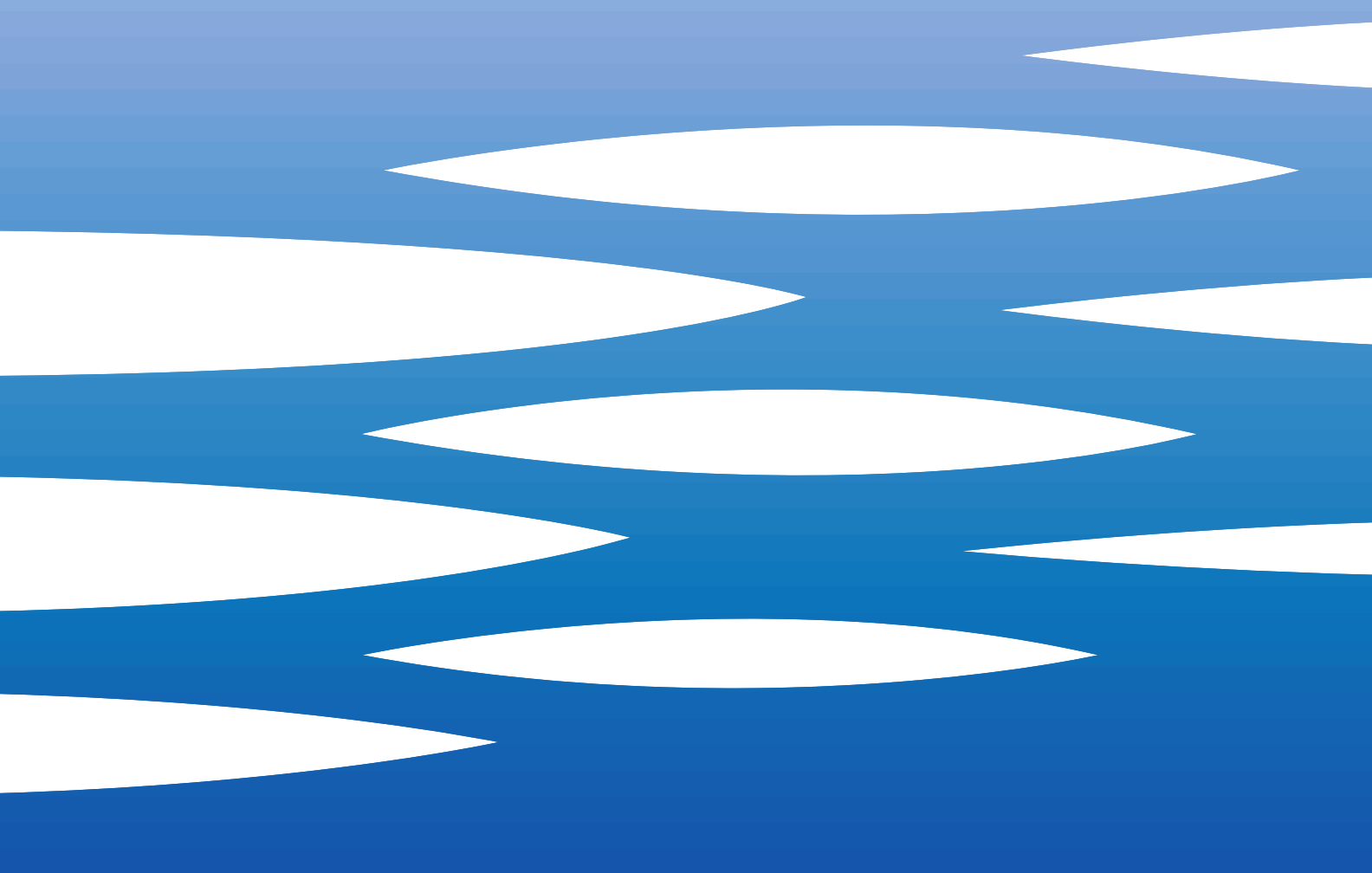




**EBARA**



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## SPECIFICATIONS

50 Hz

Rev. 0

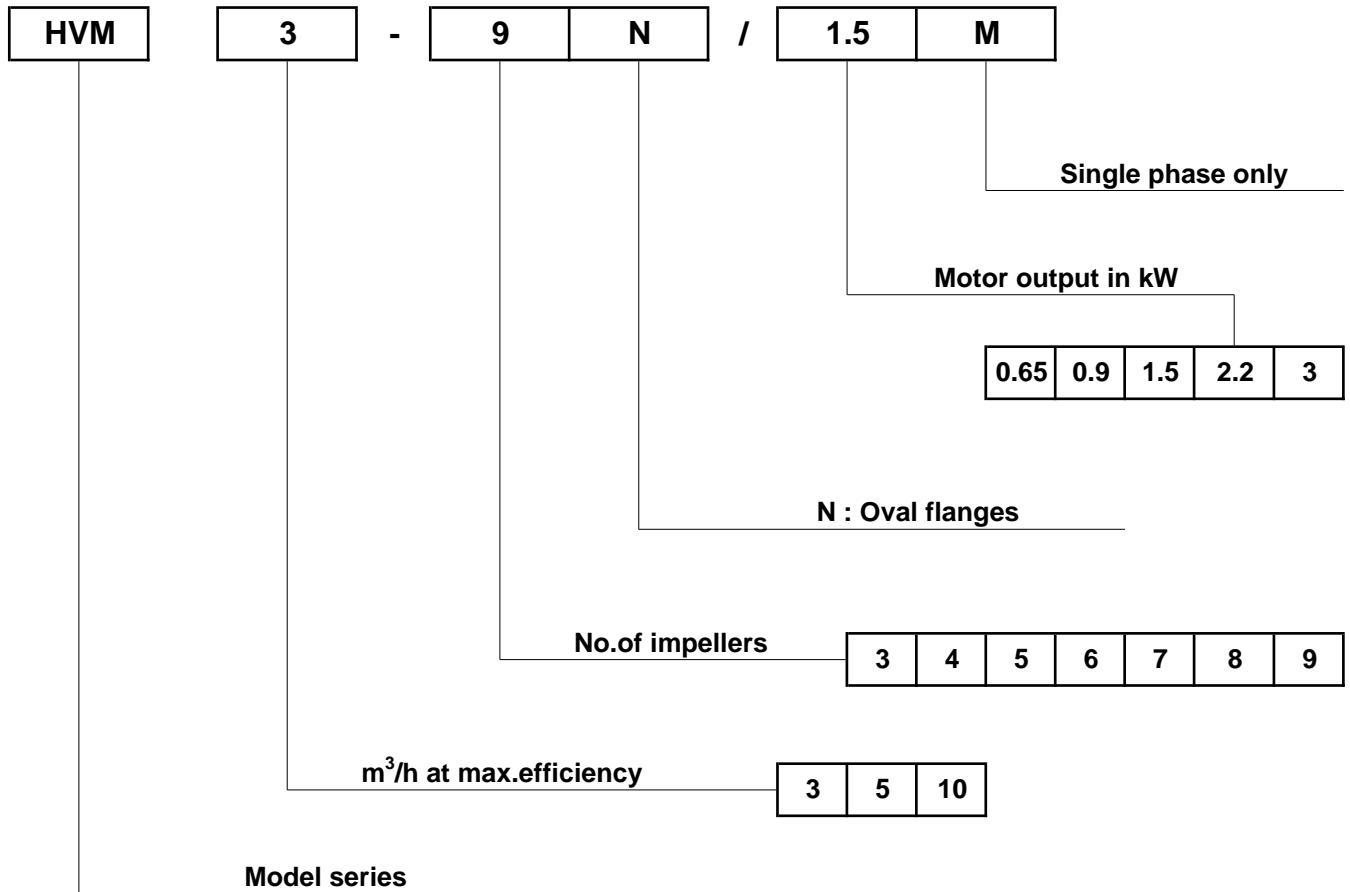
PUMP		
Liquid Handled	Type of liquid	Water, moderate aggressive solutions
	Max temperature	[°C] 90
	Min temperature	[°C] -10
	Max. chlorine content	500 ppm
Maximum pressure		[MPa] 1
Construction	Impeller	Closed centrifugal type
	Motor bearings	Bearing with contact seal
	Pump bearing	Type : Sleeve Shaft sleeve : EN 1.4460 (AISI 329) Bearing : Ceramic
Pipe Connection	Suction/Discharge	<b>HVM 3</b> Ø 32 / Ø 32
		<b>HVM 5</b> Ø 32 / Ø 32
		<b>HVM 10</b> Ø 40 / Ø 40
	Counterflange - supplied as standard (threads according ISO 228)	<b>HVM 3</b> G 1 - G 1 <b>HVM 5</b> G 1 1/4 - G 1 1/4 <b>HVM 10</b> G 1 1/2 - G 1 1/2
Material	Bottom casing	Cast iron EN-GJL 250 EN1561 (Cataphoresis painting)
	Outer casing	EN 1.4301 (AISI 304)
	Impeller	EN 1.4301 (AISI 304)
	Intermediate casing	EN 1.4301 (AISI 304)
	O-Rings	NBR
	Casing cover	EN 1.4301 (AISI 304)
	Shaft seal	Ceramic/Carbon/NBR
	Liner ring	EN 1.4301 (AISI 304) + PTFE
	Shaft (wet extension)	EN 1.4301 (AISI 304)
	Bracket	Cast iron EN-GJL 250 EN1561
Applicable standard of test		ISO 9906 - Annex A

MOTOR		
Type	Electric asynchronous TEFC	
	Single Phase	Three Phase
No. of Poles	2	
Rotation speed [rpm]	≈ 2850	
Insulation Class	F	
Max ambient temperature [°C]	40	
Protection degree	IP 55	
Power rating [kW]	0.65 ÷ 2.2	0.65 ÷ 3.0
	[HP] 0.9 ÷ 3.0	0.9 ÷ 4.0
Frequency [Hz]	50	
Voltage [V]	230 ±10%	230/400 ±10%
Capacitor	Built in	-
Overload protection	Built in	Provided by the user
Casing material	Aluminium	
Dimensions of cable entry	PG11 - M20x1.5	PG11 - PG13.5

## TYPE KEY

50 Hz

Rev. 0



## PERFORMANCE CURVES

The specifications below qualify the curves shown on the following pages.

- ◆ Tolerances according to ISO 9906 Annex A
- ◆ The curves refer to effective speed of asynchronous motors at 50 Hz
- ◆ Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of  $\nu = 1 \text{ mm}^2/\text{s}$  (1 cSt)
- ◆ The NPSH curve is an average curve obtained in the same conditions of performance curves. During the pump selection, consider to get a safety margin of at least 1 m.
- ◆ The continuous curves indicate the recommended working range. The dotted curve is only a guide.
- ◆ In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.
- ◆ Symbols explanation:
  - Q = volume flow rate
  - H = total head
  - $P_2$  = pump power input (shaft power)
  - $\eta$  = pump efficiency
  - NPSH = net positive suction head required by the pump

## SELECTION CHART

50 Hz

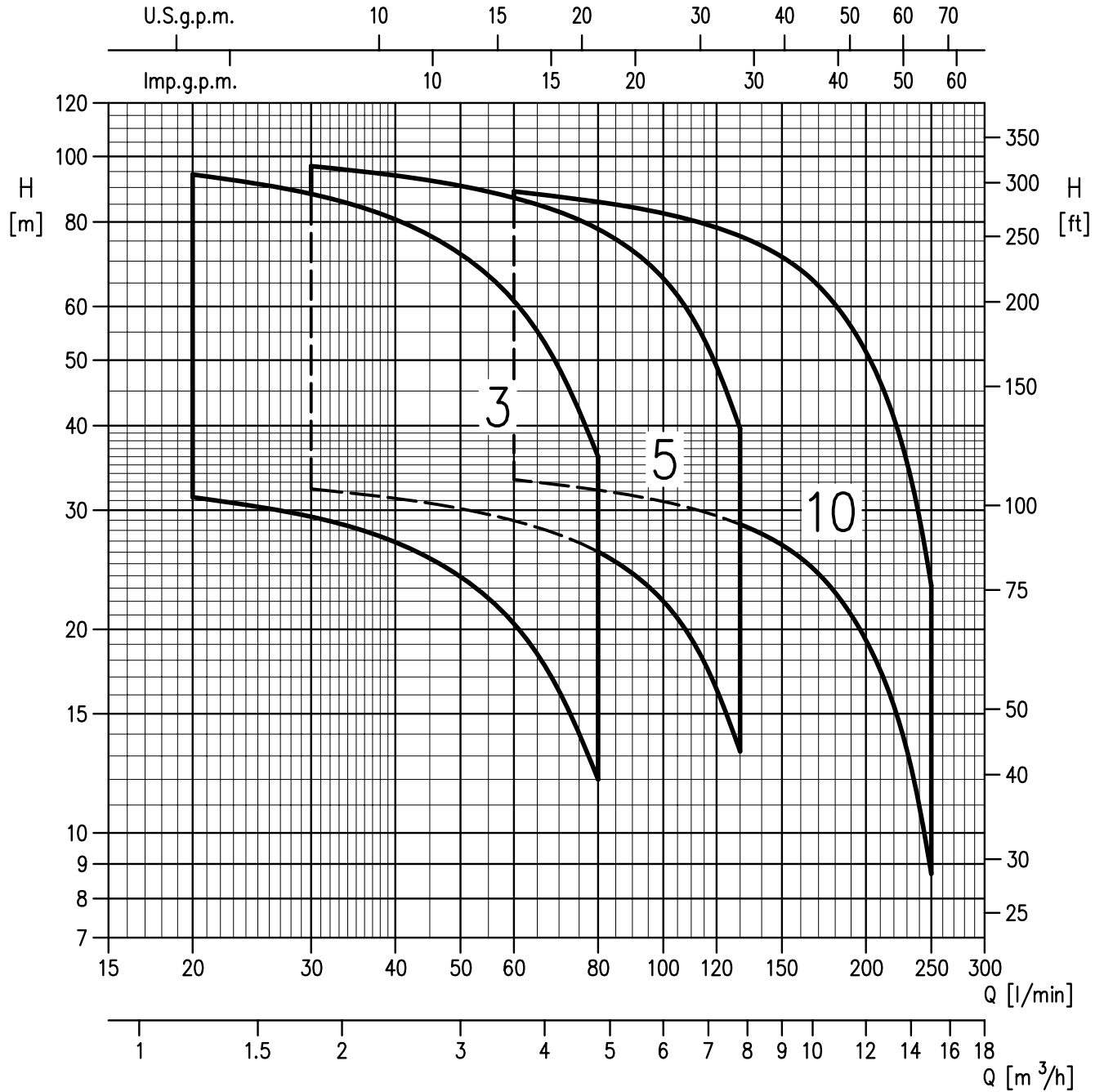
Rev. 0

Pump type <b>HVM</b>		Motor Power		Q=Capacity											
				l/min	0	20	30	45	60	80	100	130	160	200	250
Single phase	Three phase	kW	HP	m <sup>3</sup> /h	0	1.2	1.8	2.7	3.6	4.8	6.0	7.8	9.6	12	15
H=Total manometric head in meters															
3-3N/0.65M	3-3N/0.65	0.65	0.9	33.9	31.4	29.3	25.5	20.4	12						
3-4N/0.65M	3-4N/0.65	0.65	0.9	45	42	39.1	34	27.2	16						
3-5N/0.9M	3-5N/0.9	0.9	1.2	56.5	52.5	49	42.5	34	20						
3-6N/0.9M	3-6N/0.9	0.9	1.2	68	62.5	58.5	51	41	24						
3-7N/1.5M	3-7N/1.5	1.5	2	79	73	68.5	59.5	47.5	28						
3-8N/1.5M	3-8N/1.5	1.5	2	90.5	83.5	78	68	54.5	32						
3-9N/1.5M	3-9N/1.5	1.5	2	102	94	88	76.5	61	36						
5-3N/0.65M	5-3N/0.65	0.65	0.9	34.5		32.3	30.7	29	26	22	13.2				
5-4N/0.9M	5-4N/0.9	0.9	1.2	46		43	41	38.6	34.7	29.4	17.6				
5-5N/1.5M	5-5N/1.5	1.5	2	57.5		54	51	48.5	43.5	36.7	22				
5-6N/1.5M	5-6N/1.5	1.5	2	69		64.5	61.5	58	52	44	26.4				
5-7N/1.5M	5-7N/1.5	1.5	2	80.5		75.5	71.5	67.5	61	51.5	30.8				
5-8N/2.2M	5-8N/2.2	2.2	3	92		86	82	77	69.5	58.5	35.2				
5-9N/2.2M	5-9N/2.2	2.2	3	104		97	92	87	78	66	39.6				
10-3N/1.5M	10-3N/1.5	1.5	2	36				33.3	32.1	30.9	28.6	25.5	19.3	8.7	
10-4N/1.5M	10-4N/1.5	1.5	2	48				44.5	43	41	38.1	34	25.7	11.6	
10-5N/2.2M	10-5N/2.2	2.2	3	60				55.5	53.5	51.5	47.5	42.5	32.1	14.5	
10-6N/2.2M	10-6N/2.2	2.2	3	72				66.5	64.5	62	57	51	38.5	17.4	
-	10-7N/3	3	4	84				77.5	75	72	66.5	59.5	45	20.3	
-	10-8N/3	3	4	96				89	85.5	82.5	76	68	51.5	23.2	

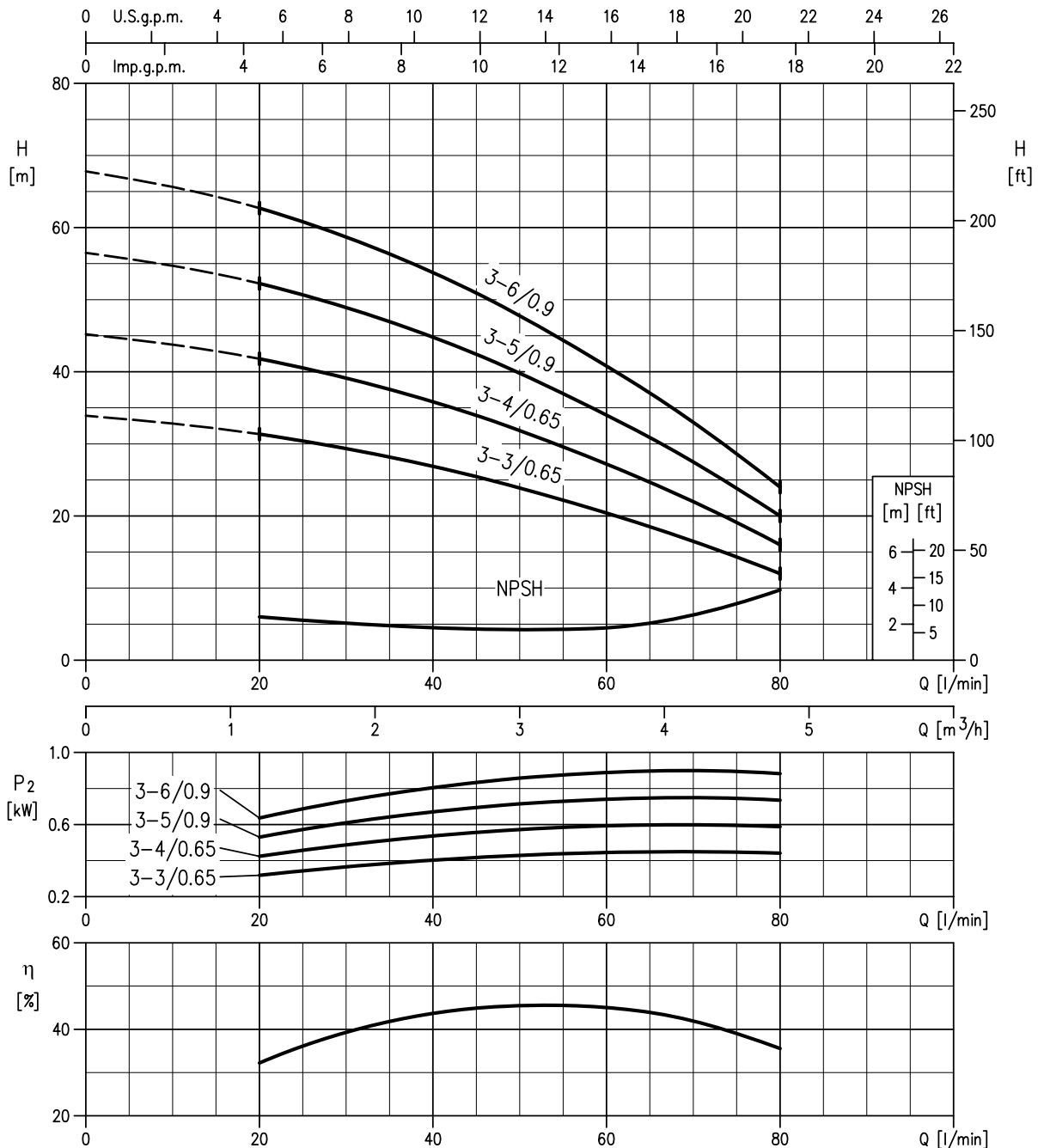
SELECTION CHART

50 Hz

Rev. 0

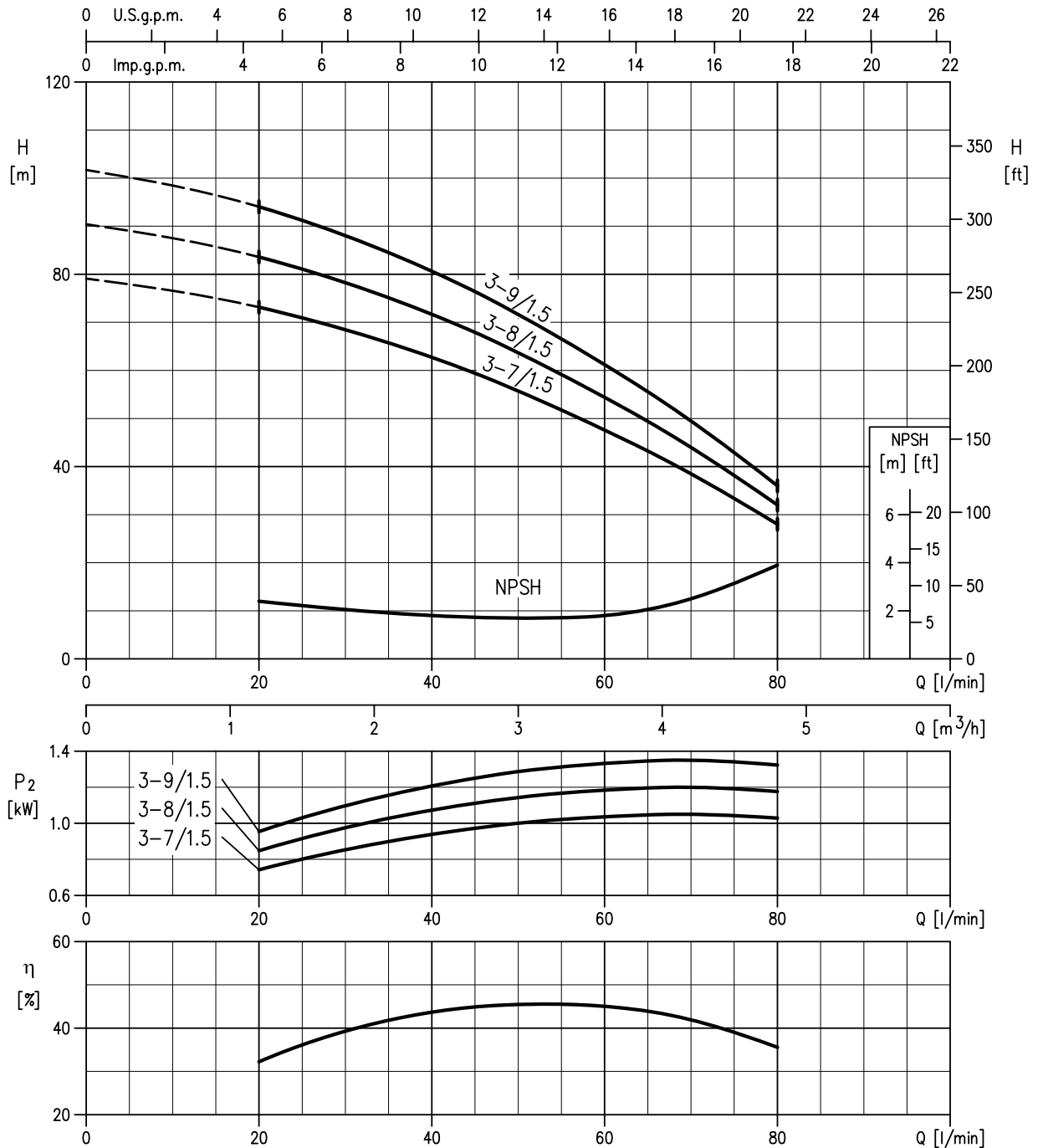


HVM 3-6/0.9 ( 0.90 kW )  
 -5/0.9 ( 0.90 kW )  
 -4/0.65 ( 0.65 kW )  
 -3/0.65 ( 0.65 kW )



Impeller diameter : 98.5 mm  
 Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Tests standard : ISO 9906 Annex A

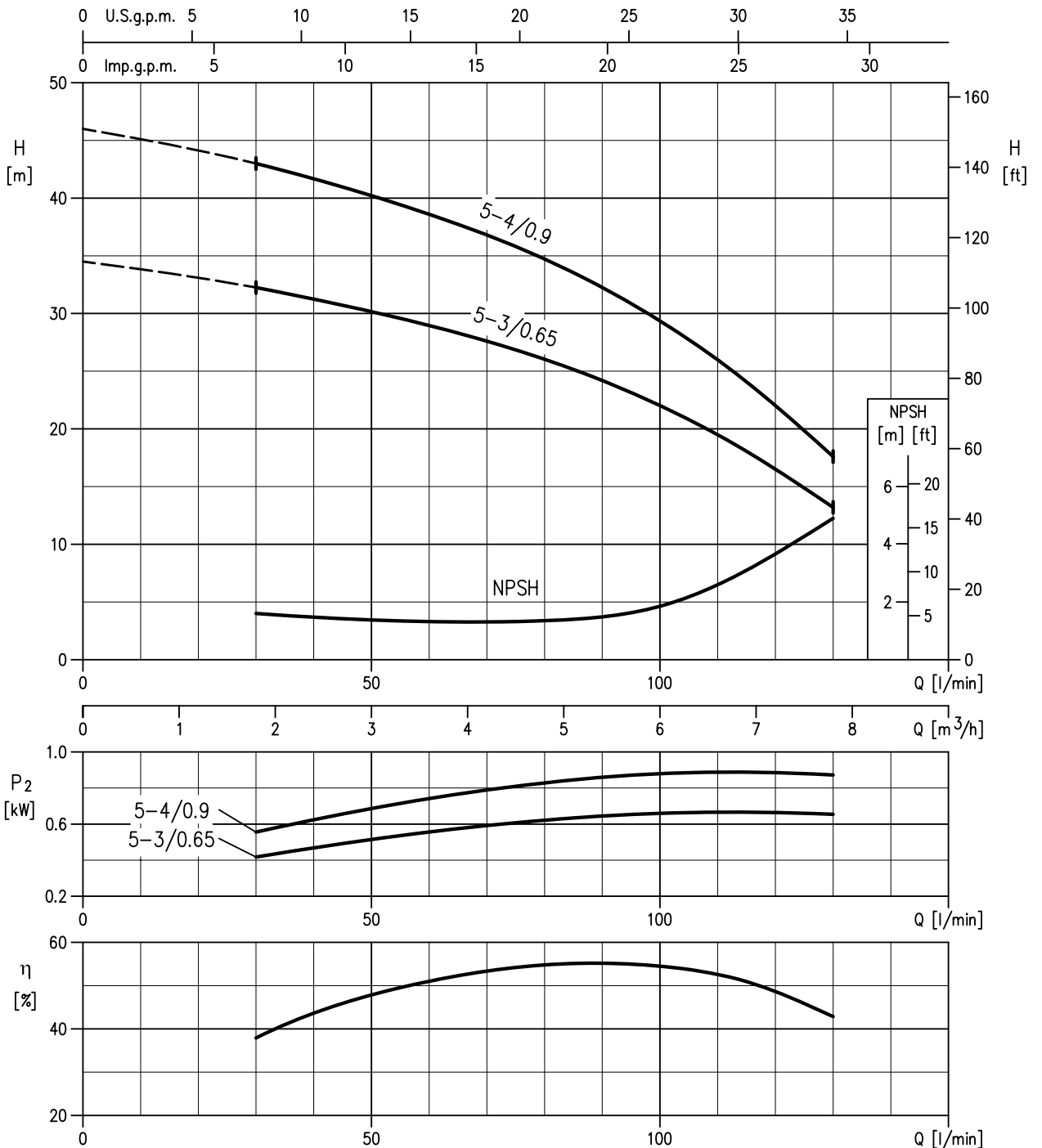
HVM 3-9/1.5 ( 1.5 kW )  
 -8/1.5 ( 1.5 kW )  
 -7/1.5 ( 1.5 kW )



Impeller diameter : 98.5 mm  
 Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Tests standard : ISO 9906 Annex A

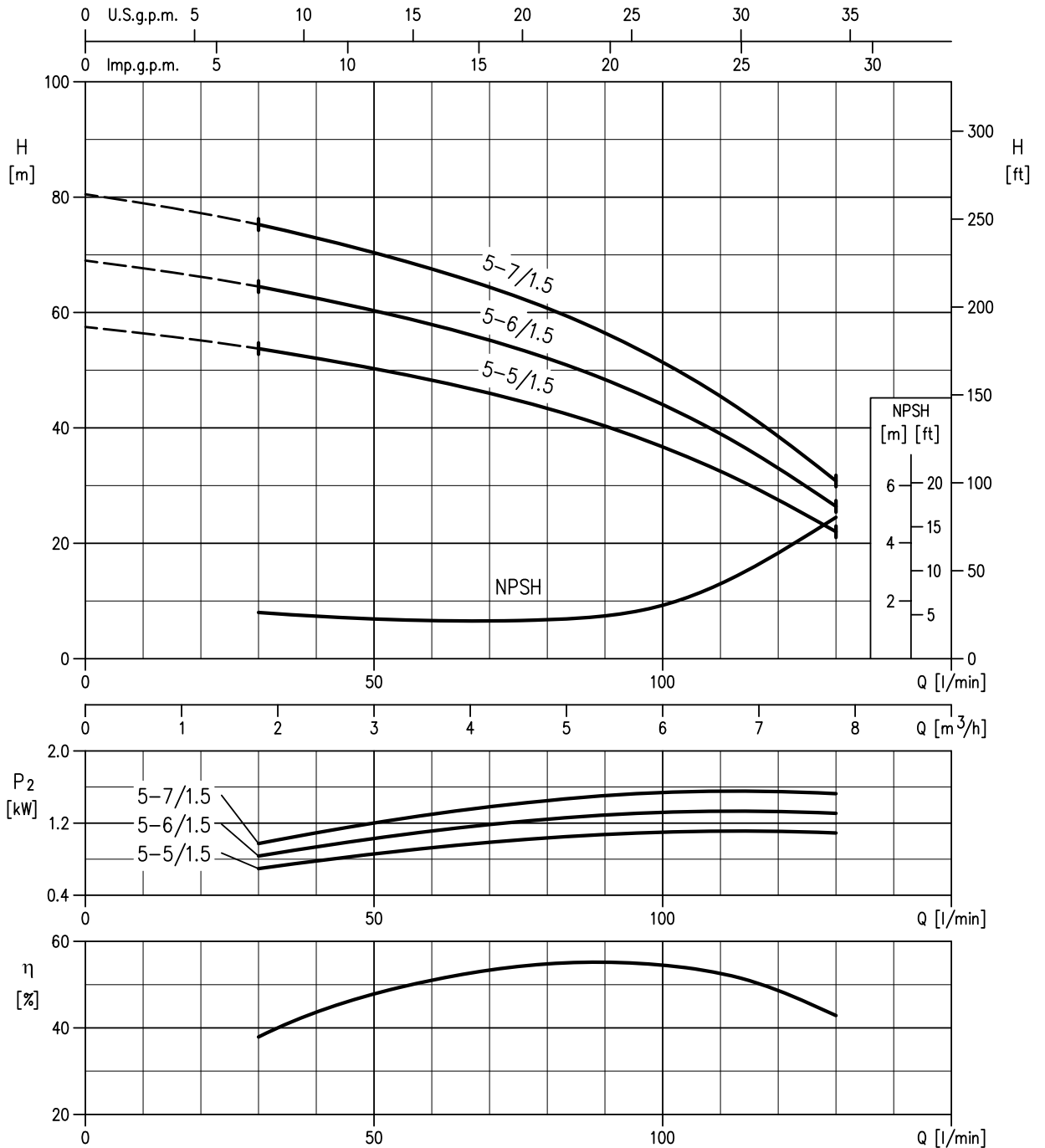


HVM 5 -4/0.9 ( 0.90 kW )  
 -3/0.65 ( 0.65 kW )



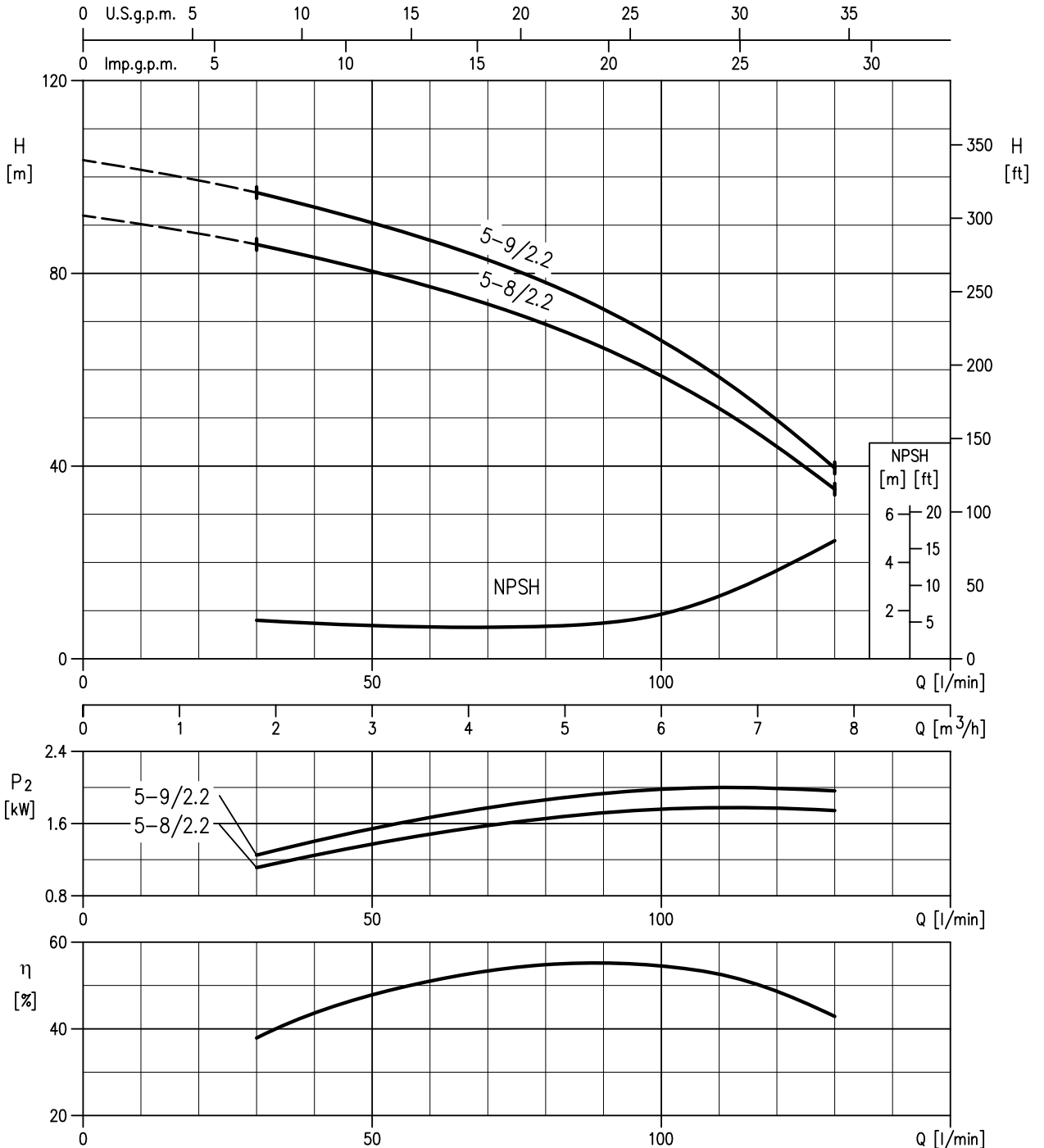
Impeller diameter : 97 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A

HVM 5 -7/1.5 ( 1.5 kW )  
 -6/1.5 ( 1.5 kW )  
 -5/1.5 ( 1.5 kW )



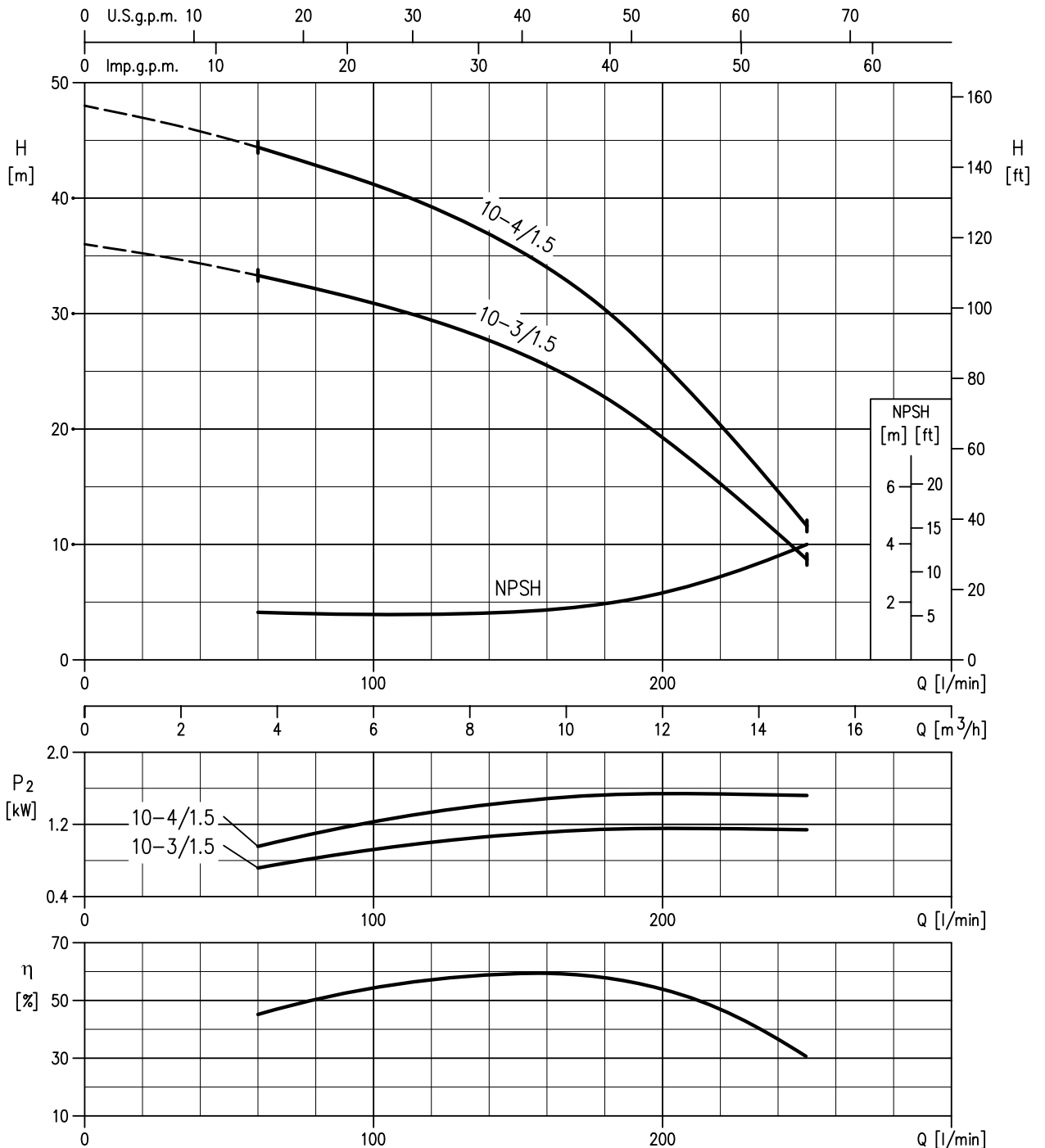
Impeller diameter : 97 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A

HVM 5 -9/2.2 ( 2.2 kW )  
 -8/2.2 ( 2.2 kW )



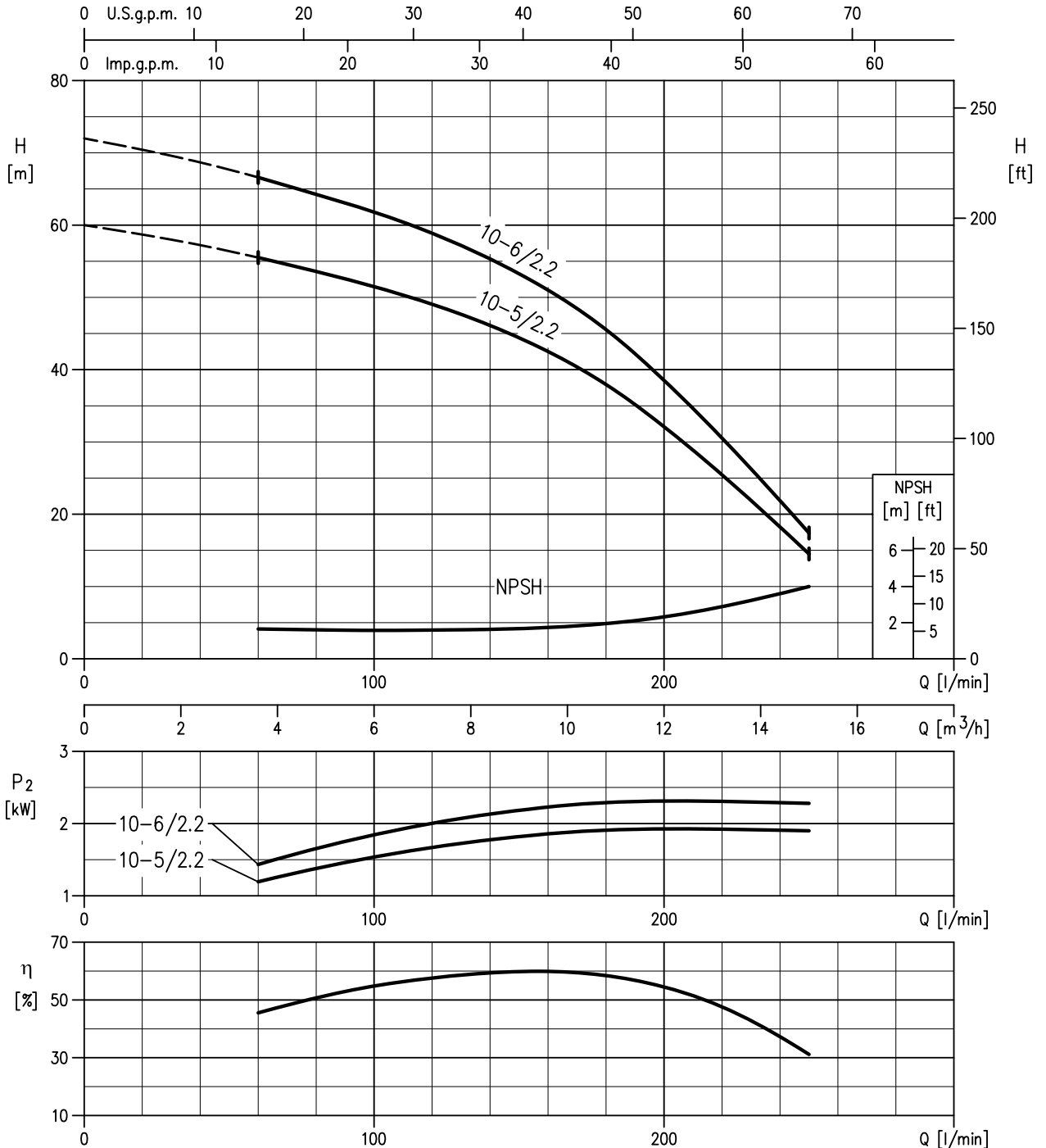
Impeller diameter : 97 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A

HVM 10 -4/1.5 ( 1.5 kW )  
 -3/1.5 ( 1.5 kW )



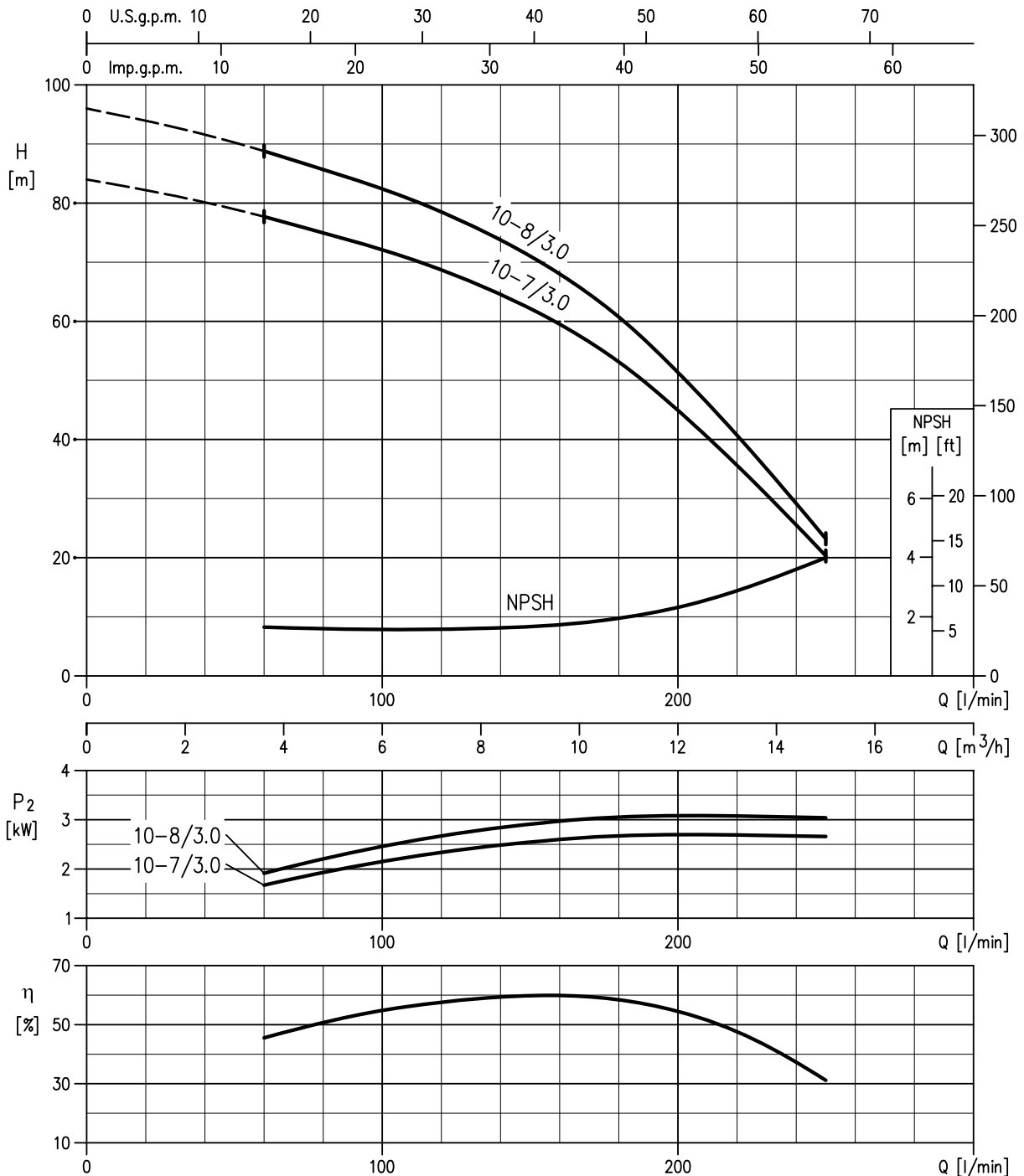
Impeller diameter : 100.5 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A

HVM 10 -6/2.2 ( 2.2 kW )  
 -5/2.2 ( 2.2 kW )

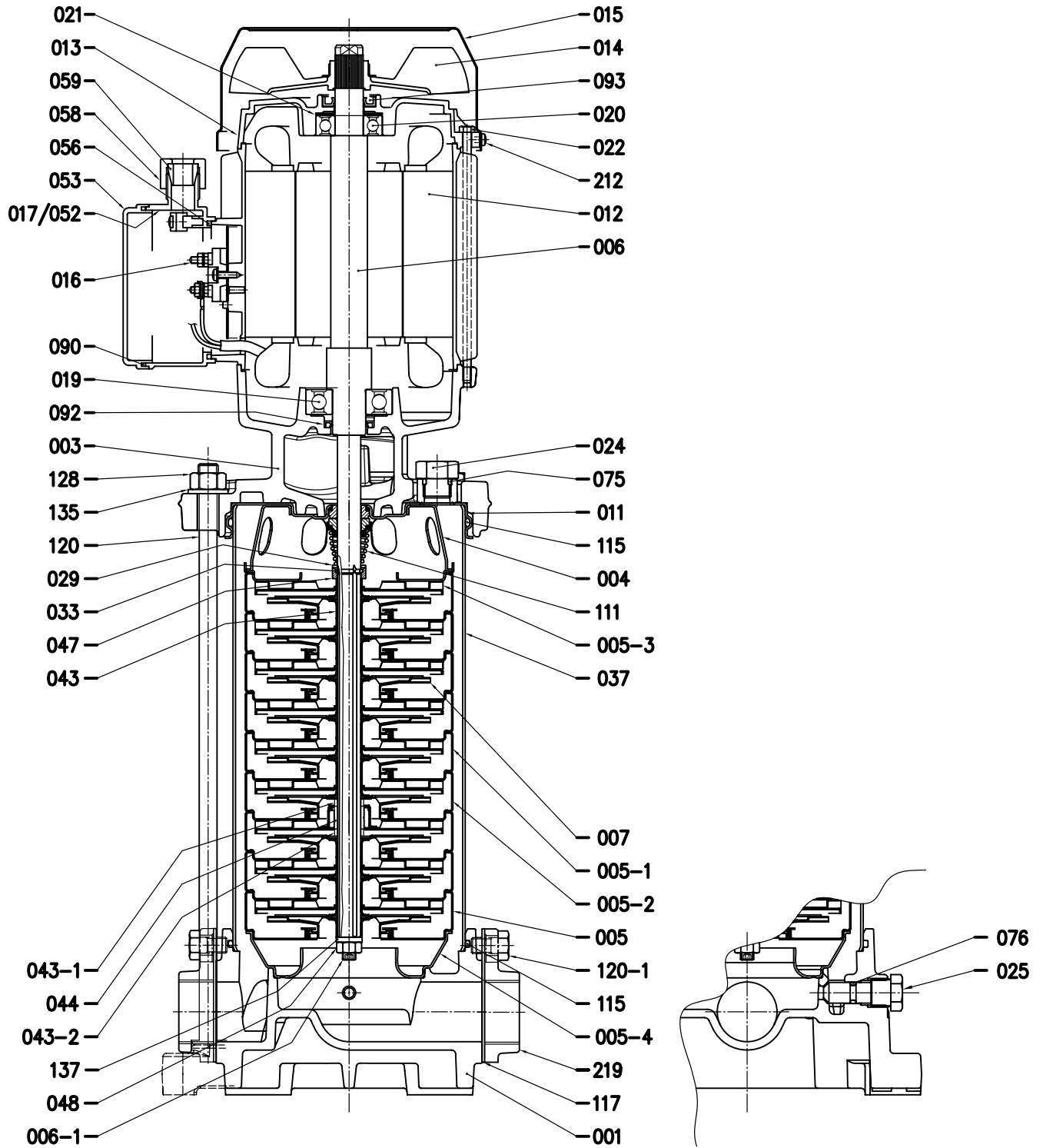


Impeller diameter : 100.5 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A

HVM 10 -8/3 ( 3.0 kW )  
 -7/3 ( 3.0 kW )



Impeller diameter : 100.5 mm  
 Rotation speed ≈ 2850 min<sup>-1</sup>  
 Tests standard : ISO 9906 Annex A



N°	PART NAME	MATERIAL	DIMENSION	STANDARD	N. FOR 1 UNIT
001	Casing	Cast Iron EN-GJL 250 EN1561			1
003	Bracket	Cast Iron EN-GJL 250 EN1561			1
004	Discharge cover	EN 1.4301 (AISI 304)			1
005	Intermediate casing (suction)	EN 1.4301 (AISI 304)+PTFE			1
005-1	Intermediate casing	EN 1.4301 (AISI 304)+PTFE			[1]
005-2	Intermediate casing (bearing)	EN 1.4301 (AISI 304)+PTFE+Ceramic			[1]
005-3	Discharge casing	EN 1.4301 (AISI 304)+PTFE			1
005-4	Suction baffle	EN 1.4301 (AISI 304)			1
006	Shaft with rotor	-			1
006-1	Pump Shaft	EN 1.4301 (AISI 304)			1
007	Impeller	EN 1.4301 (AISI 304)			[1]
011	Casing cover	EN 1.4301 (AISI 304)			1
012	Motor frame with stator	-			1
013	Motor cover	Aluminium			1
014	Fan	Polyamide			1
015	Fan cover	Fe P04 Zinc-coated			1
016	Terminal board	-			1
017	Terminal box cover	Aluminium			[1]
019	Bearing	-			1
020	Bearing	-			1
021	Adjusting ring	Steel C70			1
022	Tie rod	Fe 42 Zinc-coated			4
024	Plug	EN 1.4301 (AISI 304)			1
025	Plug	EN 1.4301 (AISI 304)			1
029	Washer for mechanical seal	EN 1.4301 (AISI 304)			1
033	Ring	EN 1.4301 (AISI 304)			2
037	Outer casing	EN 1.4301 (AISI 304)			1
043	Impeller spacer	EN 1.4301 (AISI 304)			[1]
043-1	Shaft sleeve (adjustment) [1]	EN 1.4301 (AISI 304)			[1]
043-2	Shaft sleeve (adjustment) [1]	EN 1.4301 (AISI 304)			[1]
044	Shaft sleeve (bearing)	EN 1.4460 (AISI 329)			[1]
047	Ring holder	EN 1.4301 (AISI 304)			1
048	Nut	EN 1.4301 (AISI 304)	M8	UNI 5588	1
052	Capacitor box	Polypropylene			[1]
053	Cover box	Polypropylene			[1]
056	Box gasket	NBR			1
058	Ring nut	-			[1]
059	Conic gasket	NBR			[1]
075	O-ring	NBR	13.2x2.62	OR 117	1
076	O-ring	NBR	7.59x2.62	OR 3030	1
090	Cover box gasket	NBR			[1]
092	Lip seal	0.65-0.9 kW	-	17x32x6	1
		1.5-2.2 kW	-	20x30x4	1
		2.2M-3 kW	-	25x40x7	1
093	Lip seal	0.65-0.9 kW	-	15x30x5	1
		1.5-2.2 kW	-	17x32x7	1
		2.2M-3 kW	-	25x40x7	1
111	Mechanical seal	Ceramic/Carbon/NBR	see pag. 303		1
115	O-ring	NBR	139.3x3.53	OR 4550	2
117	Flange gasket	EPDM			2
120	Tie rod	Fe 42 Zinc-coated			4
120-1	Screw for counterflange	Zincated steel			4
128	Nut for tie rod	Zincated steel	M12	UNI 5588	4
135	Washer	Zincated steel	13x24x2.5	UNI 6592	4
137	Shaft washer	EN 1.4301 (AISI 304)			1
212	Screw for fan cover	Zincated steel			4
219	Counter flange	Zincated steel			2

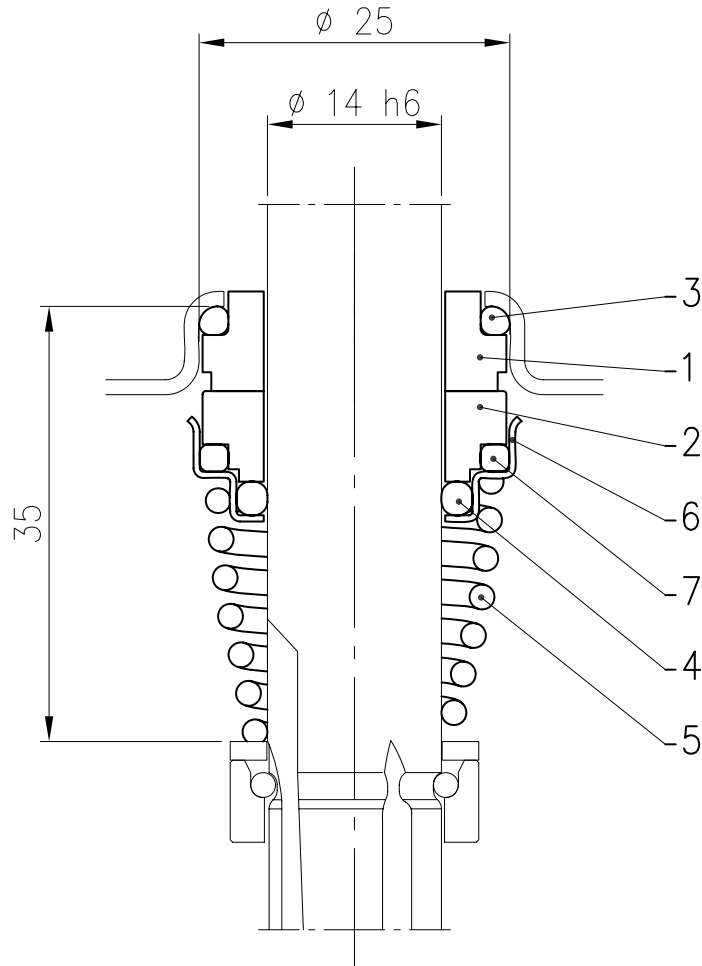
Counterflange kit on request, see p.304

[1] See table pag. 302



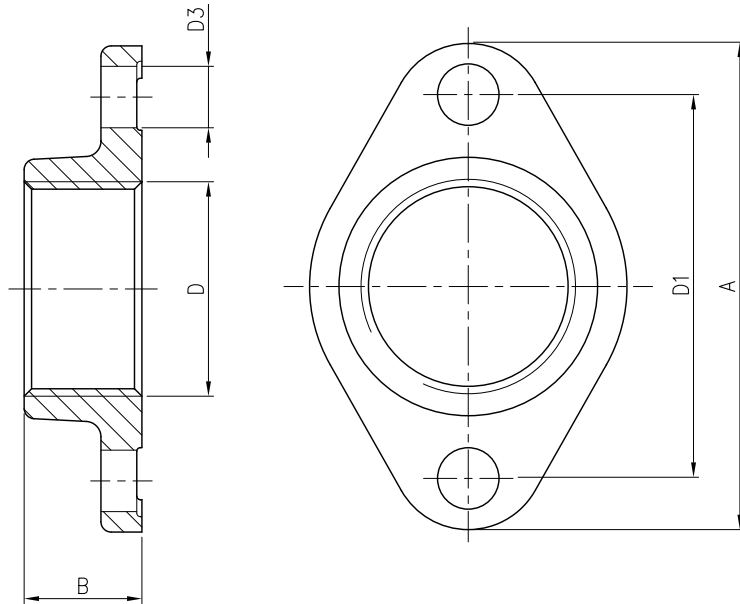
Pump type	Quantity for model												
	005-1	005-2	007	017	043	043-1	043-2	044	052	053	058	059	090
HVH 3-3N/0.65 M	1	-	3	-	4	-	-	-	1	1	1	1	1
HVH 3-3N/0.65	1	-		1	4	-	-	-	-	-	-	-	-
HVH 3-4N/0.65 M	2	-	4	-	6	-	-	-	1	1	1	1	1
HVH 3-4N/0.65	2	-		1	6	-	-	-	-	-	-	-	-
HVH 3-5N/0.9 M	3	-	5	-	8	-	-	-	1	1	1	1	1
HVH 3-5N/0.9	3	-		1	8	-	-	-	-	-	-	-	-
HVH 3-6N/0.9 M	4	-	6	-	10	-	-	-	1	1	1	1	1
HVH 3-6N/0.9	4	-		1	10	-	-	-	-	-	-	-	-
HVH 3-7N/1.5 M	4	1	7	-	10	1	1	1	1	1	1	1	1
HVH 3-7N/1.5	4	1		1	10	1	1	1	-	-	-	-	-
HVH 3-8N/1.5 M	5	1	8	-	12	1	1	1	1	1	1	1	1
HVH 3-8N/1.5	5	1		1	12	1	1	1	-	-	-	-	-
HVH 3-9N/1.5 M	6	1	9	-	14	1	1	1	1	1	1	1	1
HVH 3-9N/1.5	6	1		1	14	1	1	1	-	-	-	-	-
HVH 5-3N/0.65 M	1	-	3	-	4	-	-	-	1	1	1	1	1
HVH 5-3N/0.65	1	-		1	4	-	-	-	-	-	-	-	-
HVH 5-4N/0.9 M	2	-	4	-	6	-	-	-	1	1	1	1	1
HVH 5-4N/0.9	2	-		1	6	-	-	-	-	-	-	-	-
HVH 5-5N/1.5 M	3	-	5	-	8	-	-	-	1	1	1	1	1
HVH 5-5N/1.5	3	-		1	8	-	-	-	-	-	-	-	-
HVH 5-6N/1.5 M	4	-	6	-	10	-	-	-	1	1	1	1	1
HVH 5-6N/1.5	4	-		1	10	-	-	-	-	-	-	-	-
HVH 5-7N/1.5 M	4	1	7	-	10	1	1	1	1	1	1	1	1
HVH 5-7N/1.5	4	1		1	10	1	1	1	-	-	-	-	-
HVH 5-8N/2.2 M	5	1	8	-	12	1	1	1	1	1	1	1	1
HVH 5-8N/2.2	5	1		1	12	1	1	1	-	-	-	-	-
HVH 5-9N/2.2 M	6	1	9	-	14	1	1	1	1	1	1	1	1
HVH 5-9N/2.2	6	1		1	14	1	1	1	-	-	-	-	-
HVH 10-3N/1.5 M	1	-	3	-	4	-	-	-	1	1	1	1	1
HVH 10-3N/1.5	1	-		1	4	-	-	-	-	-	-	-	-
HVH 10-4N/1.5 M	2	-	4	-	6	-	-	-	1	1	1	1	1
HVH 10-4N/1.5	2	-		1	6	-	-	-	-	-	-	-	-
HVH 10-5N/2.2 M	3	-	5	-	8	-	-	-	1	1	1	1	1
HVH 10-5N/2.2	3	-		1	8	-	-	-	-	-	-	-	-
HVH 10-6N/2.2 M	3	1	6	-	8	1	1	1	1	1	1	1	1
HVH 10-6N/2.2	3	1		1	8	1	1	1	-	-	-	-	-
HVH 10-7N/3	4	1	7	1	10	1	1	1	-	-	-	-	-
HVH 10-8N/3	5	1	8	1	12	1	1	1	-	-	-	-	-

**MECHANICAL SEAL**

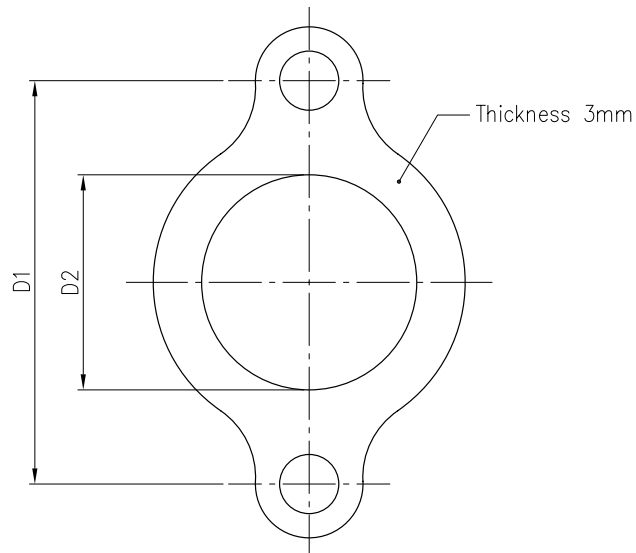


Manufacturer reference	Version	Material						
		1 Stationary seal ring	2 Rotary seal ring	3 O-Ring	4 O-Ring	5 Spring	6 Frame	7 O-Ring
BT Burgmann	Standard	Ceramic	Carbon	NBR	NBR	EN 1.4402 (AISI 316)	EN 1.4301 (AISI 304)	NBR

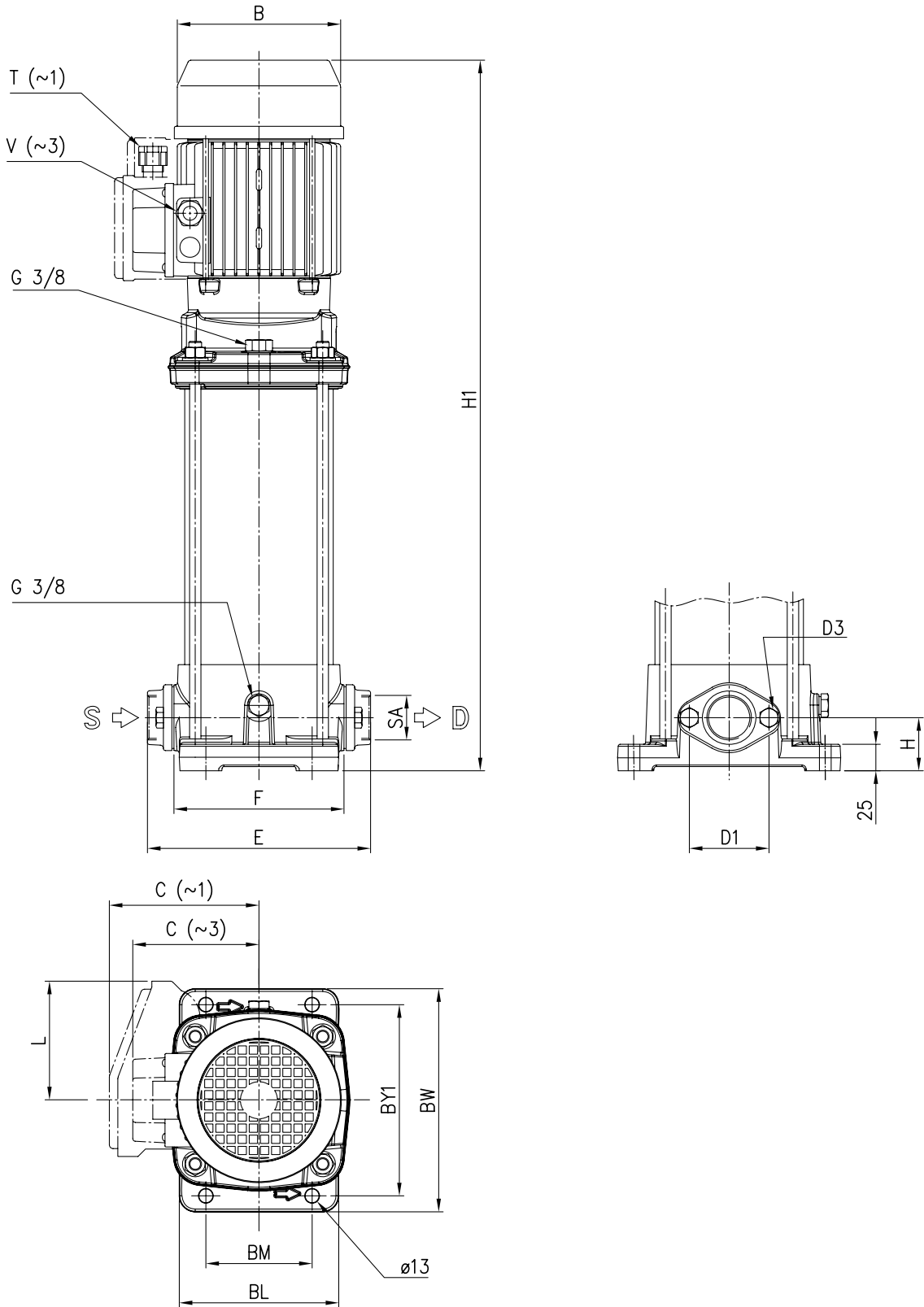
**COUNTERFLANGE**



**GASKET**



DN	COUNTERFLANGE						GASKET		SCREW	
	D	D1	D3	A	B	MATERIAL	D2	MATERIAL	DIMENSIONS	MATERIAL
25	G1	75	12	95	23	ZINCKED STEEL	40	EPDM	M10x20	EN 1.4301 (AISI 304)
32	G1 1/4	75	12	95	23		40		M10x20	
40	G1 1/2	100	15	125	26		45		M12x20	



# MULTISTAGE CENTRIFUGAL PUMPS

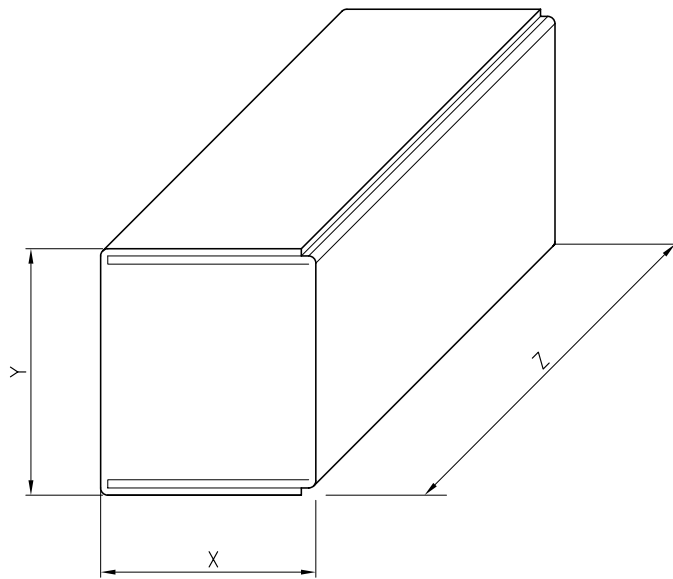
# HVM

## DIMENSIONS

50 Hz

Rev. 0

Pump Type	Dimensions [mm]																	Weight [kgf]
	H	H1	E	F	B	C		L	BM	BL	BW	BY1	SA	D1	D3	T	V	
						(~1)	(~3)									(~1)	(~3)	
HVM 3-3N/0.65 M	50	464	209	160	137	110	-	86.5	100	150	210	180	G 1	75	M10	Pg 11	-	18.6
HVM 3-3N/0.65	50	464	209	160	137	-	102	-	100	150	210	180	G 1	75	M10	-	Pg 11	18.5
HVM 3-4N/0.65 M	50	488	209	160	137	110	-	86.5	100	150	210	180	G 1	75	M10	Pg 11	-	19.3
HVM 3-4N/0.65	50	488	209	160	137	-	102	-	100	150	210	180	G 1	75	M10	-	Pg 11	19.1
HVM 3-5N/0.9 M	50	512	209	160	137	110	-	86.5	100	150	210	180	G 1	75	M10	M20x1.5	-	21.2
HVM 3-5N/0.9	50	512	209	160	137	-	102	-	100	150	210	180	G 1	75	M10	-	Pg 11	21.1
HVM 3-6N/0.9 M	50	536	209	160	137	129	-	106	100	150	210	180	G 1	75	M10	M20x1.5	-	22.4
HVM 3-6N/0.9	50	536	209	160	137	-	102	-	100	150	210	180	G 1	75	M10	-	Pg 11	22.2
HVM 3-7N/1.5 M	50	595	209	160	155	136	-	112	100	150	210	180	G 1	75	M10	M20x1.5	-	25.4
HVM 3-7N/1.5	50	595	209	160	155	-	119	-	100	150	210	180	G 1	75	M10	-	Pg 11	25.2
HVM 3-8N/1.5 M	50	619	209	160	155	136	-	112	100	150	210	180	G 1	75	M10	M20x1.5	-	25.4
HVM 3-8N/1.5	50	619	209	160	155	-	119	-	100	150	210	180	G 1	75	M10	-	Pg 11	25.9
HVM 3-9N/1.5 M	50	643	209	160	155	136	-	112	100	150	210	180	G 1	75	M10	M20x1.5	-	27.4
HVM 3-9N/1.5	50	643	209	160	155	-	119	-	100	150	210	180	G 1	75	M10	-	Pg 11	26.8
HVM 5-3N/0.65 M	50	464	209	160	137	110	-	86.5	100	150	210	180	G 1 1/4	75	M10	Pg 11	-	18.6
HVM 5-3N/0.65	50	464	209	160	137	-	102	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	18.5
HVM 5-4N/0.9 M	50	488	209	160	137	129	-	106	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	20.9
HVM 5-4N/0.9	50	488	209	160	137	-	102	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	20.8
HVM 5-5N/1.5 M	50	547	209	160	155	136	-	112	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	24.1
HVM 5-5N/1.5	50	547	209	160	155	-	119	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	23.6
HVM 5-6N/1.5 M	50	571	209	160	155	136	-	112	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	24.3
HVM 5-6N/1.5	50	571	209	160	155	-	119	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	24.7
HVM 5-7N/1.5 M	50	595	209	160	155	136	-	112	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	26.3
HVM 5-7N/1.5	50	595	209	160	155	-	119	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	25.7
HVM 5-8N/2.2 M	50	675	209	160	172	141	-	112	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	31.5
HVM 5-8N/2.2	50	632	209	160	155	-	119	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	27.8
HVM 5-9N/2.2 M	50	699	209	160	172	141	-	112	100	150	210	180	G 1 1/4	75	M10	M20x1.5	-	32
HVM 5-9N/2.2	50	656	209	160	155	-	119	-	100	150	210	180	G 1 1/4	75	M10	-	Pg 11	27.9
HVM 10-3N/1.5 M	80	547	255	200	155	136	-	112	130	185	250	215	G 1 1/2	100	M12	M20x1.5	-	26.9
HVM 10-3N/1.5	80	547	255	200	155	-	119	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 11	26.1
HVM 10-4N/1.5 M	80	577	255	200	155	136	-	112	130	185	250	215	G 1 1/2	100	M12	M20x1.5	-	27.8
HVM 10-4N/1.5	80	577	255	200	155	-	119	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 11	27.6
HVM 10-5N/2.2 M	80	663	255	200	172	141	-	112	130	185	250	215	G 1 1/2	100	M12	M20x1.5	-	33.6
HVM 10-5N/2.2	80	620	255	200	155	-	119	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 11	30.1
HVM 10-6N/2.2 M	80	693	255	200	172	141	-	112	130	185	250	215	G 1 1/2	100	M12	M20x1.5	-	34.7
HVM 10-6N/2.2	80	650	255	200	155	-	119	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 11	30.5
HVM 10-7N/3	80	723	255	200	172	-	124	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 13.5	34.9
HVM 10-8N/3	80	753	255	200	172	-	124	-	130	185	250	215	G 1 1/2	100	M12	-	Pg 13.5	35.8



Pump Type	Packing [mm]			Weight [kgf]			
	X	Y	Z				
HVM 3-3N/0.65M	290	290	690	19.7			
HVM 3-3N/0.65				19.6			
HVM 3-4N/0.65M				20.4			
HVM 3-4N/0.65				20.2			
HVM 3-5N/0.9M				22.3			
HVM 3-5N/0.9				22.2			
HVM 3-6N/0.9M				23.5			
HVM 3-6N/0.9				23.3			
HVM 3-7N/1.5M				26.5			
HVM 3-7N/1.5				26.3			
HVM 3-8N/1.5M				26.5			
HVM 3-8N/1.5				27			
HVM 3-9N/1.5M				28.5			
HVM 3-9N/1.5				27.9			
HVM 5-3N/0.65M	290	290	690	19.7			
HVM 5-3N/0.65				19.6			
HVM 5-4N/0.9M				22			
HVM 5-4N/0.9				21.9			
HVM 5-5N/1.5M				25.2			
HVM 5-5N/1.5				24.7			
HVM 5-6N/1.5M				25.4			
HVM 5-6N/1.5				25.8			
HVM 5-7N/1.5M				27.4			
HVM 5-7N/1.5				26.8			
HVM 5-8N/2.2M				290	290	940	32.8
HVM 5-8N/2.2				290	290	690	28.9
HVM 5-9N/2.2M				290	290	940	33.3
HVM 5-9N/2.2				290	290	940	29.2
HVM 10-5N/1.5M	290	290	690	28			
HVM 10-3N/1.5				27.2			
HVM 10-4N/1.5M				28.9			
HVM 10-4N/1.5				28.7			
HVM 10-5N/2.2M				290	290	940	34.9
HVM 10-5N/2.2				290	290	690	31.2
HVM 10-6N/2.2M				290	290	940	36
HVM 10-6N/2.2							31.8
HVM 10-7N/3							36.2
HVM 10-8N/3							37.1

## MOTOR DATA

50 Hz

Rev. 0

Pump Type	Power		size	Motor		Capacitor		Input power [kW]	Full load current		Locked rotor current	
	kW	HP		Bearing		mF	Vc		[A]		[A]	
				pump side	fan side				230 V	400 V	230 V	400 V
HVM 3-3N/0.65M	0.65	0.9	71	6203-2RSH-C3	6202-2RSH	16	450	0.97	4.5	-	16.2	-
HVM 3-3N/0.65	0.65	0.9	71			-	-	0.85	2.8	1.6	16	9.1
HVM 3-4N/0.65M	0.65	0.9	71			16	450	0.97	4.5	-	16.2	-
HVM 3-4N/0.65	0.65	0.9	71			-	-	0.85	2.8	1.6	16	9.1
HVM 3-5N/0.9M	0.9	1.2	71			31.5	450	1.28	5.7	-	21.7	-
HVM 3-5N/0.9	0.9	1.2	71			-	-	1.24	4.5	2.6	24.8	14.3
HVM 3-6N/0.9M	0.9	1.2	71			31.5	450	1.28	5.7	-	21.7	-
HVM 3-6N/0.9	0.9	1.2	71			-	-	1.24	4.5	2.6	24.8	14.3
HVM 3-7N/1.5M	1.5	2.0	80	6304-2RSH-C3	6203-2RSH	35	450	1.95	8.7	-	40.9	-
HVM 3-7N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 3-8N/1.5M	1.5	2.0	80			35	450	1.95	8.7	-	40.9	-
HVM 3-8N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 3-9N/1.5M	1.5	2.0	80			35	450	1.95	8.7	-	40.9	-
HVM 3-9N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 5-3N/0.65M	0.65	0.9	71	6203-2RSH-C3	6202-2RSH	16	450	0.97	4.5	-	16.2	-
HVM 5-3N/0.65	0.65	0.9	71			-	-	0.85	2.8	1.6	16	9.1
HVM 5-4N/0.9M	0.9	1.2	71			31.5	450	1.28	5.7	-	21.7	-
HVM 5-4N/0.9	0.9	1.2	71			-	-	1.24	4.5	2.6	24.8	14.3
HVM 5-5N/1.5M	1.5	2.0	80	6304-2RSH-C3	6203-2RSH	35	450	1.95	8.7	-	40.9	-
HVM 5-5N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 5-6N/1.5M	1.5	2.0	80			35	450	1.95	8.7	-	40.9	-
HVM 5-6N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 5-7N/1.5M	1.5	2.0	80			35	450	1.95	8.7	-	40.9	-
HVM 5-7N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 5-8N/2.2M	2.2	3.0	90	6305-2RS1-C3	6205-2RSH-C3	50	450	2.92	13	-	62.4	-
HVM 5-8N/2.2	2.2	3.0	80	6304-2RSH-C3	6203-2RSH	-	-	2.65	8	4.6	43.2	24.9
HVM 5-9N/2.2M	2.2	3.0	90	6305-2RS1-C3	6205-2RSH-C3	50	450	2.92	13	-	62.4	-
HVM 5-9N/2.2	2.2	3.0	80	6304-2RSH-C3	6203-2RSH	-	-	2.65	8	4.6	43.2	24.9
HVM 10-3N/1.5M	1.5	2.0	80	6304-2RSH-C3	6203-2RSH	35	450	1.95	8.7	-	40.9	-
HVM 10-3N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 10-4N/1.5M	1.5	2.0	80			35	450	1.95	8.7	-	40.9	-
HVM 10-4N/1.5	1.5	2.0	80			-	-	1.85	5.9	3.4	36	20.8
HVM 10-5N/2.2M	2.2	3.0	90	6305-2RS1-C3	6205-2RSH-C3	50	450	2.92	13	-	62.4	-
HVM 10-5N/2.2	2.2	3.0	80	6304-2RSH-C3	6203-2RSH	-	-	2.65	8	4.6	43.2	24.9
HVM 10-6N/2.2M	2.2	3.0	90	6305-2RS1-C3	6205-2RSH-C3	50	450	2.92	13	-	62.4	-
HVM 10-6N/2.2	2.2	3.0	80	6304-2RSH-C3	6203-2RSH	-	-	2.65	8	4.6	43.2	24.9
HVM 10-7N/3	3.0	4.0	90	6305-2RS1-C3	6205-2RSH-C3	-	-	3.70	10.9	6.3	83	47.9
HVM 10-8N/3	3.0	4.0	90			-	-	3.70	10.9	6.3	83	47.9

NOISE DATA					
Pump Type		Motor			LpA-dB(A)*
Single phase	Three phase	kW	HP	size	
HVM 3-3N/0.65M	HVM 3-3N/0.65	0.65	0.9	71	61
HVM 3-4N/0.65M	HVM 3-4N/0.65				
HVM 5-3N/0.65M	HVM 5-3N/0.65				
HVM 3-5N/0.9M	HVM 3-5N/0.9	0.9	1.2	71	62
HVM 3-6N/0.9M	HVM 3-6N/0.9				
HVM 5-4N/0.9M	HVM 5-4N/0.9				
HVM 3-7N/1.5M	HVM 3-7N/1.5	1.5	2.0	80	68
HVM 3-8N/1.5M	HVM 3-8N/1.5				
HVM 3-9N/1.5M	HVM 3-9N/1.5				
HVM 5-5N/1.5M	HVM 5-5N/1.5				
HVM 5-6N/1.5M	HVM 5-6N/1.5				
HVM 5-7N/1.5M	HVM 5-7N/1.5				
HVM 10-3N/1.5M	HVM 10-3N/1.5				
HVM 10-4N/1.5M	HVM 10-4N/1.5				
-	HVM 5-8N/2.2	2.2	3.0	80	67
-	HVM 5-9N/2.2				
-	HVM 10-5N/2.2				
-	HVM 10-6N/2.2				
HVM 5-8N/2.2M	-	2.2	3.0	90	70
HVM 5-9N/2.2M	-				
HVM 10-5N/2.2M	-				
HVM 10-6N/2.2M	-				
-	HVM 10-7N/3	3.0	4.0	90	71
-	HVM 10-8N/3				

\*Mean value of several measures at 1 m distance around the pump.  
Tolerance  $\pm 2.5$  dB.