707B47	300/140	1144	500	126	15.0	460	60	23.6	3560
FH1708B47	300/160			128					
FH1709B57	300/180	1545	596	154	17.3	460	60	27	3555
FH1710B57	300/200	1594	596	173	21.3	460	60	32	3555
FH1711B66	300/219	1690	692	175					

Pressure Boosting Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.

See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Applications

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

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Noise level (Motor only; + 3 dBA)

FH1702...FH1703	74 dBA
FH1704...FH1705	77 dBA
FH1706...FH1708	79 dBA
FH1709...FH1711	81 dBA

