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SPECIFICATIONS

50Hz

Rev. J

EVM(.) 3-18

PUMP				
Version		EVMG	EVM	EVML
Liquid Handled	Type of liquid	Clean water, water contains glycol and moderately aggressive fluids	*Drinking water, Clean water, water contains glycol and moderately aggressive fluids	Clean water, water contains glycol and moderately aggressive fluids
	Temperature [°C]	min. -15 max. +120		
	Max solid content	50 ppm (particle size 0.1-0.25 mm or less)		
	Max chlorine ion density	500 ppm		
Maximum working pressure [MPa]		1.6 / 2.5		
[bar]		16 / 25		
Construction	Impeller	Closed centrifugal type		
	Shaft seal type	Mechanical seal		
	Bearing	Sealed ball bearing with permanent grease		
Pipe Connection	Suction	See dimension table		
	Discharge			
Material	Impeller	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Bottom casing	Cast iron	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
	Casing cover	Cast iron	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)
	Shaft	EN 1.4401 (AISI 316)		
	Liner ring	PTFE / EN 1.4301 (AISI 304)		PTFE / EN 1.4401 (AISI 316)
	Motor bracket	Cast iron	Cast iron / EN 1.4301 (AISI 304)	Cast iron / EN 1.4401 (AISI 316)
	Mechanical seal	Silicon Carbide/Carbon/EPDM		Silicon Carbide/Carbon/FPM
	O-ring	EPDM		FPM
Applicable standard of test		ISO 9906 – Annex A		

* Approval for drinking water application
WRAS Approved product
DM174/2004



MOTOR		
Type	Electric - TEFC	
	Single Phase	Three Phase
Efficiency level (Reg. 640/2009)	-	- from 0.37 kW to 0.55 kW IE2 from 0.75 kW to 15 kW IE3 from 7.5 kW to 15 kW
No. of Poles	2	
Rotation speed [min ⁻¹]	≈ 2900	
Insulation Class	F (temperature rise class B)	
Protection degree (CEI EN 60034-5)	IP 55	
Power rating	[kW]	0.37 ÷ 2.2
	[HP]	0.5 ÷ 3.0
Frequency [Hz]	50	
Voltage [V]	230 ±10%	230/400 ±10% (up to 4 kW) 400/690 ±10% (above 5.5 kW)
Over load protection	Provided by the user	
Casing material	Aluminium	
Flange mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (above 5.5 kW)	

SPECIFICATIONS

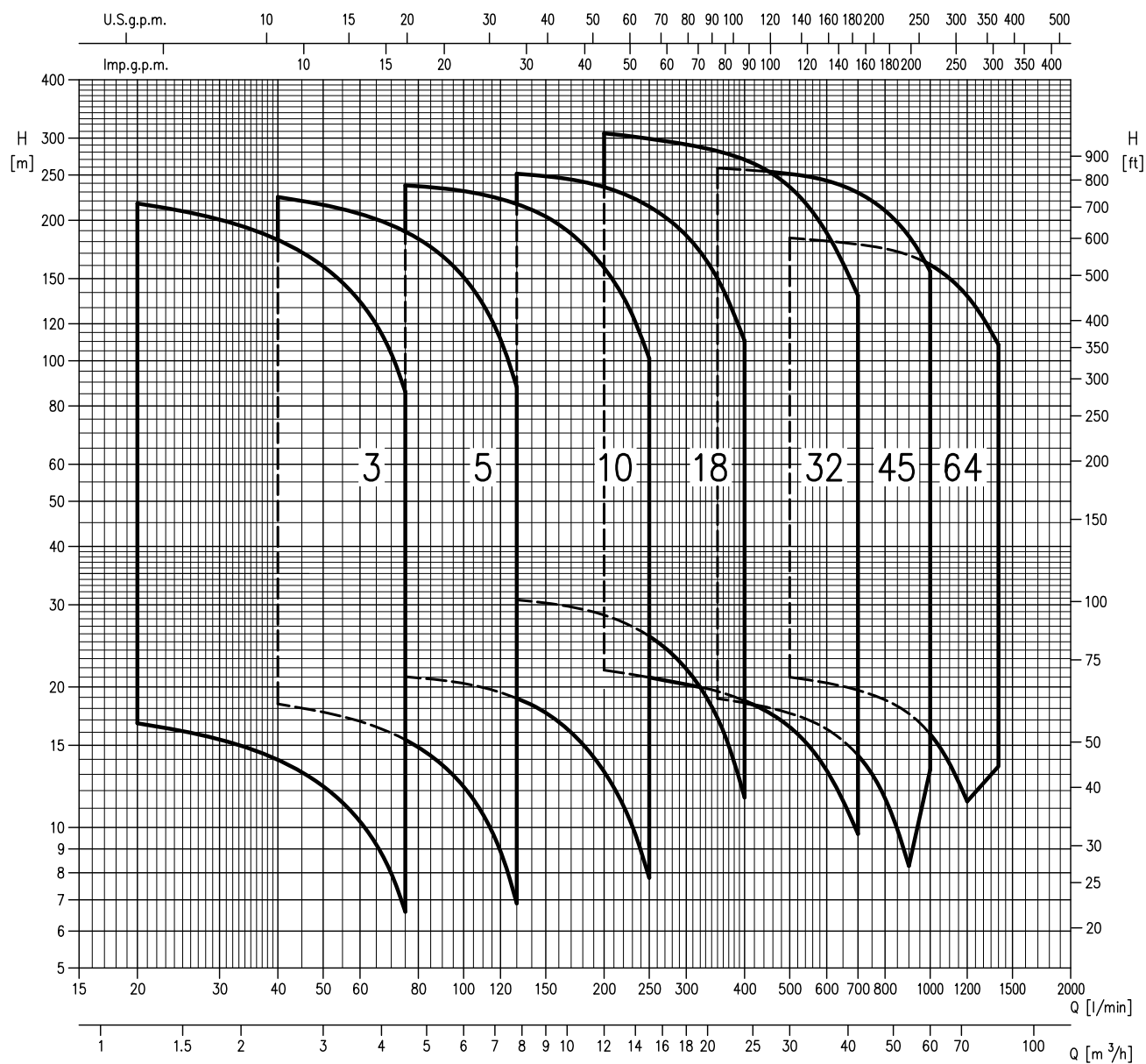
50Hz

Rev. J

EVM(.) 32-64

PUMP					
Version		EVMG	EVM	EVML	
Liquid Handled	Type of liquid	Clean water, water contains glycol and moderately aggressive fluids			
	Temperature [°C]	min. -15 max. +120			
	Max solid content	50 ppm (particle size 0.1-0.25 mm or less)			
	Max chlorine ion density	500 ppm			
Maximum working pressure		[MPa]	1.6 / 3.0		
		[bar]	16 / 30		
Construction	Impeller	Closed centrifugal type			
	Shaft seal type	Mechanical seal			
	Bearing	Sealed ball bearing with permanent grease			
Pipe Connection	Suction	See dimension table			
	Discharge				
Material	Impeller	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	
	Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	
	Bottom casing	Cast iron	ASTMCF8	ASTMCF8M	
	Casing cover	Cast iron	Cast iron + EN 1.4301 (AISI 304)	Cast iron + EN 1.4401 (AISI 316)	
	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	
	Shaft	EN 1.4401 (AISI 316)			
	Liner ring	EVM 32	PTFE / EN 1.4301 (AISI 304)		PTFE / EN 1.4401 (AISI 316)
		EVM 45, 64	PTFE / EN 1.4401 (AISI 316)		
	Motor bracket	Cast iron			
	Mechanical seal	Silicon Carbide/Carbon/FPM			
	O-ring	EPDM		FPM	
Applicable standard of test		ISO 9906 – Annex A			

MOTOR	
Type	Electric - TEFC Three Phase
Efficiency level (Reg. 640/2009)	IE2 from 2.2 kW to 37 kW IE3 from 7.5 kW to 22 kW
No. of Poles	2
Rotation speed [min ⁻¹]	≈ 2900
Insulation Class	F (temperature rise class B)
Protection degree (CEI EN 60034-5)	IP 55
Power rating [kW]	2.2 ÷ 37
[HP]	3.0 ÷ 50
Frequency [Hz]	50
Voltage [V]	230/400 ±10% (up to 4kW) 400/690 ±10% (above 5.5 kW)
Over load protection	Provided by the user
Casing material	Aluminium
Flange mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (above 5.5 kW)



SELECTION CHART

50Hz

Rev. J

EVM(.) 3-18

Pump Type EVM(.)		kW	Motor		Maximum working pressure (MPa)	Q=Capacity													
Single phase	Three phase		HP	Size		l/min	0	20	40	60	75	100	130	150	200	250	300	350	400
		m³/h			0	1.2	2.4	3.6	4.5	6.0	7.8	9	12	15	18	21	24		
		H=Total manometric head in meters																	
3 2N5/0.37 M	3 2N5/0.37	0.37	0.5	71	1.6	18.6	16.7	14.0	10.3	6.6	-	-	-	-	-	-	-	-	
3 3N5/0.37 M	3 3N5/0.37	0.37	0.5	71		27.9	25.1	20.9	15.5	9.9	-	-	-	-	-	-	-	-	
3 4N5/0.55 M	3 4N5/0.55	0.55	0.75	71		37.2	33.4	27.9	20.6	13.2	-	-	-	-	-	-	-	-	
3 5N5/0.55 M	3 5N5/0.55	0.55	0.75	71		46.5	42.0	34.9	25.8	16.5	-	-	-	-	-	-	-	-	
3 6N5/0.75 M	3 6N5/0.75	0.75	1	80		56.0	50.0	42.0	30.9	19.8	-	-	-	-	-	-	-	-	
3 7N5/0.75 M	3 7N5/0.75	0.75	1	80		65.0	58.5	49.0	36.1	23.1	-	-	-	-	-	-	-	-	
3 9N5/1.1 M	3 9N5/1.1	1.1	1.5	80		84.0	75.0	63.0	46.5	29.7	-	-	-	-	-	-	-	-	
3 11N5/1.1 M	3 11N5/1.1	1.1	1.5	80		102.0	92.0	77.0	56.5	36.3	-	-	-	-	-	-	-	-	
3 13N5/1.5 M	3 13N5/1.5	1.5	2	90S		121.0	109.0	90.5	67.0	43.0	-	-	-	-	-	-	-	-	
3 15N5/1.5 M	3 15N5/1.5	1.5	2	90S		140.0	125.0	105.0	77.5	49.5	-	-	-	-	-	-	-	-	
3 18F5/2.2 M	3 18F5/2.2	2.2	3	90L	2.5	167.0	151.0	126.0	92.5	59.5	-	-	-	-	-	-	-	-	
3 22F5/2.2 M	3 22F5/2.2	2.2	3	90L		205.0	184.0	154.0	113.0	72.5	-	-	-	-	-	-	-	-	
-	3 26F5/3.0	3	4	100		242.0	217.0	182.0	134.0	86.0	-	-	-	-	-	-	-	-	
5 2N5/0.37 M	5 2N5/0.37	0.37	0.5	71		20.2	-	18.4	16.9	15.4	12.2	6.9	-	-	-	-	-	-	
5 3N5/0.55 M	5 3N5/0.55	0.55	0.75	71	1.6	30.2	-	27.6	25.3	23.1	18.4	10.3	-	-	-	-	-		
5 4N5/0.75 M	5 4N5/0.75	0.75	1	80		40.5	-	36.8	33.8	30.8	24.5	13.8	-	-	-	-	-	-	
5 5N5/1.1 M	5 5N5/1.1	1.1	1.5	80		50.5	-	46.0	42.0	38.6	30.6	17.2	-	-	-	-	-	-	
5 6N5/1.1 M	5 6N5/1.1	1.1	1.5	80		60.5	-	55.0	50.5	46.5	36.7	20.6	-	-	-	-	-	-	
5 7N5/1.5 M	5 7N5/1.5	1.5	2	90S		70.5	-	64.5	59.0	54.0	43.0	24.1	-	-	-	-	-	-	
5 8N5/1.5 M	5 8N5/1.5	1.5	2	90S		80.5	-	73.5	67.5	61.5	49.0	27.5	-	-	-	-	-	-	
5 10N5/2.2 M	5 10N5/2.2	2.2	3	90L		102.0	-	93.5	86.0	79.0	63.0	36.6	-	-	-	-	-	-	
5 11N5/2.2 M	5 11N5/2.2	2.2	3	90L		113.0	-	103.0	94.5	86.5	69.5	40.5	-	-	-	-	-	-	
5 12N5/2.2 M	5 12N5/2.2	2.2	3	90L		123.0	-	112.0	103.0	94.5	75.5	44.0	-	-	-	-	-	-	
-	5 14N5/3.0	3	4	100		2.5	143.0	-	131.0	120.0	110.0	88.0	51.0	-	-	-	-	-	
-	5 16N5/3.0	3	4	100	164.0		-	150.0	138.0	126.0	101.0	58.5	-	-	-	-	-	-	
-	5 18F5/4.0	4	5.5	112	184.0		-	168.0	155.0	142.0	113.0	66.0	-	-	-	-	-	-	
-	5 19F5/4.0	4	5.5	112	194.0		-	178.0	163.0	150.0	120.0	69.5	-	-	-	-	-	-	
-	5 22F5/4.0	4	5.5	112	225.0		-	206.0	189.0	173.0	139.0	80.5	-	-	-	-	-	-	
-	5 24F5/5.5	5.5	7.5	132S	246.0		-	224.0	206.0	189.0	151.0	88.0	-	-	-	-	-	-	
10 2N5/0.75 M	10 2N5/0.75	0.75	1	80	1.6	22.0	-	-	-	21.0	20.4	18.9	17.6	13.2	7.8	-	-	-	
10 3N5/1.1 M	10 3N5/1.1	1.1	1.5	80		33.0	-	-	-	31.6	30.5	28.4	26.4	19.8	11.7	-	-	-	
10 4N5/1.5 M	10 4N5/1.5	1.5	2	90S		44.0	-	-	-	42.0	40.5	37.8	35.2	26.4	15.6	-	-	-	
10 5N5/2.2 M	10 5N5/2.2	2.2	3	90L		55.0	-	-	-	52.5	51.0	47.5	44.0	33.0	19.5	-	-	-	
10 6N5/2.2 M	10 6N5/2.2	2.2	3	90L		66.0	-	-	-	63.0	61.0	57.0	53.0	39.5	23.4	-	-	-	
-	10 8N5/3.0	3	4	100		88.0	-	-	-	84.0	81.5	75.5	70.5	52.5	31.2	-	-	-	
-	10 10N5/4.0	4	5.5	112		110.0	-	-	-	105.0	102.0	94.5	88.0	66.0	39.0	-	-	-	
-	10 11N5/4.0	4	5.5	112		121.0	-	-	-	116.0	112.0	104.0	97.0	72.5	43.0	-	-	-	
-	10 12N5/5.5	5.5	7.5	132S		134.0	-	-	-	130.0	126.0	118.0	111.0	86.5	55.0	-	-	-	
-	10 14N5/5.5	5.5	7.5	132S		157.0	-	-	-	151.0	147.0	138.0	130.0	101.0	64.5	-	-	-	
-	10 15F5/5.5	5.5	7.5	132S	2.5	168.0	-	-	-	162.0	158.0	148.0	139.0	108.0	69.0	-	-	-	
-	10 16F5/7.5	7.5	10	132S		179.0	-	-	-	173.0	168.0	158.0	148.0	115.0	73.5	-	-	-	
-	10 18F5/7.5	7.5	10	132S		202.0	-	-	-	194.0	189.0	177.0	167.0	129.0	83.0	-	-	-	
-	10 20F5/7.5	7.5	10	132S		224.0	-	-	-	216.0	210.0	197.0	185.0	144.0	92.0	-	-	-	
-	10 22F5/11	11	15	160M		246.0	-	-	-	238.0	231.0	217.0	204.0	158.0	101.0	-	-	-	
18 2F5/2.2 M	18 2F5/2.2	2.2	3	90L	1.6	32.0	-	-	-	-	-	31.0	30.3	28.5	25.7	21.9	17.2	11.6	
-	18 3F5/3.0	3	4	100		48.0	-	-	-	-	-	46.0	45.5	43.0	38.6	32.8	25.7	17.4	
-	18 4F5/4.0	4	5.5	112		64.0	-	-	-	-	-	61.5	60.5	57.0	51.5	44.0	34.3	23.2	
-	18 5F5/5.5	5.5	7.5	132S		80.0	-	-	-	-	-	77.0	75.5	71.5	64.5	54.5	43.0	29.0	
-	18 6F5/5.5	5.5	7.5	132S		96.0	-	-	-	-	-	92.0	91.0	85.5	77.0	65.5	51.5	34.8	
-	18 7F5/7.5	7.5	10	132S		112.0	-	-	-	-	-	108.0	106.0	100.0	90.0	76.5	60.0	40.5	
-	18 8F5/7.5	7.5	10	132S	2.5	128.0	-	-	-	-	-	123.0	121.0	114.0	103.0	87.5	68.5	46.5	
-	18 10F5/11	11	15	160M		162.0	-	-	-	-	-	157.0	155.0	147.0	134.0	116.0	93.5	69.0	
-	18 12F5/11	11	15	160M		194.0	-	-	-	-	-	189.0	186.0	177.0	160.0	139.0	112.0	83.0	
-	18 14F5/15	15	20	160M		227.0	-	-	-	-	-	220.0	217.0	206.0	187.0	162.0	131.0	96.5	
-	18 15F5/15	15	20	160M		243.0	-	-	-	-	-	236.0	233.0	221.0	201.0	174.0	141.0	104.0	
-	18 16F5/15	15	20	160M	259.0	-	-	-	-	-	252.0	249.0	236.0	214.0	186.0	150.0	110.0	71.0	

1.6 MPa=16 bar ; 2.5 MPa=25 bar

SELECTION CHART

50Hz

Rev. J

EVM(.) 32-64

Pump Type EVM(.)	Motor			Maximum working pressure [Mpa]	Q=Capacity										
	kW	HP	Size		l/min 0 m³/h 0	200	350	500	600	700	900	1000	1200	1400	
						21	30	36	42	54	60	72	84		
						H=Total manometric head in meters									
32 1-0F5/2.2	2,2	3	90L	1,6	24	21,7	19,6	16,4	13,2	9,7	-	-	-	-	
32 2-2F5/3.0	3	4	100		39,8	36,9	31,6	23,5	17,4	-	-	-	-	-	
32 2-0F5/4.0	4	5,5	112		48	43,5	39,2	32,8	26,5	19,4	-	-	-	-	
32 3-3F5/5.5	5,5	7,5	132S		59,5	55,5	47,5	35,2	26,1	-	-	-	-	-	
32 3-1F5/5.5	5,5	7,5	132S		68	62	55	44,5	35,2	24,5	-	-	-	-	
32 4-3F5/7.5	7,5	10	132S		84	77	67,0	51,5	39,4	-	-	-	-	-	
32 4-1F5/7.5	7,5	10	132S		92	83,5	74,5	61	48,5	34,2	-	-	-	-	
32 5-3F5/11	11	15	160M		106	100	89	70	54	37,3	-	-	-	-	
32 5-0F5/11	11	15	160M		118	110	100	84	67	49	-	-	-	-	
32 6-3F5/11	11	15	160M		130	122	109	87	67,5	47	-	-	-	-	
32 6-2F5/11	11	15	160M		133	125	113	91,5	71,5	51	-	-	-	-	
32 7-3F5/15	15	20	160M	2,5	153	144	129	104	81	57	-	-	-	-	
32 7-0F5/15	15	20	160M		165	154	141	118	94	69	-	-	-	-	
32 8-3F5/15	15	20	160M		177	166	150	121	94,0	67	-	-	-	-	
32 8-2F5/15	15	20	160M		184	172	157	130	103	75	-	-	-	-	
32 9-3F5/18.5	18,5	25	160L		200	188	170	137	108	76,5	-	-	-	-	
32 9-0F5/18.5	18,5	25	160L		212	197	181	152	121	88,5	-	-	-	-	
32 10-3F5/18.5	18,5	25	160L		224	210	190	154	121	86,5	-	-	-	-	
32 10-2F5/18.5	18,5	25	160L		228	213	193	159	125	90,5	-	-	-	-	
32 11-3F5/22	22	30	180		247	232	210	171	134	96,5	-	-	-	-	
32 11-0F5/22	22	30	180		259	241	221	185	147	108	-	-	-	-	
32 12-3F5/22	22	30	180		271	254	230	188	148	106	-	-	-	-	
32 13-3F5/30	30	40	200	3,0	294	276	250	205	161	116	-	-	-	-	
32 13-0F5/30	30	40	200		306	285	261	219	174	128	-	-	-	-	
32 14-3F5/30	30	40	200		318	298	270	222	175	126	-	-	-	-	
32 14-0F5/30	30	40	200		330	307	281	236	188	138	-	-	-	-	
45 1-1F5/3.0	3	4	100		21,0	-	18,9	17,6	16,3	14,3	8,3	-	-	-	-
45 1-0F5/4.0	4	5,5	112		27,0	-	25,6	24,6	23,5	21,8	16,7	13,3	-	-	-
45 2-2F5/5.5	5,5	7,5	132S		42,0	-	38,1	35,8	33,4	29,8	18,6	-	-	-	-
45 2-0F5/7.5	7,5	10	132S		54,0	-	51,5	50	48	45	35,4	29,1	-	-	-
45 3-2F5/11	11	15	160M		69,0	-	64	61	58	53	37,3	-	-	-	-
45 3-0F5/11	11	15	160M		81,0	-	77,5	75	72,5	68	54	45	-	-	-
45 4-2F5/15	15	20	160M		96,0	-	90	86	82	76	56	43	-	-	-
45 4-0F5/15	15	20	160M	2,5	108,0	-	103	100	96,5	91	73	60,5	-	-	
45 5-2F5/18.5	18,5	25	160L		123,0	-	116	111	107	99,0	74,5	58,5	-	-	
45 5-0F5/18.5	18,5	25	160L		135,0	-	129	125	121	114	91,5	76,5	-	-	
45 6-2F5/22	22	30	180		150,0	-	142	137	131	122	93,5	74,5	-	-	
45 6-0F5/22	22	30	180		162,0	-	155	151	146	137	110	92,5	-	-	
45 7-2F5/30	30	40	200		177,0	-	168	162	155	145	112	90,5	-	-	
45 7-0F5/30	30	40	200		189,0	-	181	176	170	160	129	108	-	-	
45 8-2F5/30	30	40	200		204,0	-	194	187	180	168	131	106	-	-	
45 8-0F5/30	30	40	200		216,0	-	207	201	194	183	148	124	-	-	
45 9-2F5/30	30	40	200		231,0	-	219	212	204	191	150	122	-	-	
45 9-0F5/37	37	50	200	3,0	243,0	-	233	226	219	206	166	140	-	-	
45 10-2F5/37	37	50	200		258,0	-	245	237	229	214	168	138	-	-	
45 10-0F5/37	37	50	200		270,0	-	259	251	243	229	185	156	-	-	
64 1-1F5/4.0	4	5,5	100		23,7	-	-	21	20,4	19,7	17,5	15,9	11,4	-	-
64 1-0F5/5.5	5,5	7,5	132S		29,3	-	-	26,6	26,1	25,4	23,7	22,3	18,5	13,5	-
64 2-2F5/7.5	7,5	10	132S		47,5	-	-	42,5	41,5	40,5	36,5	33,5	25,3	-	-
64 2-1F5/11	11	15	160M		53,0	-	-	48	47	46	42,5	40	32,4	23	-
64 2-0F5/11	11	15	160M		58,5	-	-	53,5	53	52	49	46,5	39,5	30,6	-
64 3-3F5/15	15	20	160M		71,0	-	-	64	62,5	61	55,5	51	39,3	-	-
64 3-2F5/15	15	20	160M		76,5	-	-	69,5	68	66,5	61,5	57,5	46,5	32,5	-
64 3-1F5/15	15	20	160M		82,5	-	-	75	74	72,5	68	64	53,5	40	-
64 3-0F5/18.5	18,5	25	160L		88,0	-	-	80,5	79,5	78	74	70,5	60,5	47,5	-
64 4-3F5/18.5	18,5	25	160L	1,6	100,0	-	-	91	89	87	80,5	75,5	60,5	42	-
64 4-2F5/18.5	18,5	25	160L		106,0	-	-	96,5	95	93	87	81,5	67,5	49,5	-
64 4-1F5/22	22	30	180		112,0	-	-	102	101	98,5	93	88	74,5	57	-
64 4-0F5/22	22	30	180		117,0	-	-	108	106	104	99,0	94,5	81,5	64,5	-
64 5-3F5/30	30	40	200		130,0	-	-	118	116	114	106	99,5	81,5	59,0	-
64 5-2F5/30	30	40	200		135,0	-	-	124	122	119	112	106	88,5	66,5	-
64 5-1F5/30	30	40	200		141,0	-	-	129	127	125	118	112	95,5	74,0	-
64 5-0F5/30	30	40	200		147,0	-	-	135	133	131	124	119	103	81,5	-
64 6-3F5/30	30	40	200		159,0	-	-	145	143	140	131	124	103	76,0	-
64 6-2F5/30	30	40	200		165,0	-	-	151	148	146	137	130	110	83,5	-
64 6-1F5/37	37	50	200		170,0	-	-	156	154	151	143	136	117	91,0	-
64 6-0F5/37	37	50	200	2,5	176,0	-	-	162	160	157	149	143	124	99,0	-
64 7-3F5/37	37	50	200		188,0	-	-	172	169	166	156	148	124	93,0	-
64 7-2F5/37	37	50	200		194,0	-	-	178	175	172	162	154	131	101	-
64 7-1F5/37	37	50	200		200,0	-	-	183	181	178	168	161	138	108	-

1.6 MPa=16 bar ; 2.5 MPa=25 bar ; 3.0 MPa=30 bar

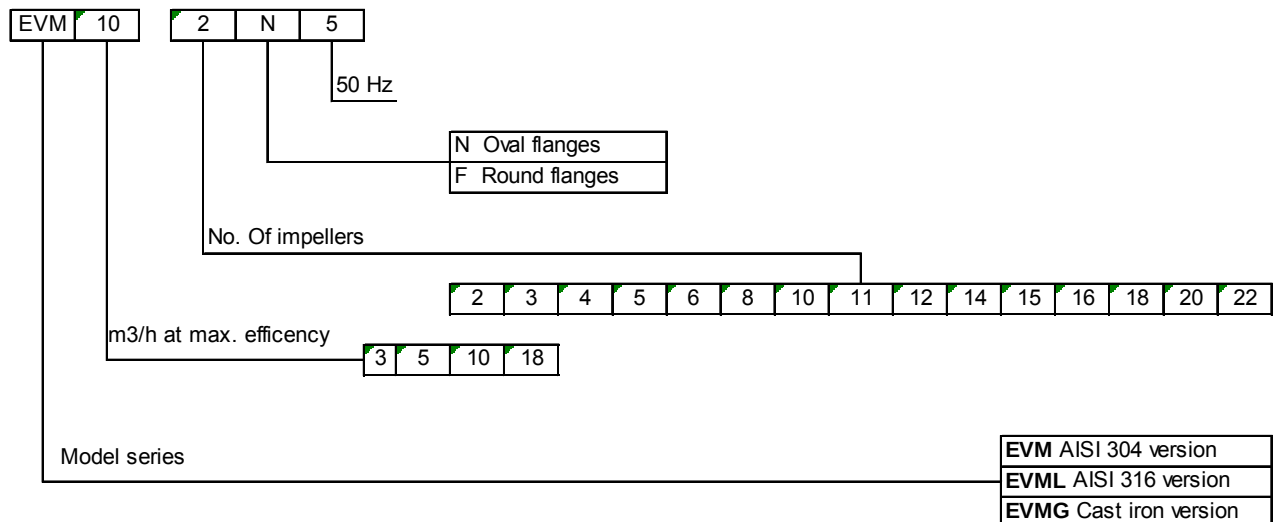
TYPE KEY AND CURVE SPECIFICATIONS

50Hz

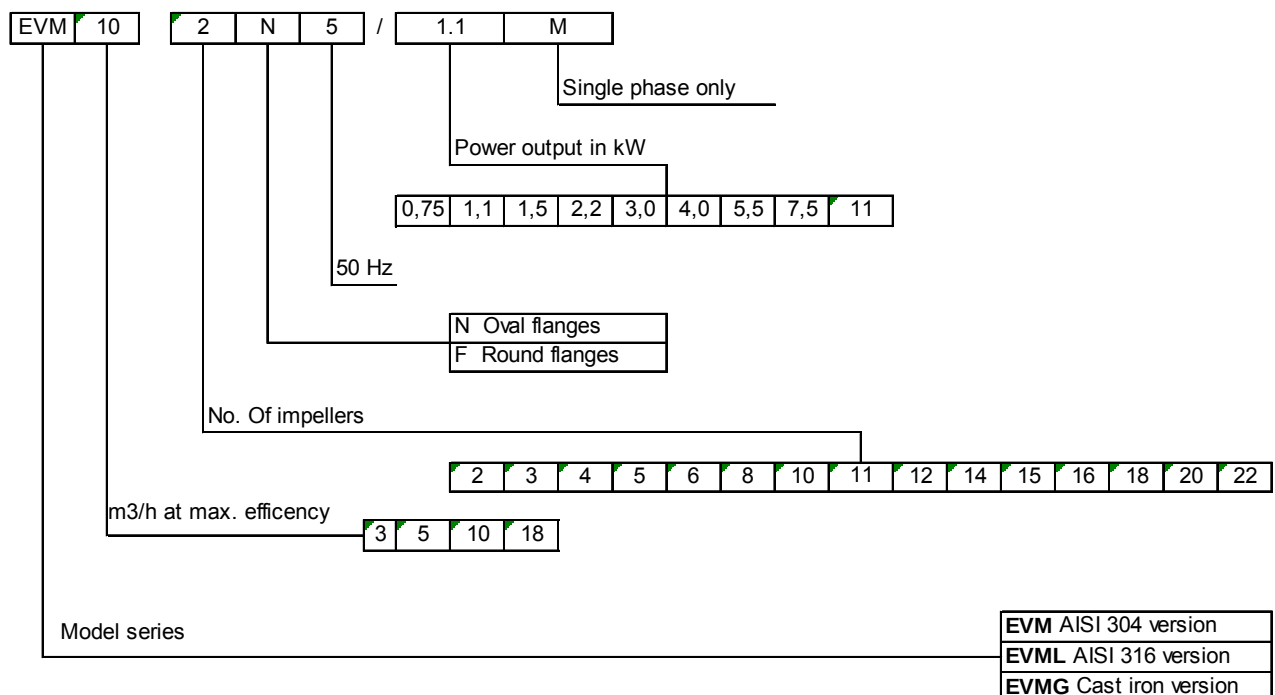
Rev. J

TYPE KEY EVM(.) 3-18

Example for pump without motor



Example for pump with motor



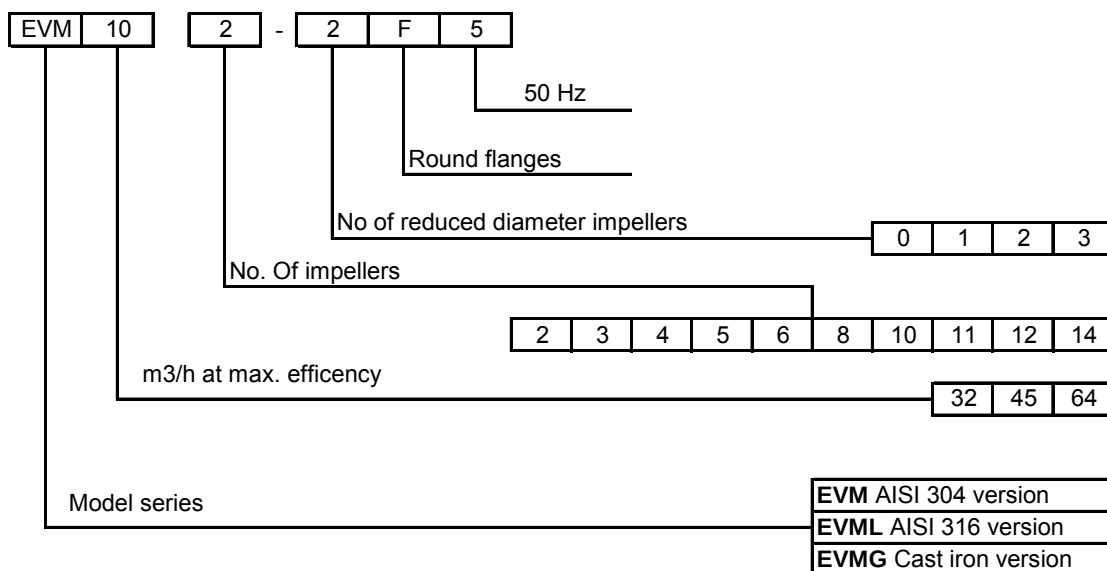
TYPE KEY AND CURVE SPECIFICATIONS

50Hz

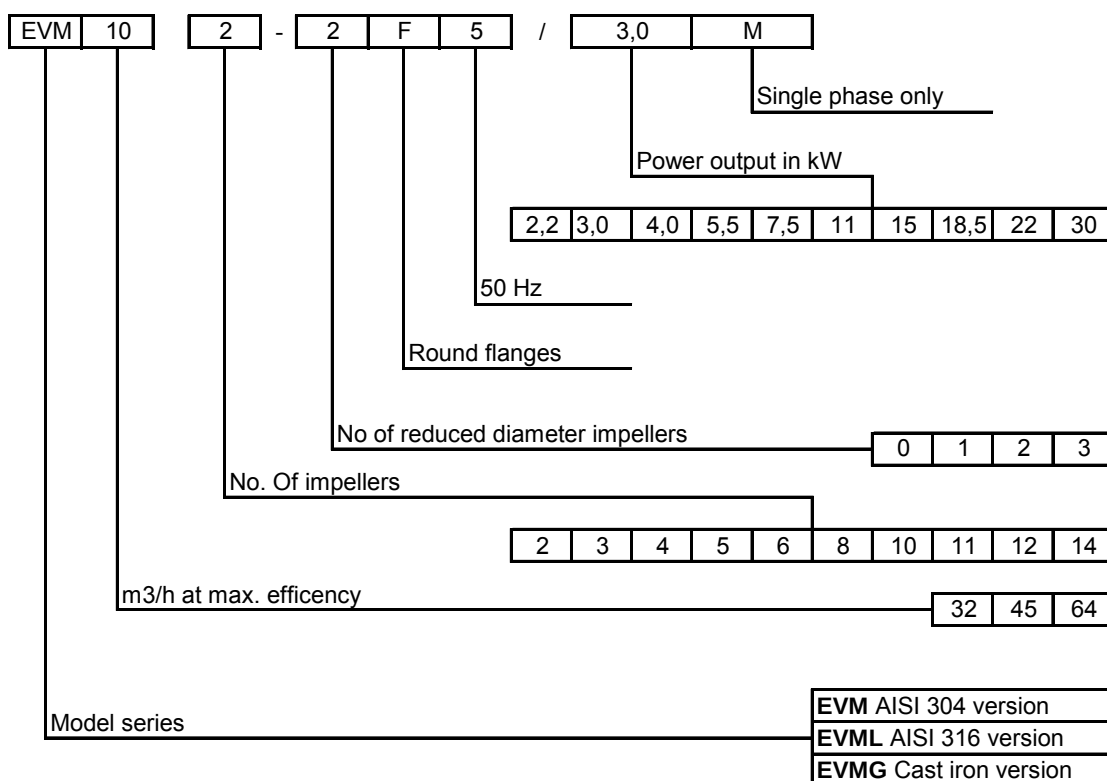
Rev. J

EVM(.) 32-64

Example for pump without motor



Example for pump with motor



PERFORMANCE CURVE SPECIFICATIONS

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 0.5 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:

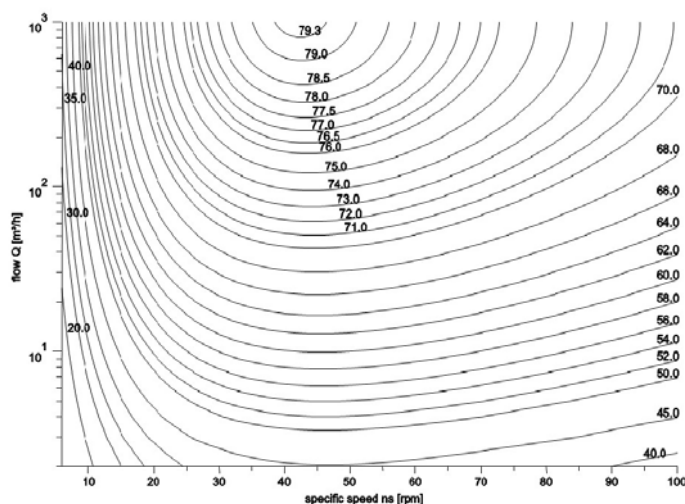
- Q = volume flow rate
- H = total head
- P_2 = pump power input (shaft power)
- η = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

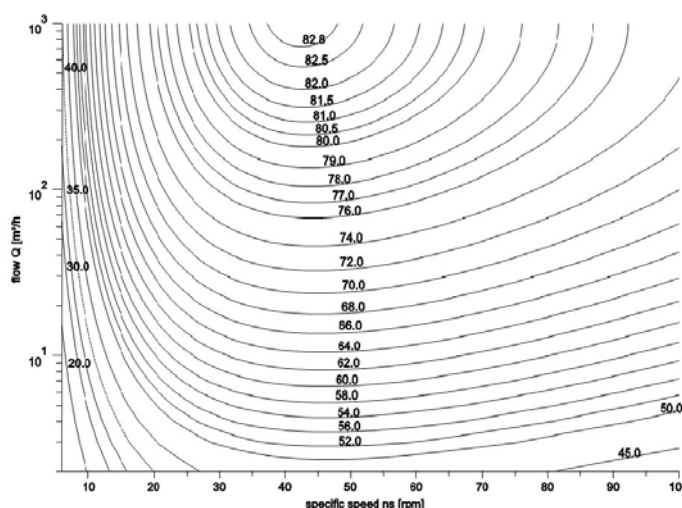
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system

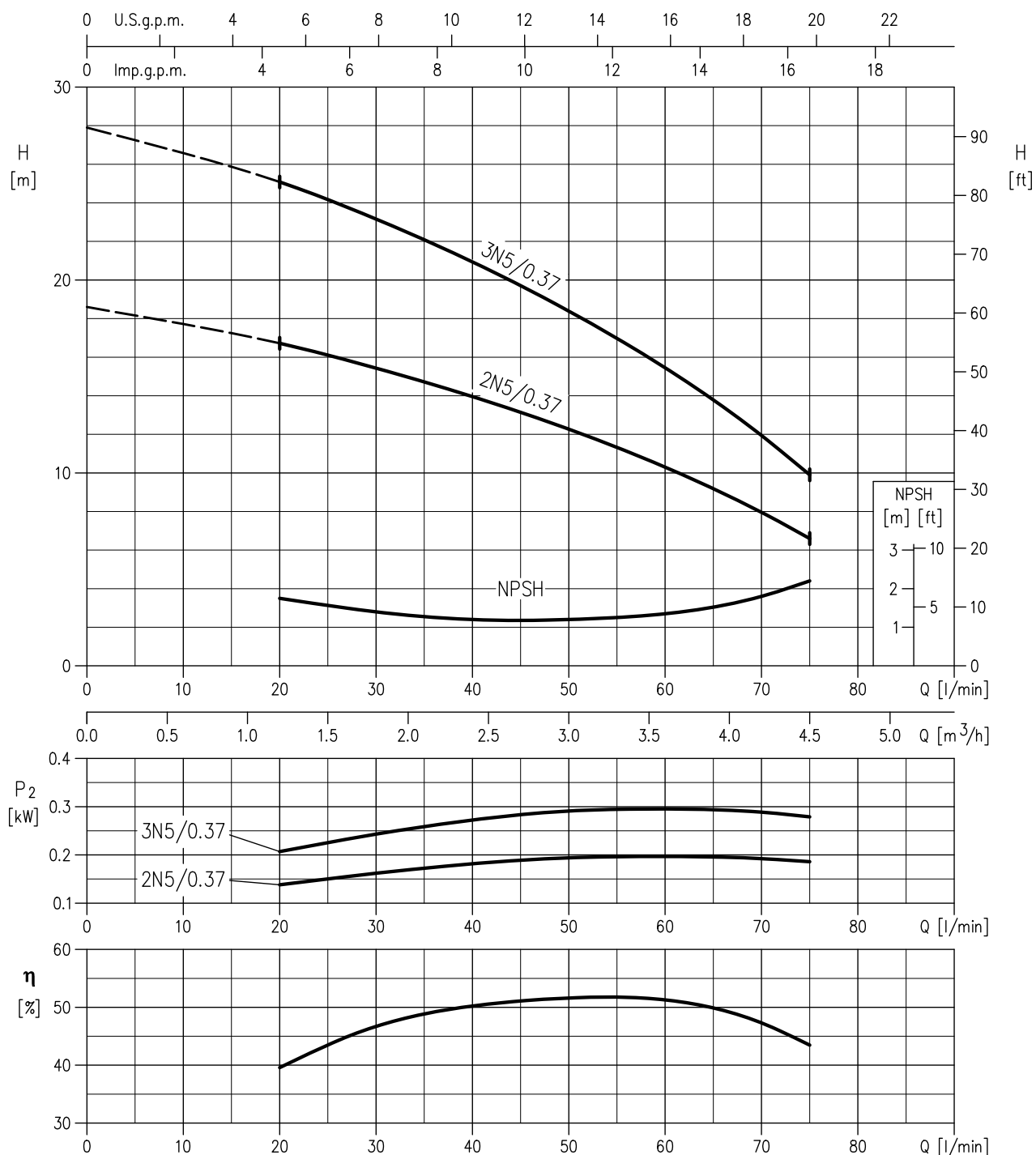
MEI = 0.4 for Multistage Vertical 2900rpm



MEI=0.7 for Multistage Vertical 2900 rpm

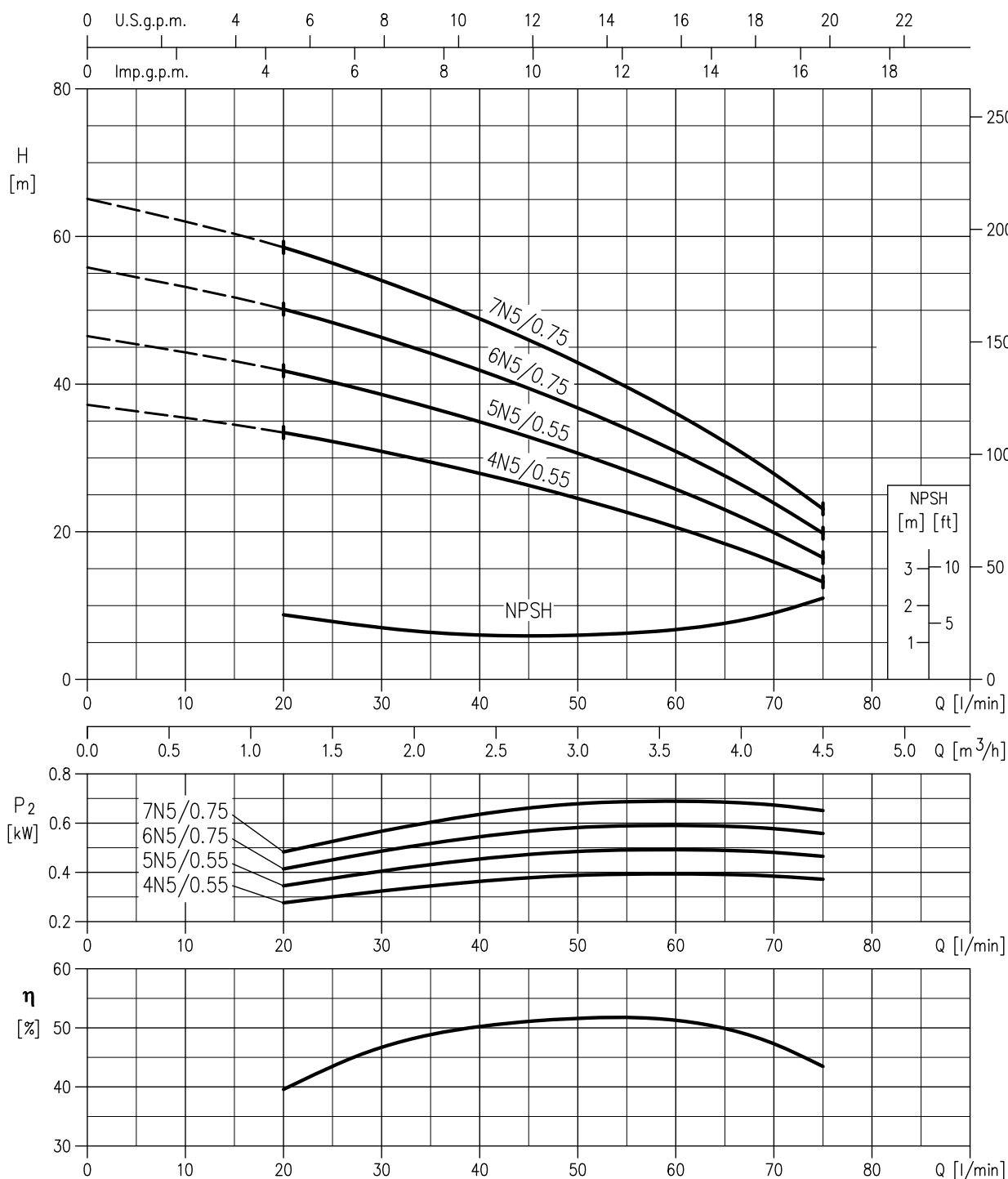


EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



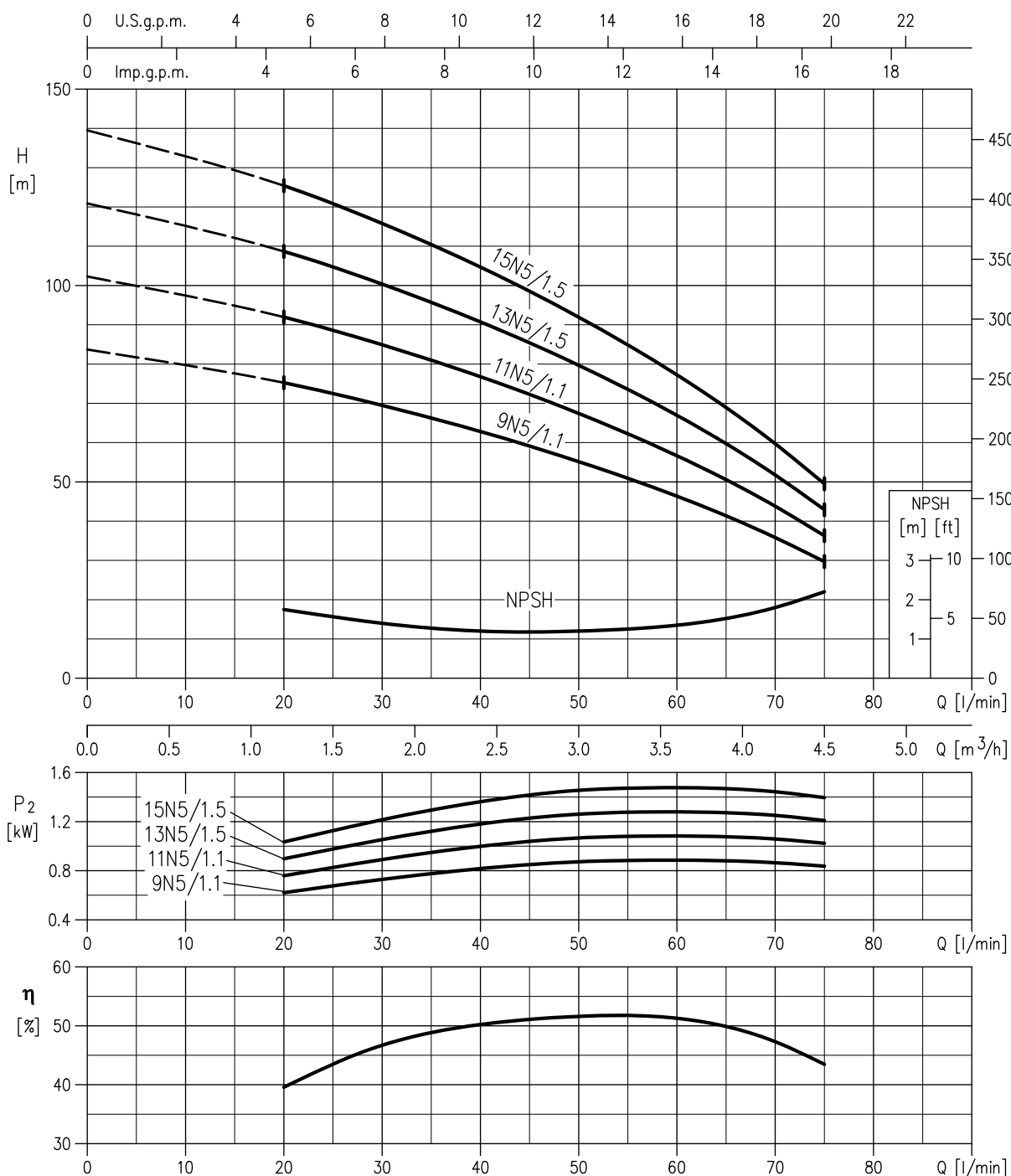
Rotation speed ≈ 2850 min⁻¹
Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter = 89 mm



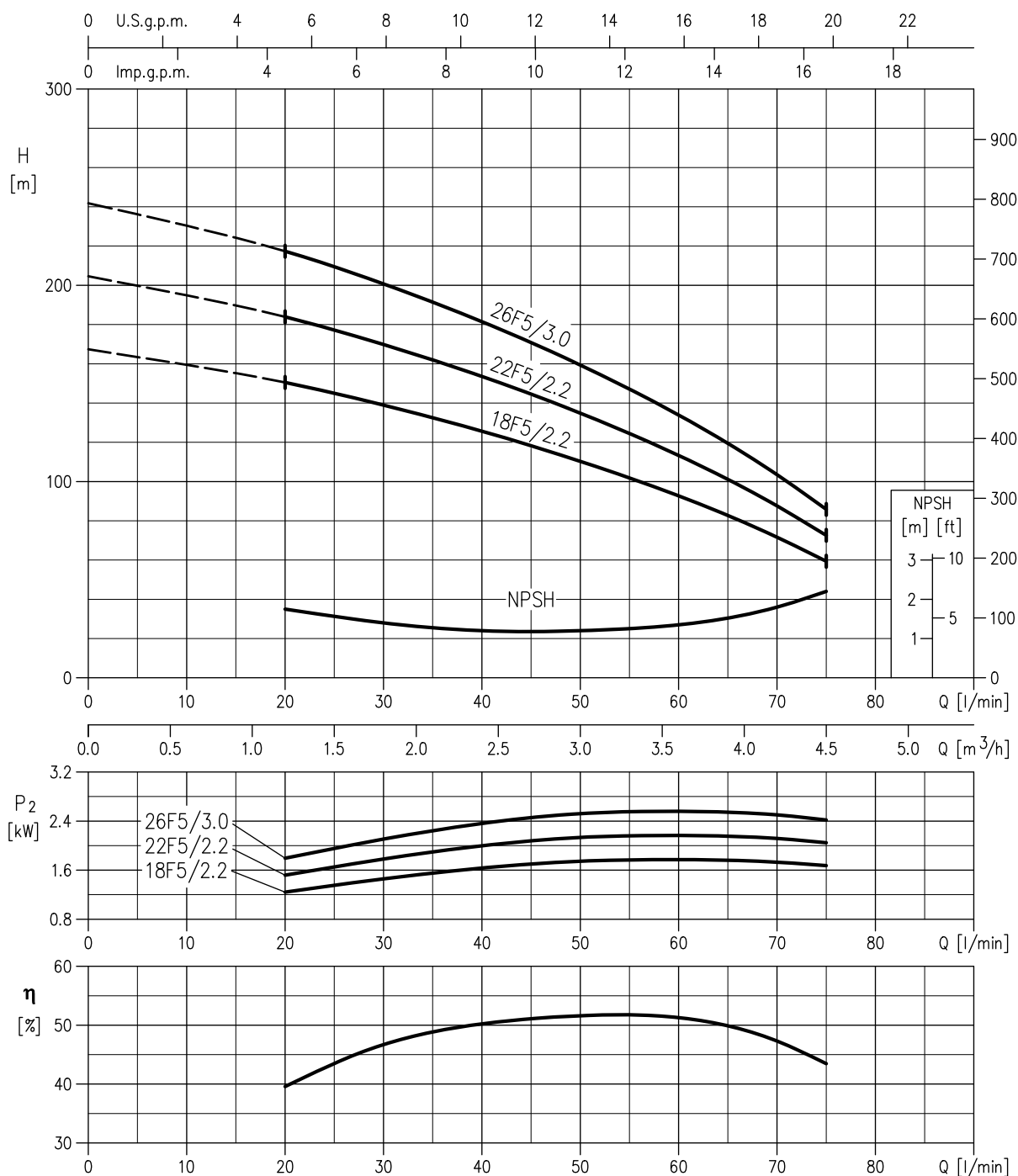
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter = 89 mm



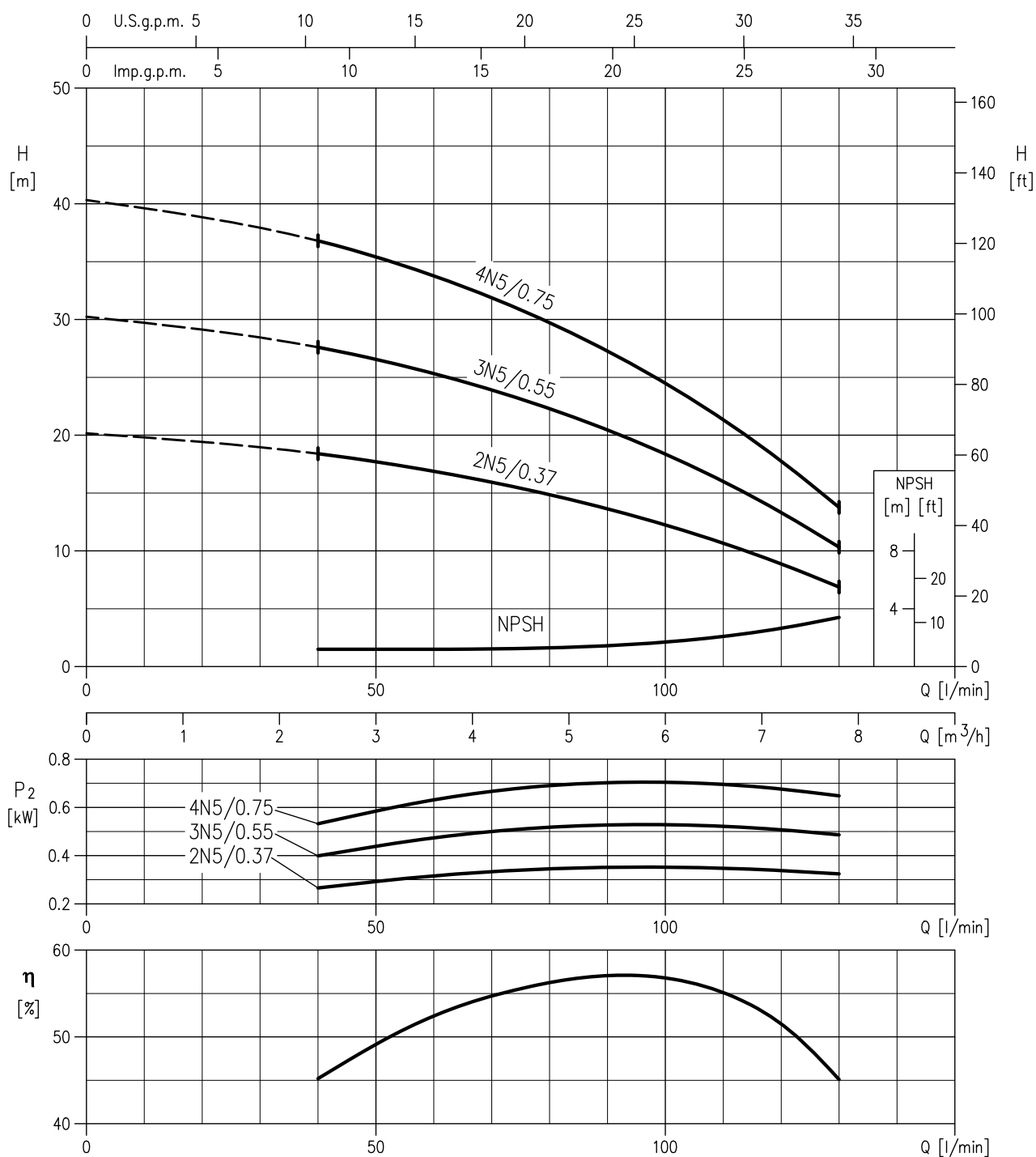
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



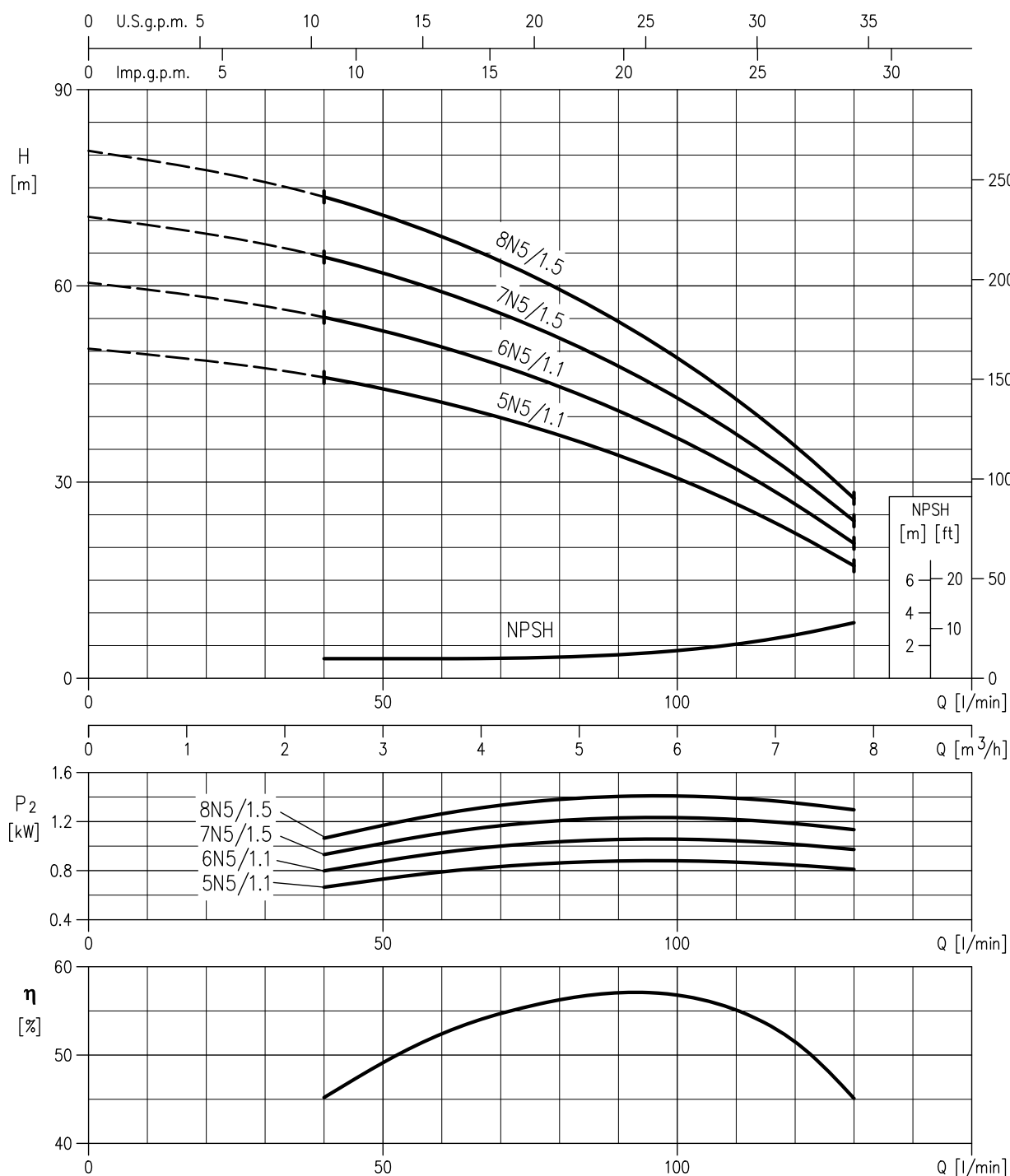
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



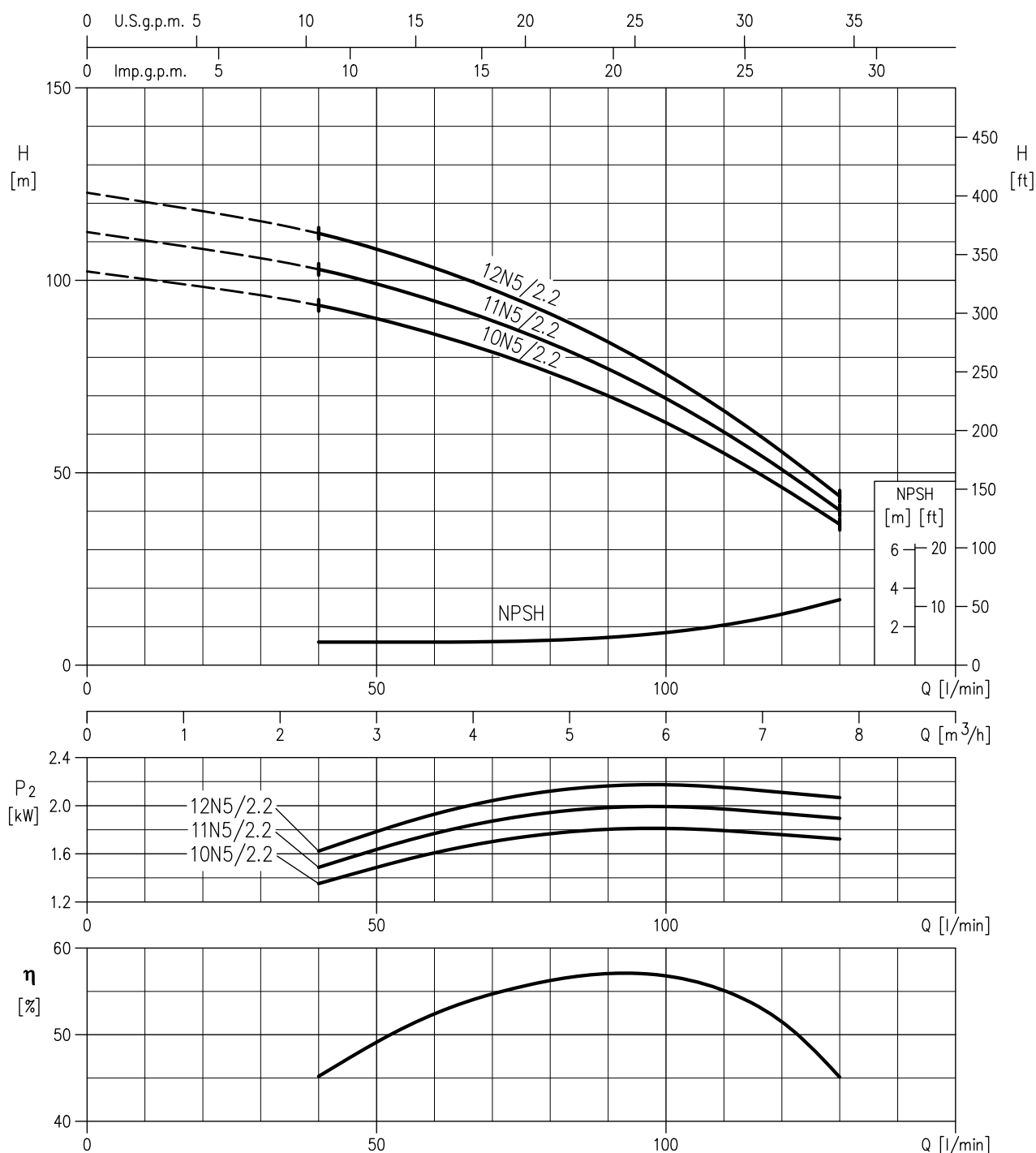
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



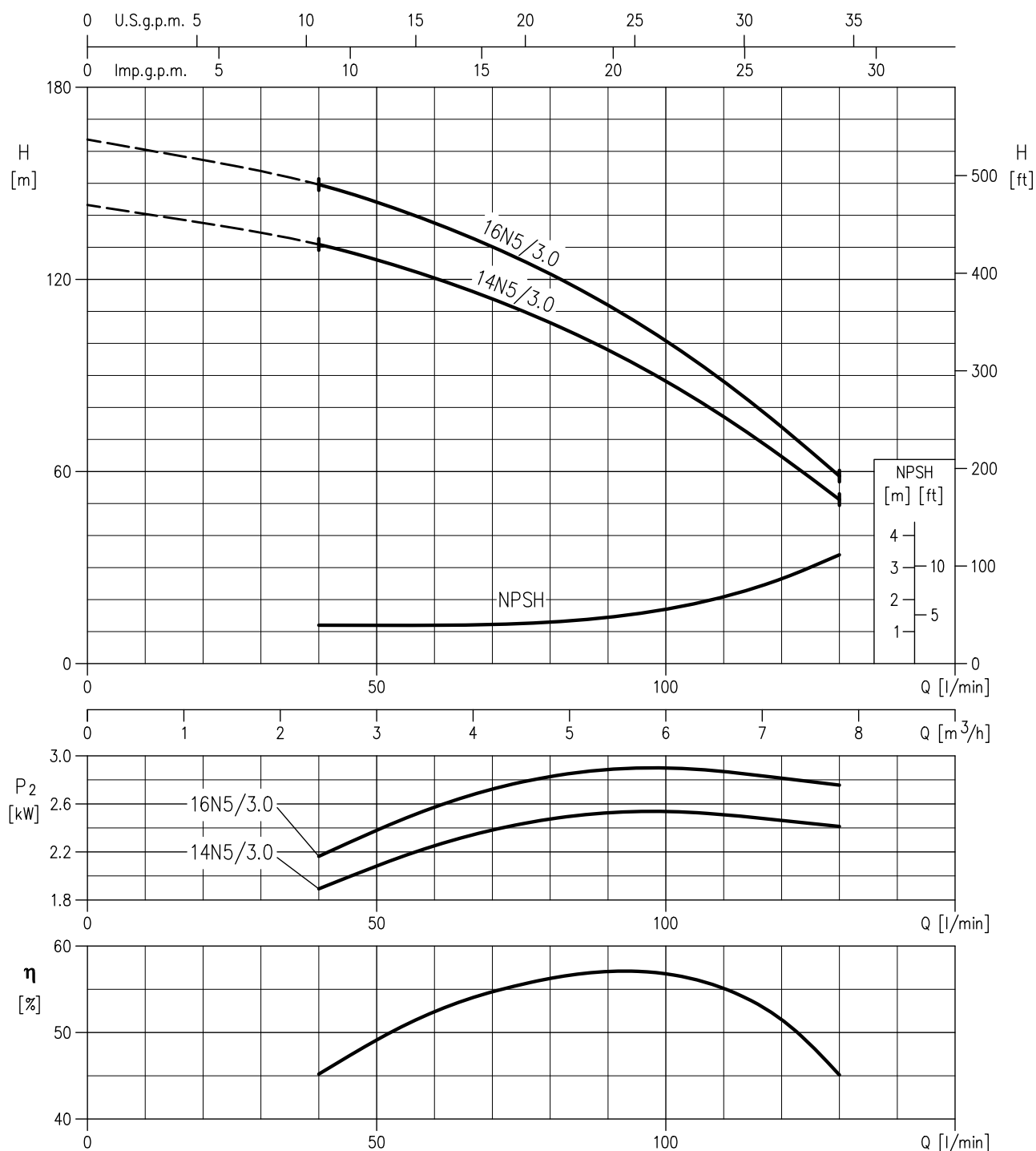
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



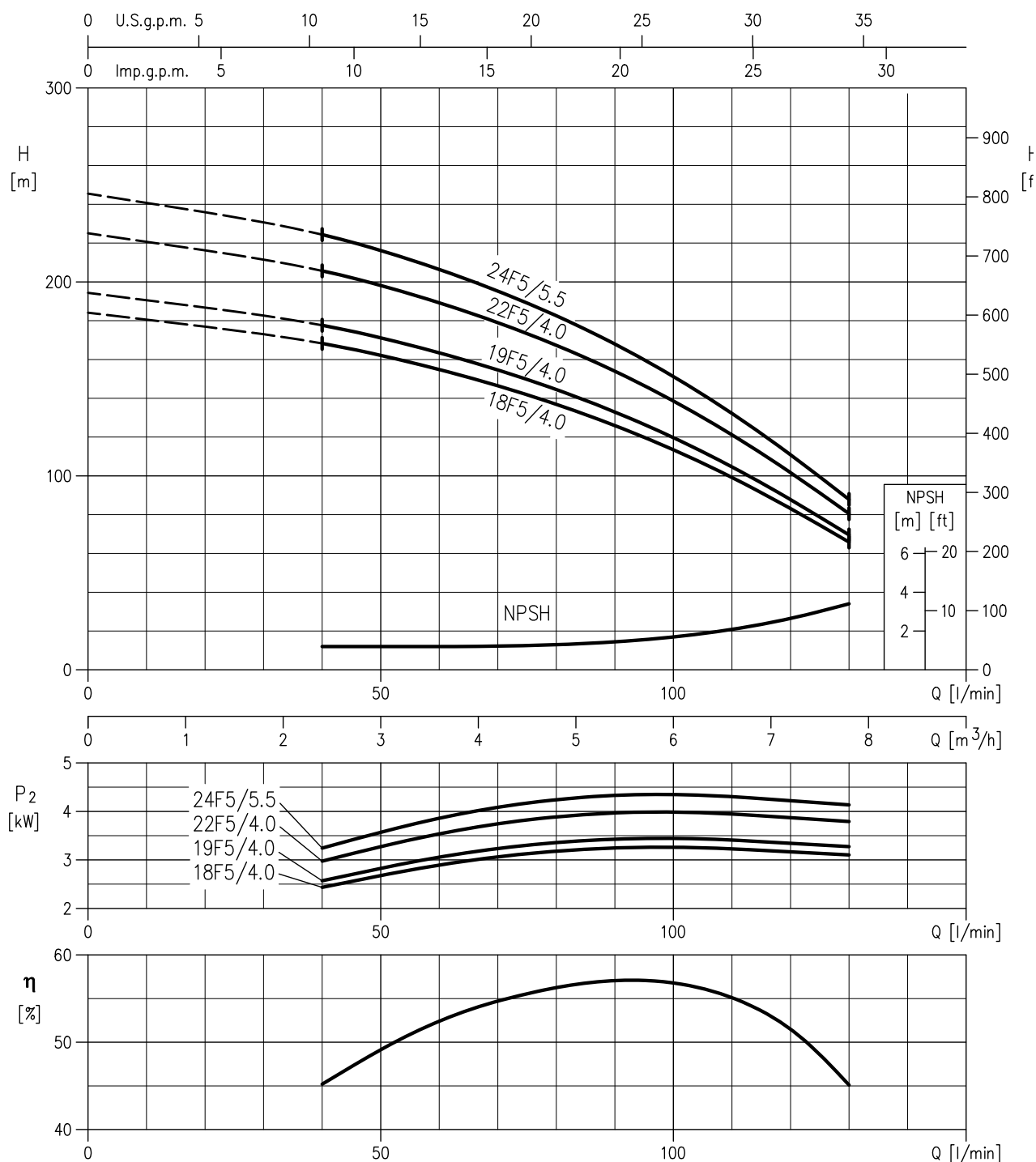
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter = 95 mm



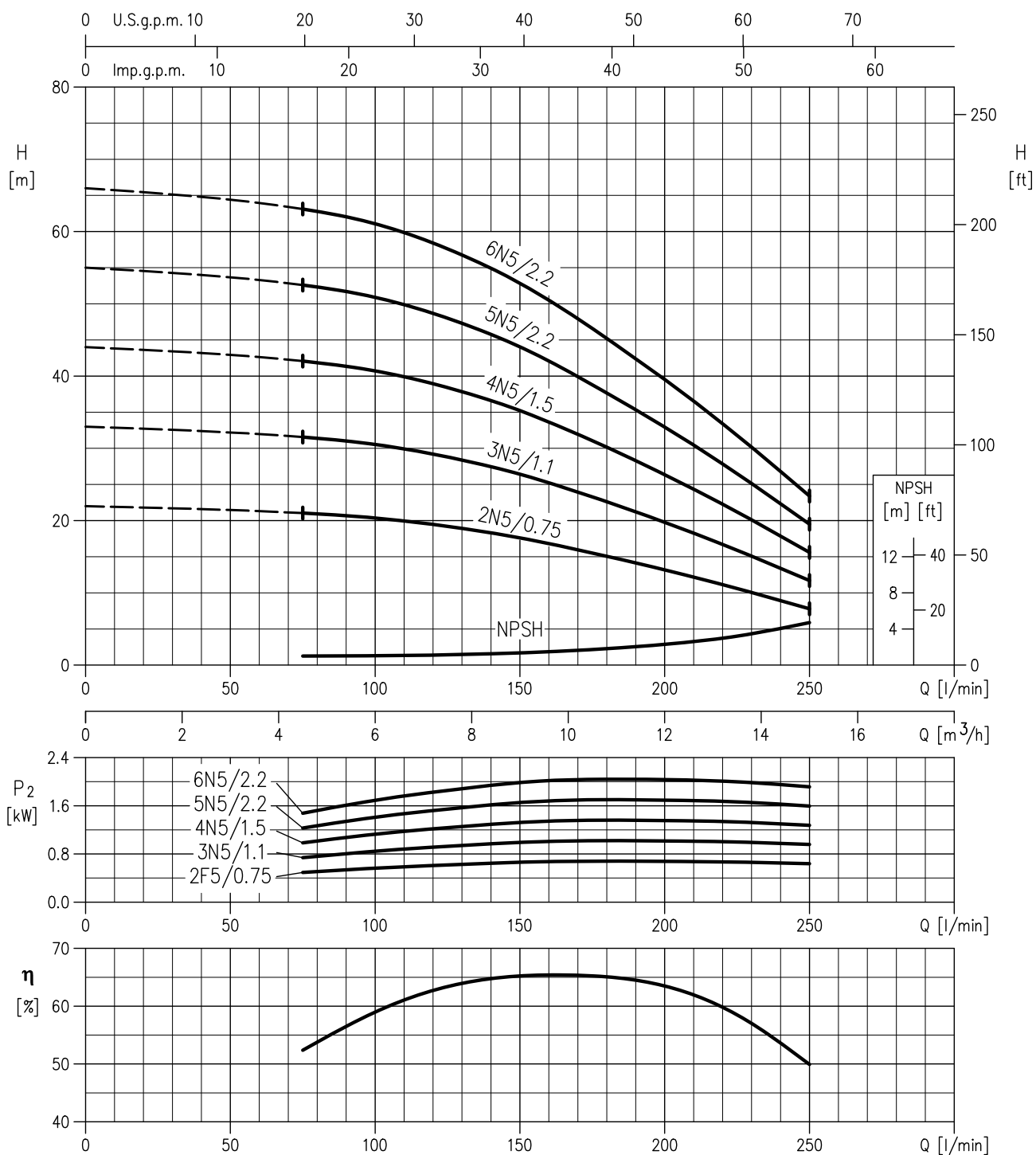
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter =95 mm



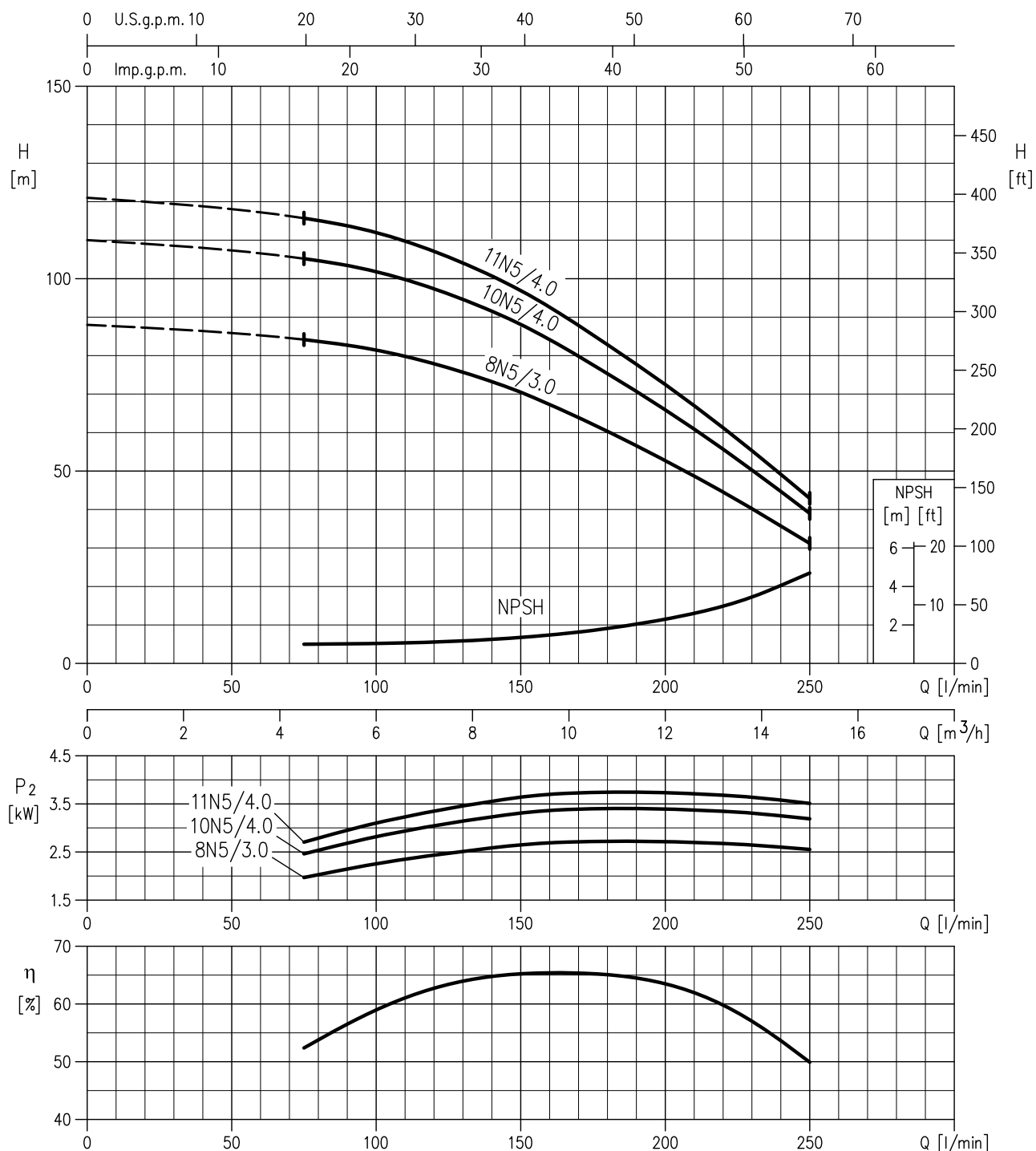
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70 - Impeller diameter =96 mm



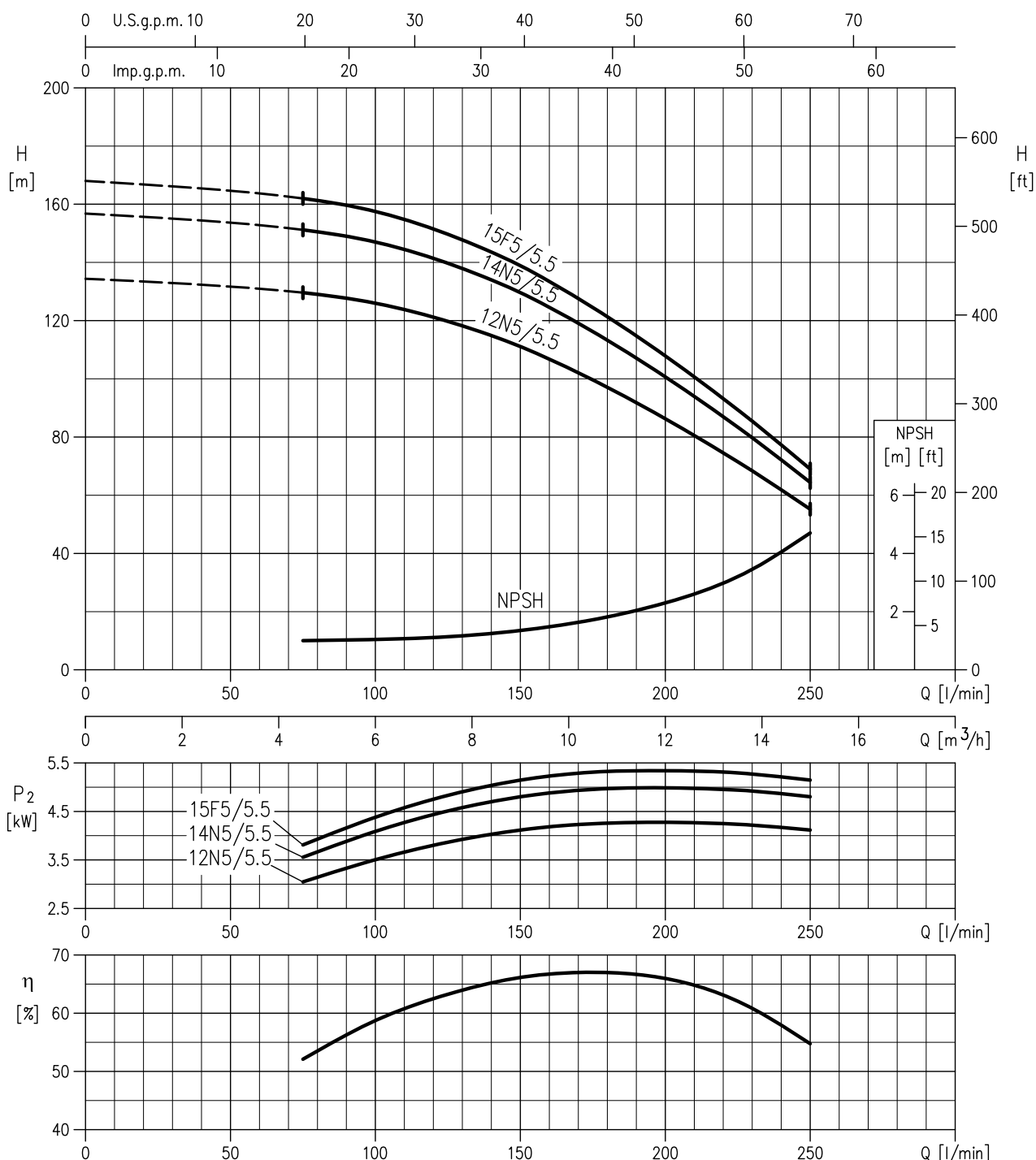
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70 - Impeller diameter = 96 mm



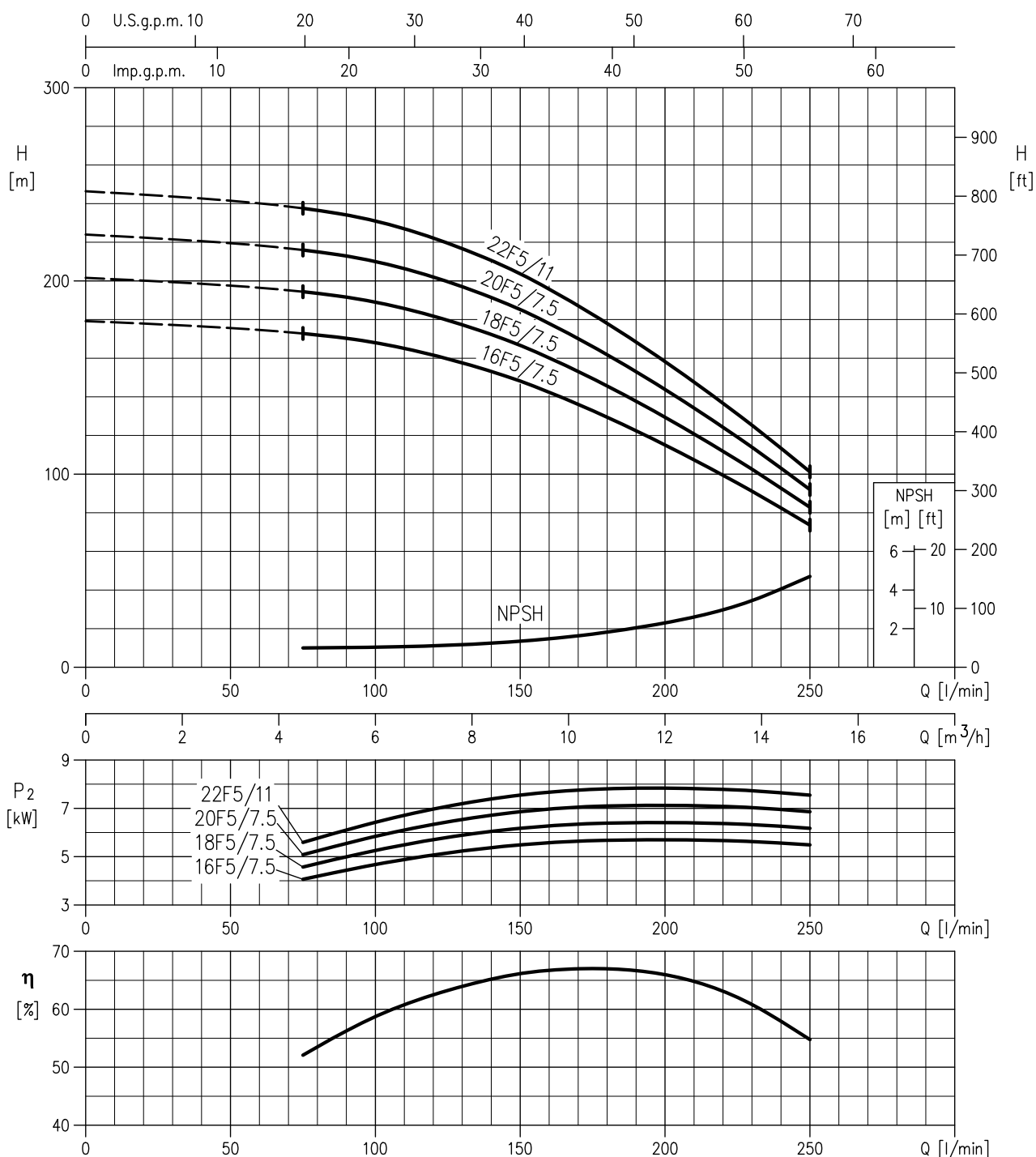
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70- Impeller diameter =96 mm



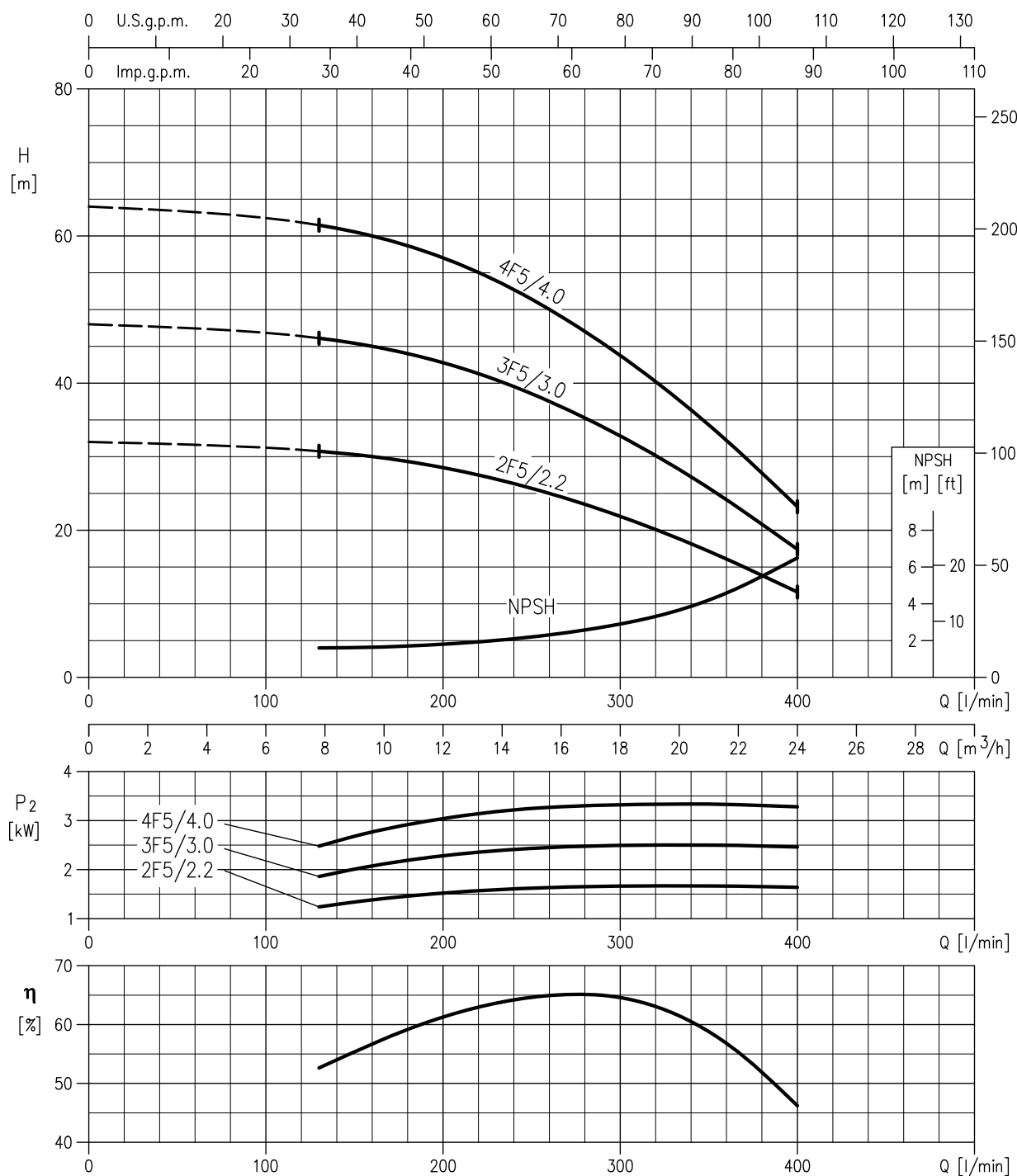
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70 - Impeller diameter = 96 mm



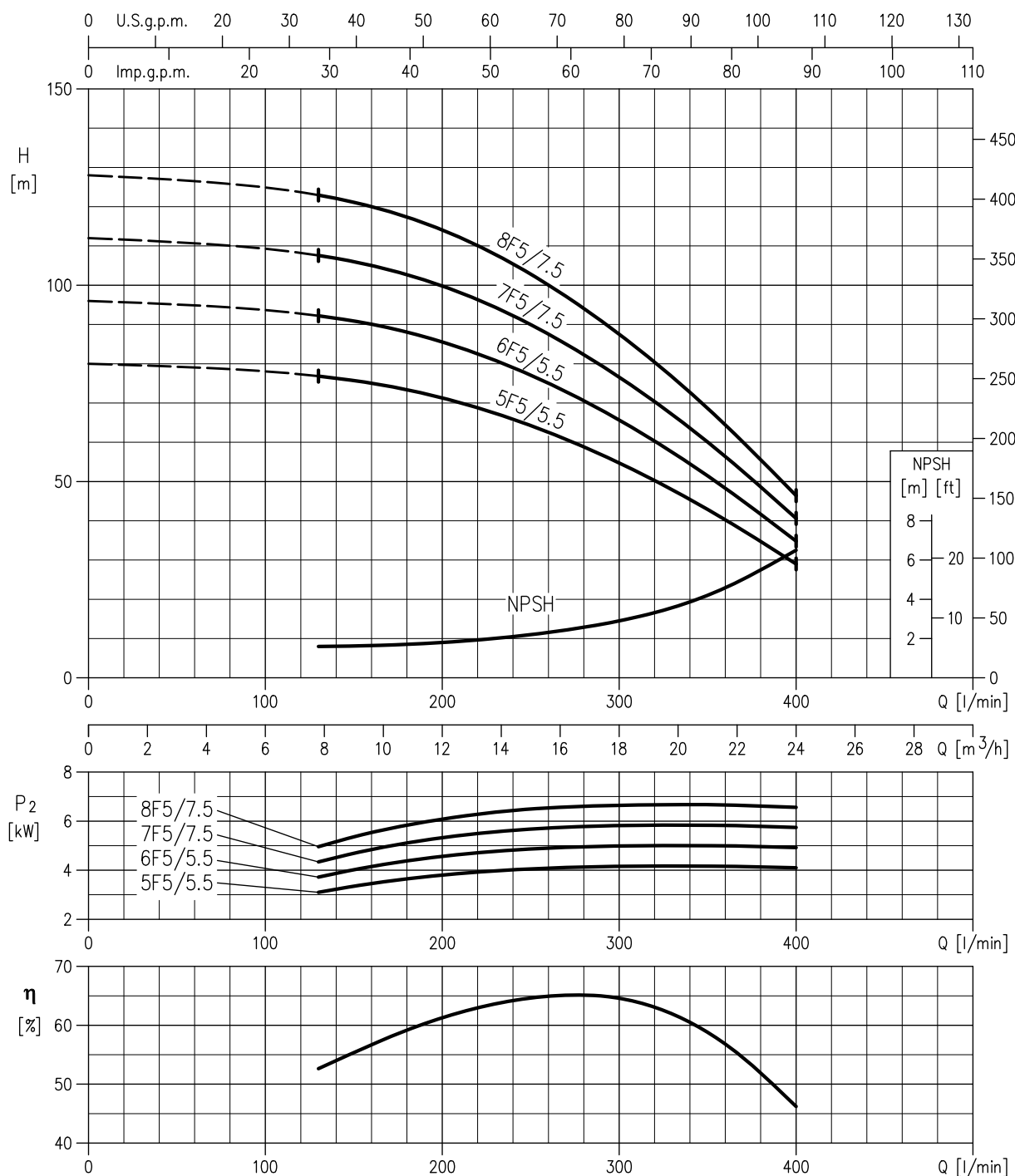
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



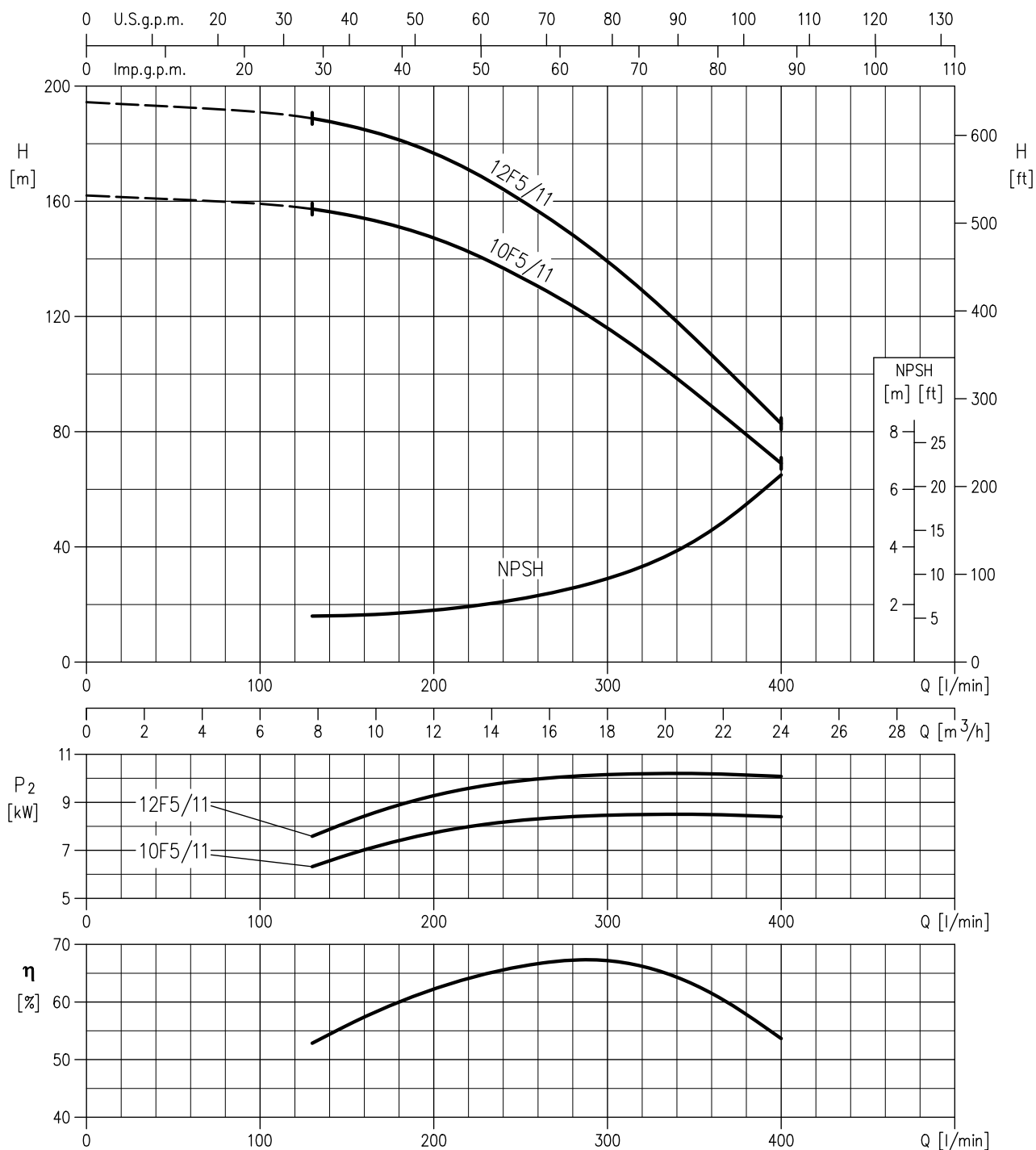
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



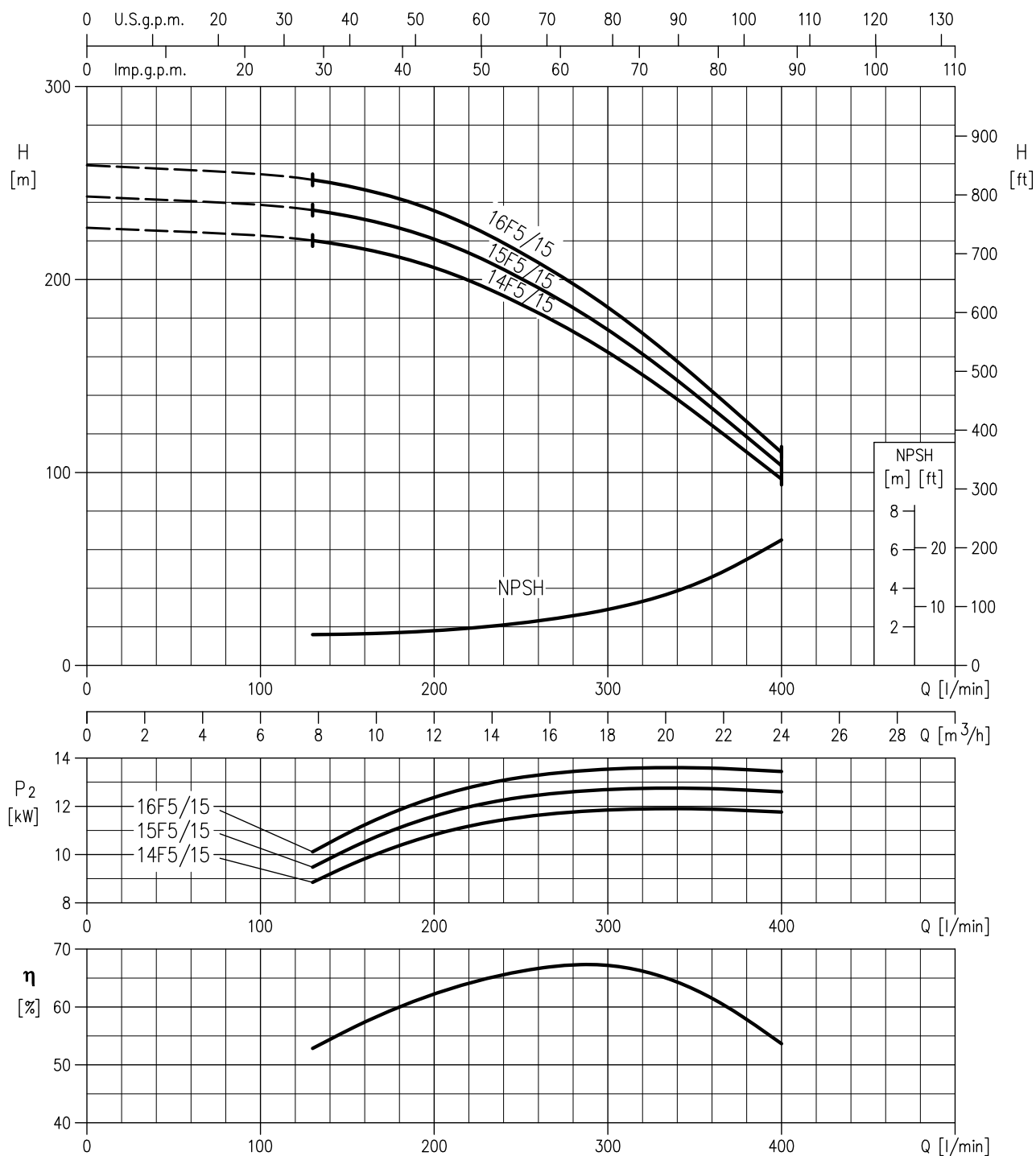
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



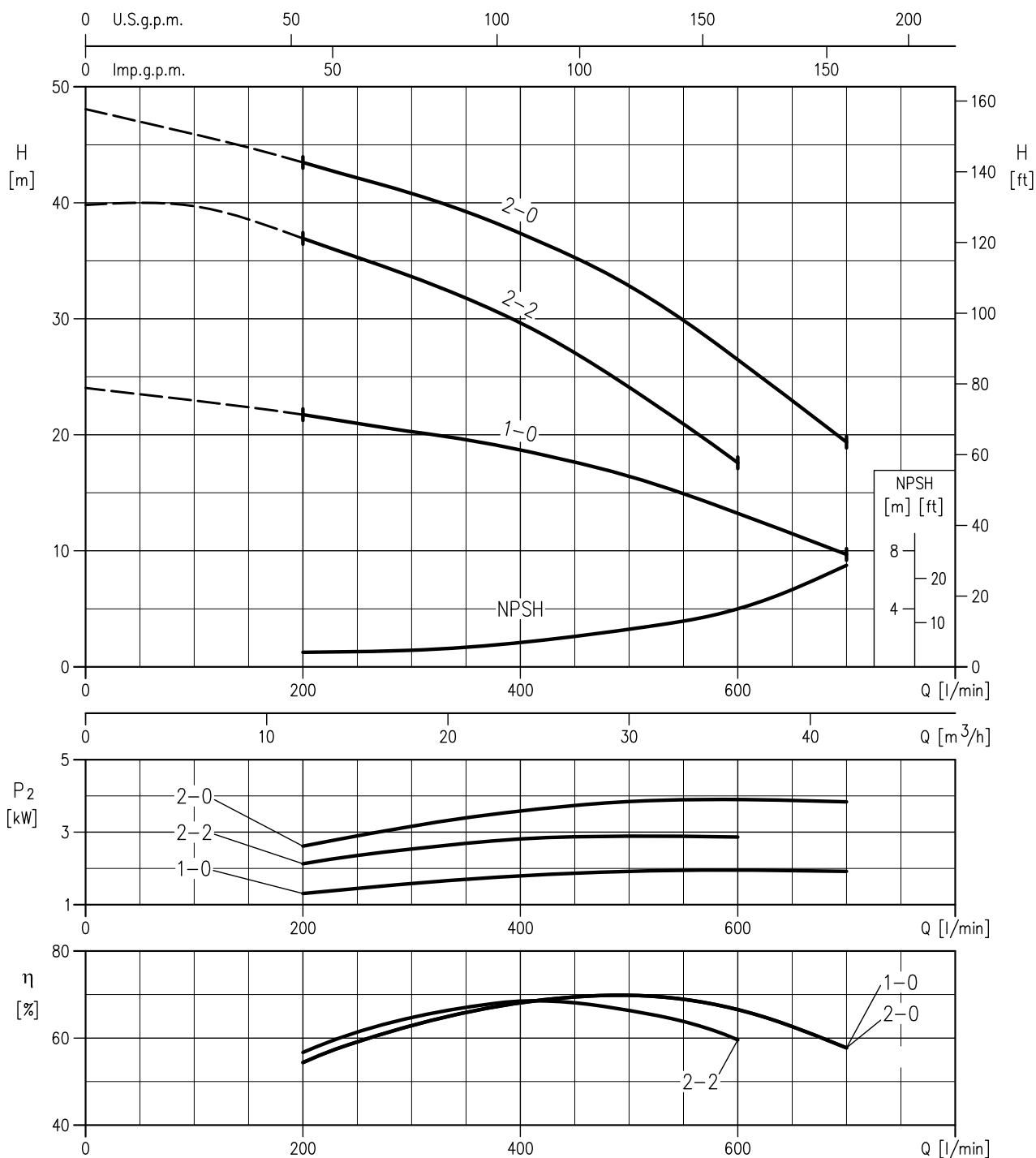
Rotation speed $\approx 2850 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. J

EVM32 1-0 F5 2.2 (2.2kW) MEI > 0.60 no.1 impeller diameter = 136 mm
 EVM32 2-2F5 3.0 (3.0 kW) MEI > 0.60 no.2 impellers diameter = 125 mm
 EVM32 2-0 F5 4.0 (4.0kW) MEI > 0.60 no.2 impellers diameter = 136 mm



Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

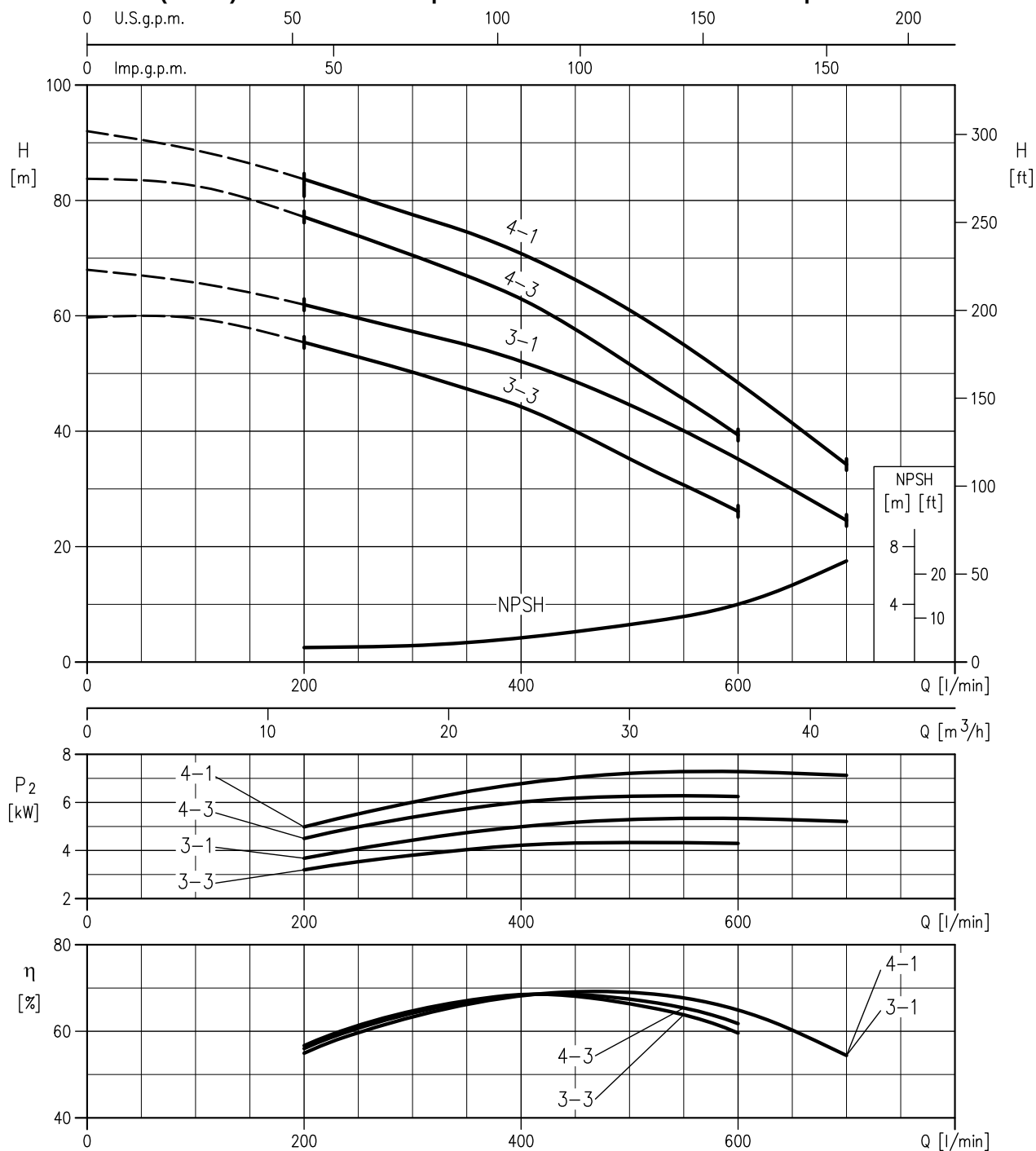
Rev. J

EVM32 3-3 F5 5.5 (5.5kW) MEI > 0.60 no.3 impellers diameter = 125 mm

EVM32 3-1 F5 5.5 (5.5kW) MEI > 0.60 no.2 impellers diameter = 136 mm / no. 1 impeller diameter = 125mm

EVM32 4-3 F5 7.5 (7.5kW) MEI > 0.60 no.1 impeller diameter = 136 mm / no. 3 impellers diameter= 125 mm

EVM32 4-1 F5 7.5 (7.5kW) MEI > 0.60 no.3 impellers diameter = 136 mm / no. 1 impeller diameter = 125 mm



Rotation speed $\approx 2900 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

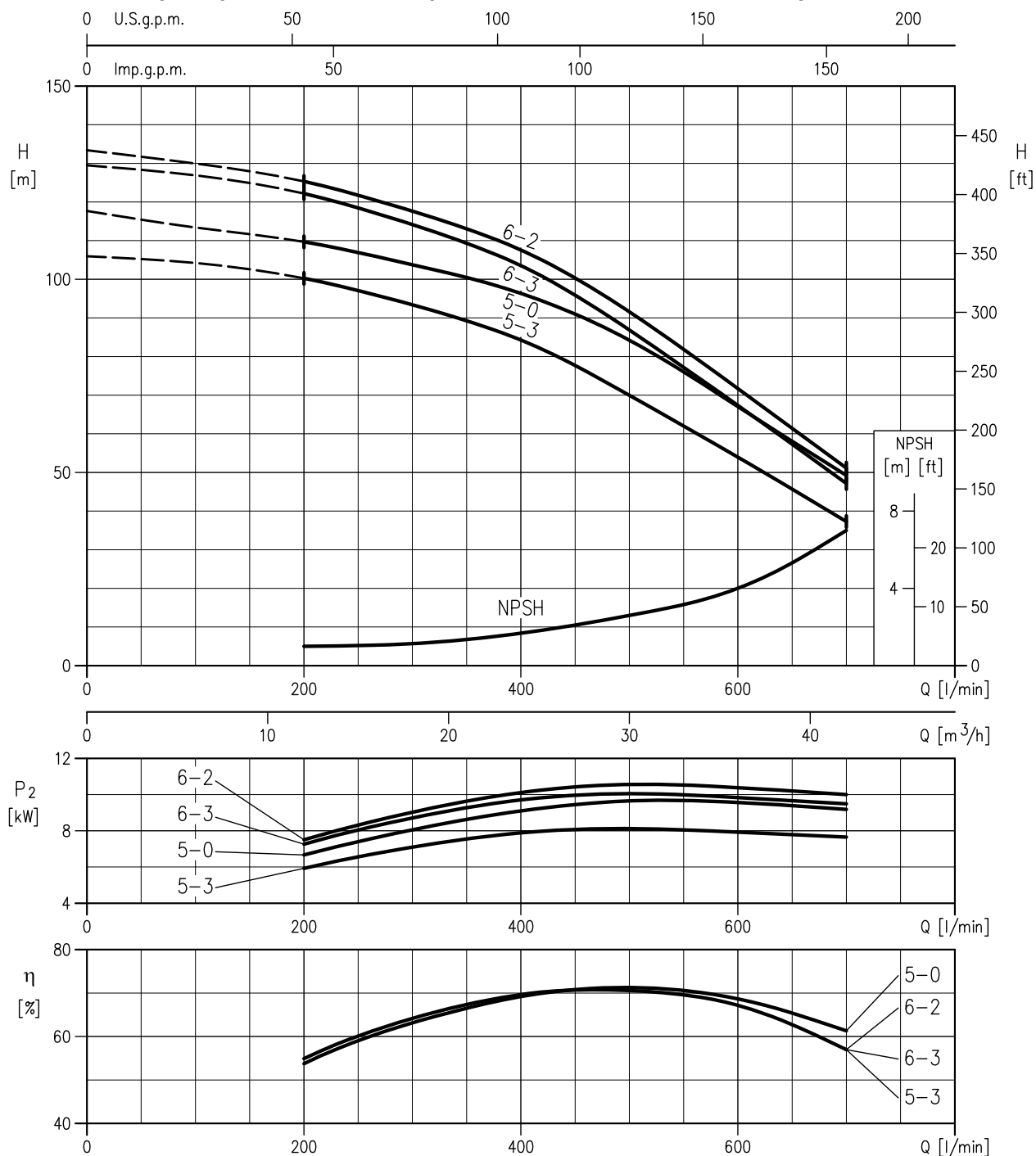
Rev. J

EVM32 5-3 F5 11 (11kW) MEI > 0.60 no.2 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm

EVM32 5-0 F5 11 (11kW) MEI > 0.60 no.5 impellers diameter = 136 mm

EVM32 6-3 F5 11 (11kW) MEI > 0.60 no.3 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm

EVM32 6-2 F5 11 (11kW) MEI > 0.60 no. 6 impellers diameter = 136 mm / no.2 impellers diameter= 125mm



Rotation speed $\approx 2930 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

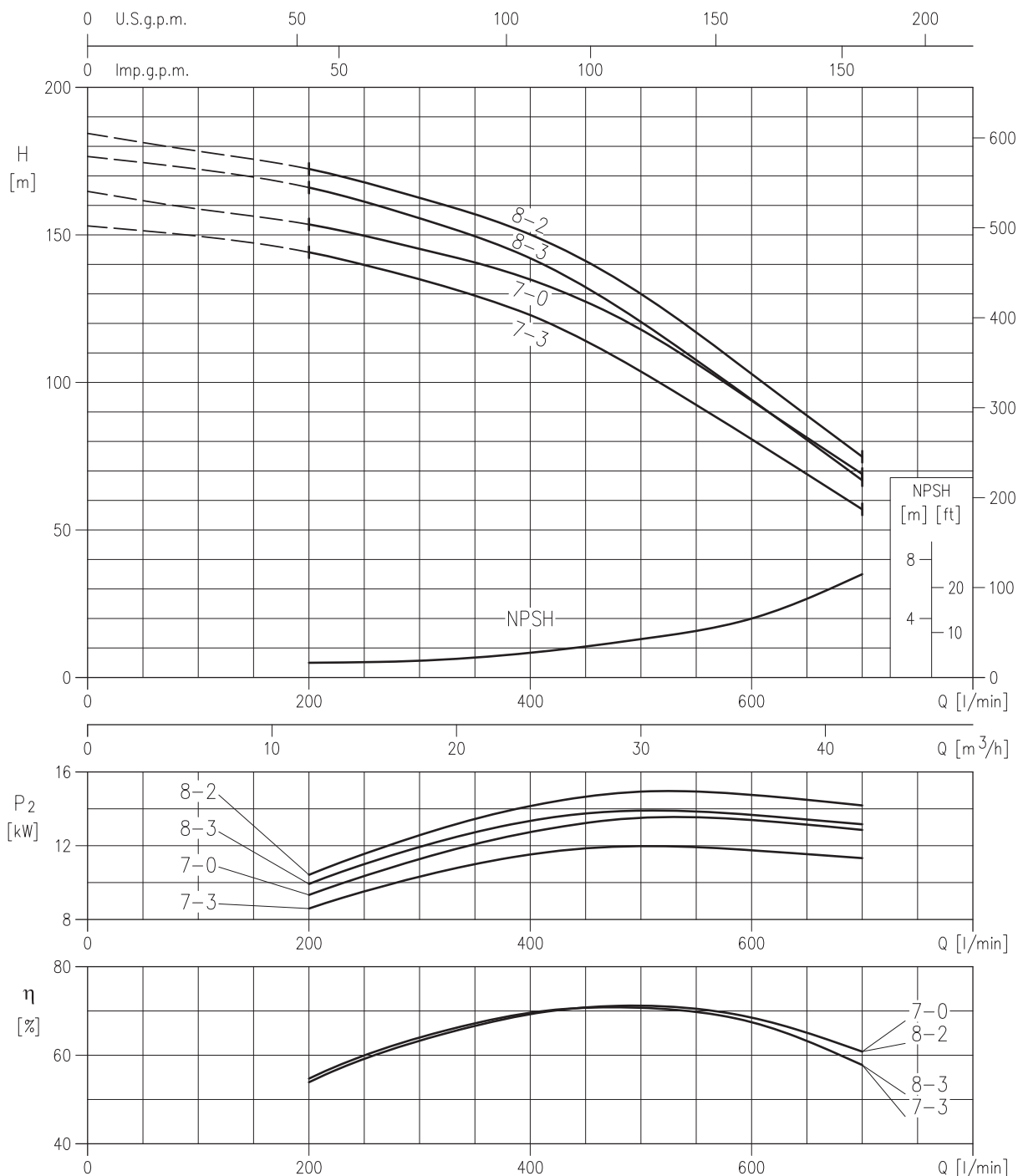
Rev. J

EVM32 7-3 F5 15 (15kW) MEI > 0.60 no.4 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm

EVM32 7-0 F5 15 (15kW) MEI > 0.60 no.7 impellers diameter = 136 mm

EVM32 8-3 F5 15 (15kW) MEI > 0.60 no.5 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm

EVM32 8-2 F5 15 (15kW) MEI > 0.60 no.6 impellers diameter = 136 mm / no. 2 impeller diameter = 125 mm



Rotation speed $\approx 2930 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

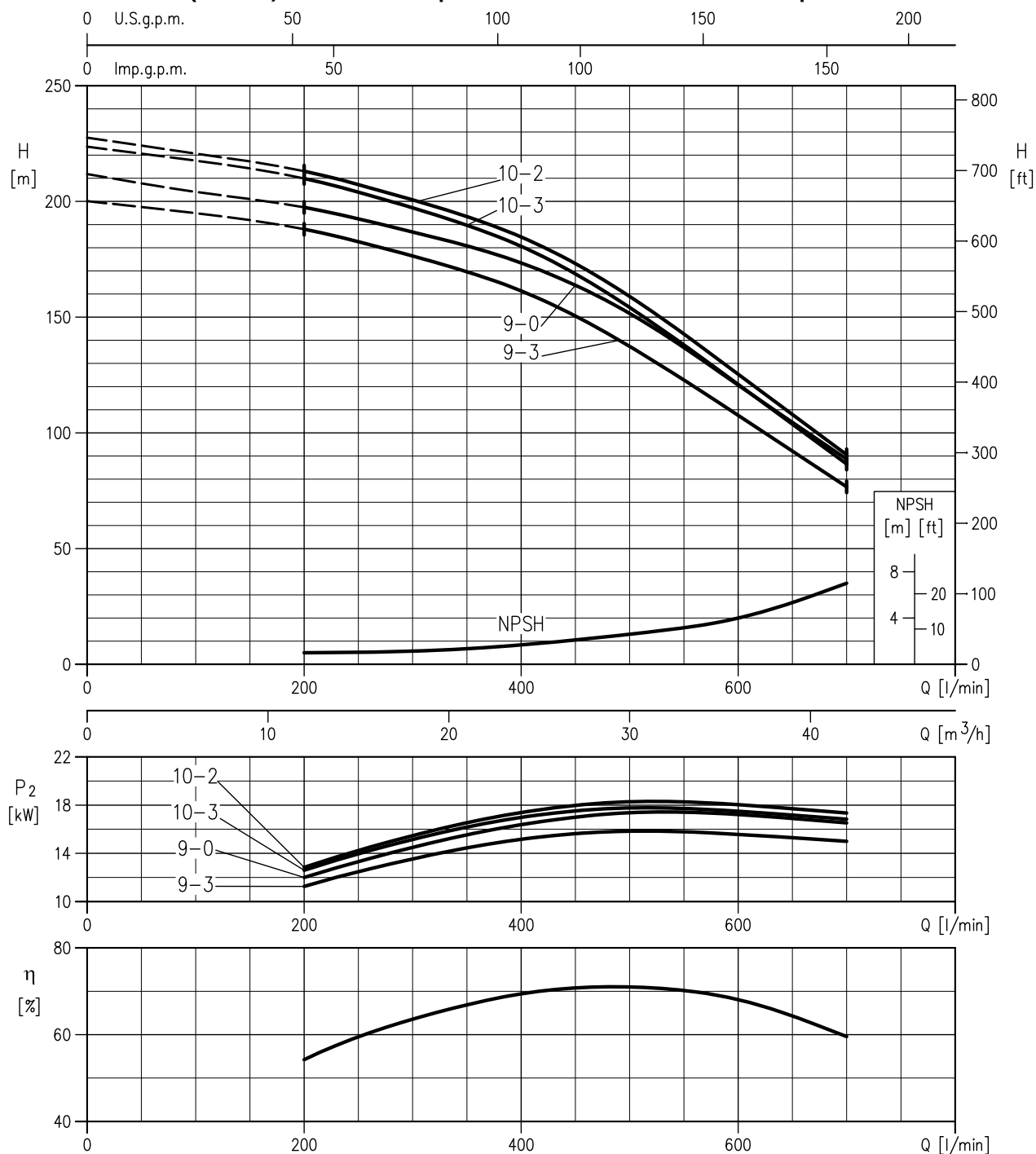
Rev. J

EVM32 9-3 F5 18.5 (18.5kW)MEI>0.60 no.6 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm

EVM32 9-0 F5 18.5 (18.5kW)MEI > 0.60 no.9 impellers diameter= 136 mm

EVM32 10-3 F5 18.5 (18.5kW)MEI>0.60no.7 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm

EVM32 10-2 F5 18.5 (18.5kW)MEI>0.60no.8 impellers diameter= 136 mm / no.2 impeller diameter = 125 mm



Rotation speed $\approx 2930 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

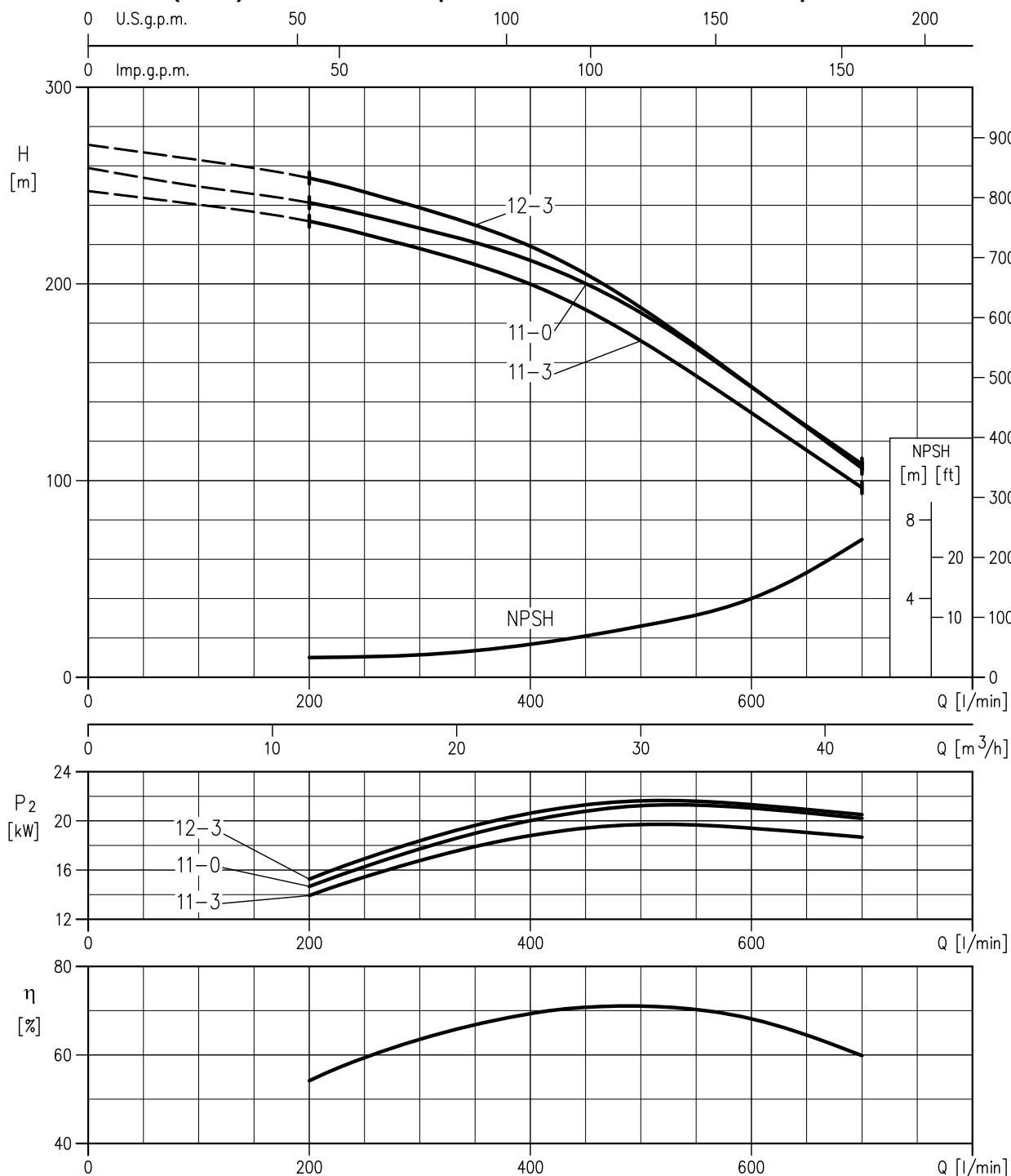
50Hz

Rev. J

EVM32 11-3 F5 22 (22kW) MEI>0.60 no. 8 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm

EVM32 11-0 F5 22 (22kW) MEI>0.60 no.11 impellers diameter= 136 mm

EVM32 12-3 F5 22 (22kW) MEI >0.60 no. 9 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm



Rotation speed $\approx 2930 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

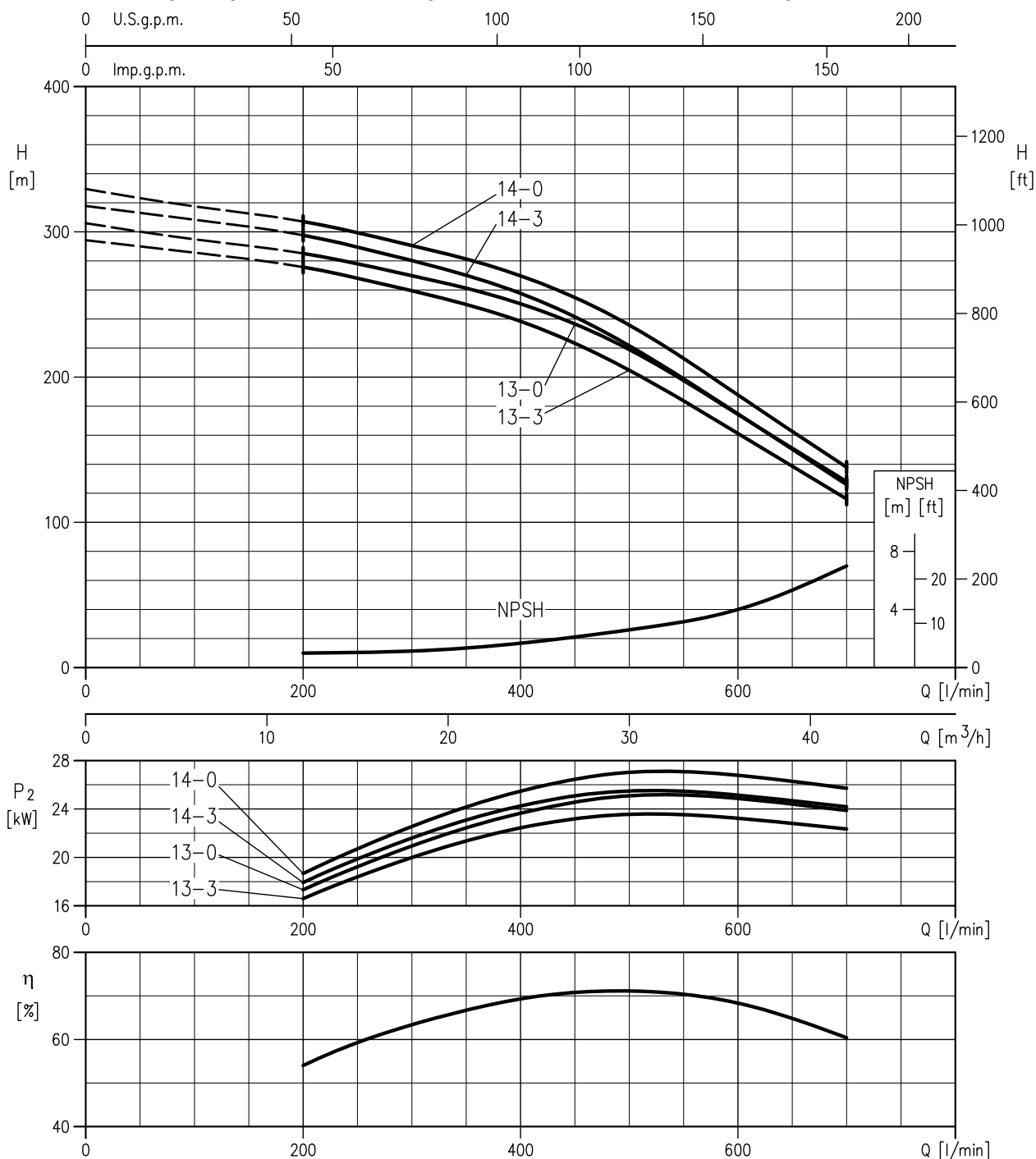
Rev. J

EVM32 13-3 F5 30 (30kW)MEI>0.60 no.10 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm

EVM32 13-0 F5 30 (30kW)MEI>0.60 no.13 impellers diameter= 136 mm

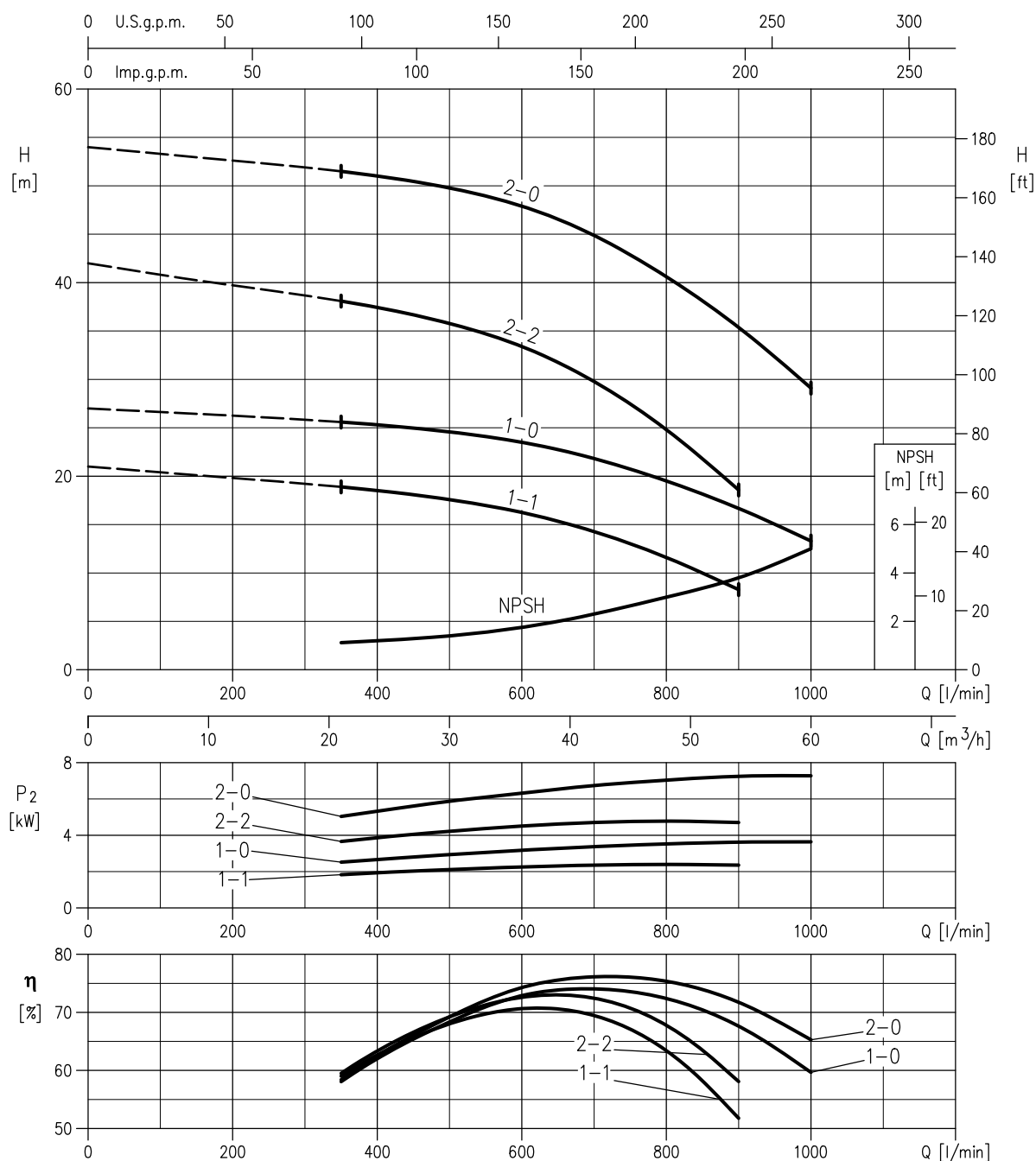
EVM32 14-3 F5 30 (30kW)MEI>0.60 no.11 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm

EVM32 14-0 F5 30 (30kW)MEI>0.60 no.14 impellers diameter= 136 mm /no.1 impellers diameter = 125 mm



Rotation speed $\approx 2960 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

EVM45 1-1 F5 3.0 (3.0kW) MEI > 0.70 no.1 impeller diameter = 127 mm
 EVM45 1-0 F5 4.0 (4.0kW) MEI > 0.70 no.1 impeller diameter = 143 mm
 EVM45 2-2 F5 5.5 (5.5kW) MEI > 0.70 no.2 impellers diameter = 127 mm
 EVM45 2-0 F5 7.5 (7.5kW) MEI > 0.70 no.2 impellers diameter = 143 mm



Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

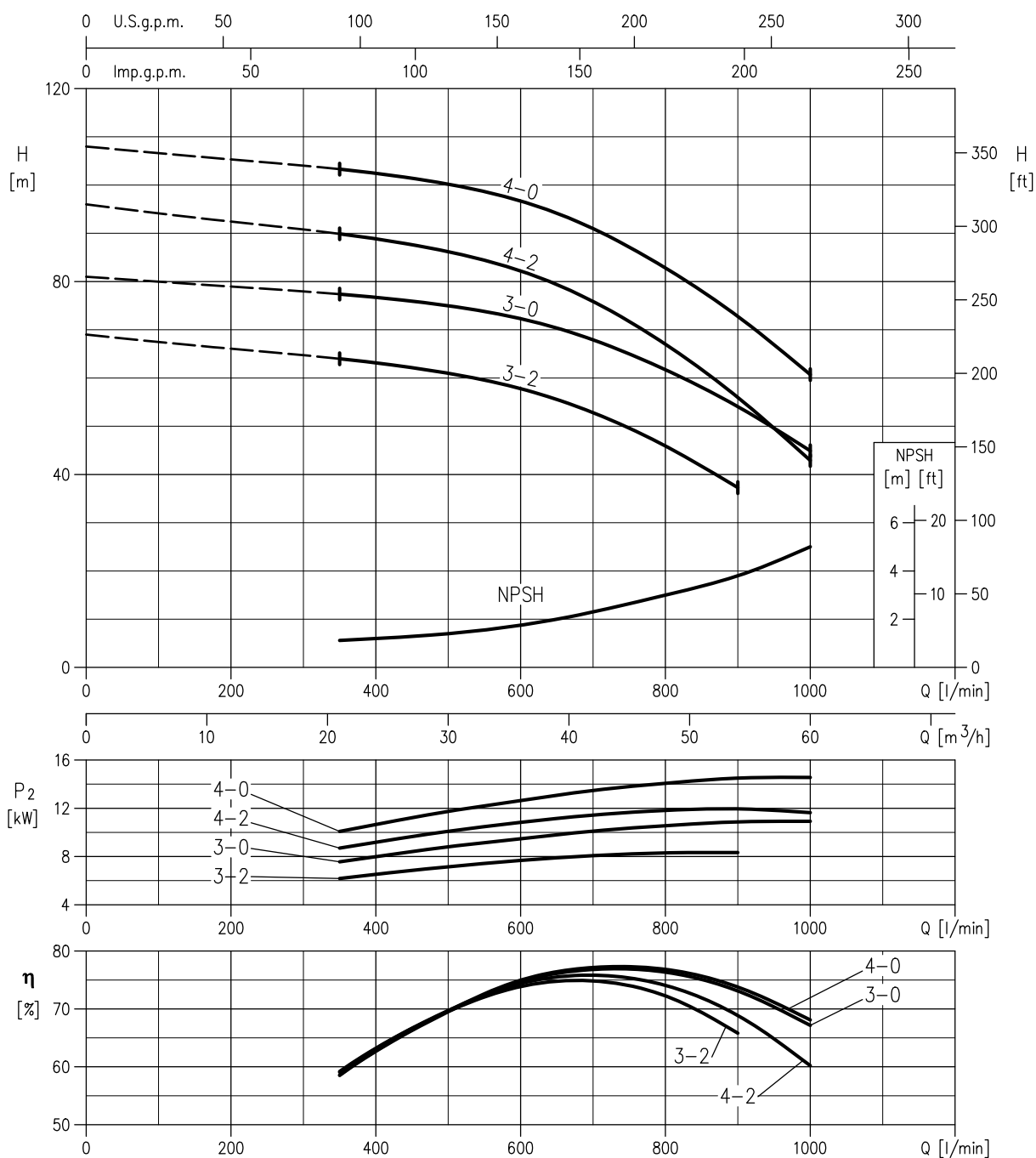
Rev. J

EVM45 3-2 F5 11 (11kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.2 impellers diameter= 127 mm

EVM45 3-0 F5 11 (11kW) MEI > 0.70 no.3 impellers diameter = 143 mm

EVM45 4-2 F5 15 (15kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.2 impellers diameter= 127 mm

EVM45 4-0 F5 15 (15kW) MEI > 0.70 no.4 impellers diameter = 143 mm



Rotation speed $\approx 2930 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

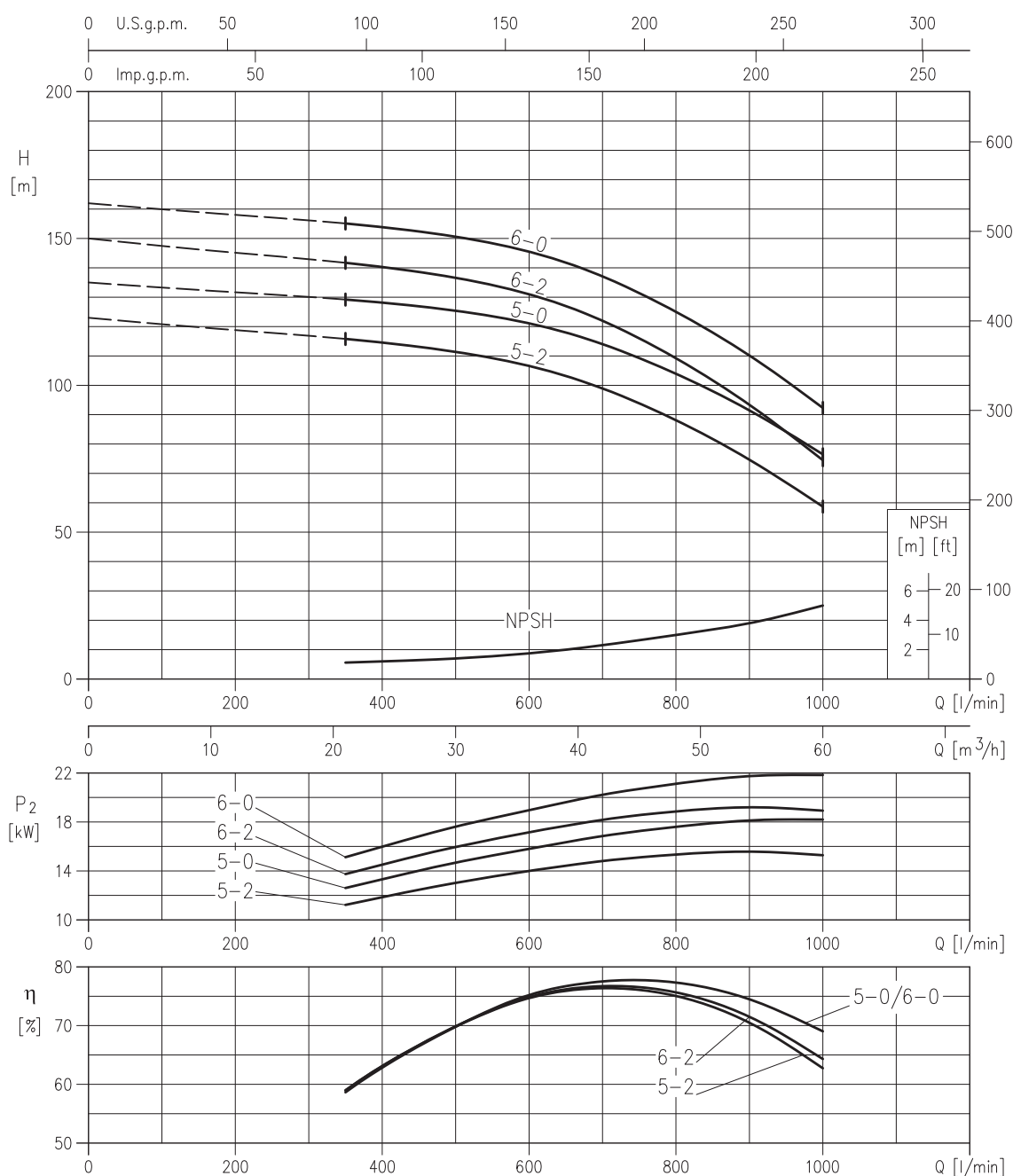
Rev. J

EVM45 5-2 F5 18.5 (18.5kW) MEI>0.70 no.3 impellers diameter = 143 mm/no.2 impellers diameter= 127 mm

EVM45 5-0 F5 18.5 (18.5kW) MEI > 0.70 no.5 impellers diameter = 143 mm

EVM45 6-2 F5 22 (22kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.2 impellers diameter= 127 mm

EVM45 6-0 F5 22 (22kW) MEI > 0.70 no.6 impellers diameter = 143 mm



Rotation speed $\approx 2940 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

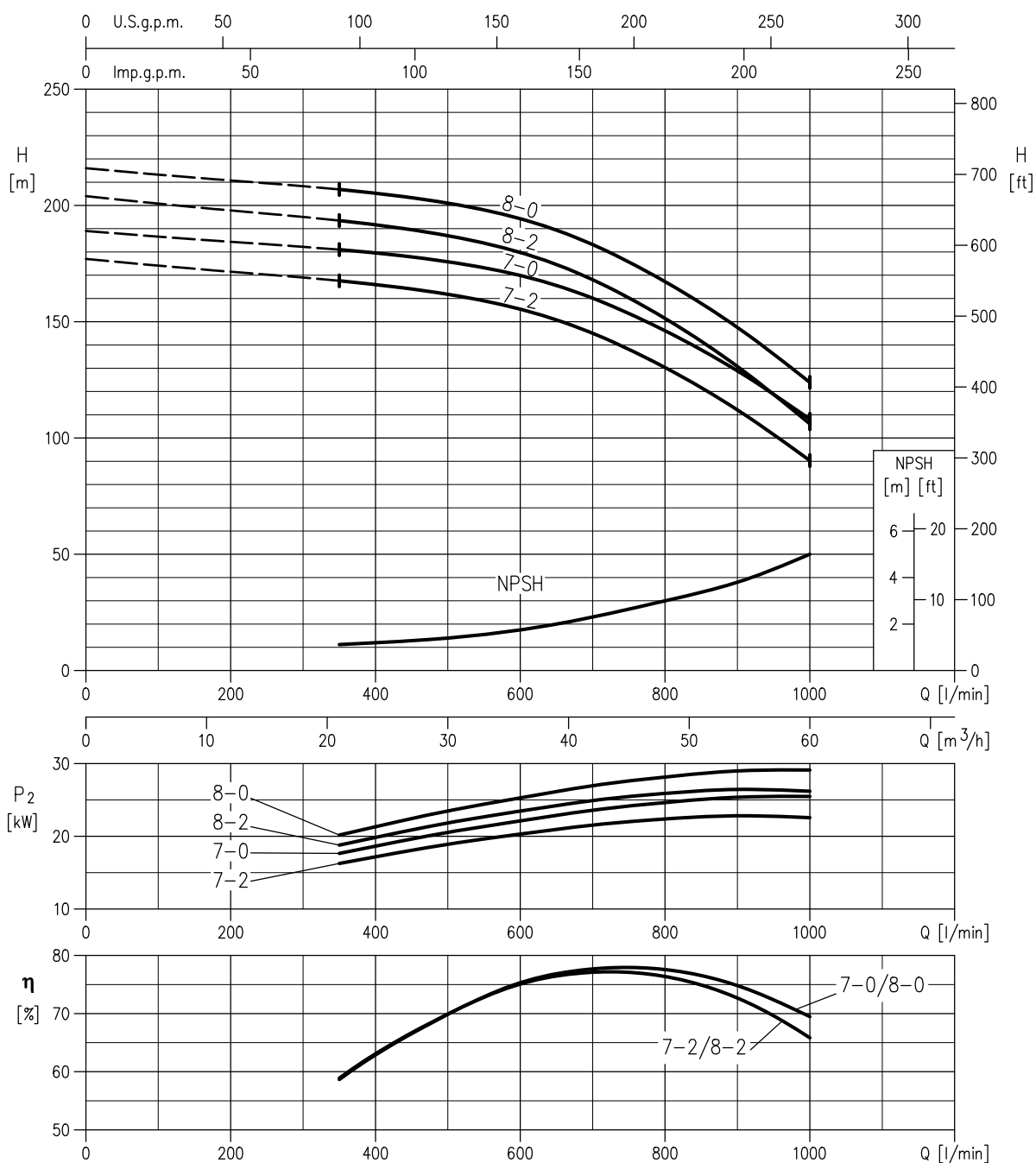
Rev. J

EVM45 7-2 F5 30 (30kW) MEI > 0.70 no.5 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm

EVM45 7-0 F5 30 (30kW) MEI > 0.70 no.7 impellers diameter = 143 mm

EVM45 8-2 F5 30 (30kW) MEI > 0.70 no.6 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm

EVM45 8-0 F5 30 (30kW) MEI > 0.70 no.8 impellers diameter = 143 mm



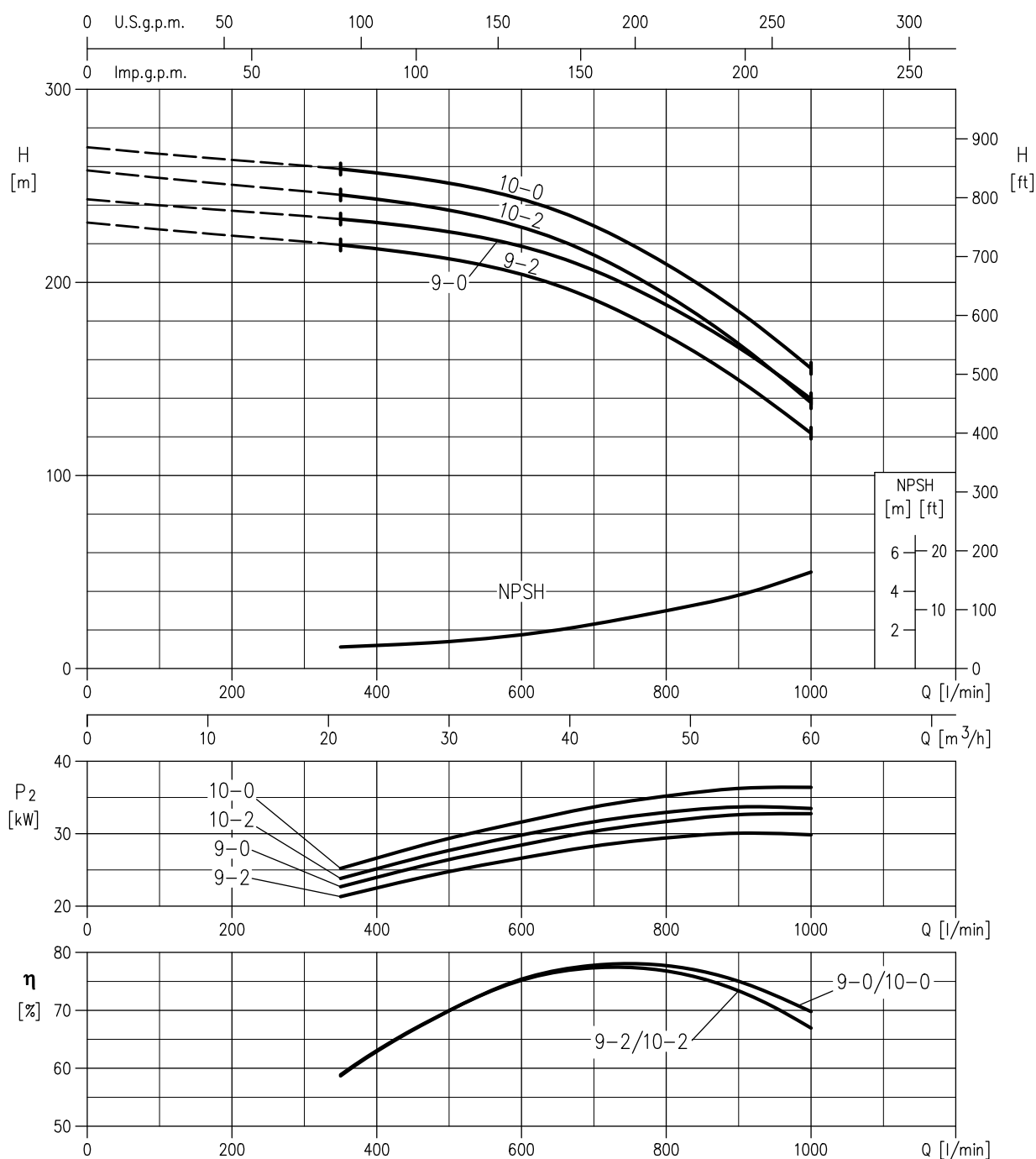
Rotation speed $\approx 2960 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

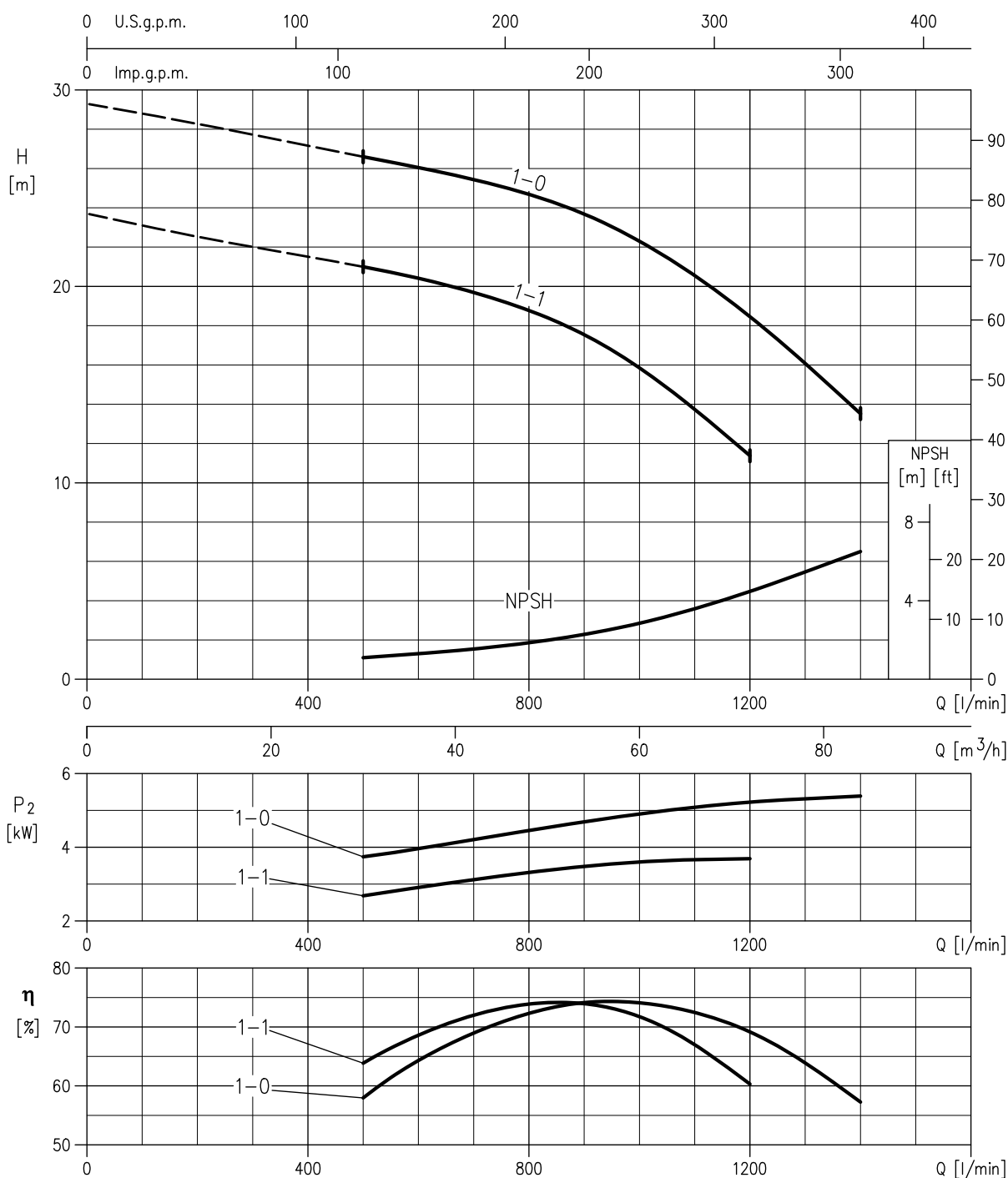
Rev. J

EVM45 9-2 F5 30 (30kW) MEI > 0.70 no.7 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm
 EVM45 9-0 F5 37 (37kW) MEI > 0.70 no.9 impellers diameter = 143 mm
 EVM45 10-2 F5 37 (37kW) MEI > 0.70 no.8 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm
 EVM45 10-0 F5 37 (37kW) MEI > 0.70 no.10 impellers diameter = 143 mm



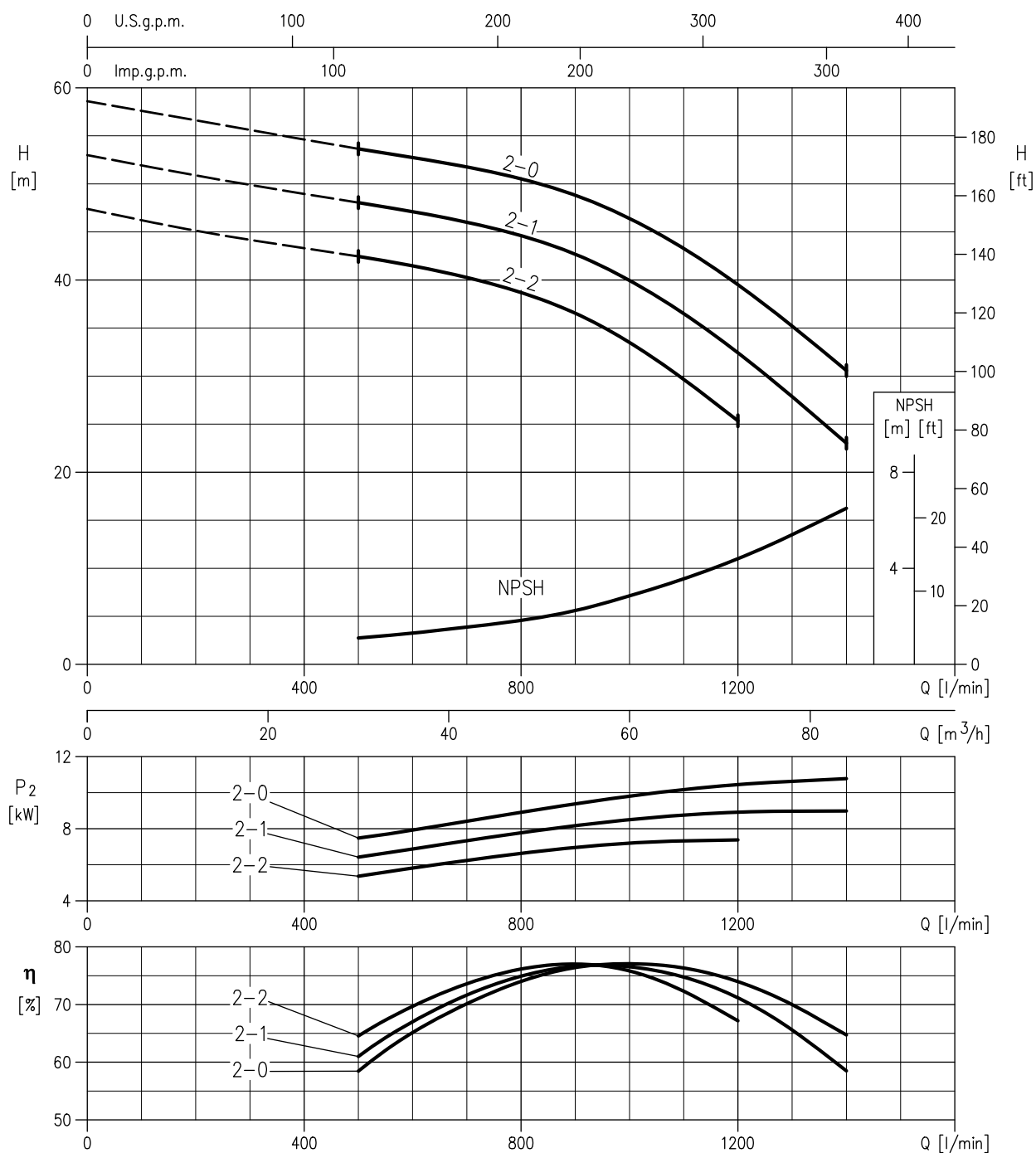
Rotation speed $\approx 2960 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

EVM64 1-1 F5 4.0 (4.0kW) MEI > 0.70 no.1 impeller diameter= 131 mm
EVM64 1-0 F5 5.5 (5.5kW) MEI > 0.70 no.1 impeller diameter= 143 mm



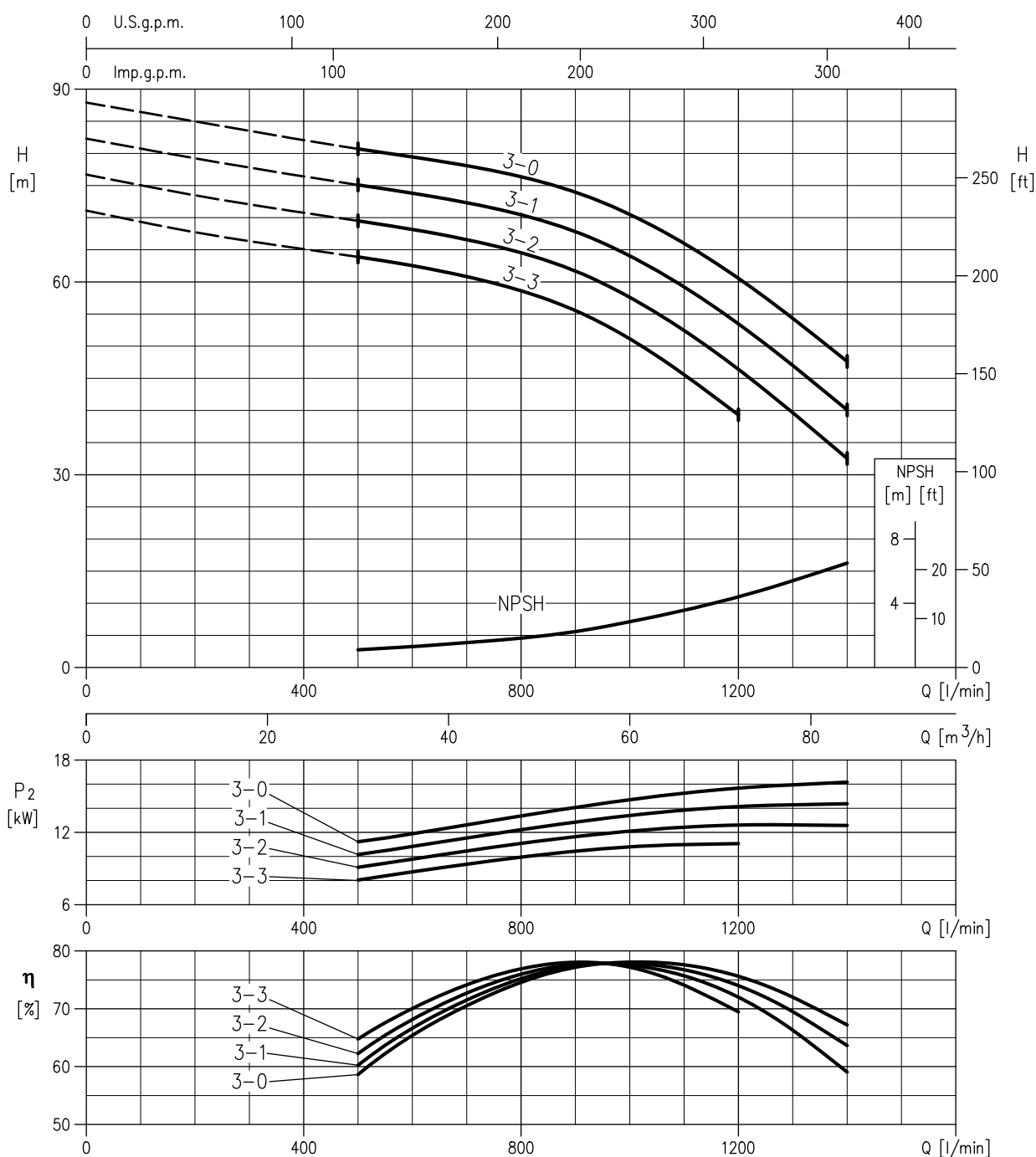
Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

EVM64 2-2 F5 7.5 (7.5kW) MEI > 0.70 no.2 impellers diameter = 131 mm
 EVM64 2-1 F5 11 (11kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.1 impeller diameter = 131mm
 EVM64 2-0 F5 11 (11kW) MEI > 0.70 no.2 impellers diameter = 143 mm



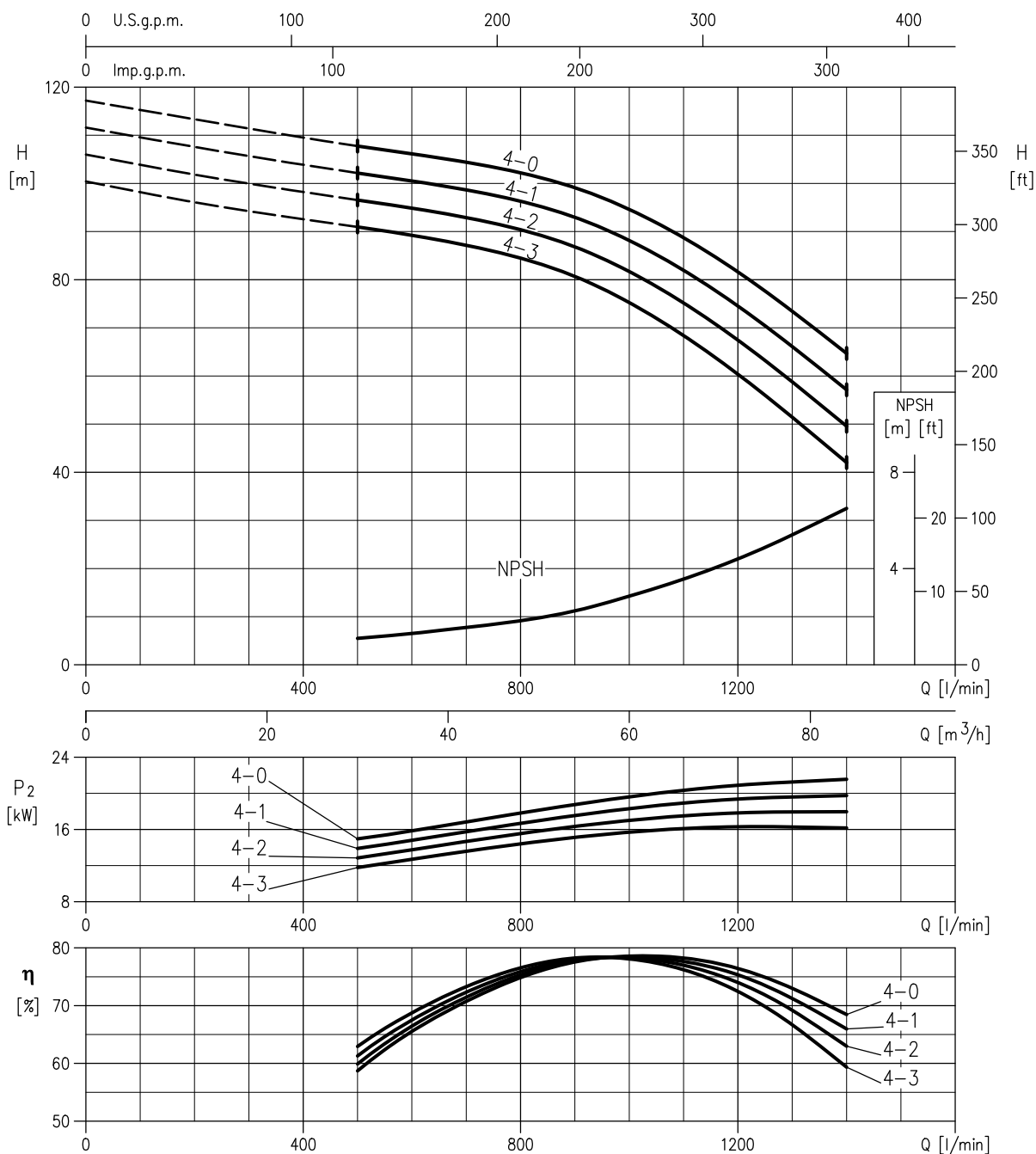
Rotation speed $\approx 2930 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

EVM64 3-3 F5 15 (15kW) MEI > 0.70 no.3 impellers diameter = 131 mm
 EVM64 3-2 F5 15 (15kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.2 impellers diameter = 131mm
 EVM64 3-1 F5 15 (15kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.1 impeller diameter = 131mm
 EVM64 3-0 F5 18.5 (18.5kW) MEI > 0.70 no.3 impellers diameter = 143 mm



Rotation speed $\approx 2940 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

EVM64 4-3 F5 18.5 (18.5kW) MEI > 0.70 no.1 impeller diameter = 143 mm/no.3 impellers diameter = 131mm
 EVM64 4-2 F5 18.5 (18.5kW) MEI > 0.70 no.2 impellers diameter = 143 mm/no.2 impellers diameter=131mm
 EVM64 4-1 F5 22 (22kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.1 impeller diameter = 131mm
 EVM64 4-0 F5 22 (22.5kW) MEI > 0.70 no.4 impellers diameter = 143 mm



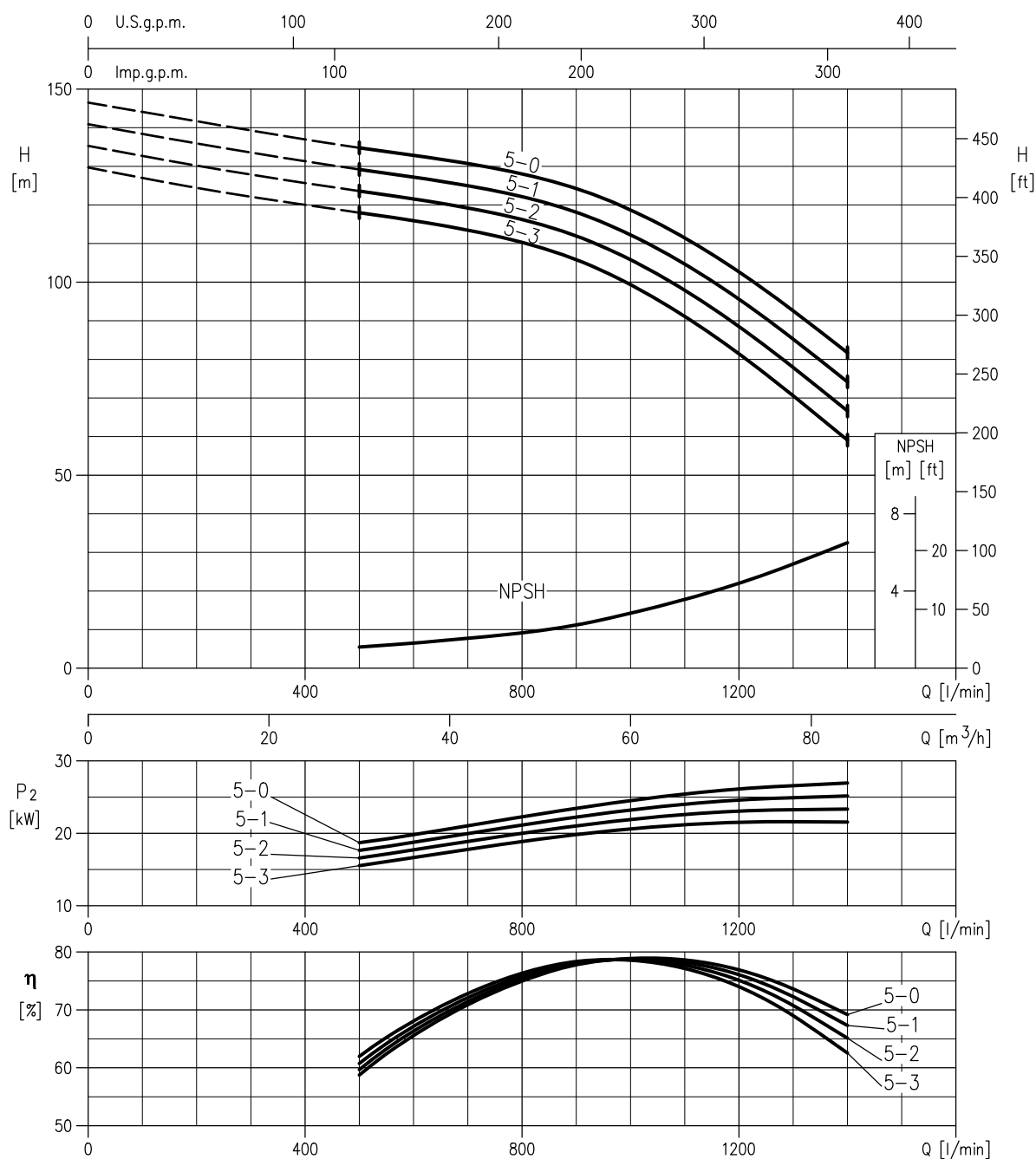
Rotation speed $\approx 2940 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. J

EVM64 5-3 F5 30 (30kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.3 impellers diameter = 131mm
 EVM64 5-2 F5 30 (30kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.2 impellers diameter = 131mm
 EVM64 5-1 F5 30 (30kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.1 impeller diameter = 131mm
 EVM64 5-0 F5 30 (30kW) MEI > 0.70 no.5 impellers diameter = 143 mm



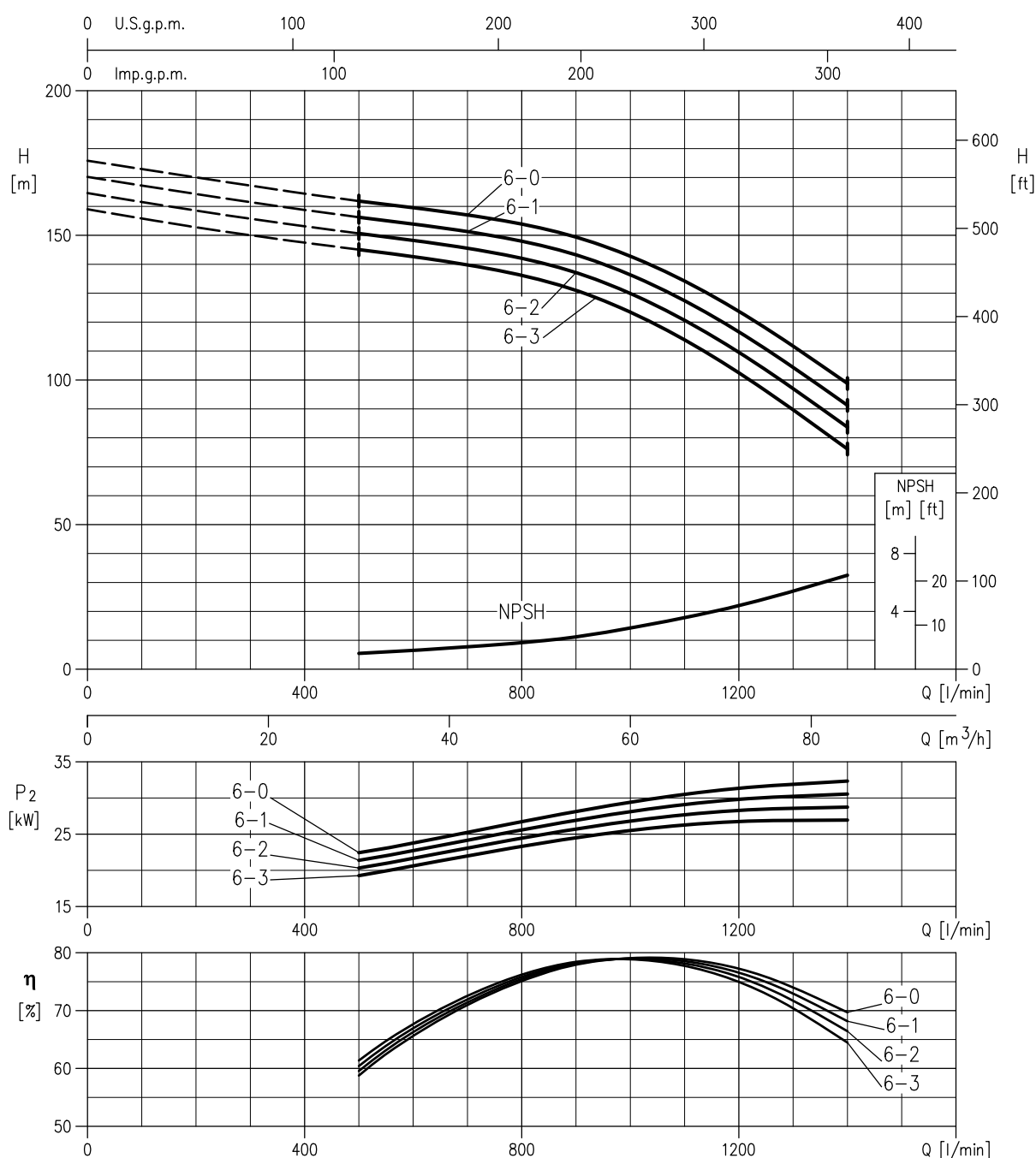
Rotation speed $\approx 2960 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. J

EVM64 6-3 F5 30 (30kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.3 impellers diameter = 131mm
 EVM64 6-2 F5 30 (30kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.2 impellers diameter = 131mm
 EVM64 6-1 F5 37 (37kW) MEI > 0.70 no.5 impellers diameter = 143 mm / no.1 impeller diameter = 131mm
 EVM64 6-0 F5 37 (37kW) MEI > 0.70 no.6 impellers diameter = 143 mm



Rotation speed $\approx 2960 \text{ min}^{-1}$
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

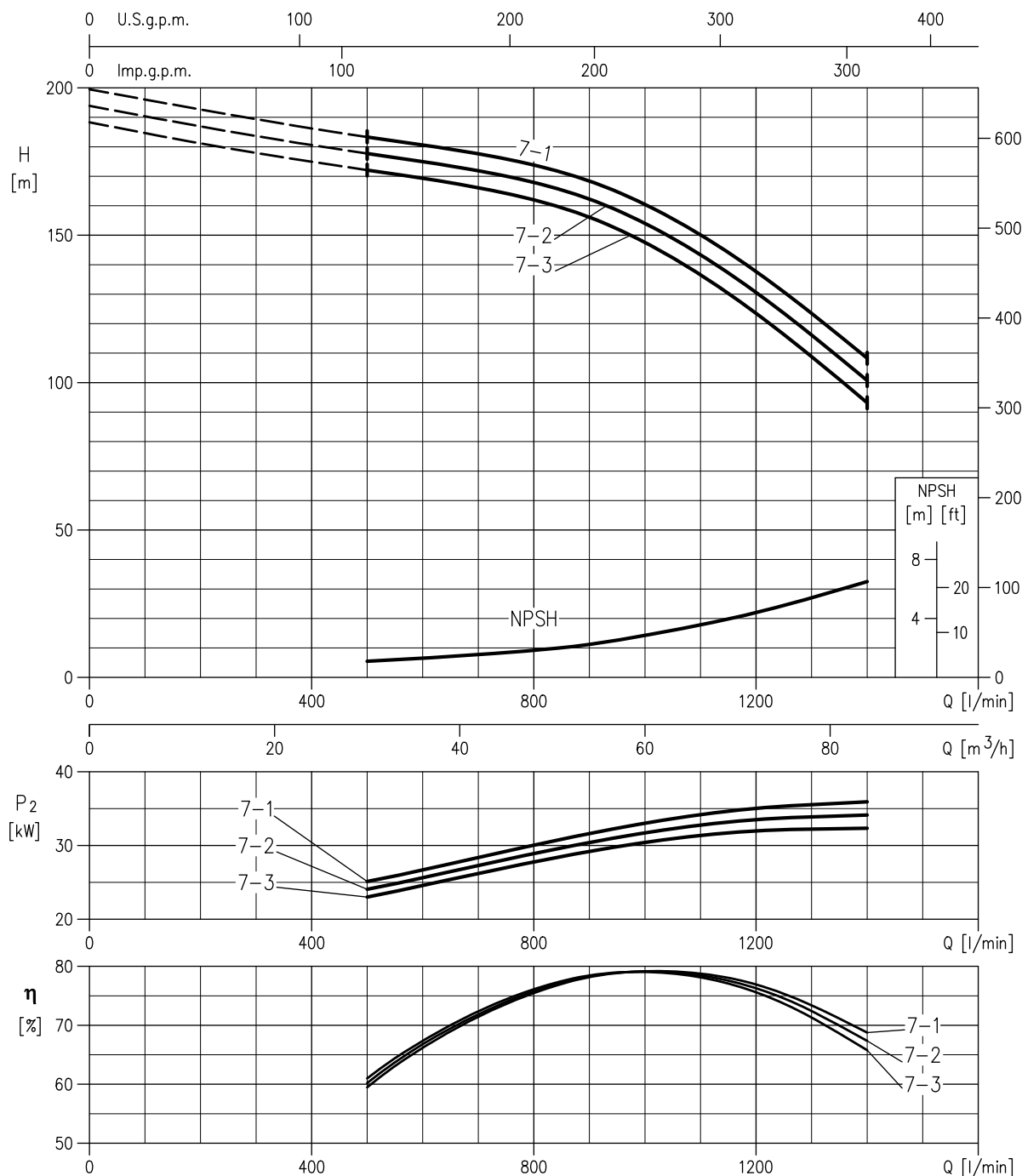
50Hz

Rev. J

EVM64 7-3 F5 37 (37kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.3 impellers diameter = 131mm

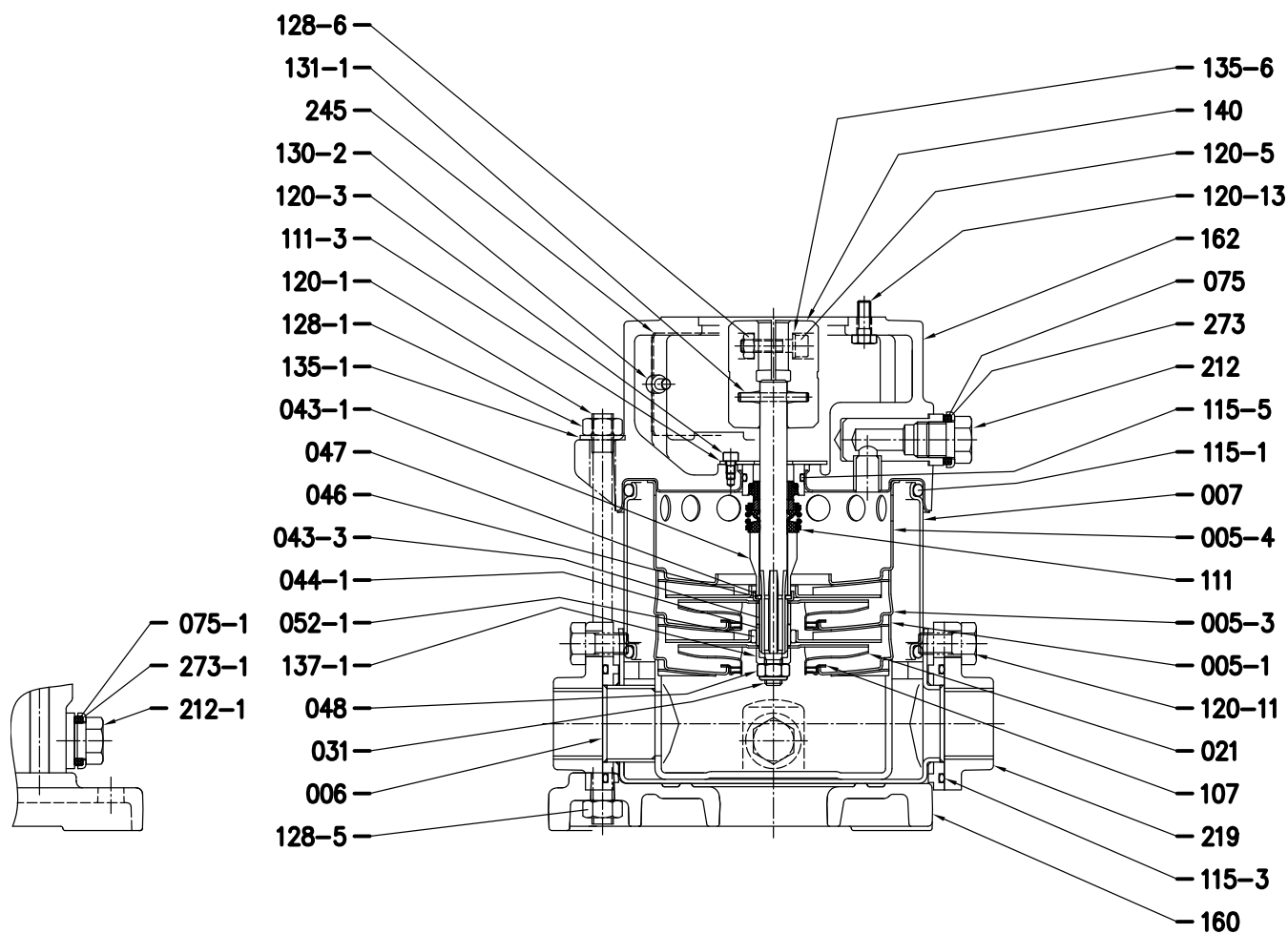
EVM64 7-2 F5 37 (37kW) MEI > 0.70 no.5 impellers diameter = 143 mm / no.2 impellers diameter = 131mm

EVM64 7-1 F5 37 (37kW) MEI > 0.70 no.6 impellers diameter = 143 mm / no.1 impeller diameter = 131mm



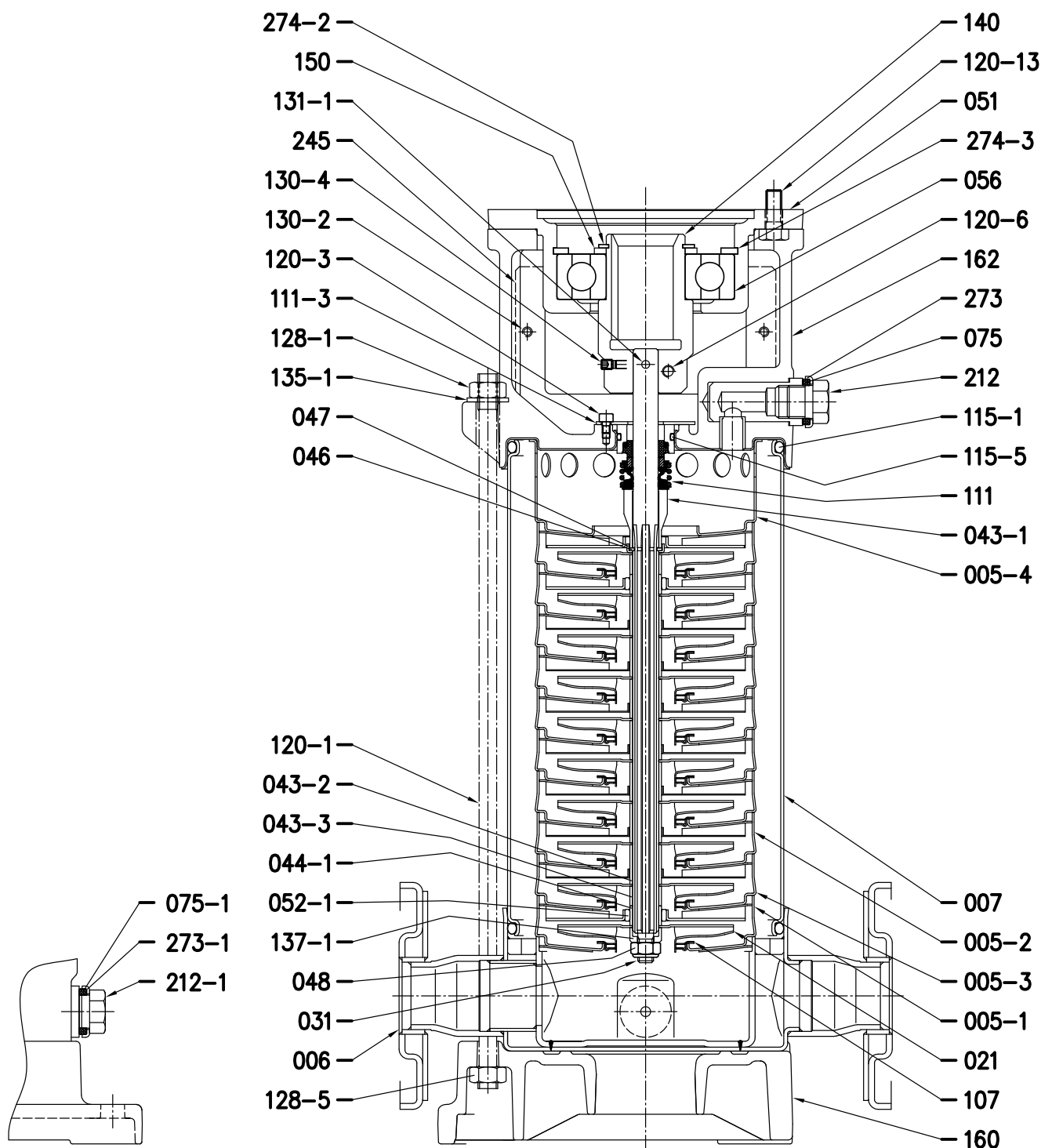
Rotation speed $\approx 2960 \text{ min}^{-1}$
Test standard: ISO 9906-Annex A

SECTIONAL VIEW
EVM(.) 3
Pump without ball bearing



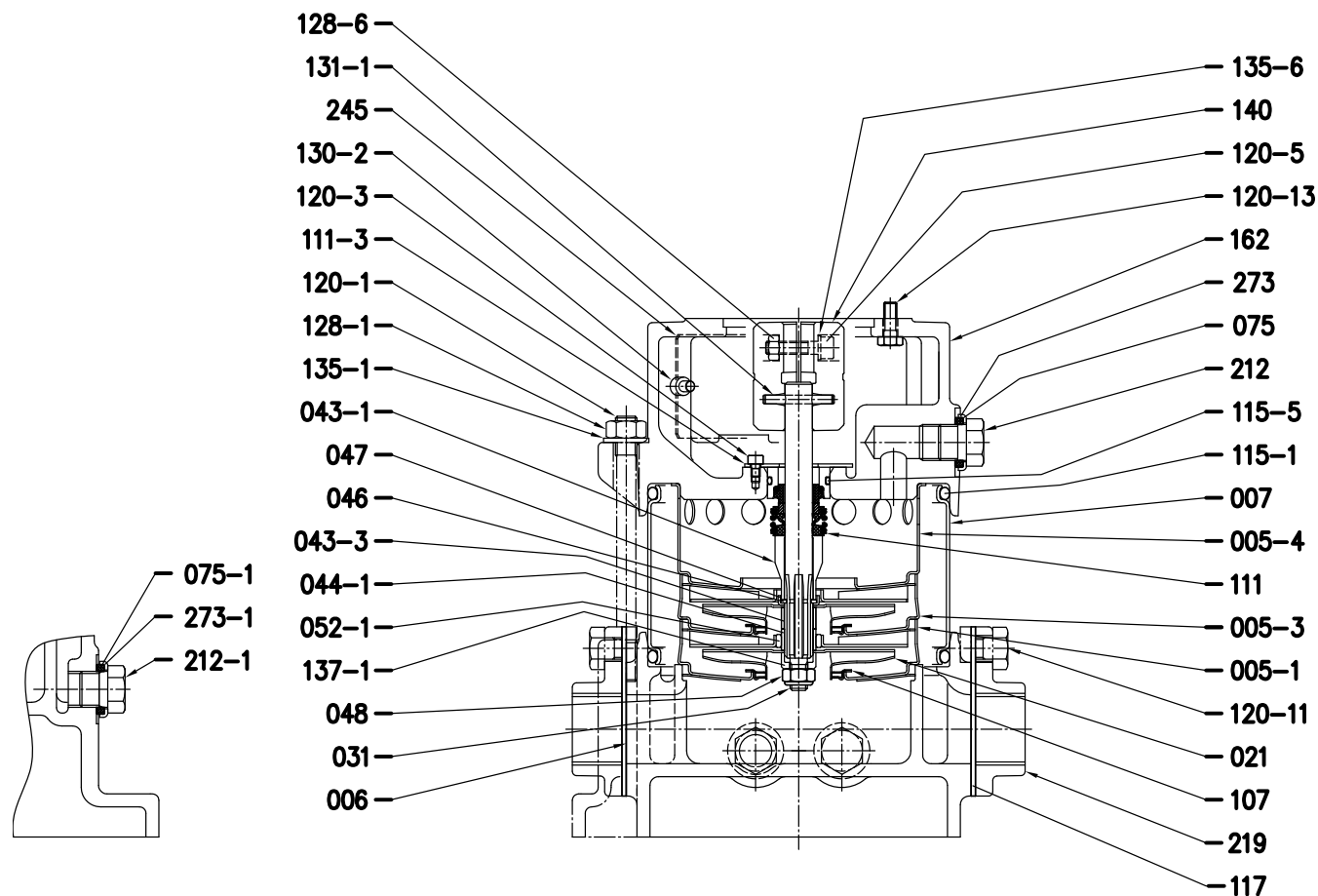
See dimensions page 401

EVM(.) 3
Pump with single ball bearing



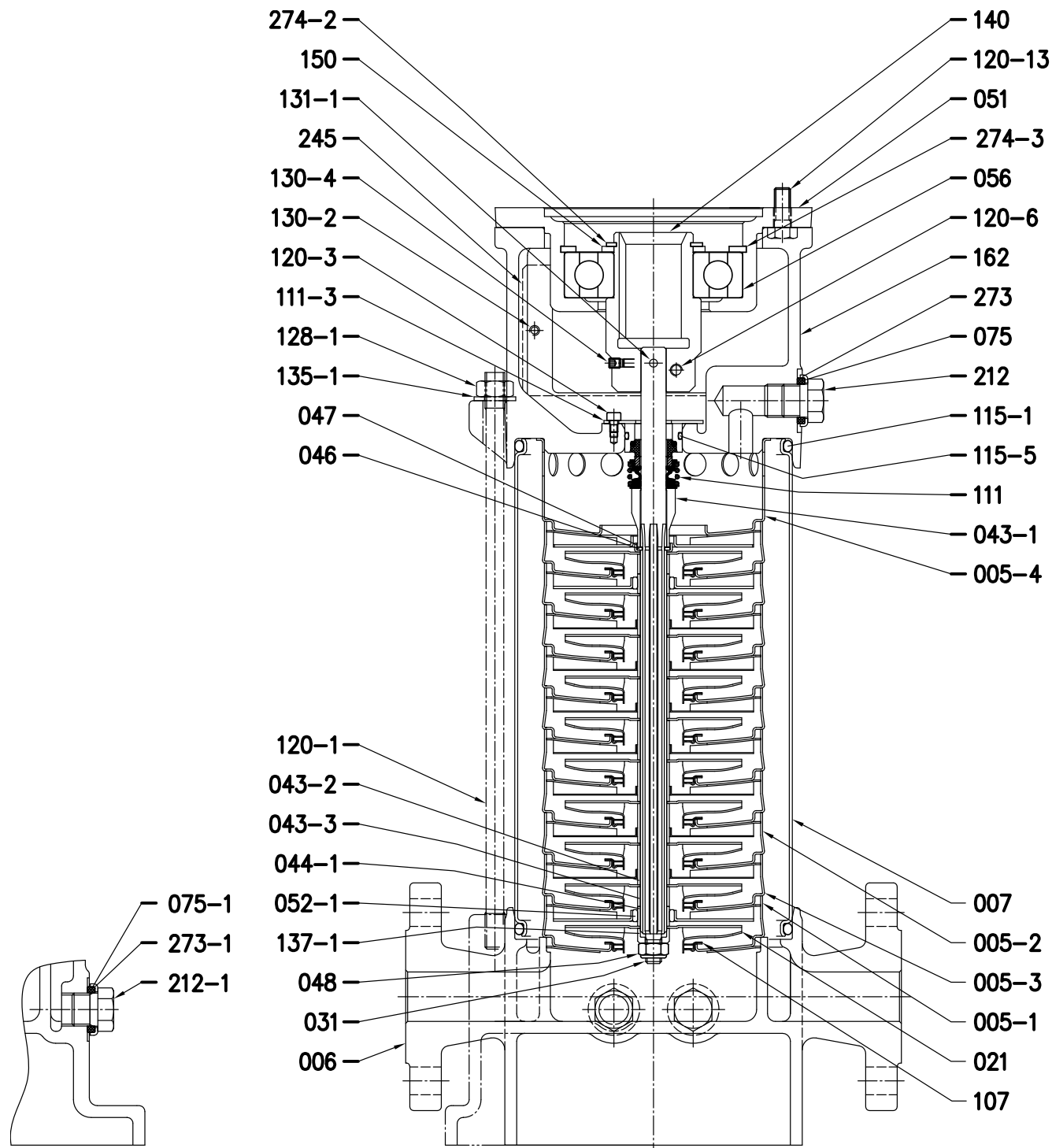
See dimensions page 401

EVMG 3
Pump without ball bearing



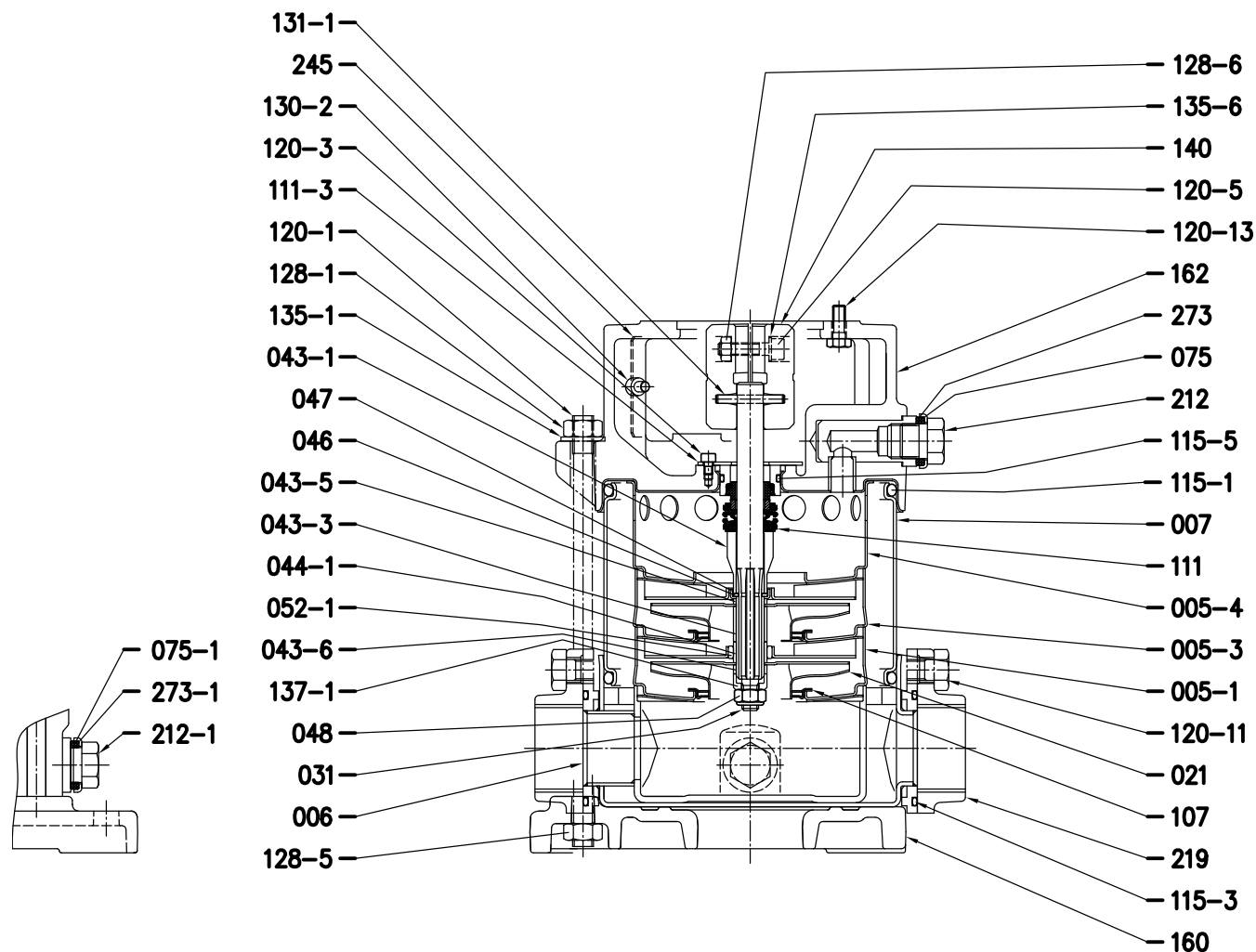
See dimensions page 401.

EVMG 3
Pump with single ball bearing

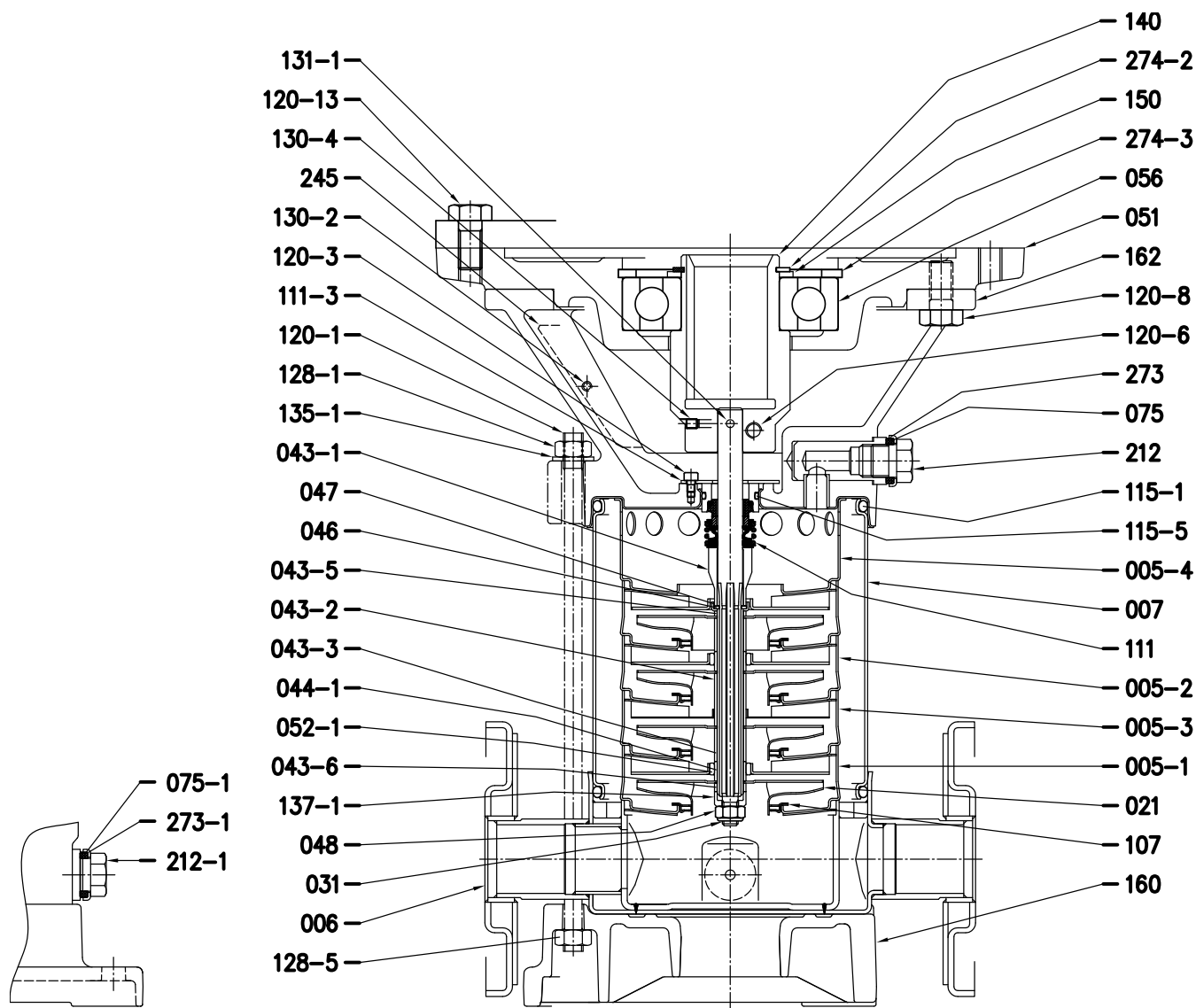


See dimensions page 401.

EVM(.) 5
Pump without ball bearing

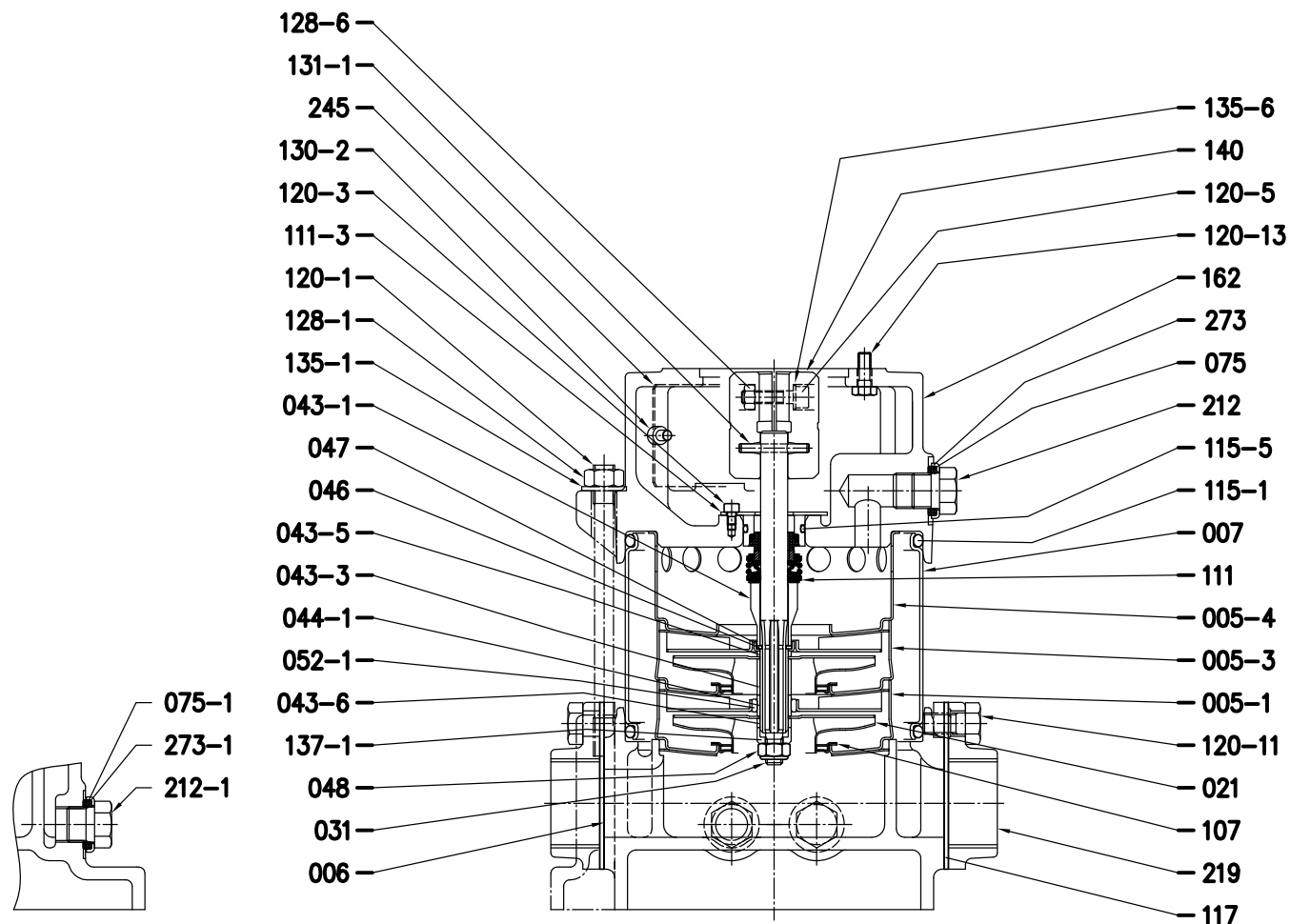


EVM(.) 5
Pump with single ball bearing



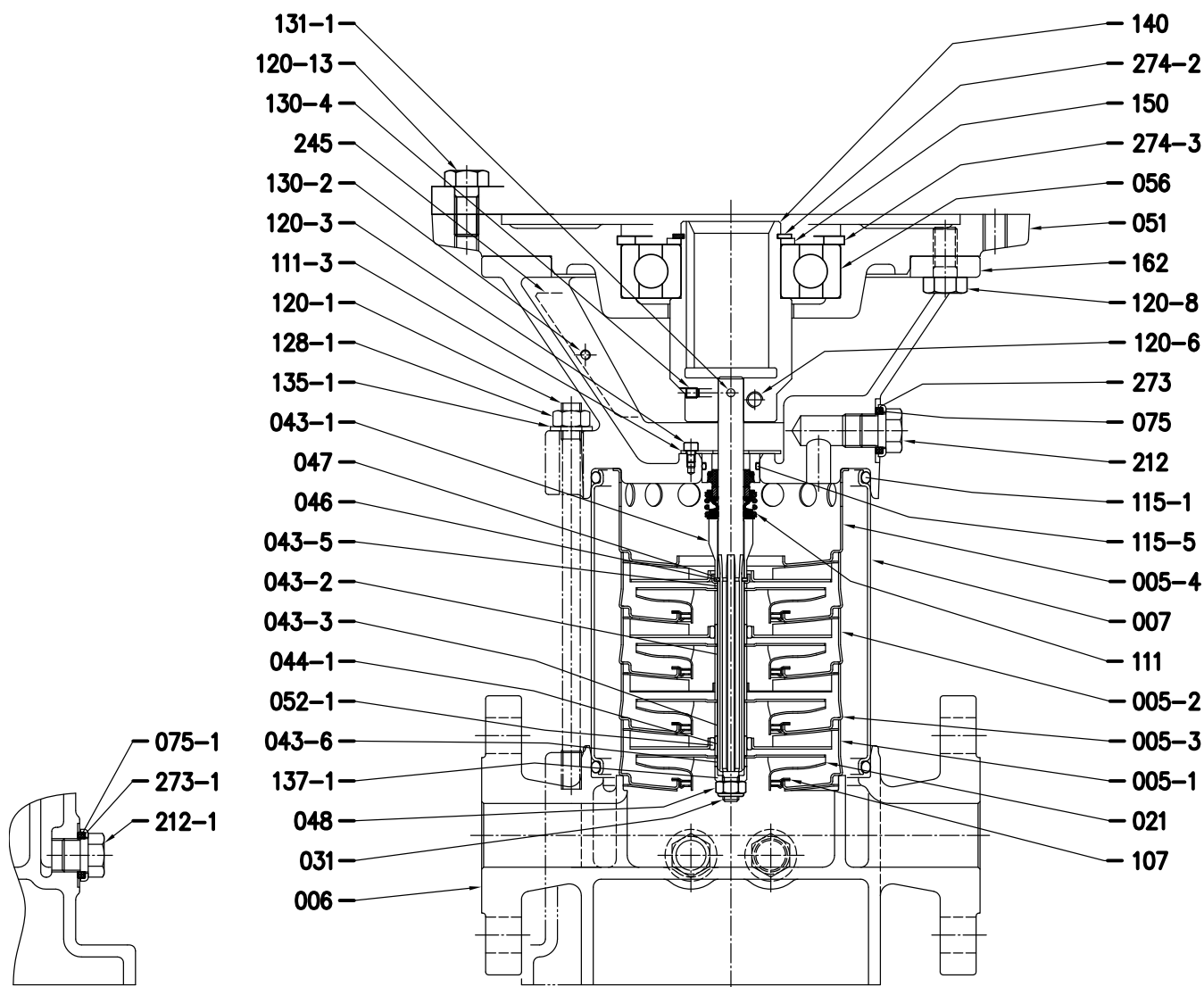
See dimensions page 401

EVMG 5
Pump without ball bearing



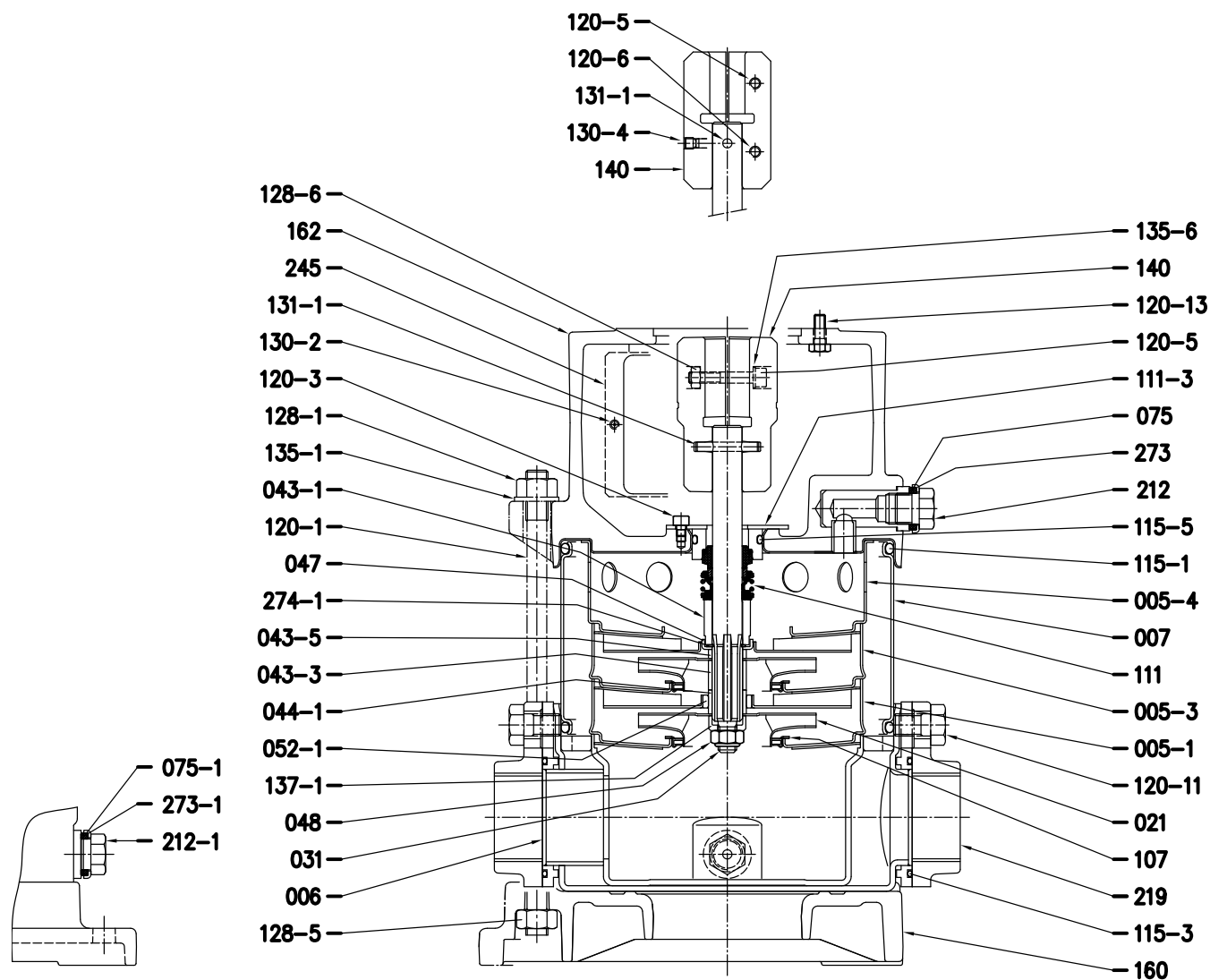
See dimensions page 401

EVMG 5
Pump with single ball bearing



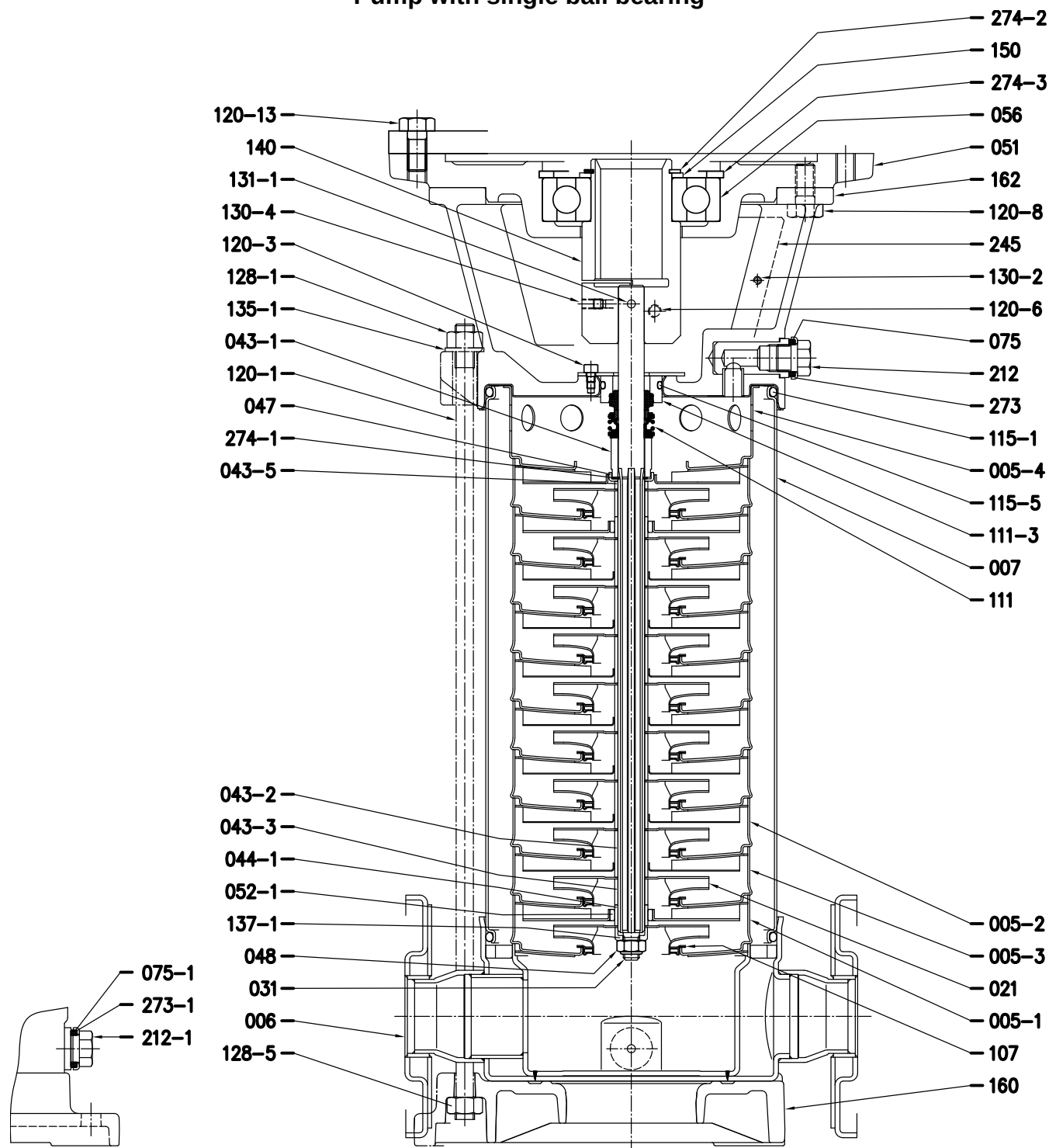
See dimensions page 401

EVM(.) 10
Pump without ball bearing



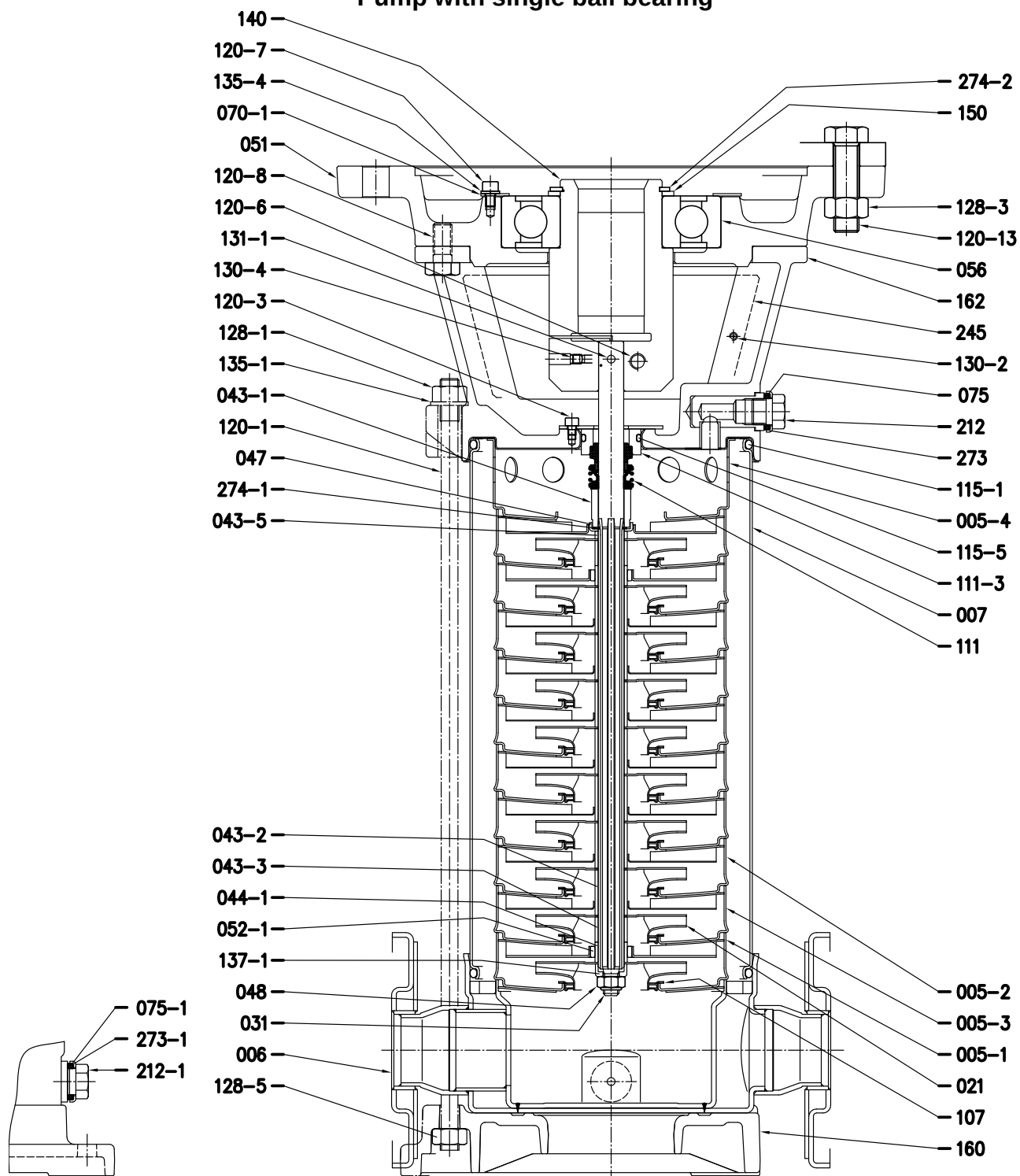
See dimensions page 402

EVM(.) 10
Pump with single ball bearing



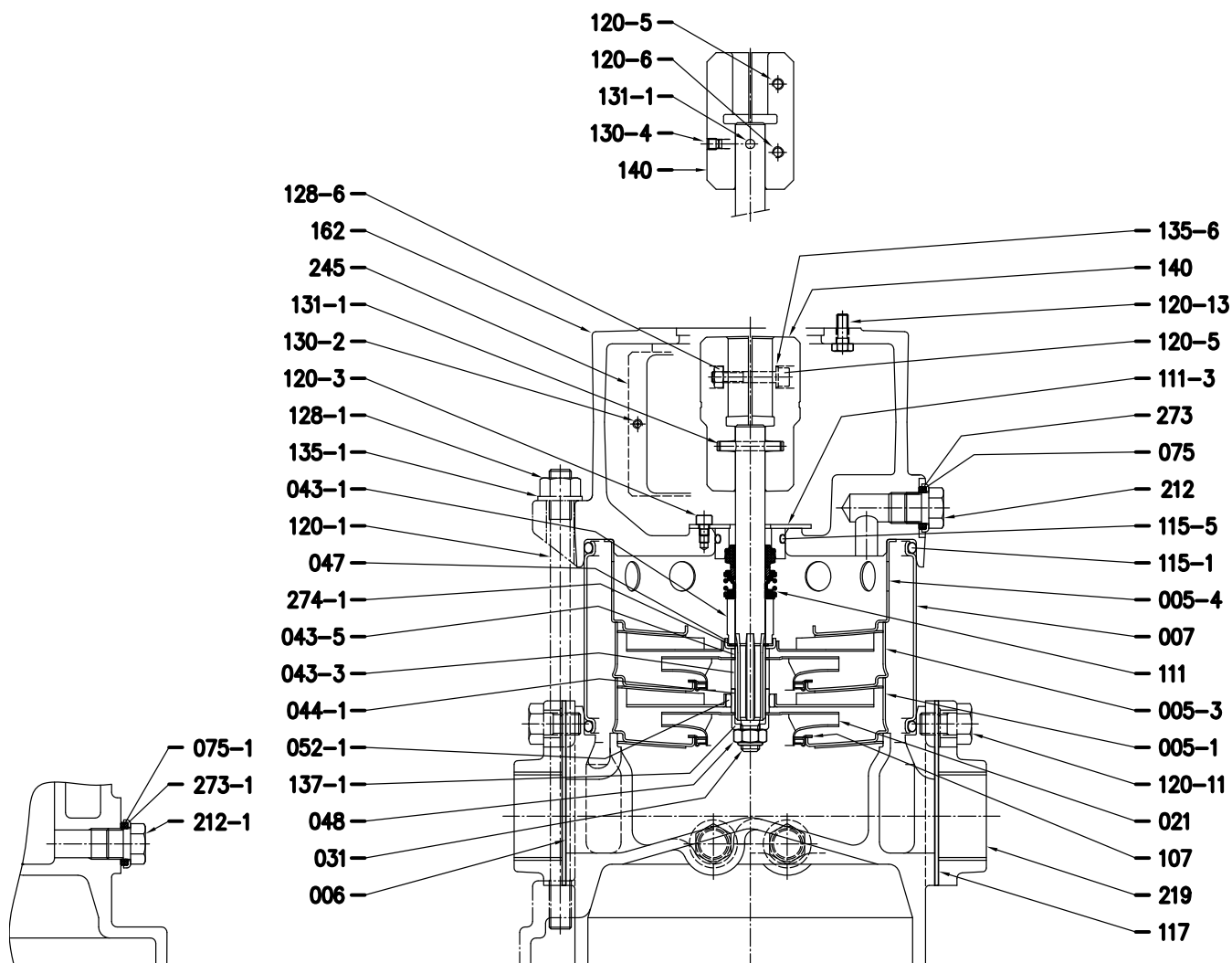
See dimensions page 402

EVM(.) 10
Pump with single ball bearing



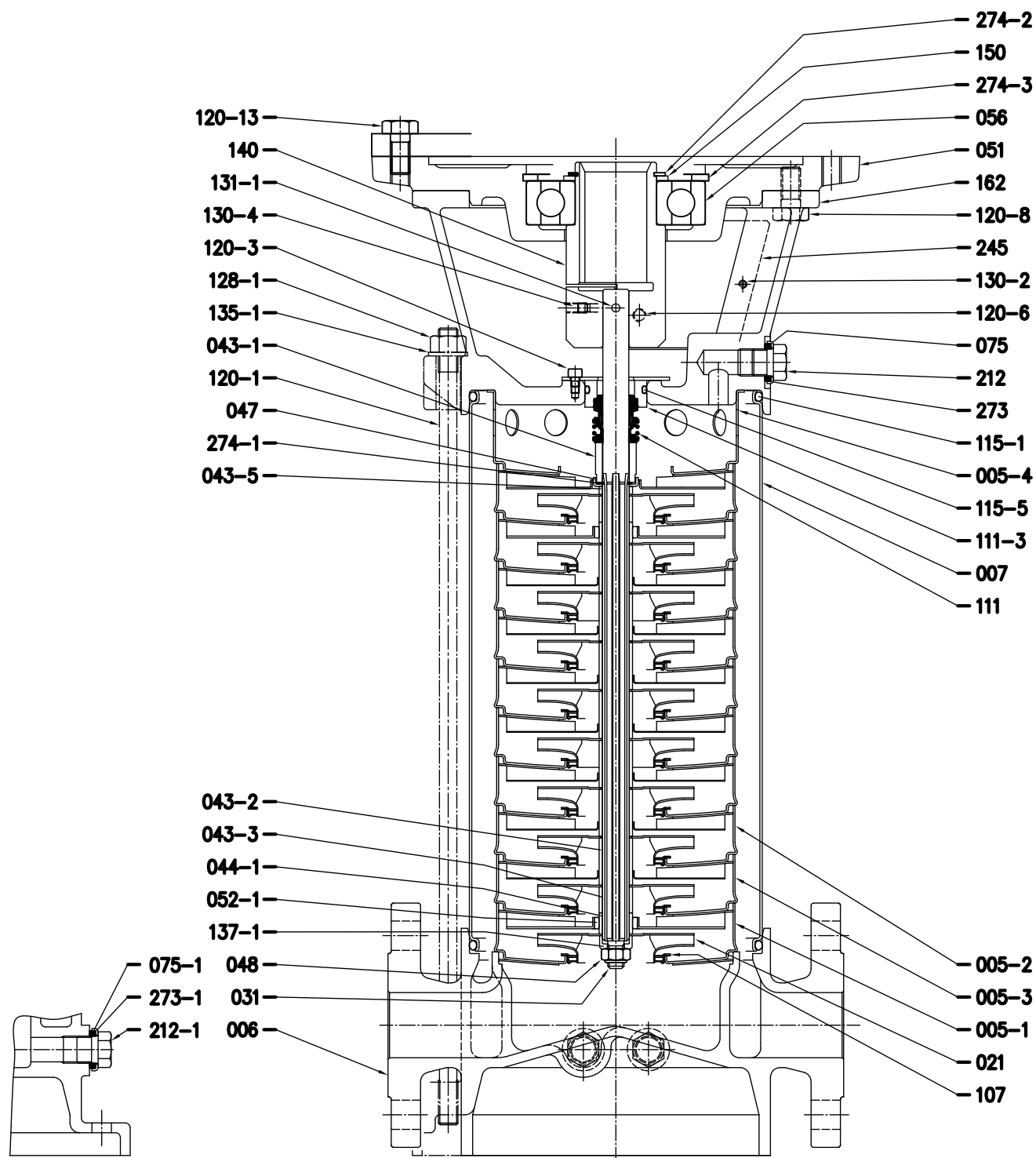
See dimensions page 402

EVMG 10
Pump without ball bearing



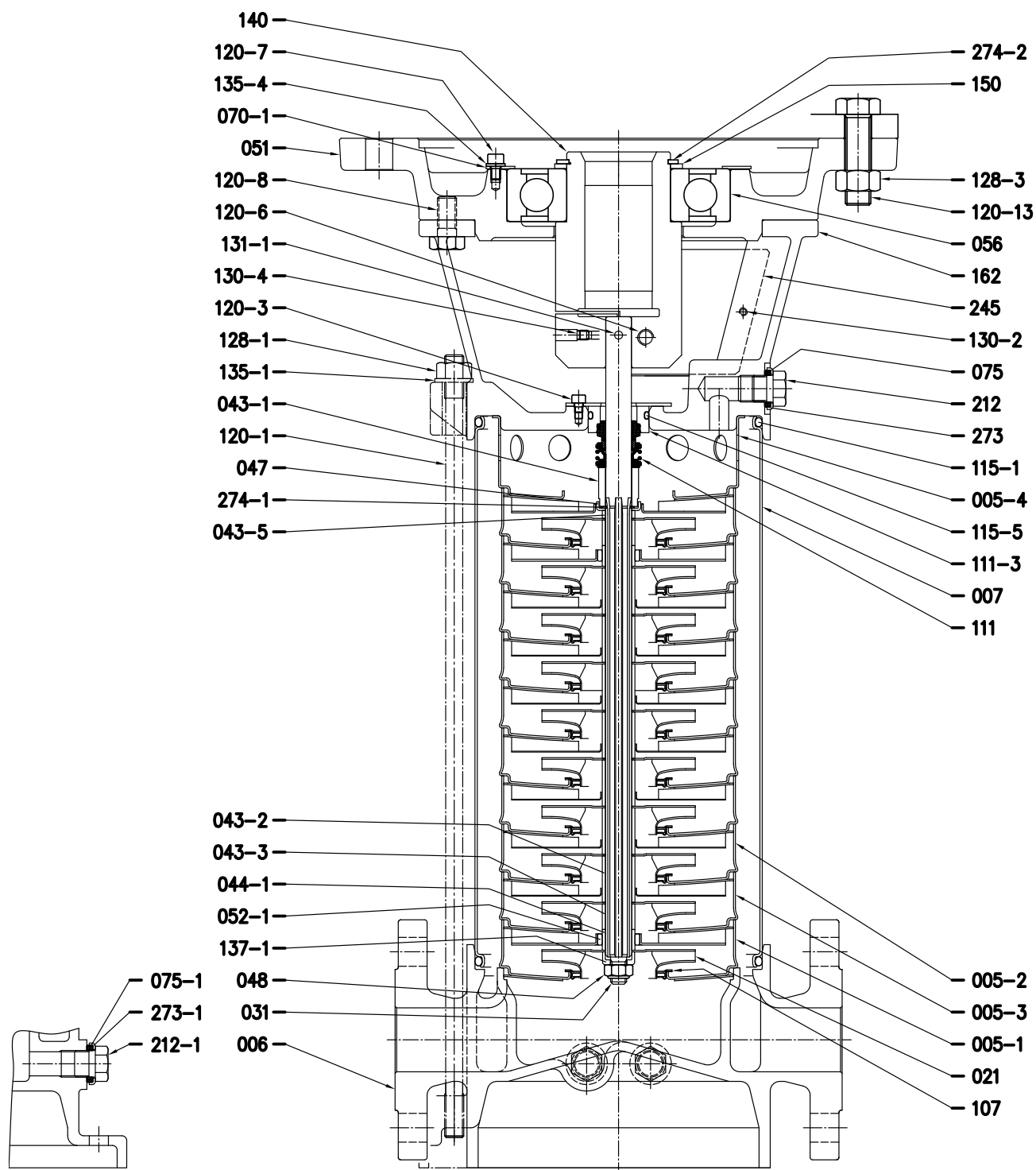
See dimensions page 402

EVMG 10
Pump with single ball bearing



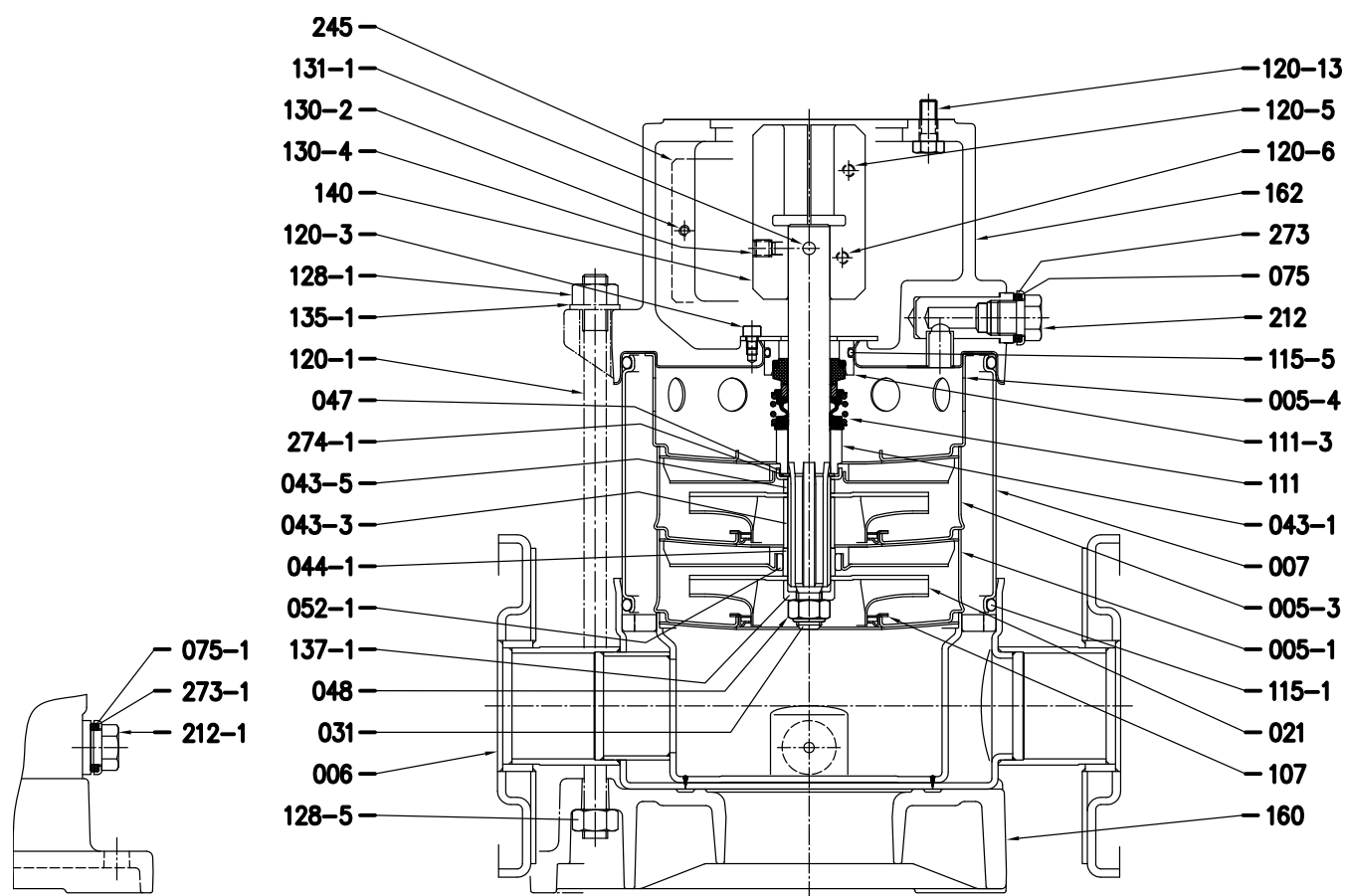
See dimensions page 402

EVMG 10
Pump with single ball bearing



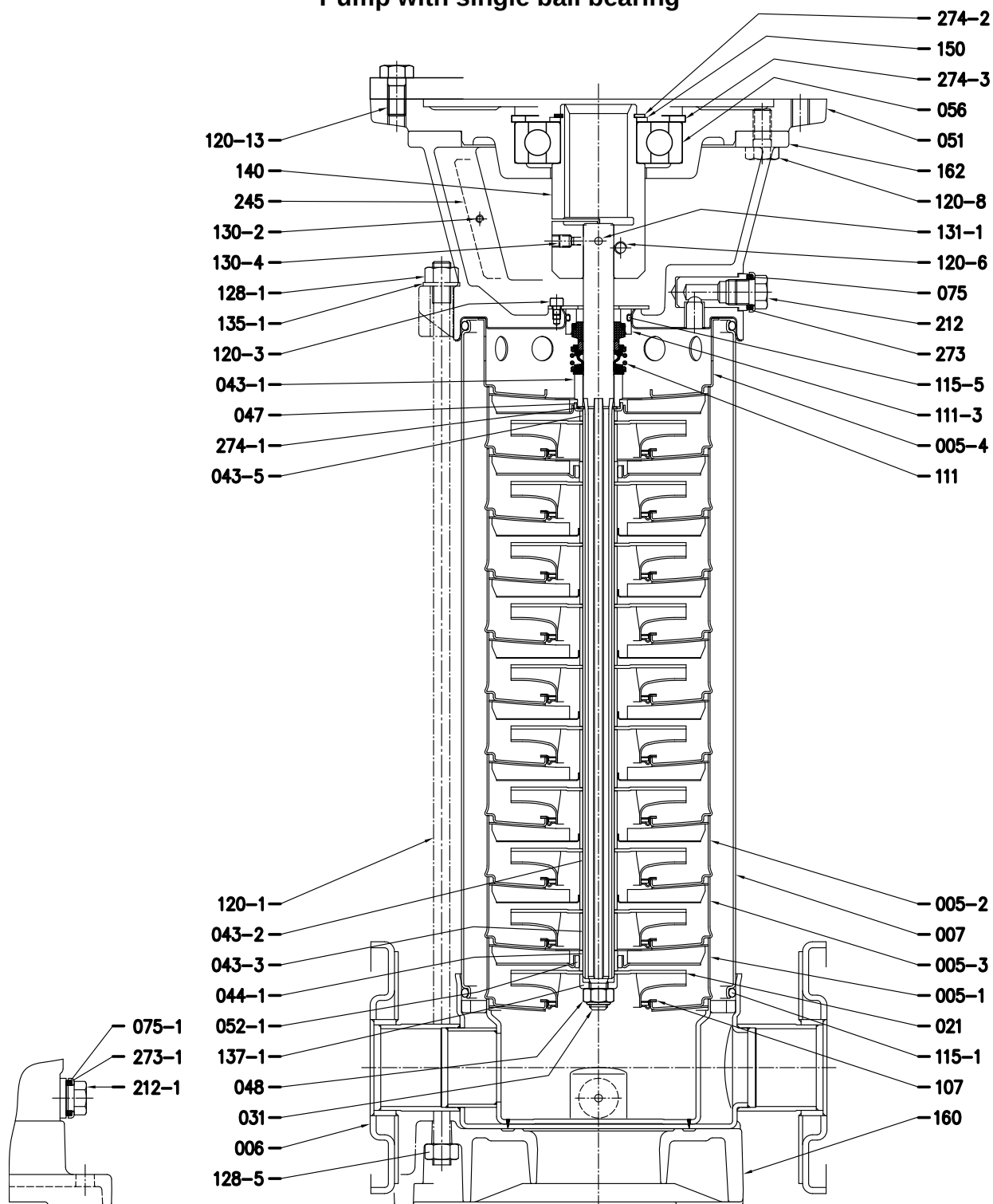
See dimensions page 402

EVM(.) 18
Pump without ball bearing



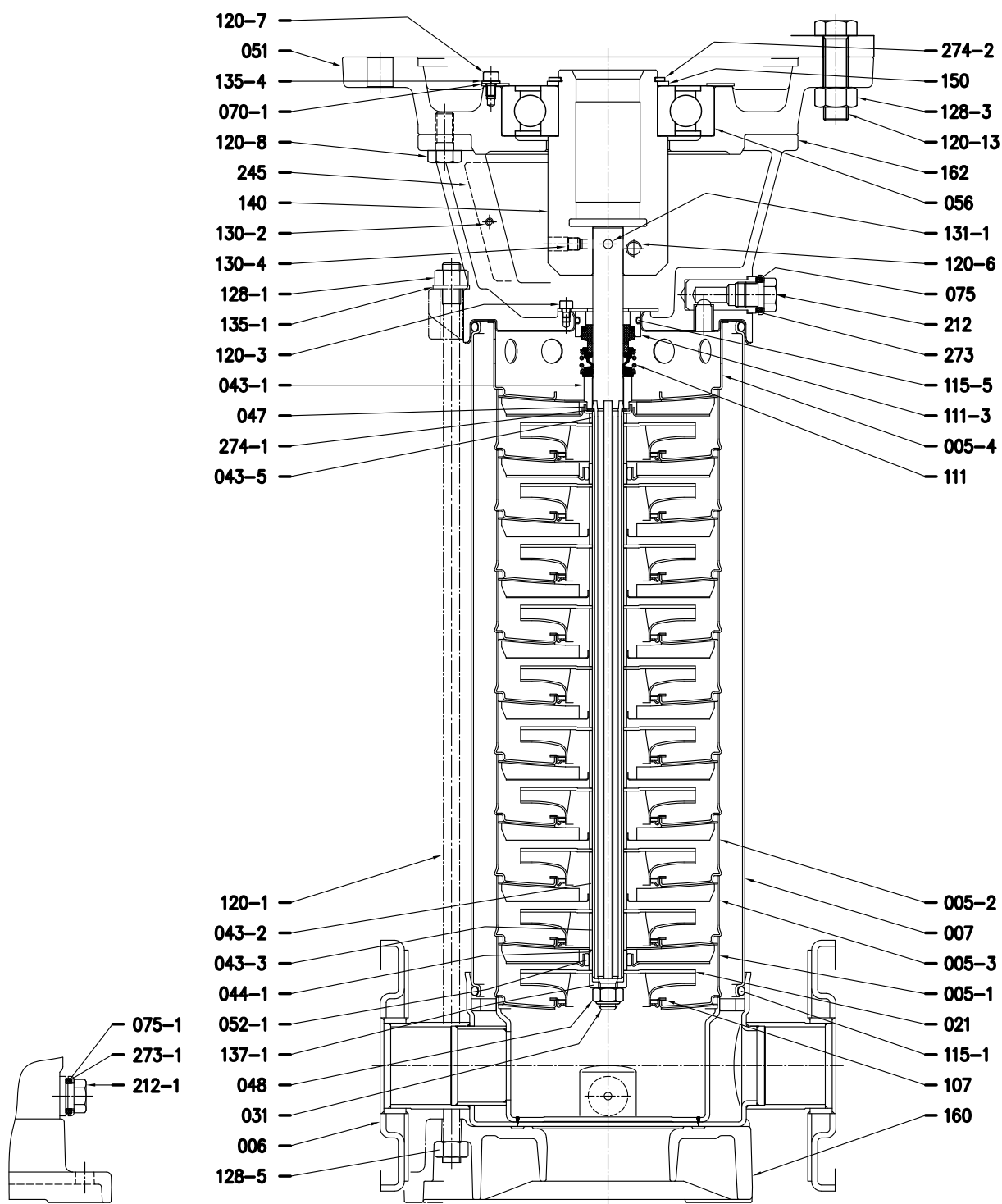
See dimensions page 402

EVM(.) 18
Pump with single ball bearing



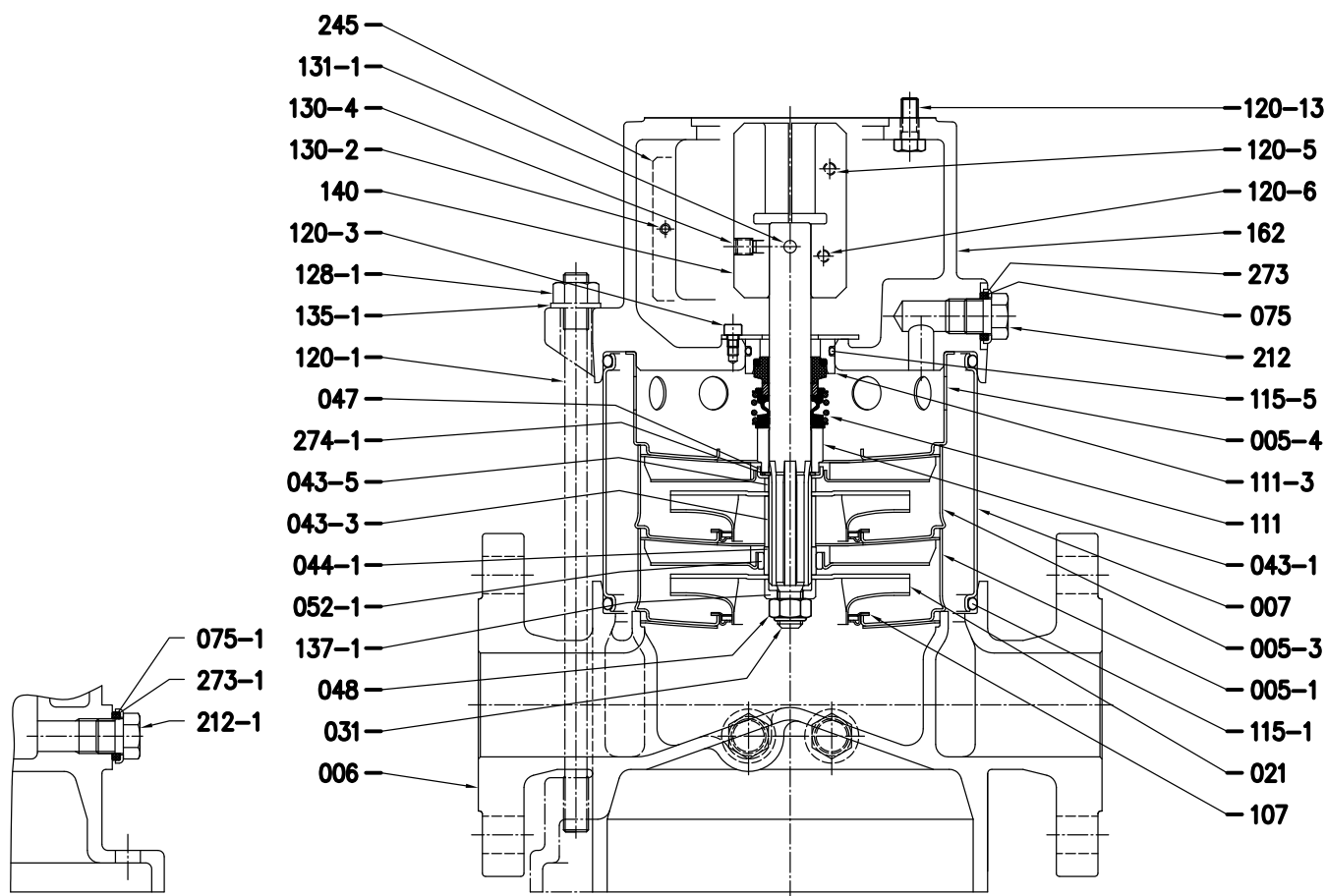
See dimensions page 402

EVM(.) 18
Pump with single ball bearing



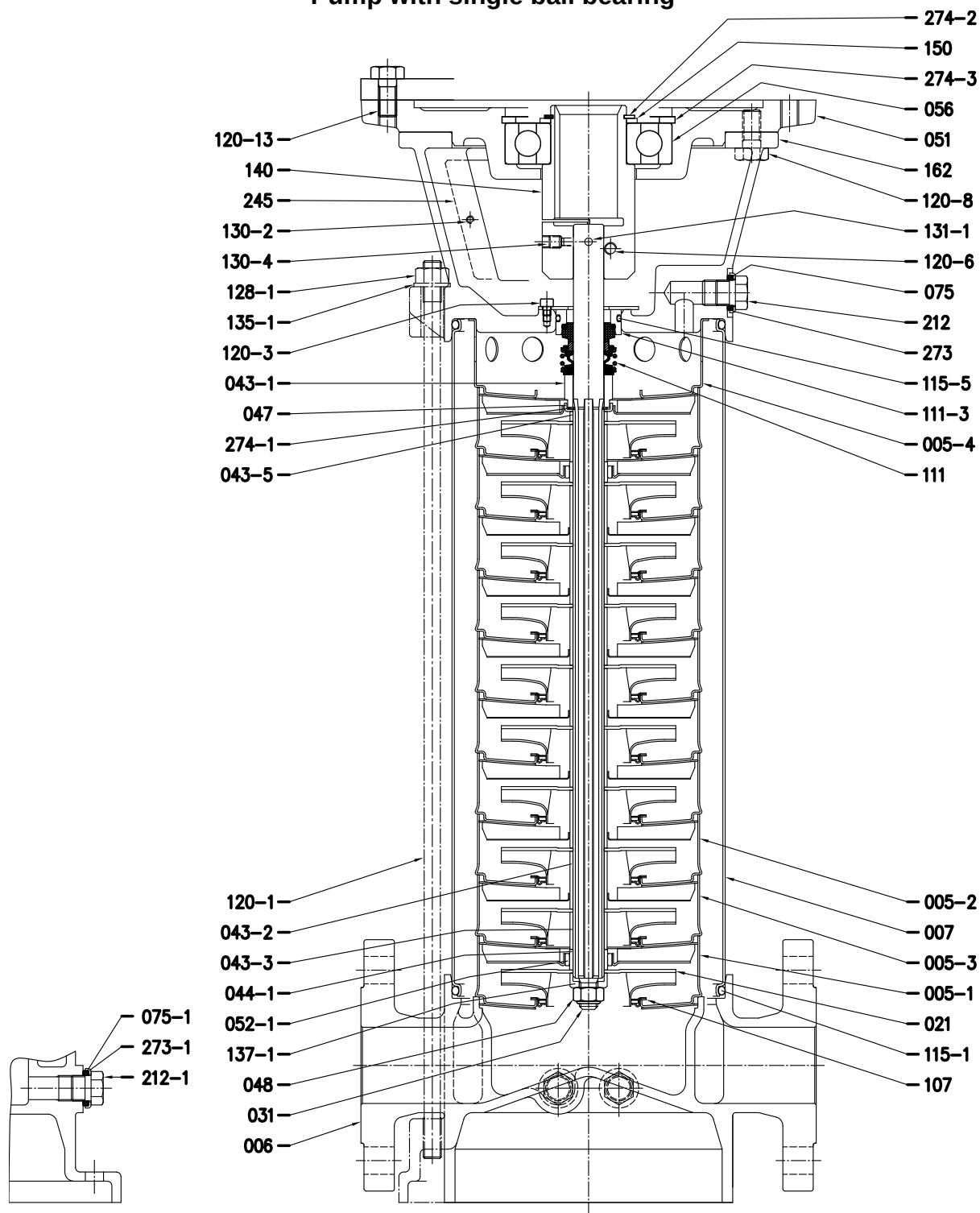
See dimensions page 402

EVMG 18
Pump without ball bearing



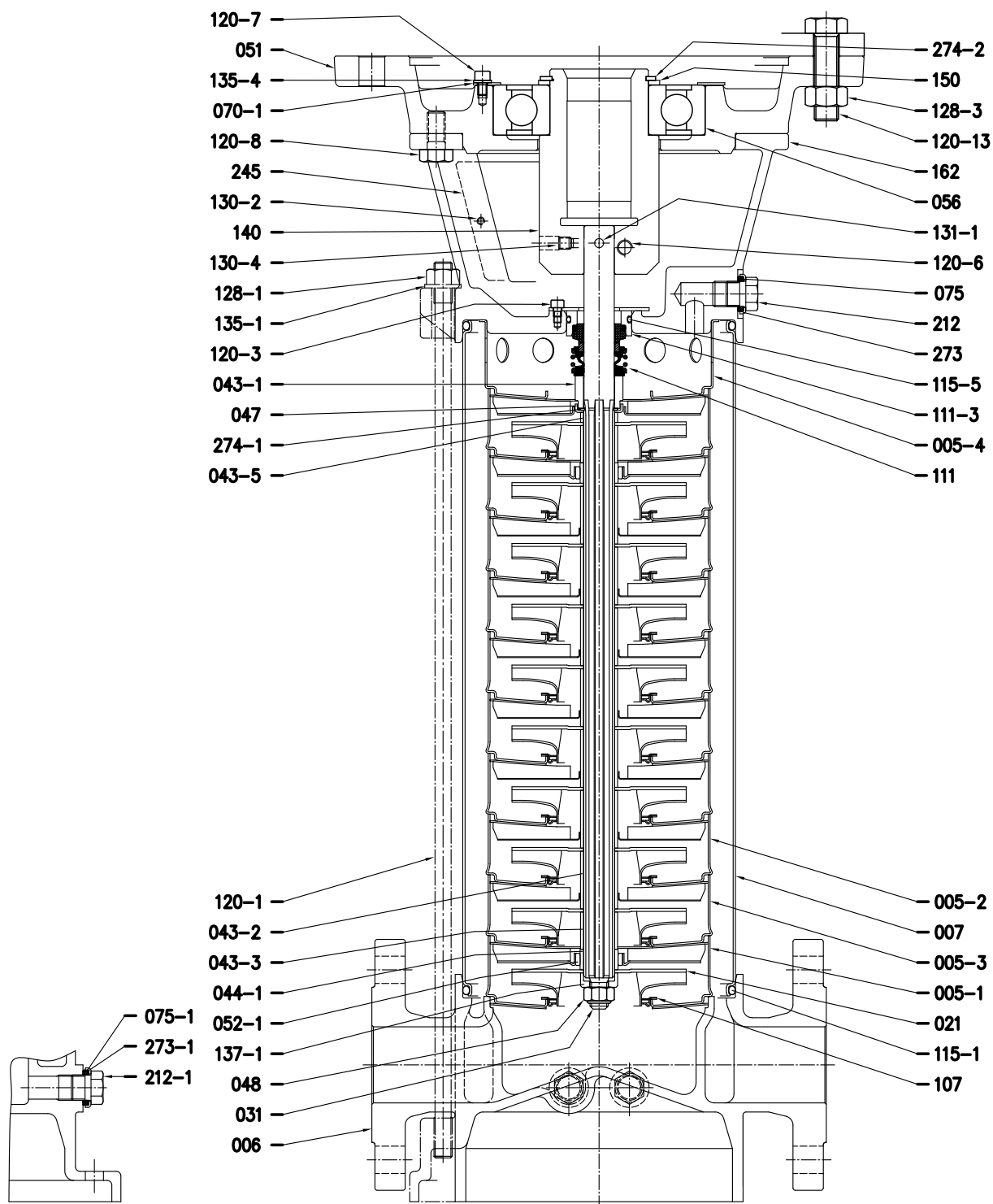
See dimensions page 402

EVMG 18
Pump with single ball bearing



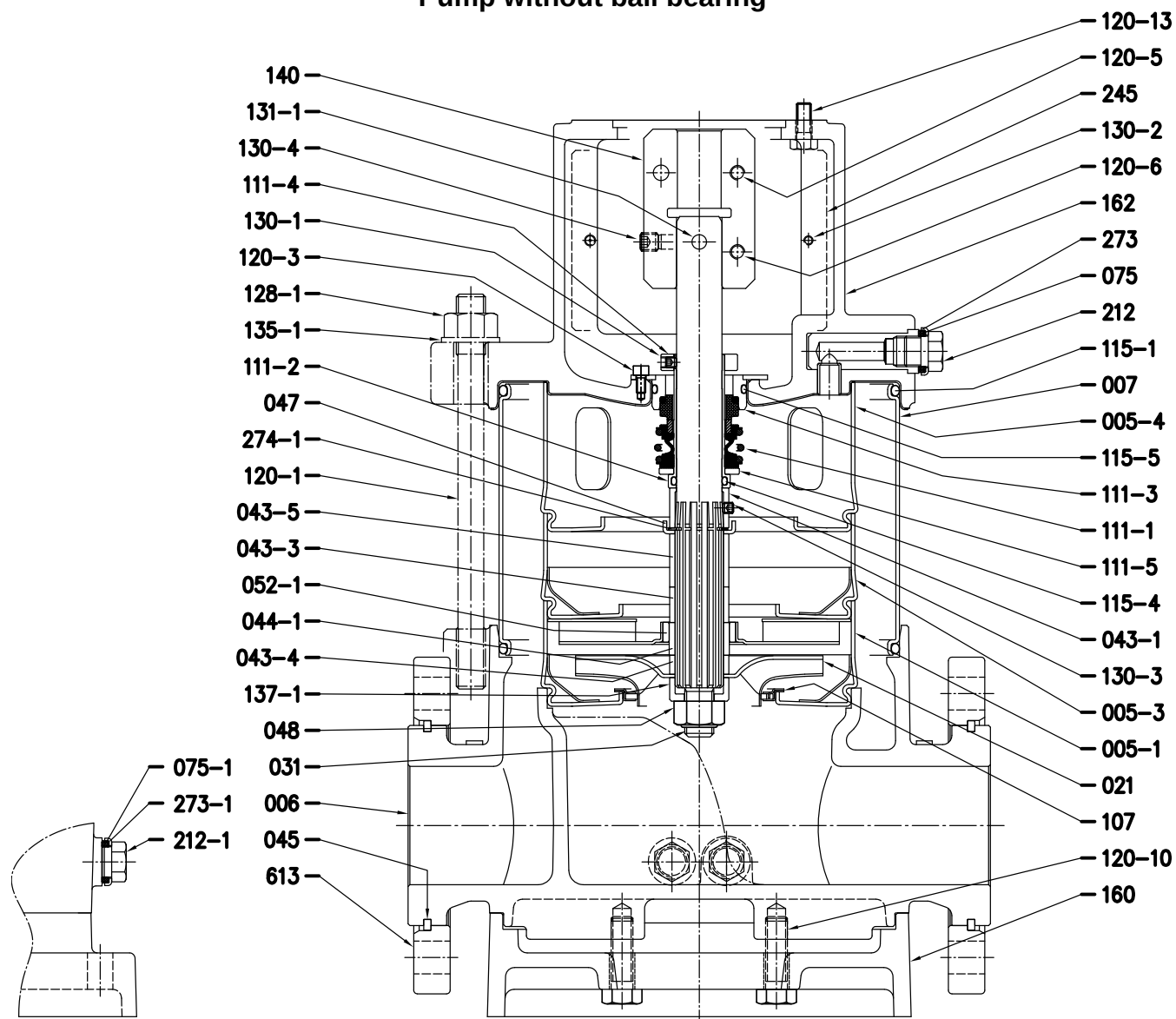
See dimensions page 402

EVMG 18
Pump with single ball bearing



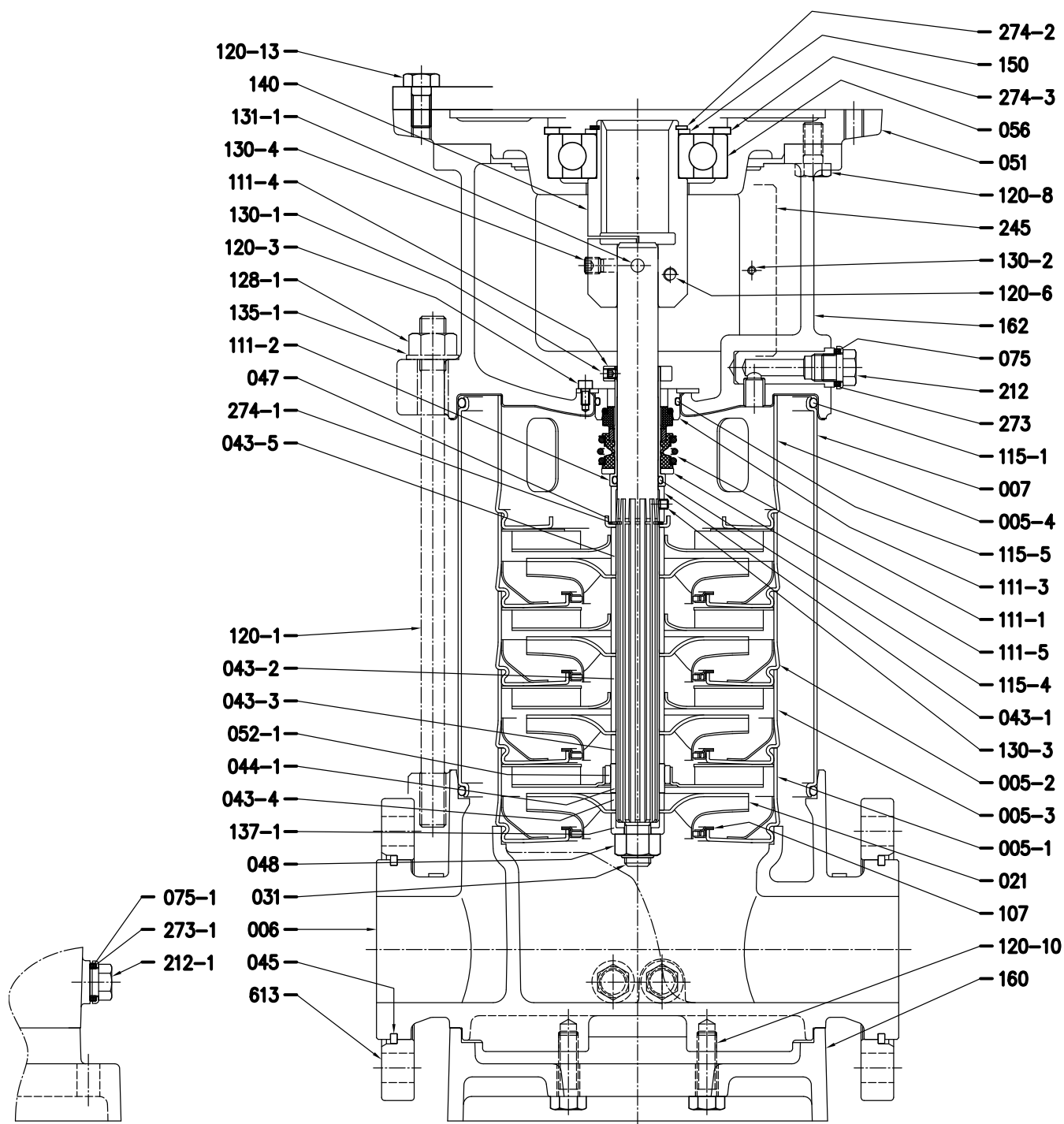
See dimensions page 402

EVM(.) 32
Pump without ball bearing



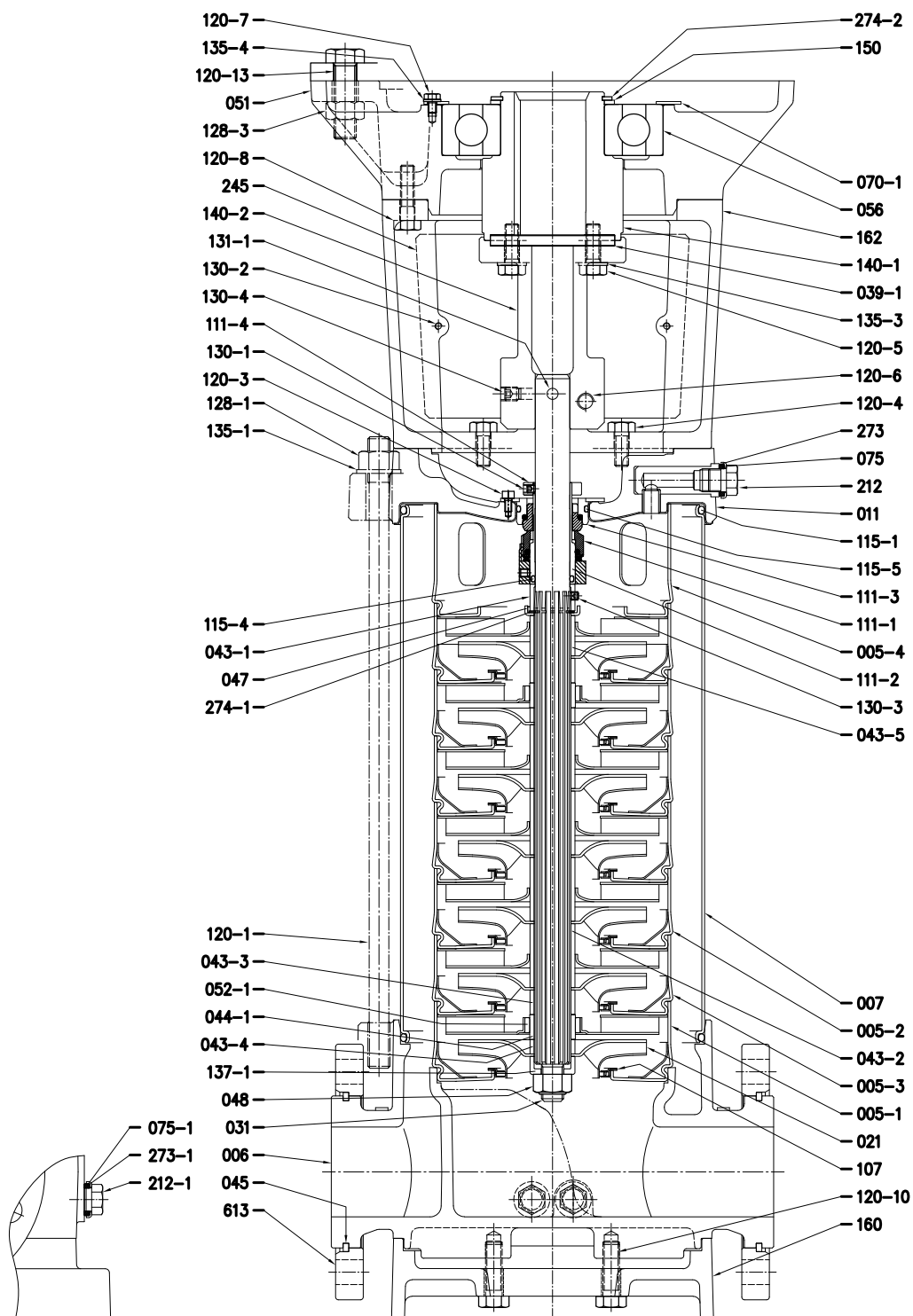
See dimensions page 404

EVM(.) 32
Pump with single ball bearing



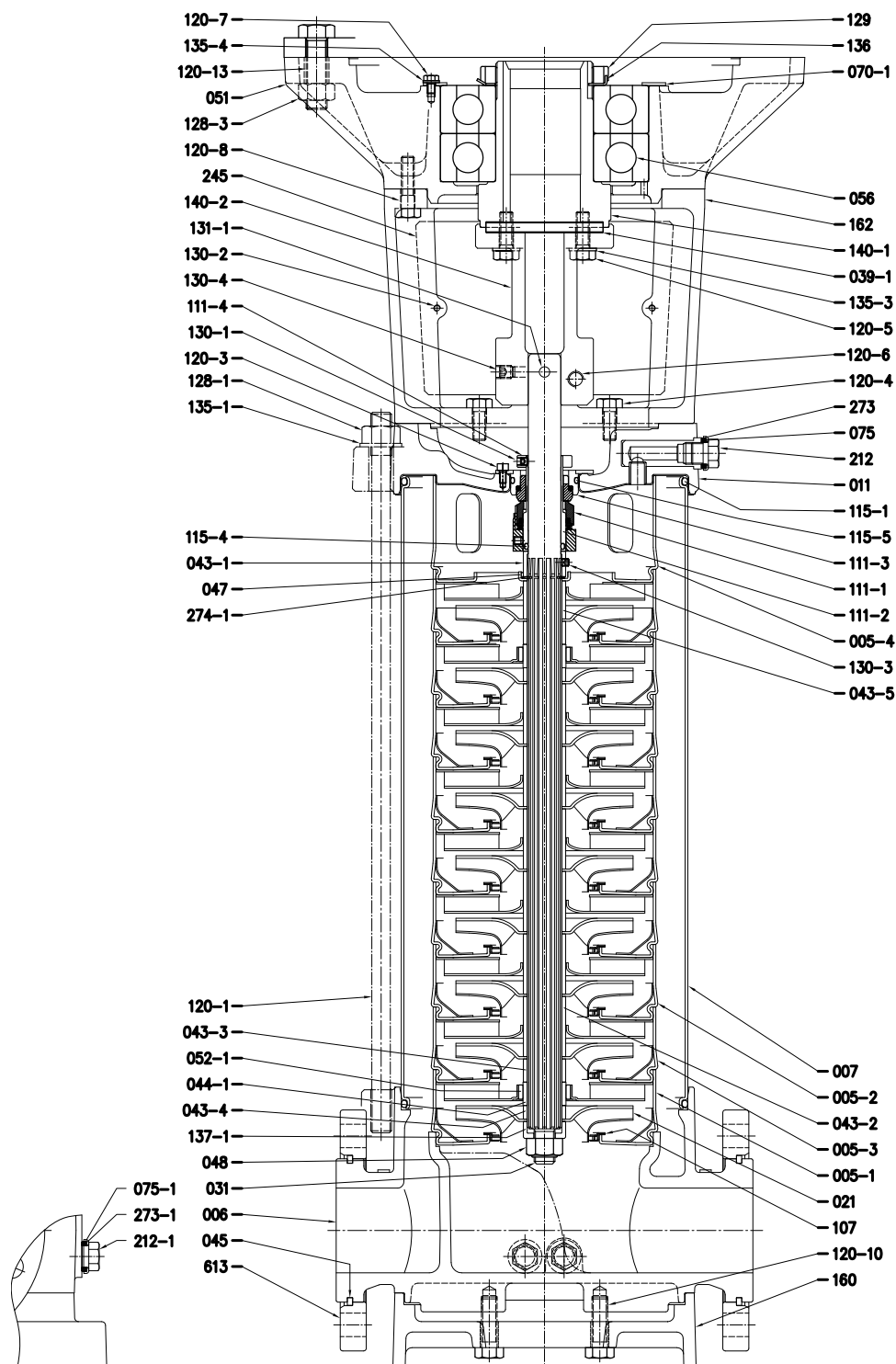
See dimensions pages 404

EVM(.) 32
Pump with single ball bearing



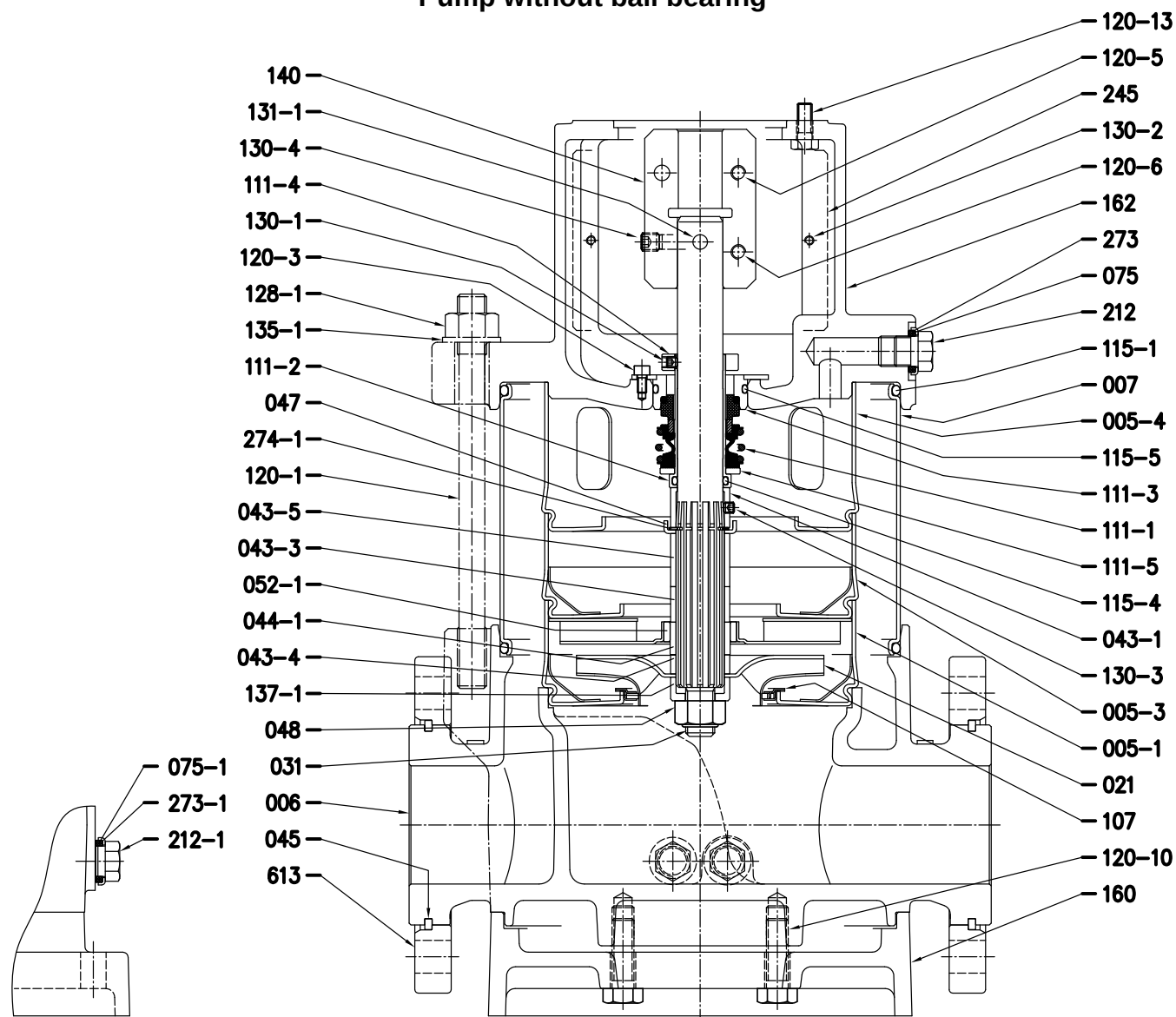
See dimensions page 404

EVM(.) 32
Pump with double ball bearing



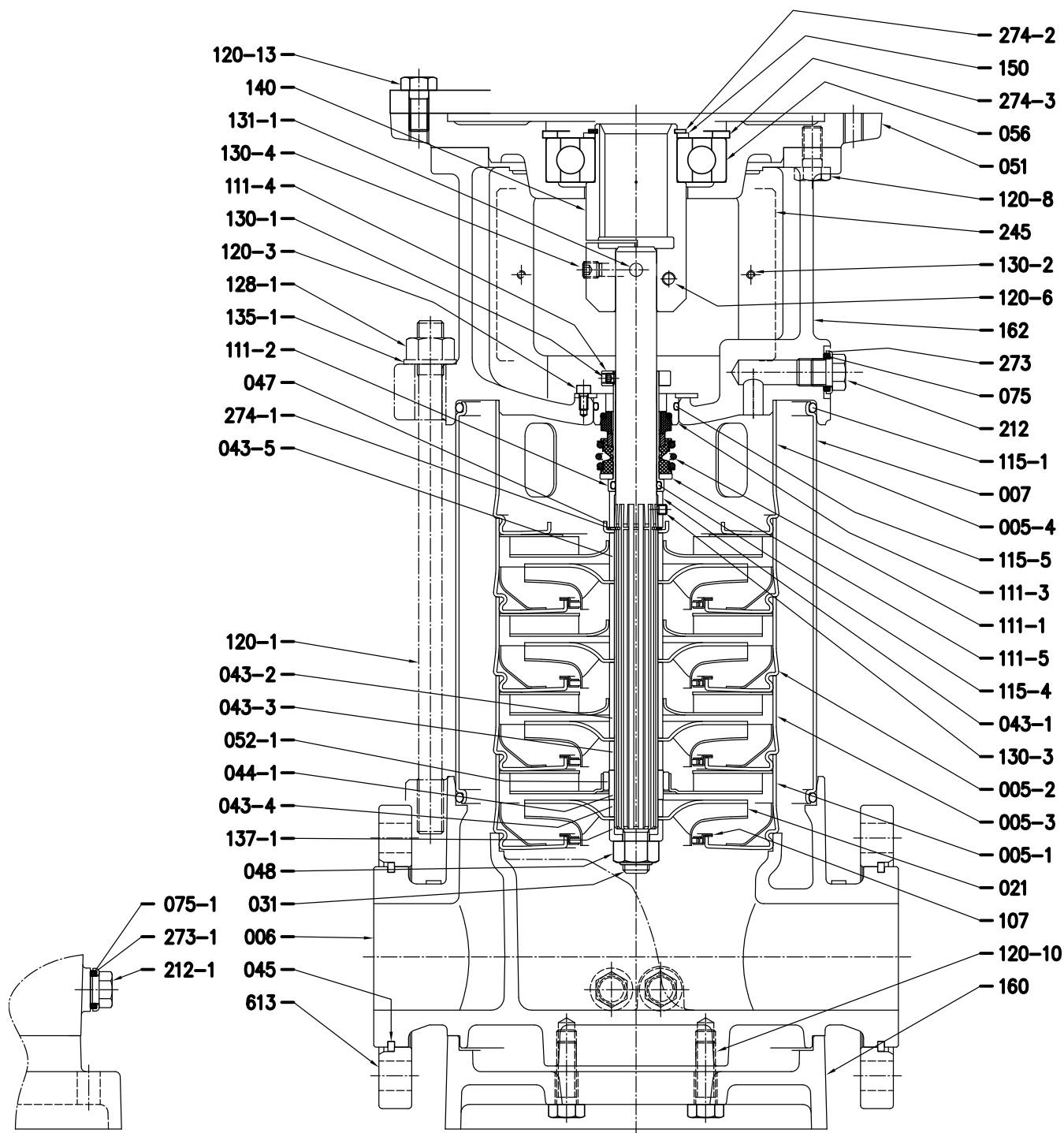
See dimensions page 404

EVMG 32
Pump without ball bearing



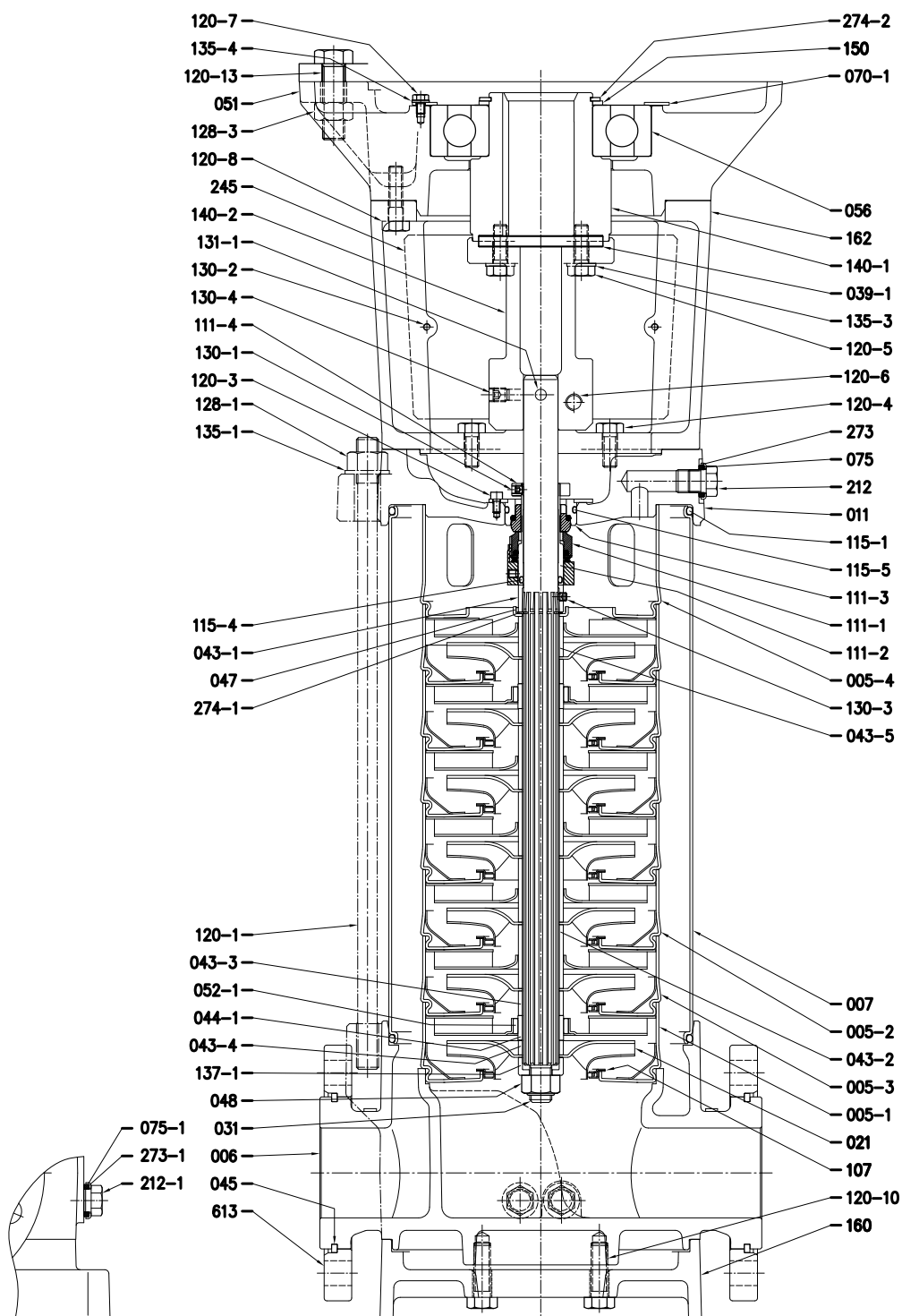
See dimensions page 404

EVMG 32
Pump with single ball bearing



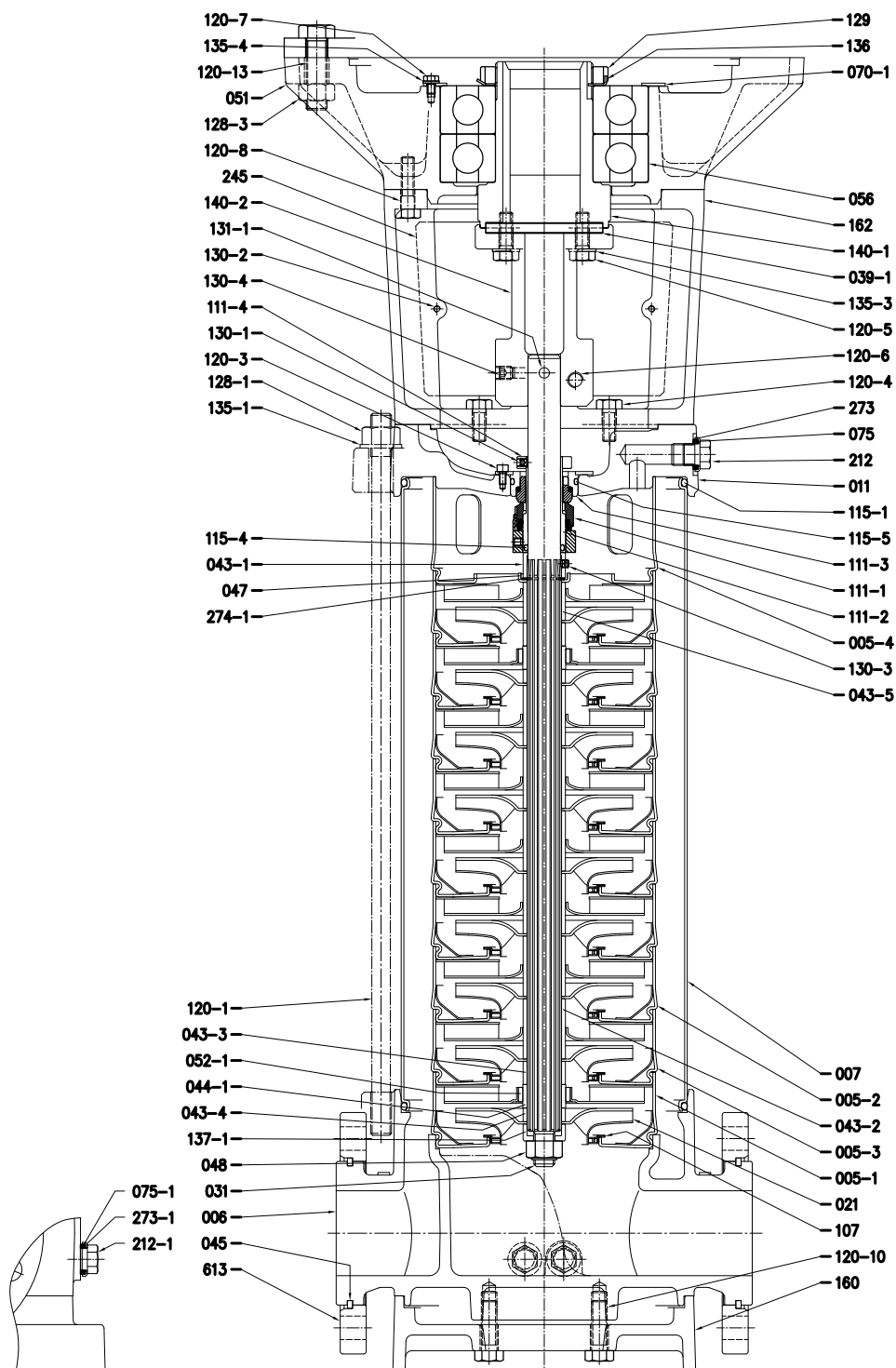
See dimensions page 404

EVMG 32
Pump with single ball bearing



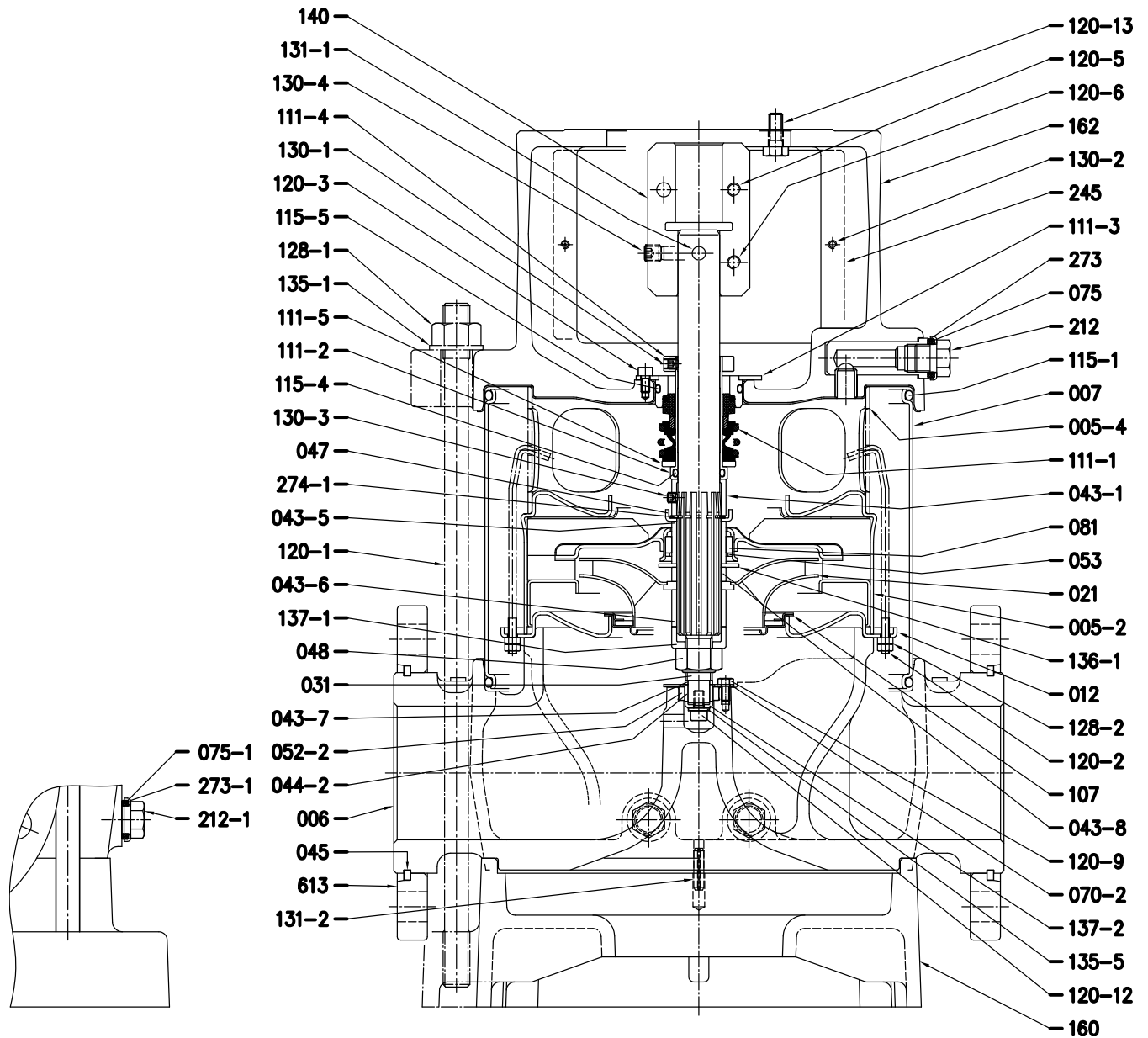
See dimensions page 404

EVMG 32
Pump with double ball bearing



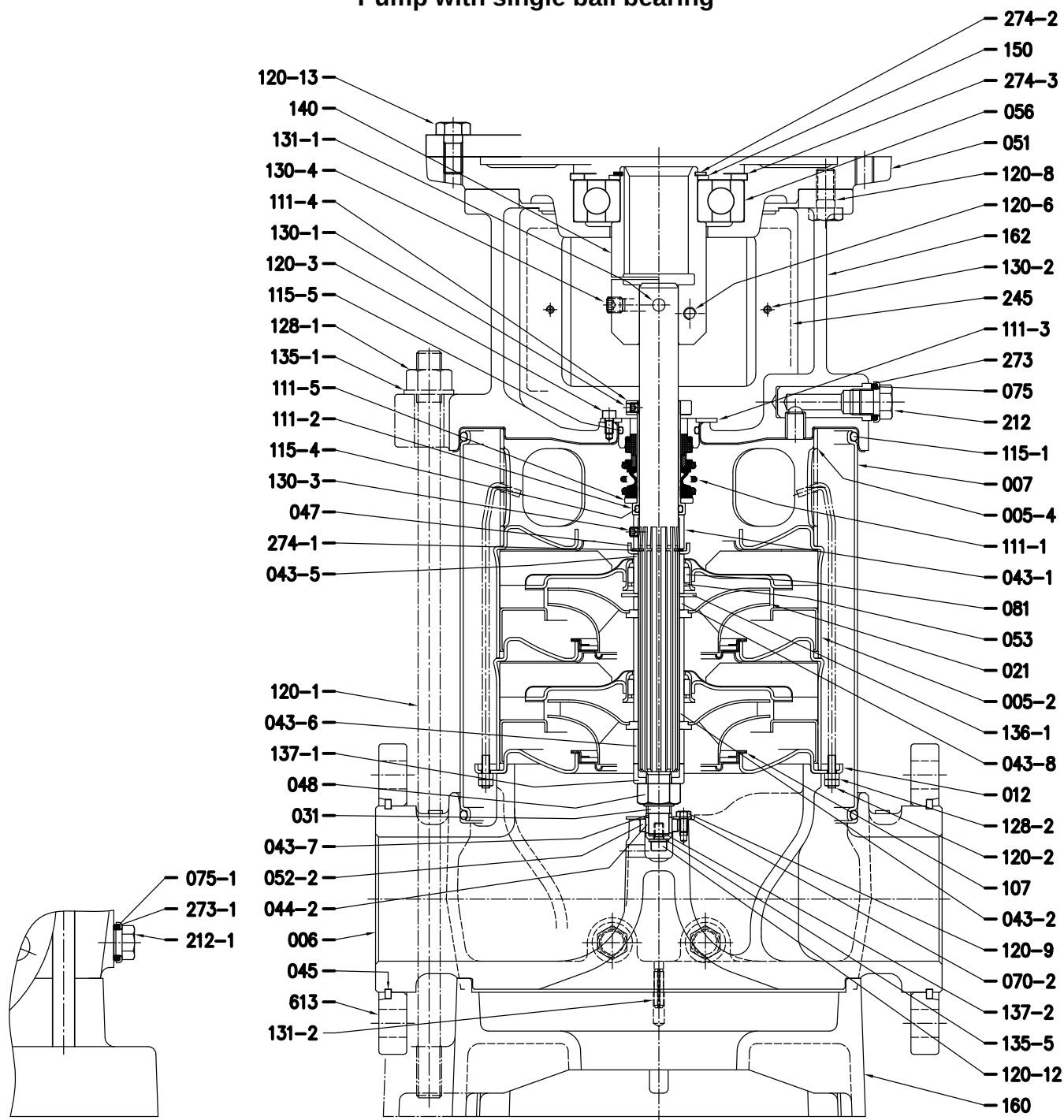
See dimensions page 404

EVM(.) 45
Pump without ball bearing



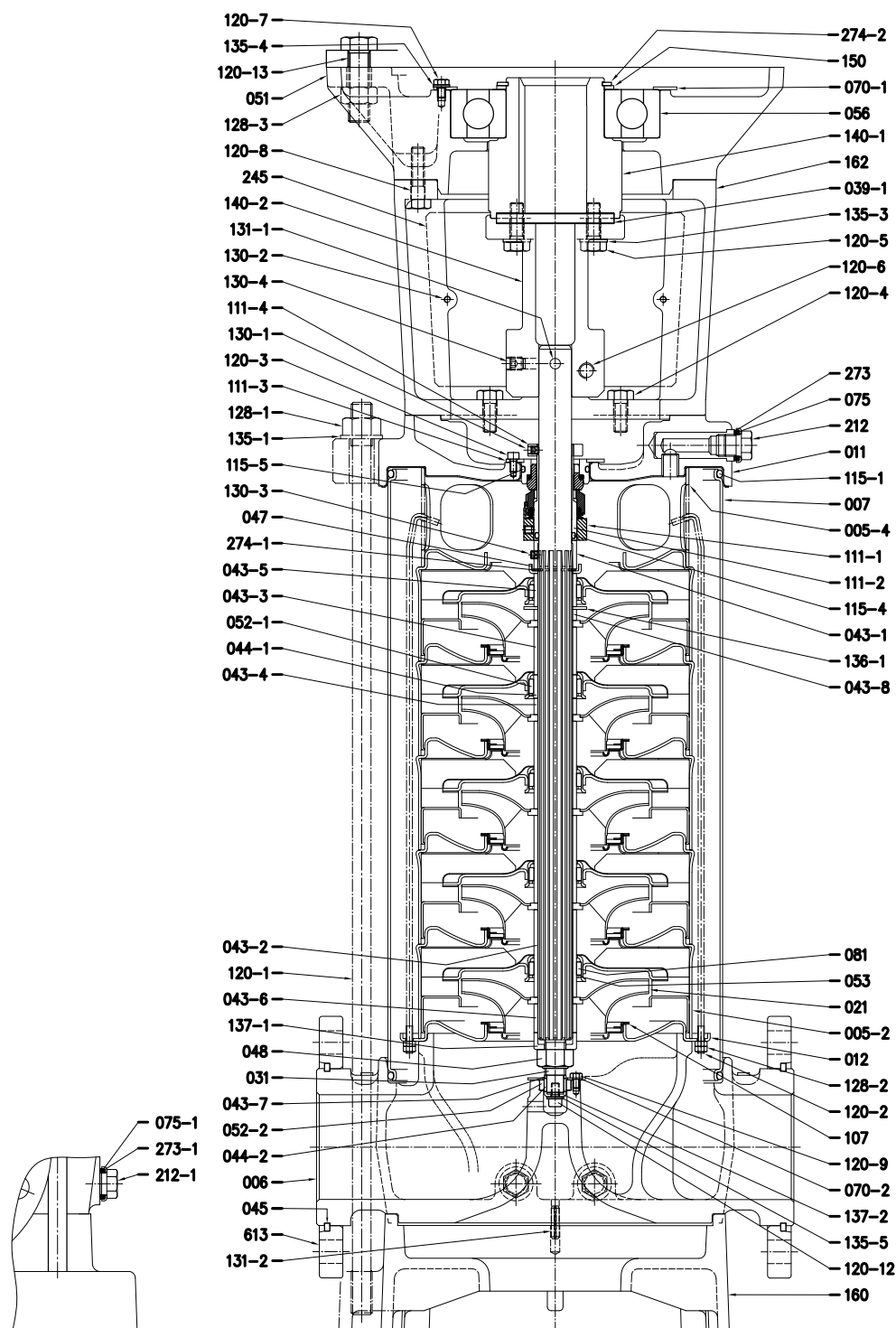
See dimensions page 405

EVM(.) 45
Pump with single ball bearing



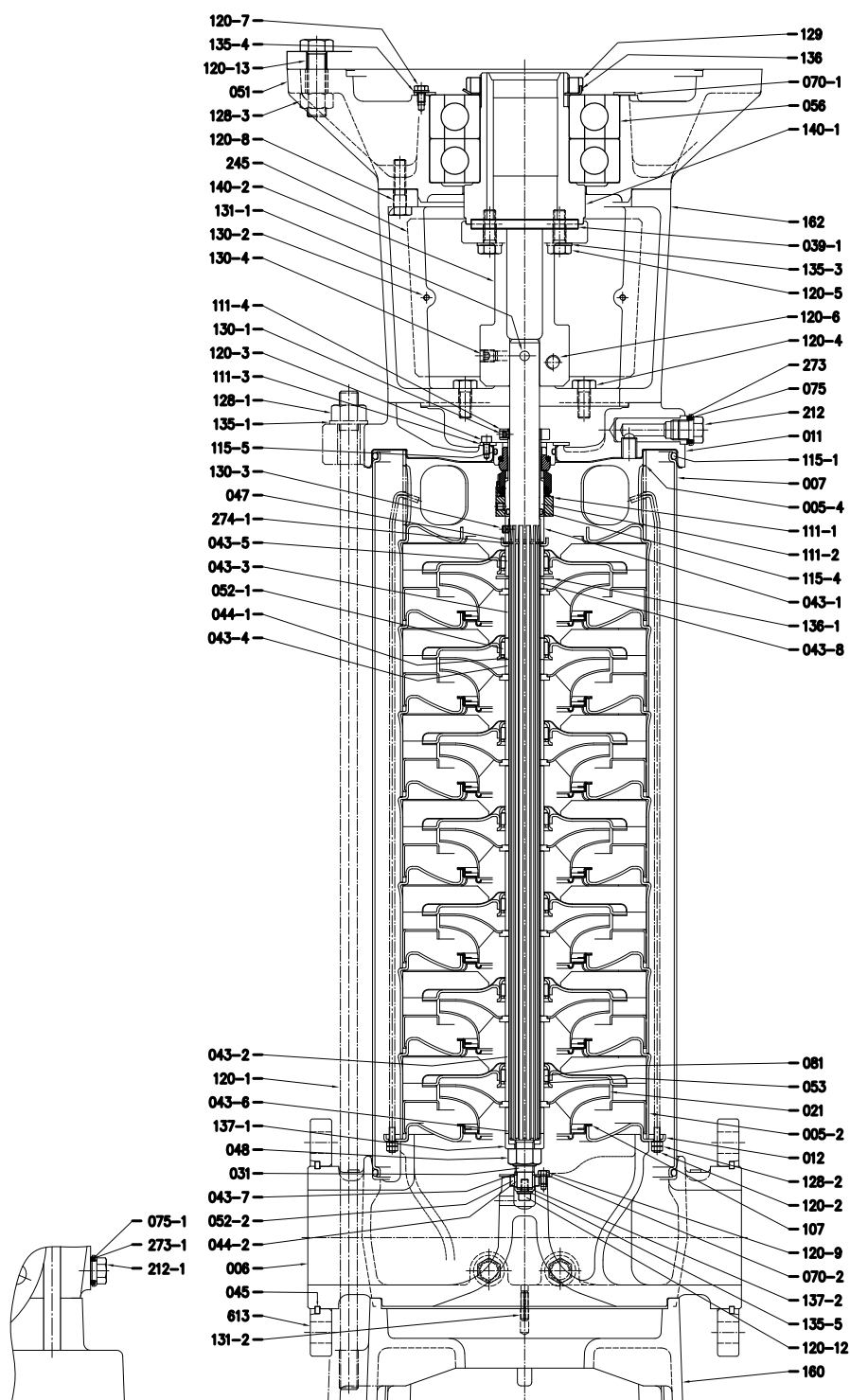
See dimensions page 405

EVM(.) 45
Pump with single ball bearing



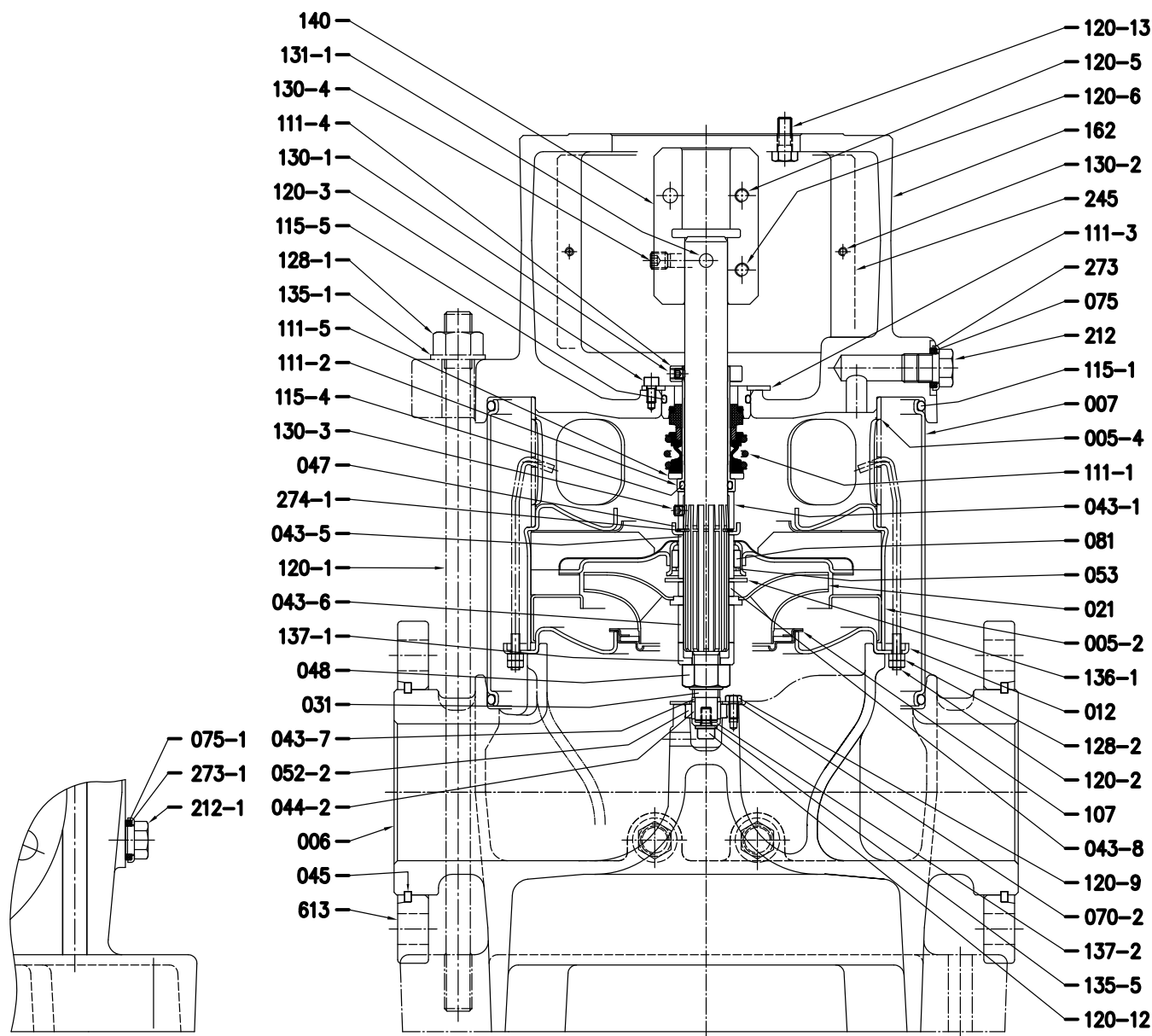
See dimensions page 405

EVM(.) 45
Pump with double ball bearing



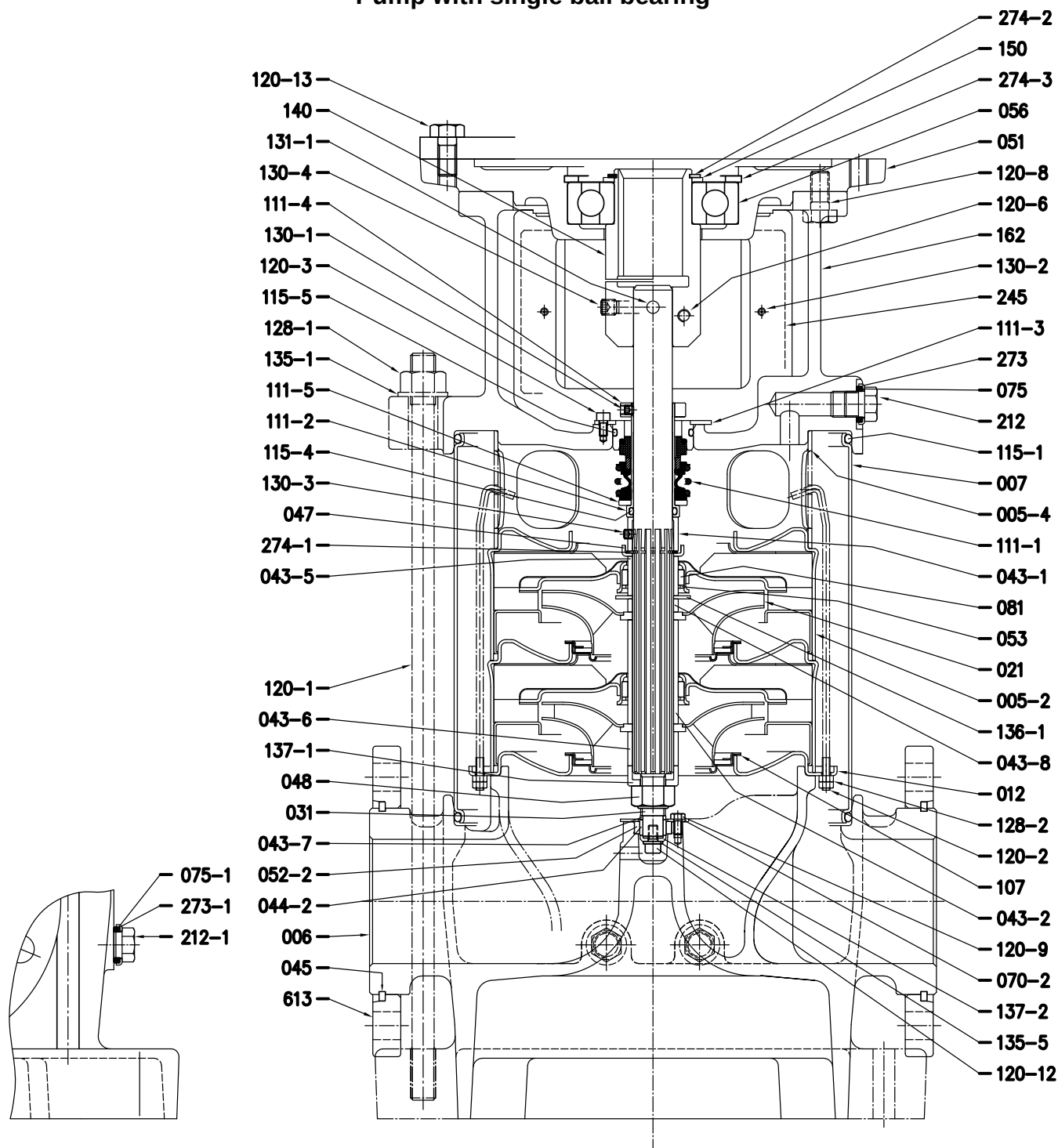
See dimensions page 405

EVMG 45
Pump without ball bearing



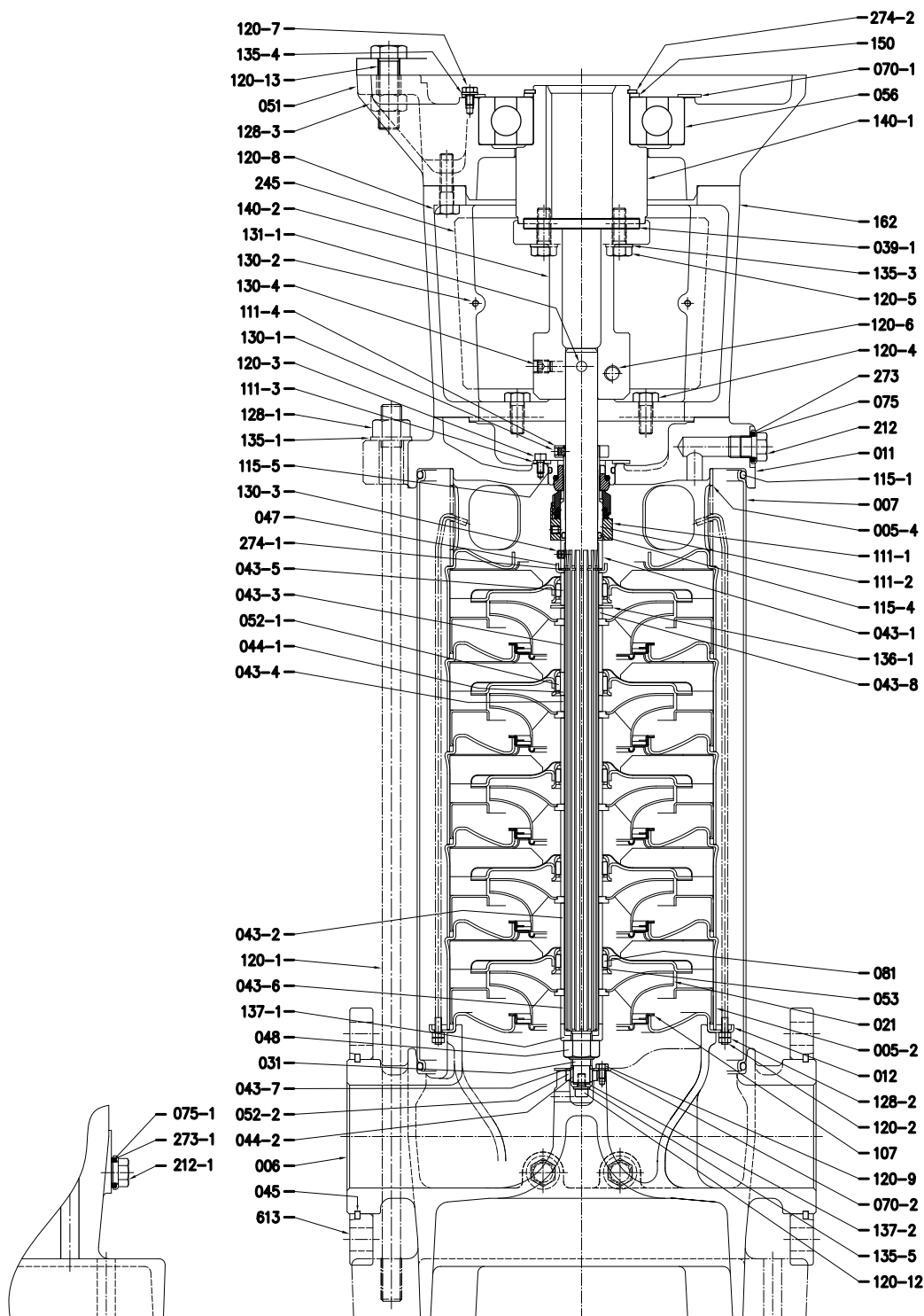
See dimensions page 405

EVMG 45
Pump with single ball bearing



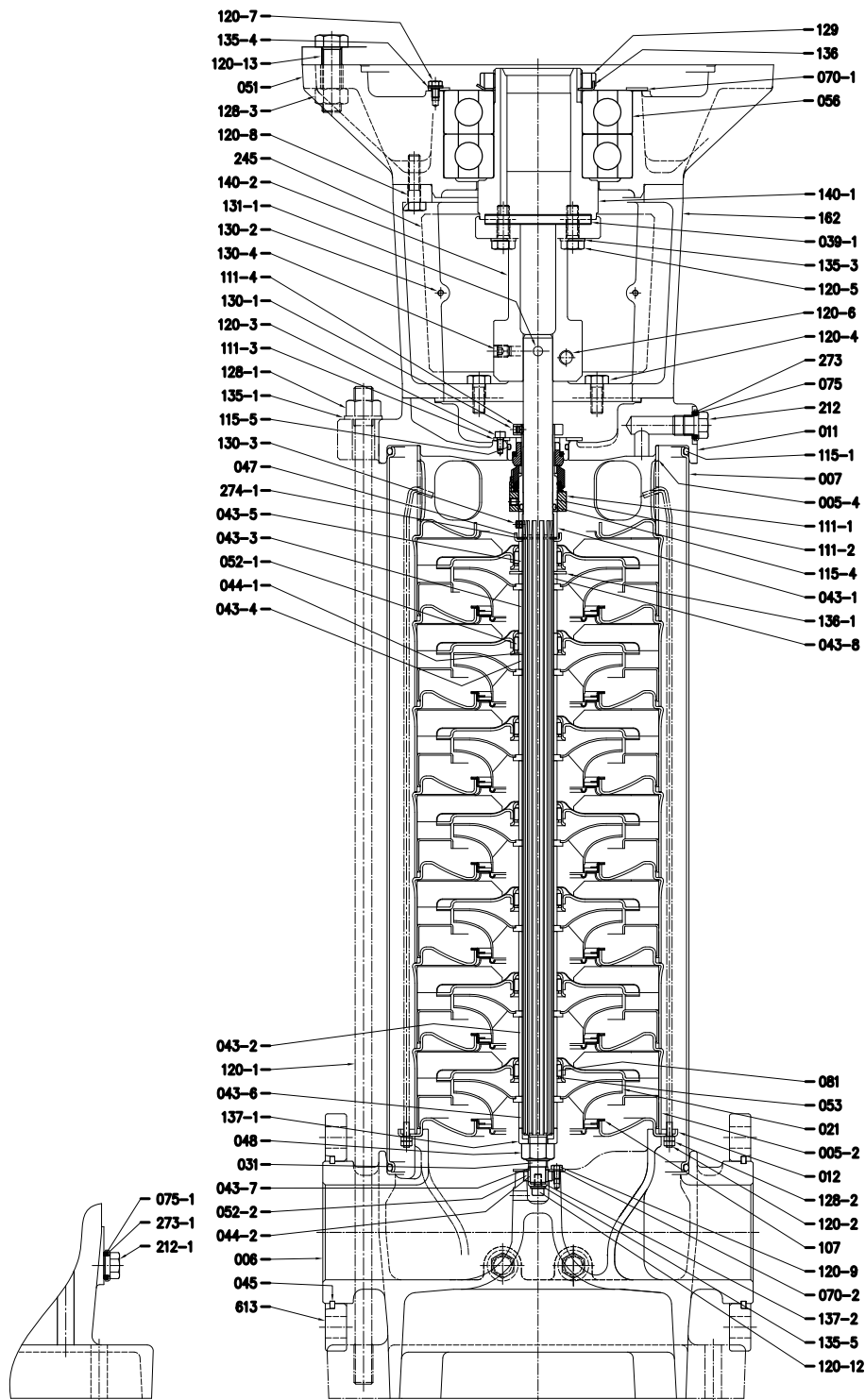
See dimensions page 405

EVMG 45
Pump with single ball bearing



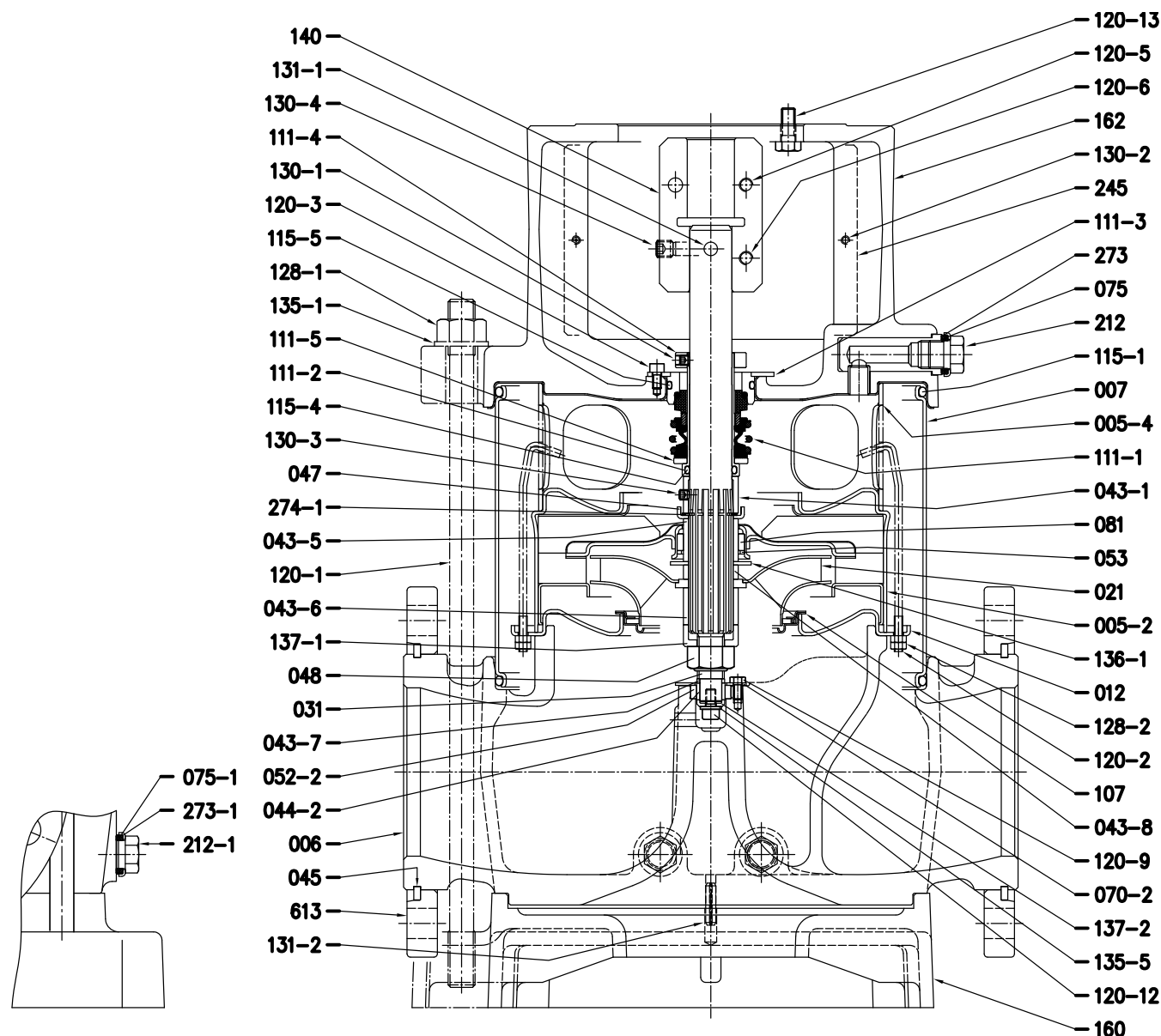
See dimensions page 405

EVMG 45
Pump with double ball bearing



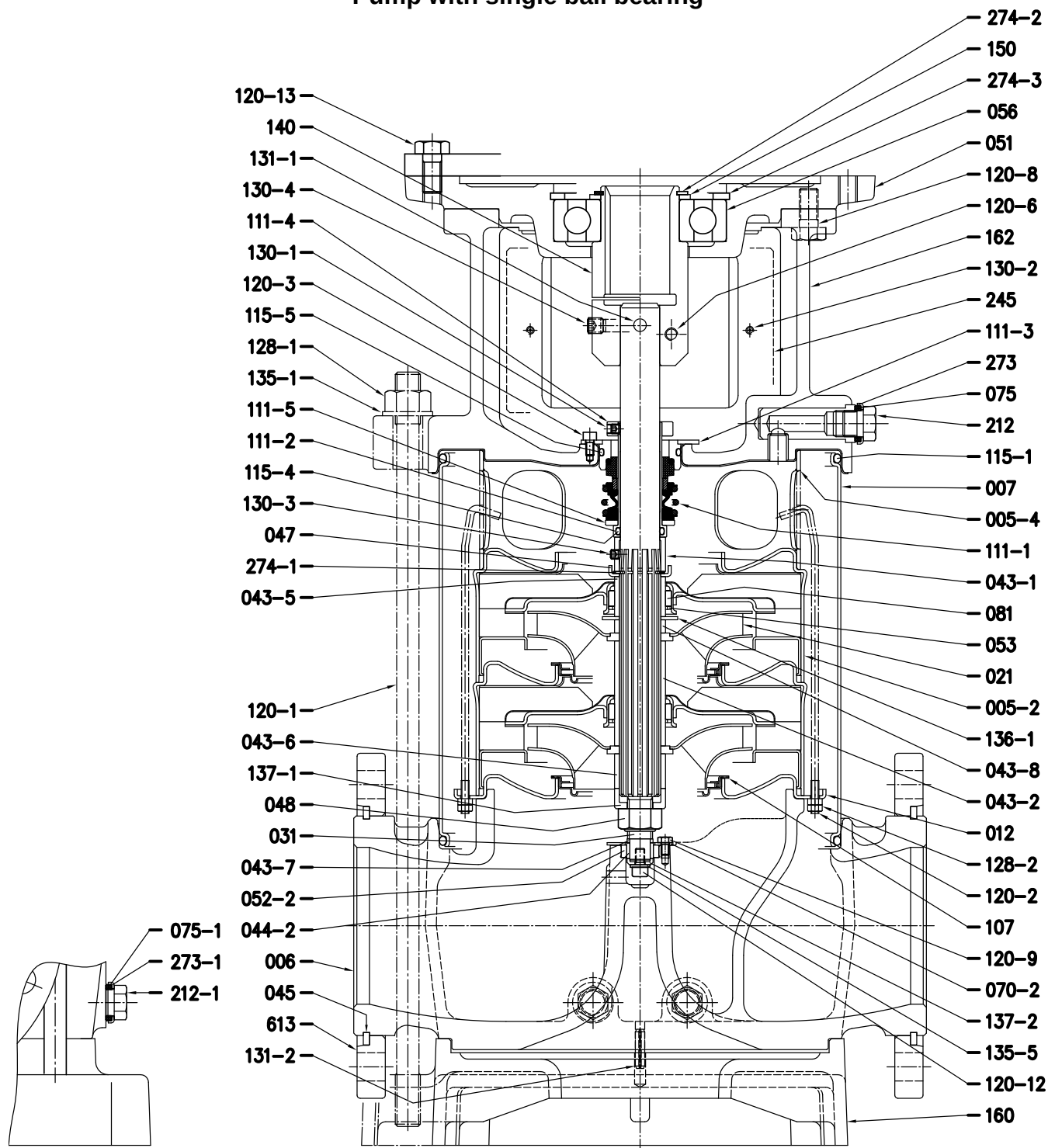
See dimensions page 405

EVM(.) 64
Pump without ball bearing



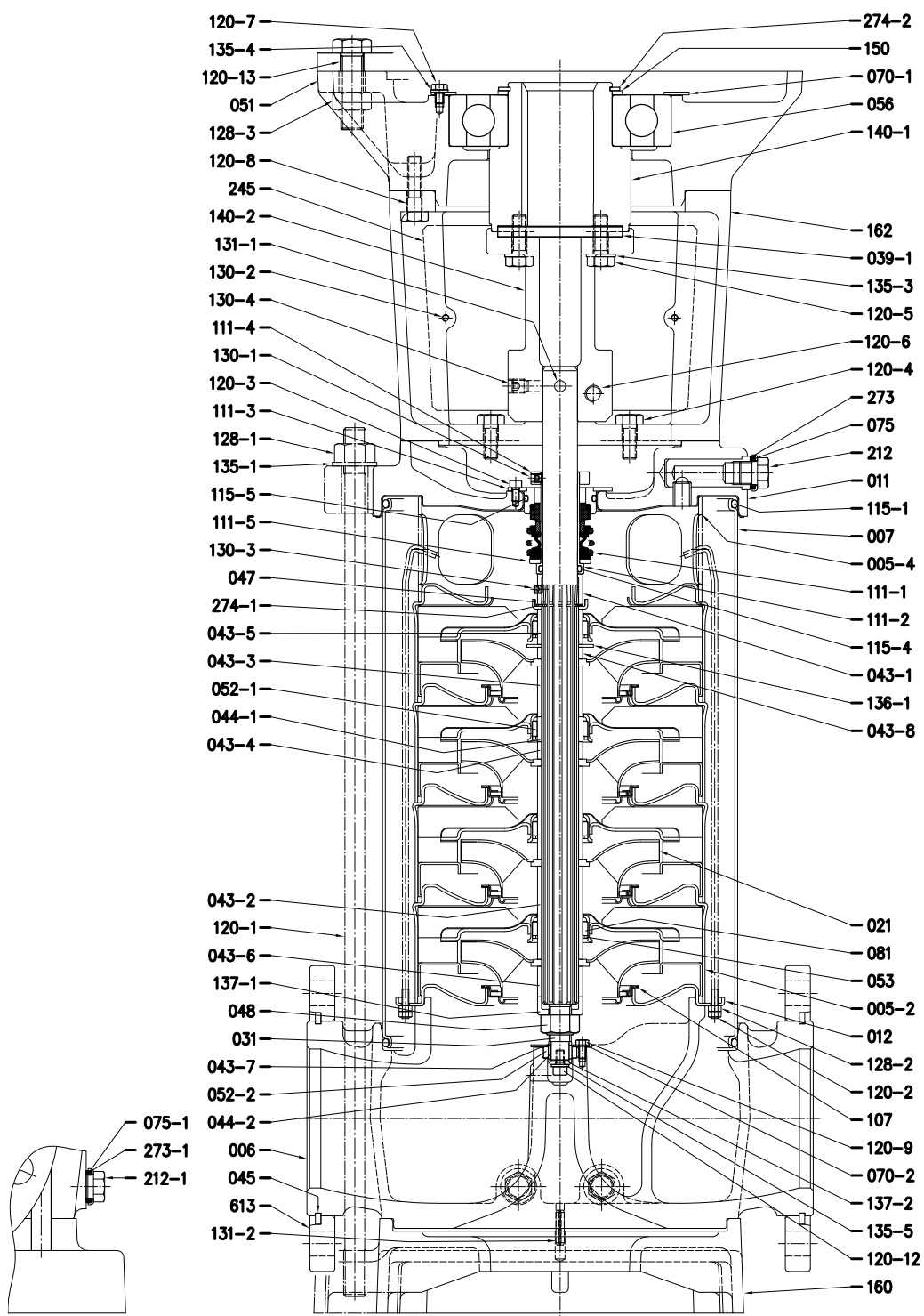
See dimensions page 406

EVM(.) 64
Pump with single ball bearing



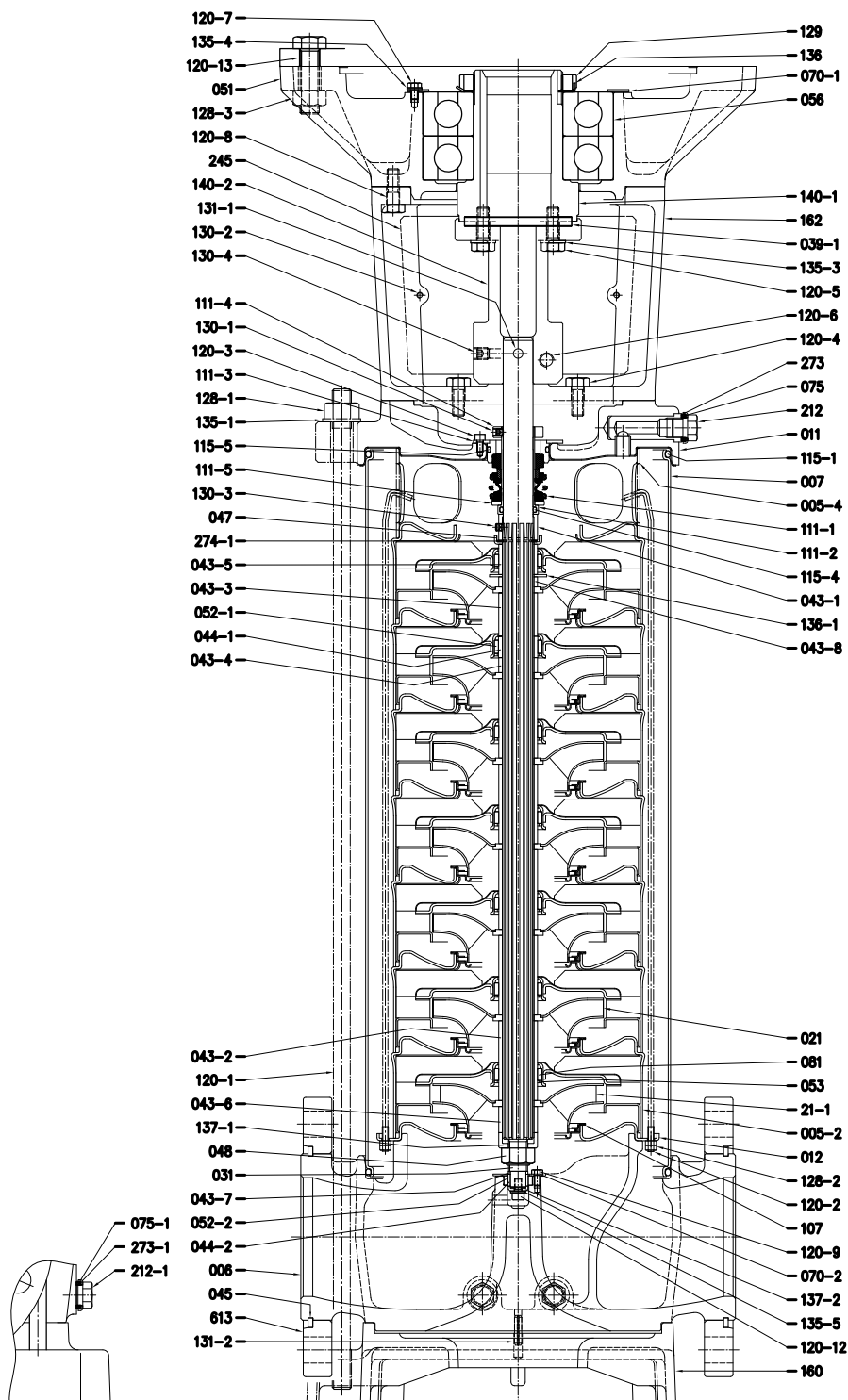
See dimensions page 406

EVM(.) 64
Pump with single ball bearing



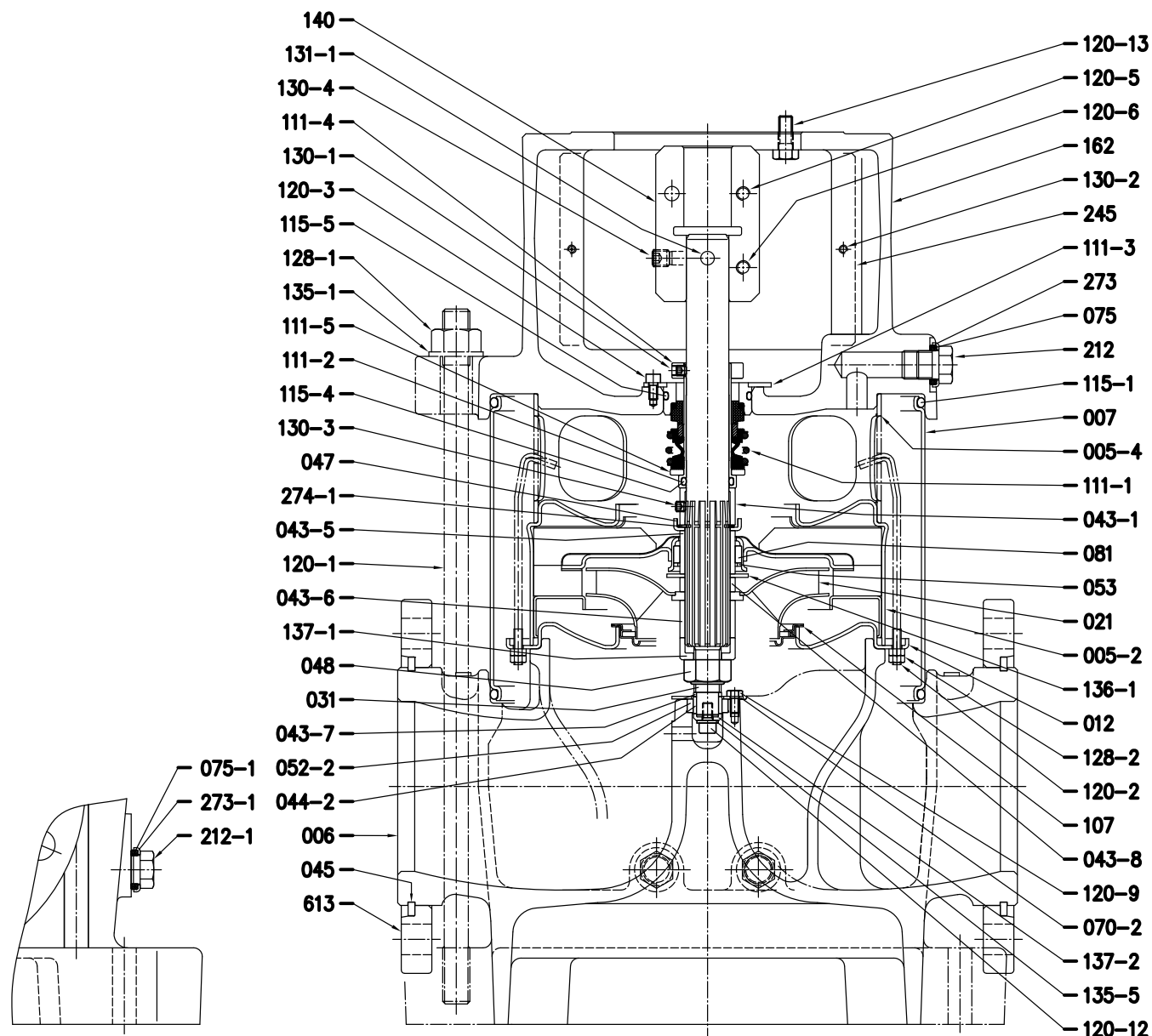
See dimensions page 406

EVM(.) 64
Pump with double ball bearing



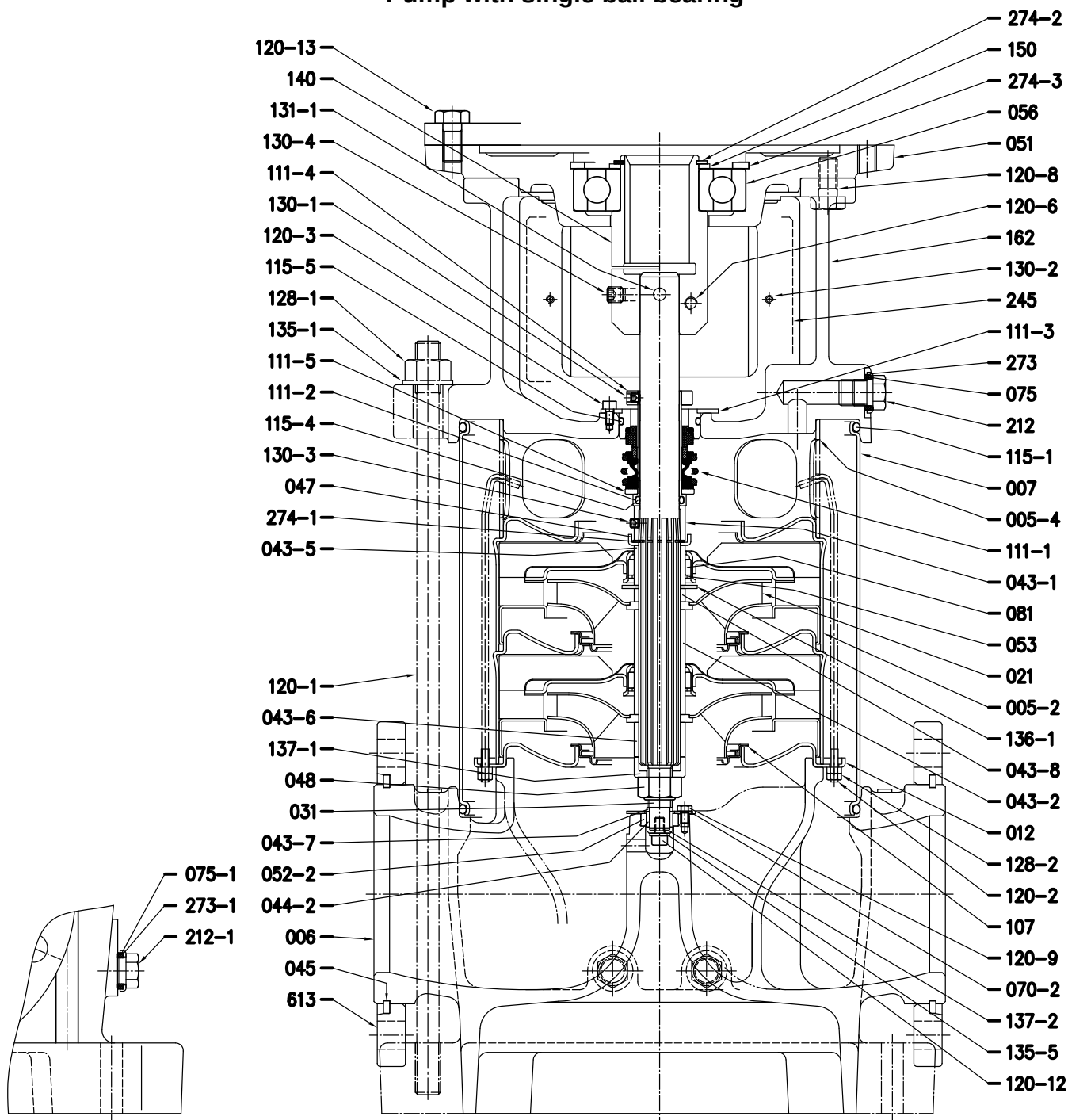
See dimensions page 406

EVMG 64
Pump without ball bearing



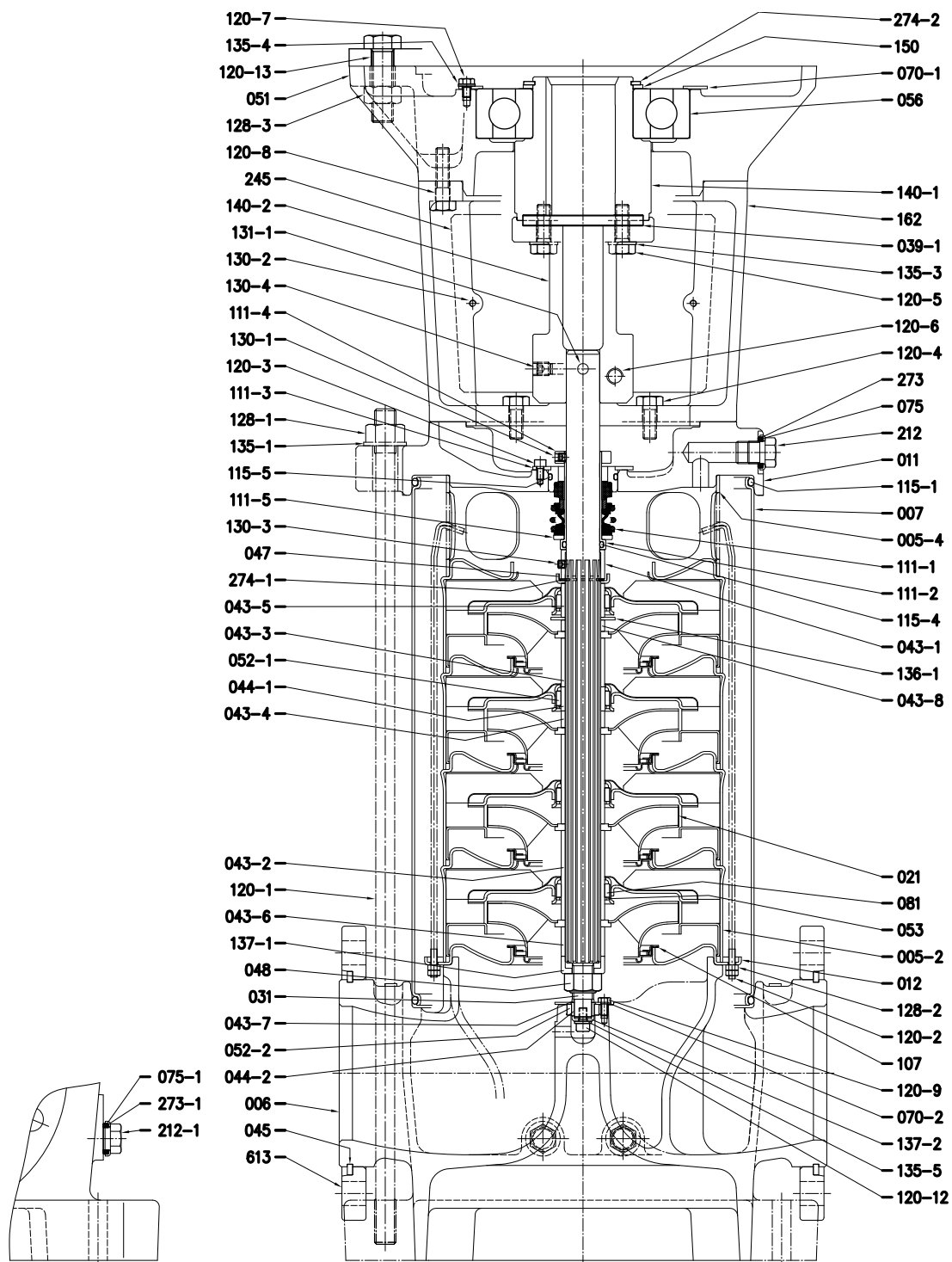
See dimensions page 406

EVMG 64
Pump with single ball bearing



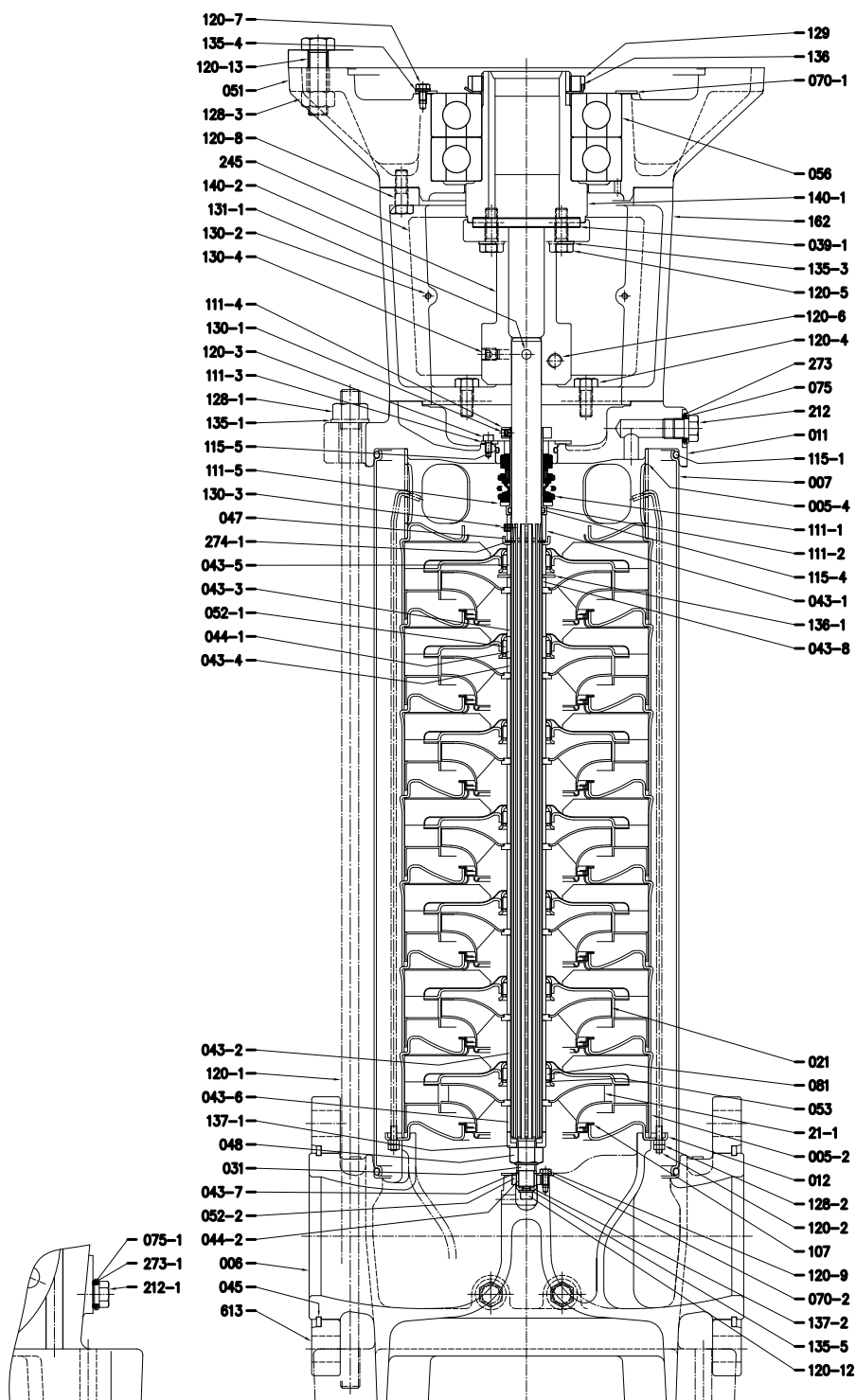
See dimensions page 406

EVMG 64
Pump with single ball bearing



See dimensions pages 406

EVMG 64
Pump with double ball bearing



See dimensions page 406.

SECTIONAL VIEW TABLE EVM(.) 3-5

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY
		EVMG	EVM	EVML			
005-1	Suction casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
005-2	Intermediate casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-3	Intermediate casing bearing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
006	Bottom casing	Cast iron EN-GJL-200-EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
007	Outer casing		EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
031	Shaft	EN 1.4401 (AISI 316)					1
043-1	Shaft sleeve (mechanical seal)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
043-2	Shaft sleeve (intermediate)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-3	Shaft sleeve (bearing)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-5	Shaft sleeve (last stage)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-6	Shaft sleeve (adjustment)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
044-1	Shaft sleeve bearing	Tungsten carbide					[1]
046	Split ring (mechanical seal)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
047	Ring holder	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M8		1
051	Motor adapter	Cast iron EN-GJL-200-EN 1561					[1]
052-1	Bearing	Tungsten carbide					[1]
056	Ball bearing	See table pag.356					[1]
075	O-ring (plug)	EPDM		FPM			1
075-1	O-ring (plug)	EVM, EVML EVMG	EPDM	FPM			2
							4
107	Liner ring	PTFE / EN 1.4301 (AISI 304)		PTFE / EN 1.4401 (AISI 316)			[1]
111	Mechanical seal	Silicon carbide/Carbon/EPDM		Silicon carbide/Carbon/FPM			1
111-3	Mechanical seal seat	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
115-1	O-ring (outer casing)	EPDM		FPM	129.54x5.34	OR 6510	2
115-3	O-ring	/	EPDM	FPM	50x3.1		[1]
115-5	O-ring	EPDM		FPM	23.47x2.62	OR 3093	1
117	Flange gasket	EPDM	/	/			[1]
120-1	Tie rod	Zincate steel 6.8 strenght class ISO 898/1					4
120-3	Screw	A2-70 UNI 7323			M4x6	UNI 5931	4
120-5	Screw for coupling	Zincate steel 8.8 strenght class ISO 898/1			M6x25	UNI 5931	[1]

[1] See table on page 356

SECTIONAL VIEW TABLE EVM(.) 3-5

N°	PART NAME		EVMG	MATERIAL EVM	EVML	DIMENSIONS	STANDARD	Q.TY	
120-6	Screw for coupling	EVM3, EVM5 2 to 22 EVM5 24	Zincate steel			M6x16	UNI 5931	[1]	
120-8	Screw (motor adapter)		Zincate steel 8.8 strenght class ISO 898/1			M8x20	UNI 5931		
120-11	Screw for counterflange		A2-70 UNI 7323			M12x25	UNI 5739	[1]	
120-13	Screw for motor	EVM3 2 to 11, EVM5 2 to 6 EVM3 13 to 15, EVM5 7 to 8 EVM3 18 to 26, EVM5 10 to 22 EVM5 24	Zincate steel 8.8 strenght class ISO 898/1			M10x20	UNI 5739	4	
						M6x16	UNI 5739		
						M8x20	UNI 5739		
						M8x30	UNI 5739		
128-1	Nut for tie rod		Zincate steel			M12x25	UNI 5739		
128-5	Nut for tie rod		/	A2-70 UNI 7323			M10	UNI 5588	4
128-6	Nut for coupling		Zincate steel			M10	UNI 7474	4	
130-2	Screw for coupling guard		A2-70 UNI 7323			M6	UNI 5588	[1]	
130-4	Set-screw		Carbon steel			M5x6	UNI 7687	4	
131-1	Pin for shaft		Carbon steel			M5x6	UNI 5929	[1]	
135-1	Washer		Zincate steel					1	
135-6	Washer knurled		Carbon steel			10.5x21x2	UNI 6592	4	
137-1	Impeller spacer		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	D6		[1]	
140	Coupling	UP TO 1.5 kW 2.2 kW AND ABOVE	Die cast Aluminium EN AB-AISI11Cu2 (Fe) Brass OT 58 UNI 5705					1	
150	Spacer		Carbon steel					2	
160	Base		/	Die cast Aluminium EN AB-AISI11Cu2 (Fe)				1	
162	Motor bracket		Cast iron EN-GJL-200-EN 1561	Cast iron + EN 1.4301(AISI 304)	Cast iron + EN 1.4401 (AISI 316)			1	
212	Plug		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1	
212-1	Plug	EVM, EVML EVMG	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2	
219	Counter flange		Zincate steel	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			4	
245	Coupling guard		EN 1.4301(AISI 304)					[1]	
273	Washer (plug)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2	
273-1	Washer (plug)	EVM, EVML EVMG	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1	
274-2	C-type snap ring (coupling)	EVM3 18, EVM 3 22, EVM 5 10 to 12 EVM3 26, EVM5 14 to 22, EVM5 24	Carbon steel TC 80					4	
274-3	C-type snap ring (bracket)	EVM3 18, EVM 3 22, EVM 5 10 to 12 EVM3 26, EVM5 14 to 22, EVM5 24	Carbon steel TC 80			D35	UNI 7435	[1]	
						D40			
						D50			
						D72			
						D90	UNI 7437	[1]	
						D110			

[1] See table on page 356

SECTIONAL VIEW TABLE EVM(.) 10

N°	PART NAME		MATERIAL			DIMENSIONS	STANDARD	Q.TY
			EVMG	EVM	EVML			
005-1	Suction casing		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
005-2	Intermediate casing		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-3	Intermediate casing bearing		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
006	Bottom casing		Cast iron EN-GJL-200 -EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
007	Outer casing		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
021	Impeller		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
031	Shaft		EN 1.4401 (AISI 316)					1
043-1	Shaft sleeve (mechanical seal)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
043-2	Shaft sleeve (intermediate)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-3	Shaft sleeve (bearing)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-5	Shaft sleeve (last stage)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
044-1	Shaft sleeve bearing		Tungsten carbide					[1]
047	Ring holder		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
048	Impeller nut		A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M10		1
051	Motor adapter		Cast iron EN-GJL-200-EN 1561					[1]
052-1	Bearing		Tungsten carbide					[1]
056	Ball bearing		See table pag.357					[1]
070-1	Ring for bearing		EN 1.4301(AISI 304)					[1]
075	O-ring (plug)		EPDM		FPM			1
075-1	O-ring (plug)	EVM, EVML	EPDM		FPM			2
		EVMG					4	
107	Liner ring		PTFE/EN 1.4301(AISI 304)		PTFE/EN 1.4401 (AISI 316)			[1]
111	Mechanical seal		EPDM		Silicon carbide/Carbon/FPM			1
111-3	Mechanical seal seat		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
115-1	O-ring (outer casing)		EPDM		FPM	164.46x5.34	OR 6645	2
115-3	O-ring		/	EPDM	FPM	60x3.1		[1]
115-5	O-ring		EPDM		FPM	31.34x3.53	OR 4125	1
117	Flange Gasket		EPDM	/	/			[1]
120-1	Tie rod		Zincate steel 6.8 strenght class ISO 898/1					4
120-3	Screw		A2-70 UNI 7323			M5x6	UNI 5931	4
120-5	Screw for coupling	EVM10 2/3	Zincate steel 8.8 strenght class ISO 898/1			M6x16	UNI 5931	[1]
		EVM10 4				M6x25		
120-6	Screw for coupling	EVM10 2/3/5/6	Zincate steel			M6x16	UNI 5931	[1]
		EVM10 8 to 20				M8x20	UNI 5931	
		EVM10 22				M10x25	UNI 5931	
120-7	Screw (bearing)		Zincate steel 8.8 strenght class ISO 898/1			6x10	UNI 5739	[1]
120-8	Screw (motor adapter)		Zincate steel			M2x25	UNI 5739	[1]

[1] See table on page 357

SECTIONAL VIEW TABLE EVM(.) 10

N°	PART NAME		MATERIAL			DIMENSIONS	STANDARD	Q.TY
			EVMG	EVM	EVML			
120-11	Screw for counterflange		A2-70 UNI 7323			M12x20	UNI 5739	[1]
120-13	Screw for motor	EVM10 2 to3	Zincate steel 8.8 strenght class ISO 898/1			M6x16	UNI 5931	4
		EVM10 4				M8x20	UNI 5739	
		EVM10 5 to11				M8x30	UNI 5739	
		EVM10 12 to20				M12x25	UNI 5739	
		EVM10 22				M16x65	UNI 5739	
128-1	Nut for tie rod		Zincate steel			M12	UNI 5588	4
128-3	Nut (motor)		Zincate steel					[1]
128-5	Nut for tie rod		/	Zincate steel		M12	UNI 7474	4
128-6	Nut for coupling		Zincate steel			M6	UNI 5588	[1]
130-2	Screw for coupling guard		A2-70 UNI 7323			M5x6	UNI 7687	4
130-4	Set-screw		Carbon steel			M6x6	UNI 5929	[1]
131-1	Pin for shaft		Carbon steel					1
135-1	Washer		Zincate steel			13x24x2.5	UNI 6592	4
135-4	Washer (bearing)		Carbon steel					[1]
135-6	Washer knurled		Carbon steel			D6		[1]
137-1	Impeller spacer		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
140	Coupling	Other models	Brass OT 58 UNI 5705					1
		EVM10 4	Die cast Aluminium EN AB-AISI11Cu2 (Fe)					2
		EVM10 22	CF 35 SMn Pb10					1
			Carbon steel					[1]
150	Spacer							
160	Base		/	Die cast Aluminium EN AB-AISI11Cu2 (Fe)				1
162	Motor bracket		Cast iron EN-GJL-200 -EN 1561	Cast iron + EN 1.4301(AISI 304)	Cast iron + EN 1.4401 (AISI 316)			1
212	Plug		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
212-1	Plug	EVM, EVML	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2
		EVMG						4
219	Counter flange		Zincate steel	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			[1]
245	Coupling guard		EN 1.4301(AISI 304)					2
273	Washer (plug)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
273-1	Washer (plug)	EVM, EVML	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2
		EVMG						4
274-1	C-type snap ring (mechanical seal)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	D.16 JIS B2804-1978		1
274-2	C-type snap ring (coupling)	EVM10 5, EVM 10 6	Carbon steel TC 80			D35	UNI 7435	[1]
		EVM10 8 to 11				D40		
		EVM10 12 to 20				D50		
		EVM10 22				D65		
274-3	C-type snap ring (bracket)	EVM 10 5, EVM 10 6	Carbon steel TC 80			72	UNI 7437	[1]
		EVM 10 8 to 11				90		
		EVM 10 12 to 20				110		

[1] See table on page 357

SECTIONAL VIEW TABLE EVM(.) 18

N°	PART NAME	MATERIAL			DIMENSION	STANDARD	Q.TY
		EVMG	EVM	EVML			
005-1	Suction casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
005-2	Intermediate casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-3	Intermediate casing bearing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
006	Bottom casing	Cast iron EN-GJL-200 -EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
007	Outer casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
031	Shaft	EN 1.4401 (AISI 316)					1
043-1	Shaft sleeve (mechanical seal)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
043-2	Shaft sleeve (intermediate)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-3	Shaft sleeve (bearing)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
043-5	Shaft sleeve (last stage)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
044-1	Shaft sleeve bearing	Tungsten carbide					[1]
047	Ring holder	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M12		1
051	Motor adapter	Cast iron EN-GJL-200-EN 1561					[1]
052-1	Bearing	Tungsten carbide					[1]
056	Ball bearing	See table pag.357					[1]
070-1	Ring for bearing	EN 1.4301(AISI 304)					[1]
075	O-ring (plug)	EPDM		FPM			1
075-1	O-ring (plug)	EVM, EVML EVMG	EPDM		FPM		2
							4
107	Liner ring	PTFE/EN 1.4301(AISI 304)		PTFE/EN 1.4401 (AISI 316)			[1]
111	Mechanical seal	EPDM		Silicon carbide/Carbon/FPM			1
111-3	Mechanical seal seat	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
115-1	O-ring (outer casing)	EPDM		FPM	164.46x5.34	OR 6645	2
115-5	O-ring	EPDM		FPM	36.1x3.53	OR 4143	1
120-1	Tie rod	Zincate steel 6.8 strenght class ISO 898/1					4
120-3	Screw	A2-70 UNI 7323			M5x6	UNI 5931	4
120-5	Screw for coupling	Zincate steel 8.8 strenght class ISO 898/1			M6x16	UNI 5931	[1]
120-6	Screw for coupling	EVM 18 2 EVM18 3 to8 EVM18 10 to 16	Zincate steel		M6x16	UNI 5931	[1]
					M8x20	UNI 5931	
					M10x25	UNI 5931	

[1] See table on page 357

SECTIONAL VIEW TABLE EVM(.) 18

N°	PART NAME		MATERIAL			DIMENSIONS	STANDARD	Q.TY
			EVMG	EVM	EVML			
120-7	Screw (bearing)		Zincate steel 8.8 strenght class ISO 898/1			6x10	UNI 5739	[1]
120-8	Screw (motor adapter)		Zincate steel 8.8 strenght class ISO 898/1			M12x25	UNI 5739	[1]
120-13	Screw for motor	EVM18 2 to 3	Zincate steel 8.8 strenght class ISO 898/1			M8x20	UNI 5739	4
		EVM18 4				M8x30	UNI 5739	
		EVM18 5 to 8				M12x25	UNI 5739	
		EVM18 10 to16				M16x65	UNI 5739	
128-1	Nut for tie rod		Zincate steel			M12	UNI 5588	4
128-3	Nut (motor)		Zincate steel					[1]
128-5	Nut for tie rod		/	Zincate steel		M12	UNI 7474	4
130-2	Screw for coupling guard		A2-70 UNI 7323			M5x6	UNI 7687	4
130-4	Set-screw		Carbon steel			M8x8	UNI 5929	[1]
131-1	Pin for shaft		Carbon steel					1
135-1	Washer		Zincate steel			13x24x2.5	UNI 6512	4
135-4	Washer (bearing)		Carbon steel					[1]
137-1	Impeller spacer		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
140	Coupling	Other models	Brass OT 58 UNI 5705					1
		EVM18 10 to 16	CF 35 SMn Pb10					
150	Spacer		Carbon steel					[1]
160	Base		/	Cast iron EN-GJL-200-EN 1561				1
162	Motor bracket		Cast iron EN-GJL-200 -EN 1561	Cast iron + EN 1.4301(AISI 304)	Cast iron + EN 1.4401 (AISI 316)			1
212	Plug		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
212-1	Plug	EVM, EVML	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2
		EVMG						4
245	Coupling guard		EN 1.4301(AISI 304)					2
273	Washer (plug)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
273-1	Washer (plug)	EVM, EVML	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			2
		EVMG						4
274-1	C-type snap ring (mechanical seal)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
274-2	C-type snap ring (coupling)	EVM18 4	Carbon steel TC 80			D 40	UNI 7435	[1]
		EVM18 5-8				D 50		
		EVM18 10-16				D 65		
274-3	C-type snap ring (bracket)	EVM18 4	Carbon steel TC 80			D 90	UNI 7437	[1]
		EVM18 5 to 8				D 110		

[1] See table on page 357

SECTIONAL VIEW TABLE EVM(.) 32

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY	
		EVMG	EVM	EVML				
005-1	Suction casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
005-2	Intermediate Casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
005-3	Intermediate casing bearing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
005-4	Discharge casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
006	Bottom casing	Cast Iron EN GJL-250 -EN1561	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)			1	
007	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
011	Casing cover	Cast Iron EN GJL-250 -EN1561	Cast iron+ EN 1.4301 (AISI 304)	Cast iron + EN 1.4401 (AISI 316)			[1]	
021	Impeller	EN 1.4301 (AISI 304)			EN 1.4401 (AISI 316)		[1]	
021-1	Reduced impeller						[1]	
031	Shaft	EN 1.4401 (AISI 316)						1
039-1	Key	Carbon Steel			12x8x90	UNI 6604	[1]	
043-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
043-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
044-1	Shaft sleeve bearing	Tungsten carbide					[1]	
045	Flange holder	EN 1.402 (AISI 420)					4	
047	Ring Holder	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M16		1	
051	Motor adapter	Cast iron EN-GJL-200-EN 1561					[1]	
052-1	Bearing	Tungsten carbide					[1]	
056	Ball bearing	See table page 361					[1]	
070-1	Ring for bearing	EN 1.4301 (AISI 304)					[1]	
075	O-Ring (plug)	EPDM		FPM			1	
075-1	O-Ring (plug)	EPDM		FPM			4	
107	Liner ring	PTFE / EN 1.4301 (AISI 304)		PTFE / EN 1.4401 (AISI 316)			[1]	
111-1	Mechanical seal	Silicon carbide / Carbon / FPM					1	
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
111-4	Seal holder	Brass OT 58 UNI 5705		EN 1.4401 (AISI 316)			1	
111-5	Adjusting ring	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
115-1	O-Ring (outer casing)	EPDM		FPM	D.208.91x5.34		2	
115-4	O-Ring (cartridge sleeve)	EPDM		FPM	D. 24,99x3,59		1	
115-5	O-Ring (seal cover)	EPDM		FPM	D.44,04x3,53		1	
120-1	Tie-rod	Zincate steel 6.8 strenght class ISO 898/1					4	
120-3	Screw	A2-70 UNI 7323			M5xX10	UNI 5931	4	
120-4	Screw	Zincate steel 8.8 strenght class ISO 898/1			M10x25	UNI 5739	[1]	
120-5	Screw for coupling	EVM32 1	Zincate steel 8.8 strenght class ISO 898/1			M6x16	UNI 5931	[1]
		EVM32 2 and 2-2				M8x20	UNI 5931	
		EVM32 5 to 14				M10x30	UNI 5739	

[1] See table on page 358

SECTIONAL VIEW TABLE EVM(.) 32

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY
		EVMG	EVM	EVML			
120-6	Screw for coupling		Zincate steel 8.8 strenght class ISO 898/1		M6x16	UNI 5931	2
					M8x20	UNI 5931	
					M12x30	UNI 5931	
120-7	Screw		Zincate steel 8.8 strenght class ISO 898/1		M6x10	UNI 5739	[1]
120-8	Screw		Zincate steel 8.8 strenght class ISO 898/1		M12x25	UNI 5739	[1]
					M10x30	UNI 5739	
120-10	Screw		Zincate steel 8.8 strenght class ISO 898/1		M12x40	UNI 5739	4
120-13	Screw for motor		Zincate steel 8.8 strenght class ISO 898/1		M8x20	UNI 5739	4
					M12x30	UNI 5739	
					M16x65	UNI 5739	
128-1	Nut for tie rod		Zincate steel		M16	UNI 5588	4
128-3	Nut		Zincate steel		M16	UNI 5588	[1]
129	Lock nut		Carbon Steel				[1]
130-1	Set screw		A2-70 UNI 7323		M6x8	UNI 5923	3
130-2	Screw for coupling guard		A2-70 UNI 7323		M5x6	UNI 7687	4
130-3	Set screw		A2-70 UNI 7323		M6x6	UNI 5923	1
130-4	Set screw		Carbon steel		M10x10	UNI 5923	1
131-1	Pin for shaft		Carbon Steel				1
135-1	Washer		Zincate steel		17x30x3	UNI 6592	4
135-3	Washer		Zincate steel		10.5x17.5x2.2	UNI 1751	[1]
135-4	Washer		Plated carbon steel		06:04	UNI 1751	[1]
136	Washer		Carbon steel				[1]
137-1	Impeller spacer	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
140	Coupling		Brass OT 58 UNI 5705				[1]
140-1	Motor coupling		Carbon steel				[1]
140-2	Coupling (motor side)		Carbon steel				[1]
150	Spacer		carbon steel				[1]
160	Base		Cast iron EN-GJL-200-EN 1561				1
162	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
212	Plug	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
212-1	Plug	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			4
245	Coupling guard		EN 1.4301 (AISI 304)				2
273	Plug Washer	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
273-1	Plug Washer	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			4
274-1	C-type snap ring (mechanical seal)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	D.26	UNI 7435	1
274-2	C-type snap ring (coupling)		Carbon Steel TC 80		D.50	UNI 7435	[1]
					D.65	UNI 7435	
					D.75	UNI 7535	
274-3	C-type snap ring (bracket)		Carbon Steel TC 80		D.110	UNI 7437	[1]
613	Flange		Carbon steel				2

[1] See table on page 358

SECTIONAL VIEW TABLE EVM(.) 45

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY
		EVMG	EVM	EVML			
005-2	Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
006	Bottom casing	Cast iron EN GJL 250 EN 1561	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)			1
007	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
011	Casing cover	Cast iron EN GJL 250 EN 1561	Cast iron + EN 1.4301 (AISI 304)	Cast iron + EN 1.4401 (AISI 316)			[1]
012	Suction cover	EN. 1.1301 (AISI304)		EN 1.4401 (AISI 316)			1
021	Impeller	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
021-1	Reduced impeller						
031	Shaft	EN 1.4401 (AISI 316)					1
039-1	Key	Carbon steel			12x8x90	UNI 6604	[1]
043-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
043-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
043-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
043-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
043-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
043-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
043-7	Shaft sleeve	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
043-8	Shaft sleeve (discharge-lower)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
044-1	Shaft sleeve bearing	Tungsten carbide					[1]
044-2	Bearing sleeve (bottom bearing)	Tungsten carbide					1
045	Flange holder	EN 1.402 (AISI 420)					4
047	Ring holder	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M16		1
051	Motor adapter	Cast iron EN-GJL-200-EN 1561					[1]
052-1	Bearing	Tungsten carbide					[1]
052-2	Bearing	Tungsten carbide					1
053	Bush holder	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]
056	Ball bearing	see table page 361					[1]
070-1	Ring for bearing	EN 1.4301 (AISI 304)					[1]
070-2	Ring for bearing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
075	O-Ring (plug)	EPDM		FPM			1
075-1	O-Ring (plug)	EPDM		FPM			4
081	Bush	PTFE					[1]
107	Liner ring	PTFE /EN 1.4401 (AISI316)					[1]
111-1	Mechanical seal	Silicon carbide /Carbon/FPM					1
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
111-4	Seal holder	Brass OT 58 UNI 5705		EN 1.4401 (AISI 316)			1
111-5	Adjusting ring	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
115-1	O-Ring (outer casing)	EPDM		FPM	D.240.66x5.34		2
115-4	O-Ring (cartridge sleeve)	EPDM		FPM	D.24.99x3.53		1
115-5	O-Ring (seal cover)	EPDM		FPM	D.44.04x3.53		1
120-1	Tie Rod	Zincate steel 6.8 strenght class ISO 898/1					4
120-2	Tie Rod	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			2
120-3	Screw	A2-70 UNI 7323			M5x10	UNI 5931	4
120-4	Screw	Zincate steel 8.8 strenght class ISO 898/1			M10x25	UNI 5739	[1]

[1] See table on page 359

SECTIONAL VIEW TABLE EVM(.) 45

N°	PART NAME		MATERIAL			DIMENSIONS	STANDARD	Q.TY
			EVMG	EVM	EVML			
120-5	Screw for coupling	EVM 45 1-0 and 1-1	Zincate steel 8.8 strenght class ISO 898/1			M8x20	UNI 5931	[1]
		EVM 45 3 to 10				M10x30	UNI 5739	
120-6	Screw for coupling	EVM 45 1 to 2	Zincate steel 8.8 strenght class ISO 898/1			M8x20	UNI 5931	2
		EVM 45 3 to 10				M12x30	UNI 5931	
120-7	Screw		Zincate steel 8.8 strenght class ISO 898/1			M6X10	UNI 5739	[1]
120-8	Screw	EVM 45 2-0 and 2-2	Zincate steel 8.8 strenght class ISO 898/1			M12x25	UNI 5739	[1]
		EVM 45 3 to 10				M10x30	UNI 5739	
120-9	Screw	EVML	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	M5x8	UNI 5737	4
	EVM, EVMG	UNI 5739						
120-12	Screw		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	M6x20	UNI 5931	1
120-13	Screw	EVM45 1-0, 1-1	Zincate steel 8.8 strenght class ISO 898/1			M8x20	UNI 5739	4
		EVM45 2-0, 2-2				M12x30	UNI 5739	
		EVML45 9-0, 10-0, 10-2				M6x10	UNI 5739	
		EVM45 9-0, 10-0, 10-2				M16x55	UNI 5737	
		EVM45 3-0 to 9-2				M16x65	UNI 5739	
128-1	Nut for tie rod		Zincate steel			M16	UNI 5588	4
128-2	Nut		Carbon steel		EN 1.4401 (AISI 316)	M5	UNI 5588	4
128-3	Nut		Zincate steel			M16	UNI 5588	[1]
129	Lock nut		Carbon steel			M75x2		[1]
130-1	Set screw		A2- 70 UNI 7323			M6x8	UNI 5923	3
130-2	Screw for coupling guard		A2-70 UNI 7323			M5x6	UNI 7687	4
130-3	Set screw		A2- 70 UNI 7323			M6x6	UNI 5923	1
130-4	Set screw		Carbon steel			M10x10	UNI 5923	1
131-1	Pin for shaft		Carbon steel					1
131-2	Elastic pin		-	Zincate steel		6x25	UNI 6873	1
135-1	Washer		Zincate steel			17x30x3	UNI 6592	4
135-3	Washer		Zincate steel			10.5x17.5x2.2	UNI 1751	[1]
135-4	Washer		Plated carbon steel			6,4	UNI 1751	[1]
135-5	Washer		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
136	Bearing washer		Carbon steel					[1]
136-1	Stopper ring		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
137-1	Impeller spacer		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
137-2	Shaft spacer		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
140	Coupling		Brass OT 58 UNI 5705					[1]
140-1	Motor coupling		Carbon steel					[1]
140-2	Coupling (pump side)		Carbon steel					[1]
150	Spacer		Carbon steel					[1]
160	Base		-	Cast iron EN-GJL-200 EN1561				1
162	Mator bracket		Cast iron EN-GJL-200 EN1561					1
212	Plug		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
212-1	Plug		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			4
245	Coupling guard		EN 1.4301 (AISI 304)					2
273	Plug washer		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1
273-1	Plug washer		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			4
274-1	C-type snap ring		EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)	D.26	UNI 7435	1
274-2	C-Typr snap ring	EVM45 2-0, 2-2	Carbon steel TC80			D.50	UNI 7435	[1]
		EVM45 3 to 5				D.65	UNI 7435	
		EVM45 6-0 and 6-2				D.75	UNI 7535	
274-3	C-Typr snap ring		Carbon steel TC80			D.110	UNI 7437	[1]
613	Flange		Carbon steel					2

[1] See table on page 359

SECTIONAL VIEW TABLE

EVM(.) 64

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY	
		EVMG	EVM	EVML				
005-2	Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
005-4	Discharge casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
006	Bottom casing	Cast iron EN GJL-250 - EN 1561	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1	
007	Outer casing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
011	Casing cover	Cast iron EN GJL-250 - EN 1561	Cast iron + EN 1.4301 (AISI 304)	Cast iron + EN 1.4401 (AISI 316)			[1]	
012	Suction cover	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
021	Impeller	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
021-1	Reduced impeller							
031	Shaft	EN 1.4401 (AISI 316)					1	
039-1	Key	Carbon steel			12x8x90	UNI 6604	[1]	
043-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
043-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
043-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
043-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
043-7	Shaft sleeve (bottom bearing)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
043-8	Shaft sleeve (discharge/lower)	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
044-1	Shaft sleeve bearing	Tungsten carbide					[1]	
044-2	Bearing sleeve	Tungsten carbide					1	
045	Flange holder	EN 1.402 (AISI 420)					4	
047	Ring holder	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M16		1	
051	Motor adapter	Cast iron EN-GJL-200-EN 1561					[1]	
052-1	Bearing	Tungsten carbide					[1]	
052-2	Bearing	Tungsten carbide					1	
053	Bush holder	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			[1]	
056	Ball bearing	See table page 361					[1]	
070-1	Ring for bearing	EN 1.4301 (AISI 304)					[1]	
070-2	Ring for bearing	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
075	O-Ring (plug)	EPDM		FPM			1	
075-1	O-Ring (plug)	EPDM		FPM			4	
081	Bush	PTFE					[1]	
107	Liner ring	PTFE / EN 1.4401 (AISI 316)					[1]	
111-1	Mechanical seal	Silicon carbide / Carbon /FPM					1	
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
111-4	Seal holder	Brass OT 58 UNI 5705		EN 1.4401 (AISI 316)			1	
111-5	Adjusting ring	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
115-1	O-Ring (outer casing)	EPDM		FPM	D.240.66x5.34		2	
115-4	O-Ring (cartridge sleeve)	EPDM		FPM	D.24.99x3.53		1	
115-5	O-Ring (seal cover)	EPDM		FPM	D.44.04x3.53		1	
120-1	Tie-rod	Zincate steel 6.8 Strenght class ISO 898/1					4	
120-2	Tie-rod	EN 1.4301 (AISI 304)		EN 1.4401 (AISI 316)			1	
120-3	Screw (mechanical seal)	A2-70 UNI 7323			M5x10	UNI 5931	4	
120-4	Screw (casing cover)	Zincate steel 8.8 Strenght class ISO 898/1			M10x25	UNI 5739	[1]	

[1] See table on page 360

SECTIONAL VIEW TABLE EVM(.) 64

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY
		EVMG	EVM	EVML			
120-5	Screw for coupling	EVM 64 1-1 EVM 64 2 and higher	Zincate steel 8.8 Strenght class ISO 898/1		M8x20 M10x30	UNI 5931 UNI 5739	[1]
120-6	Screw for coupling	EVM 64 1-0, 1-1, 2-2 EVM 64 2 and higher	Zincate steel 8.8 Strenght class ISO 898/1		M8x20 M12x30	UNI 5931 UNI 5931	2
120-7	Screw		Zincate steel		M6x10	UNI 5739	[1]
120-8	Screw	EVM 64 1-0, 2-2	Zincate steel 8.8 Strenght class ISO 898/1		M6x10 M10x30	UNI 5739 UNI 5739	[1]
120-9	Screw	EVML EVM, EVMG	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M5x8 M5x8	UNI 5737 UNI 5739	4
120-12	Screw		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M6x20	UNI 5931	1
120-13	Screw	EVM 64 1-1 EVM 64 1-0, 2-2 EVM 64 6 to 7 EVM 64 2 to 5	Zincate steel 8.8 Strenght class ISO 898/1		M8x20 M12x30 M16x55 M16x65	UNI 5739 UNI 5739 UNI 5737 UNI 5739	4
128-1	Nut for tie rod		Zincate steel		M16	UNI 5588	4
128-2	Nut		Carbon steel	EN 1.4401 (AISI 316)	M5	UNI 5588	4
128-3	Nut		Zincate steel		M16	UNI 5588	[1]
129	Lock nut		Carbon steel				[1]
130-1	Set screw		A2-70 UNI 7323		M6x8	UNI 5923	3
130-2	Screw for coupling guard		A2-70 UNI 7323		M5x6	UNI 7687	4
130-3	Set screw		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M6x6	UNI 5923	1
130-4	Set screw		Zincate steel		M10x10	UNI 5923	1
131-1	Pin for shaft		Carbon steel				1
131-2	Elastic pin	-	Zincate steel		6x25	UNI 6873	1
135-1	Washer		Zincate steel		17x30x3	UNI 6592	4
135-3	Washer		Zincate steel		10.5x17.5x2.2	UNI 1751	[1]
135-4	Washer		Plated carbon steel		6.4	UNI 1751	[1]
135-5	Washer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	D.6		1
136	Bearing washer		Carbon steel				[1]
136-1	Stopper ring		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
137-1	Impeller spacer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
137-2	Shaft spacer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
140	Coupling		Brass OT 58 UNI 5705				[1]
140-1	Motor coupling		Carbon steel				[1]
140-2	Coupling (pump side)		Carbon steel				[1]
150	Spacer		Carbon steel				[1]
160	Base	-	Cast iron EN-GJL-200 EN 1561				1
162	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
212	Plug		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
212-1	Plug		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			4
245	Coupling guard		EN 1.4301 (AISI 304)				2
273	Plug washer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
273-1	Plug washer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			4
274-1	C-Type snap ring		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	D.26	UNI 7435	1
274-2	C-Type snap ring	EVM 1-0, 2-2 EVM64 2 to 4-3 EVM64 4-0, 4-1	Carbon steel TC80		D.50 D.65 D.75	UNI 7435 UNI 7435 UNI 7535	[1]
274-3	C-Type snap ring		Carbon steel TC80		D.110	UNI 7437	[1]
613	Flange		Carbon steel				2

[1] See table on page 360

QUANTITY FOR MODEL EVM(.) 3-5

Pump Type EVM(.)	Quantity for model																											
	005-2	005-3	021	043-2	043-3	043-5	043-6	044-1	046	051	052-1	056	Bearing type	107	115-3	117	120-5	120-6	120-8	120-11	128-6	130-4	135-6	150	219	274-2	274-3	
3 2N5/0.37	/	1	2	/	1	/	/	1	1	/	1	/	/	2	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 3N5/0.37	1	1	3	1	1	/	/	1	1	/	1	/	/	3	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 4N5/0.55	2	1	4	2	1	/	/	1	1	/	1	/	/	4	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 5N5/0.55	3	1	5	3	1	/	/	1	1	/	1	/	/	5	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 6N5/0.75	4	1	6	4	1	/	/	1	1	/	1	/	/	6	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 7N5/0.75	5	1	7	5	1	/	/	1	1	/	1	/	/	7	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 9N5/1.1	7	1	9	7	1	/	/	1	1	/	1	/	/	9	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 11N5/1.1	9	1	11	9	1	/	/	1	1	/	1	/	/	11	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 13N5/1.5	10	2	13	10	2	/	/	2	1	/	2	/	/	13	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 15N5/1.5	12	2	15	12	2	/	/	2	1	/	2	/	/	15	2	2	4	/	/	4	4	/	4	/	2	/	/	
3 18F5/2.2	15	2	18	15	2	/	/	2	1	1	2	1	6207 ZZ	18	/	/	/	2	/	/	/	1	/	1	/	1	1	
3 22F5/2.2	19	2	22	19	2	/	/	2	1	1	2	1	6207 ZZ	22	/	/	/	2	/	/	/	1	/	1	/	1	1	
3 26F5/3.0	23	2	26	23	2	/	/	2	1	1	2	1	6207 ZZ	26	/	/	/	2	/	/	/	1	/	1	/	1	1	
5 2N5/0.37	/	1	2	/	1	1	1	1	1	/	1	/	/	2	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 3N5/0.55	1	1	3	1	1	1	1	1	1	/	1	/	/	3	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 4N5/0.75	2	1	4	2	1	1	1	1	1	/	1	/	/	4	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 5N5/1.1	3	1	5	3	1	1	1	1	1	/	1	/	/	5	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 6N5/1.1	4	1	6	4	1	1	1	1	1	/	1	/	/	6	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 7N5/1.5	5	1	7	5	1	1	1	1	1	/	1	/	/	7	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 8N5/1.5	6	1	8	6	1	1	1	1	1	/	1	/	/	8	2	2	4	/	/	4	4	/	4	/	2	/	/	
5 10N5/2.2	8	1	10	8	1	1	1	1	1	1	1	1	6207 ZZ	10	2	2	/	2	/	4	/	1	/	1	2	1	1	
5 11N5/2.2	8	2	11	8	2	1	1	2	1	1	2	1	6207 ZZ	11	2	2	/	2	/	4	/	1	/	1	2	1	1	
5 12N5/2.2	9	2	12	9	2	1	1	2	1	1	2	1	6207 ZZ	12	2	2	/	2	/	4	/	1	/	1	2	1	1	
5 14N5/3.0	11	2	14	11	2	1	1	2	1	1	2	1	6308 ZZ	14	2	2	/	2	/	4	/	1	/	1	2	1	1	
5 16N5/3.0	13	2	16	13	2	1	1	2	1	1	2	1	6308 ZZ	16	2	2	/	2	/	4	/	1	/	1	2	1	1	
5 18F5/4.0	15	2	18	15	2	1	1	2	1	1	2	1	6308 ZZ	18	/	/	/	2	/	/	/	1	/	1	/	1	1	
5 19F5/4.0	16	2	19	16	2	1	1	2	1	1	2	1	6308 ZZ	19	/	/	/	2	/	/	/	1	/	1	/	1	1	
5 22F5/4.0	19	2	22	19	2	1	1	2	1	1	2	1	6308 ZZ	22	/	/	/	2	/	/	/	1	/	1	/	1	1	
5 24F5/5.5	21	2	24	21	2	1	1	2	1	1	2	1	6310 ZZ	24	/	/	/	2	4	/	/	1	/	1	/	1	1	

QUANTITY FOR MODEL EVM(.) 10-18

Pump Type EVM(.)	Quantity for model																												
	005-2	005-3	021	043-2	043-3	043-5	044-1	051	052-1	056	Bearing type	070-1	107	115-3	117	120-5	120-6	120-7	120-8	120-11	128-3	128-6	130-4	135-4	135-6	150	219	274-2	274-3
10 2N5/0.75	/	1	2	/	1	1	1	/	1	/	/	/	2	2	2	2	2	/	/	4	/	/	1	/	/	/	2	/	/
10 3N5/1.1	1	1	3	1	1	1	1	/	1	/	/	/	3	2	2	2	2	/	/	4	/	/	1	/	/	/	2	/	/
10 4N5/1.5	2	1	4	2	1	1	1	/	1	/	/	/	4	2	2	4	/	/	4	/	4	/	/	/	4	/	2	/	/
10 5N5/2.2	3	1	5	3	1	1	1	1	1	1	6207 ZZ	/	5	2	2	/	2	/	/	4	/	/	1	/	/	1	2	1	1
10 6N5/2.2	4	1	6	4	1	1	1	1	1	1	6207 ZZ	/	6	2	2	/	2	/	/	4	/	/	1	/	/	1	2	1	1
10 8N5/3.0	6	1	8	6	1	1	1	1	1	1	6308 ZZ	/	8	2	2	/	2	/	/	4	/	/	1	/	/	1	2	1	1
10 10N5/4.0	8	1	10	8	1	1	1	1	1	1	6308 ZZ	/	10	2	2	/	2	/	/	4	/	/	1	/	/	1	2	1	1
10 11N5/4.0	9	2	11	9	1	1	1	1	1	1	6308 ZZ	/	11	2	2	/	2	/	/	4	/	/	1	/	/	1	2	1	1
10 12N5/5.5	9	2	12	9	2	1	2	1	2	1	6310 ZZ	/	12	2	2	/	2	/	4	4	/	/	1	/	/	1	2	1	1
10 14N5/5.5	11	2	14	11	2	1	2	1	2	1	6310 ZZ	/	14	2	2	/	2	/	4	4	/	/	1	/	/	1	2	1	1
10 15F5/5.5	12	2	15	12	2	1	2	1	2	1	6310 ZZ	/	15	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
10 16F5/7.5	13	2	16	13	2	1	2	1	2	1	6310 ZZ	/	16	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
10 18F5/7.5	15	2	18	15	2	1	2	1	2	1	6310 ZZ	/	18	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
10 20F5/7.5	17	2	20	17	2	1	2	1	2	1	6310 ZZ	/	20	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
10 22F5/11	19	2	22	19	2	1	2	1	2	1	6313 ZZ	1	22	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	/
18 2F5/2.2	/	1	2	/	1	1	1	/	1	/	/	/	2	/	/	2	2	/	/	/	/	1	/	/	/	/	/	/	/
18 3F5/3.0	1	1	3	1	1	1	1	1	1	1	/	/	3	/	/	2	2	/	/	/	/	1	/	/	/	/	/	/	/
18 4F5/4.0	2	1	4	2	1	1	1	1	1	1	6308 ZZ	/	4	/	/	/	2	/	/	/	/	/	1	/	/	1	/	1	1
18 5F5/5.5	3	1	5	3	1	1	1	1	1	1	6310 ZZ	/	5	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
18 6F5/5.5	4	1	6	4	1	1	1	1	1	1	6310 ZZ	/	6	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
18 7F5/7.5	5	1	7	5	1	1	1	1	1	1	6310 ZZ	/	7	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
18 8F5/7.5	6	1	8	6	1	1	1	1	1	1	6310 ZZ	/	8	/	/	/	2	/	4	/	/	/	1	/	/	1	/	1	1
18 10F5/11	7	2	10	7	2	1	2	1	2	1	6313 ZZ	1	10	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	1
18 12F5/11	9	2	12	9	2	1	2	1	2	1	6313 ZZ	1	12	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	1
18 14F5/15	11	2	14	11	2	1	2	1	2	1	6313 ZZ	1	14	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	1
18 15F5/15	12	2	15	12	2	1	2	1	2	1	6313 ZZ	1	15	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	1
18 16F5/15	13	2	16	13	2	1	2	1	2	1	6313 ZZ	1	16	/	/	/	2	3	4	/	4	/	1	3	/	1	/	1	1

QUANTITY FOR MODEL EVM(.) 32

Pump Type EVM (.)	Quantity for model																															
	005-2	005-3	011	021	021-1	039-1	043-2	043-3	043-4	044-1	051	052-1	056	070-1	107	111-5	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3	
32 10F5/2.2	/	1	/	1	/	/	/	1	1	1	/	1	/	/	1	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/	
32 2-2F5/3.0	/	1	/	/	2	/	/	1	1	1	/	1	/	/	2	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/	
32 2-0F5/4.0	/	1	/	2	/	/	/	1	1	1	/	1	/	/	2	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/	
32 3-3F5/5.5	1	1	/	/	3	/	1	1	1	1	1	1	1	/	3	1	/	/	/	4	/	/	/	/	/	1	/	/	1	1	1	
32 3-1F5/5.5	1	1	/	2	1	/	1	1	1	1	1	1	1	/	3	1	/	/	/	4	/	/	/	/	/	1	/	/	1	1	1	
32 4-3F5/7.5	2	1	/	1	3	/	2	1	1	1	1	1	1	/	4	1	/	/	/	4	/	/	/	/	/	1	/	/	1	1	1	
32 4-1F5/7.5	2	1	/	3	1	/	2	1	1	1	1	1	1	/	4	1	/	/	/	4	/	/	/	/	/	1	/	/	1	1	1	
32 5-3F5/11	3	1	1	2	3	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 5-0F5/11	3	1	1	5	/	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 6-3F5/11	4	1	1	3	3	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 6-2F5/11	4	1	1	4	2	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 7-3F5/15	5	1	1	4	3	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 7-0F5/15	5	1	1	7	/	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 8-3F5/15	6	1	1	5	3	1	6	1	1	1	1	1	1	1	8	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 8-2F5/15	6	1	1	6	2	1	6	1	1	1	1	1	1	1	8	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 9-3F5/18.5	7	1	1	6	3	1	7	1	1	1	1	1	1	1	9	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 9-0F5/18.5	7	1	1	9	/	1	7	1	1	1	1	1	1	1	9	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 10-3F5/18.5	7	2	1	7	3	1	7	2	2	2	1	2	1	1	10	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 10-2F5/18.5	7	2	1	8	2	1	7	2	2	2	1	2	1	1	10	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 11-3F5/22	8	2	1	8	3	1	8	2	2	2	1	2	1	1	11	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 11-0F5/22	8	2	1	11	/	1	8	2	2	2	1	2	1	1	11	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 12-3F5/22	9	2	1	9	3	1	9	2	2	2	1	2	1	1	12	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
32 13-3F5/30	10	2	1	10	3	1	10	2	2	2	1	2	1	1	13	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
32 13-0F5/30	10	2	1	13	/	1	10	2	2	2	1	2	1	1	13	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
32 14-3F5/30	11	2	1	11	3	1	11	2	2	2	1	2	1	1	14	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
32 14-0F5/30	11	2	1	14	/	1	11	2	2	2	1	2	1	1	14	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	

QUANTITY FOR MODEL EVM(.) 45

Pump Type EVM(.)	Quantity for model																															
	005-2	011	021	021-1	039-1	043-2	043-3	043-4	044-1	051	052-1	053	056	070-1	081	107	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3	
45 1-1F5/3.0	1	/	/	1	/	/	/	/	/	/	/	1	/	/	1	1	/	2	/	/	/	/	/	/	1	1	/	/	/	/	/	
45 1-0F5/4.0	1	/	1	/	/	/	/	/	/	/	/	1	/	/	1	1	/	2	/	/	/	/	/	/	1	1	/	/	/	/	/	
45 2-2F5/5.5	2	/	/	2	/	1	/	/	/	1	/	2	1	/	2	2	/	/	/	4	/	/	/	/	1	1	/	/	1	1	1	
45 2-0F5/7.5	2	/	2	/	/	1	/	/	/	1	/	2	1	/	2	2	/	/	/	4	/	/	/	/	1	1	/	/	1	1	1	
45 3-2F5/11	3	1	1	2	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 3-0F5/11	3	1	3	/	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 4-2F5/15	4	1	2	2	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 4-0F5/15	4	1	4	/	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 5-2F5/18.5	5	1	3	2	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 5-0F5/18.5	5	1	5	/	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 6-2F5/22	6	1	4	2	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 6-0F5/22	6	1	6	/	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/	
45 7-2F5/30	7	1	5	2	1	5	1	1	1	1	1	7	1	1	6	7	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 7-0F5/30	7	1	7	/	1	5	1	1	1	1	1	7	1	1	6	7	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 8-2F5/30	8	1	6	2	1	6	1	1	1	1	1	8	1	1	7	8	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 8-0F5/30	8	1	8	/	1	6	1	1	1	1	1	8	1	1	7	8	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 9-2F5/30	9	1	7	2	1	7	1	1	1	1	1	9	1	1	8	9	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 9-0F5/37	9	1	9	/	1	7	1	1	1	1	1	9	1	1	8	9	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 10-2F5/37	10	1	8	2	1	8	1	1	1	1	1	10	1	1	9	10	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	
45 10-0F5/37	10	1	10	/	1	8	1	1	1	1	1	10	1	1	9	10	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	

QUANTITY FOR MODEL EVM(.) 64

Pump Type EVM(.)	Quantity for model																													
005-2	011	021	021-1	039-1	043-2	043-3	043-4	044-1	051	052-1	053	056	070-1	081	107	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
64 1-1F5/4.0	1	/	/	1	/	/	/	/	/	/	1	/	/	1	1	/	2	/	/	/	/	/	/	1	1	/	/	/	/	/
64 1-0F5/5.5	1	/	1	/	/	/	/	/	1	/	1	1	1	1	1	/	/	/	4	/	/	/	/	1	1	/	/	1	1	1
64 2-2F5/7.5	2	/	/	2	/	1	/	/	/	1	/	2	1	/	2	2	/	/	/	4	/	/	/	/	1	1	/	/	1	1
64 2-1F5/11	2	1	1	1	1	1	/	/	/	1	/	2	1	1	2	2	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 2-0F5/11	2	1	2	/	1	1	/	/	/	1	/	2	1	1	2	2	4	4	3	4	4	/	4	3	1	/	1	1	1	1
64 3-3F5/15	3	1	/	3	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 3-2F5/15	3	1	1	2	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 3-1F5/15	3	1	2	1	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 3-0F5/18.5	3	1	3	/	1	2	/	/	/	1	/	3	1	1	3	3	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 4-3F5/18.5	4	1	1	3	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 4-2F5/18.5	4	1	2	2	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 4-1F5/22	4	1	3	1	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 4-0F5/22	4	1	4	/	1	2	1	1	1	1	1	4	1	1	3	4	4	4	3	4	4	/	4	3	1	/	1	1	1	/
64 5-3F5/30	5	1	2	3	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 5-2F5/30	5	1	3	2	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 5-1F5/30	5	1	4	1	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 5-0F5/30	5	1	5	/	1	3	1	1	1	1	1	5	1	1	4	5	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 6-3F5/30	6	1	3	3	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 6-2F5/30	6	1	4	2	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 6-1F5/37	6	1	5	1	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 6-0F5/37	6	1	6	/	1	4	1	1	1	1	1	6	1	1	5	6	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 7-3F5/37	7	1	4	3	1	5	1	1	1	1	1	7	1	1	6	7	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 7-2F5/37	7	1	5	2	1	5	1	1	1	1	1	7	1	1	6	7	4	4	3	4	4	1	4	3	2	/	1	1	/	/
64 7-1F5/37	7	1	6	1	1	5	1	1	1	1	1	7	1	1	6	7	4	4	3	4	4	1	4	3	2	/	1	1	/	/

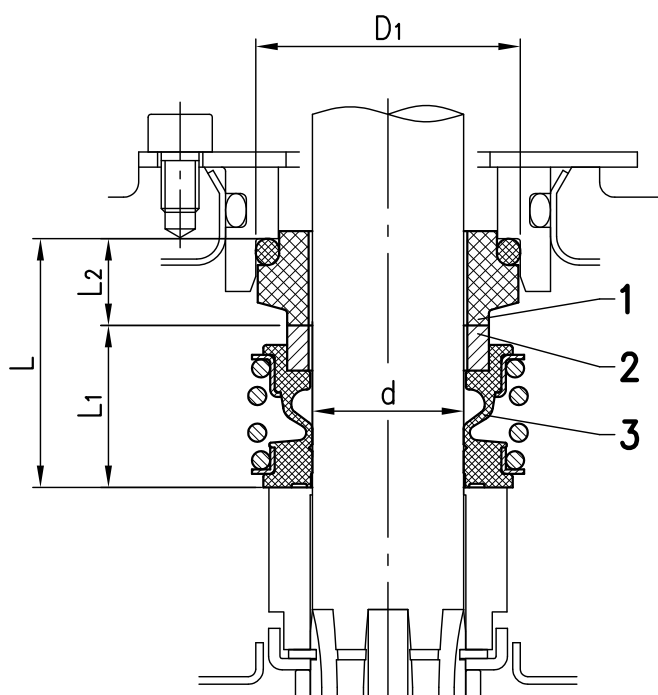
BEARINGS

Pump Type	Ball bearing Motor	
	Pump side	Fan side
3 2N5/0.37	6203-ZZ	6203-ZZ
3 3N5/0.37	6203-ZZ	6203-ZZ
3 4N5/0.55	6203-ZZ	6203-ZZ
3 5N5/0.55	6203-ZZ	6203-ZZ
3 6N5/0.75	6204-ZZ C3	6204-ZZ C3
3 7N5/0.75	6204-ZZ C3	6204-ZZ C3
3 9N5/1.1	6204-ZZ C3	6204-ZZ C3
3 11N5/1.1	6204-ZZ C3	6204-ZZ C3
3 13N5/1.5	6205-ZZ C3	6205-ZZ C3
3 15N5/1.5	6205-ZZ C3	6205-ZZ C3
3 18F5/2.2	6205-ZZ C3	6205-ZZ C3
3 22F5/2.2	6205-ZZ C3	6205-ZZ C3
3 26F5/3.0	6206-ZZ C3	6206-ZZ C3
5 2N5/0.37	6203-ZZ	6203-ZZ
5 3N5/0.55	6203-ZZ	6203-ZZ
5 4N5/0.75	6204-ZZ C3	6204-ZZ C3
5 5N5/1.1	6204-ZZ C3	6204-ZZ C3
5 6N5/1.1	6204-ZZ C3	6204-ZZ C3
5 7N5/1.5	6205-ZZ C3	6205-ZZ C3
5 8N5/1.5	6205-ZZ C3	6205-ZZ C3
5 10N5/2.2	6205-ZZ C3	6205-ZZ C3
5 11N5/2.2	6205-ZZ C3	6205-ZZ C3
5 12N5/2.2	6205-ZZ C3	6205-ZZ C3
5 14N5/3.0	6206-ZZ C3	6206-ZZ C3
5 16N5/3.0	6206-ZZ C3	6206-ZZ C3
5 18F5/4.0	6206-ZZ C3	6206-ZZ C3
5 19F5/4.0	6206-ZZ C3	6206-ZZ C3
5 22F5/4.0	6206-ZZ C3	6206-ZZ C3
5 24F5/5.5	6208-ZZ C3	6307-ZZ C3
10 2N5/0.75	6204-ZZ C3	6204-ZZ C3
10 3N5/1.1	6204-ZZ C3	6204-ZZ C3
10 4N5/1.5	6205-ZZ C3	6205-ZZ C3
10 5N5/2.2	6205-ZZ C3	6205-ZZ C3
10 6N5/2.2	6205-ZZ C3	6205-ZZ C3
10 8N5/3.0	6206-ZZ C3	6206-ZZ C3
10 10N5/4.0	6206-ZZ C3	6206-ZZ C3
10 11N5/4.0	6206-ZZ C3	6206-ZZ C3
10 12N5/5.5	6208-ZZ C3	6307-ZZ C3
10 14N5/5.5	6208-ZZ C3	6307-ZZ C3
10 15F5/5.5	6208-ZZ C3	6307-ZZ C3
10 16F5/7.5	6208-ZZ C3	6307-ZZ C3
10 18F5/7.5	6208-ZZ C3	6307-ZZ C3
10 20F5/7.5	6208-ZZ C3	6307-ZZ C3
10 22F5/11	6309-ZZ C3	6308-ZZ C3
18 2F5/2.2	6205-ZZ C3	6205-ZZ C3
18 3F5/3.0	6206-ZZ C3	6206-ZZ C3
18 4F5/4.0	6206-ZZ C3	6206-ZZ C3
18 5F5/5.5	6208-ZZ C3	6307-ZZ C3
18 6F5/5.5	6208-ZZ C3	6307-ZZ C3
18 7F5/7.5	6208-ZZ C3	6307-ZZ C3
18 8F5/7.5	6208-ZZ C3	6307-ZZ C3
18 10F5/11	6309-ZZ C3	6308-ZZ C3
18 12F5/11	6309-ZZ C3	6308-ZZ C3
18 14F5/15	6309-ZZ C3	6309-ZZ C3
18 15F5/15	6309-ZZ C3	6309-ZZ C3
18 16F5/15	6309-ZZ C3	6309-ZZ C3

Pump Type	Pump	Ball bearing Motor	
		Pump side	Fan side
32 1-0F5/2.2	/	6205-ZZ C3	6205-ZZ C3
32 2-2F5/3.0	/	6206-ZZ C3	6206-ZZ C3
32 2-0F5/4.0	/	6206-ZZ C3	6206-ZZ C3
32 3-3F5/5.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
32 3-1F5/5.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
32 4-3F5/7.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
32 4-1F5/7.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
32 5-3F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
32 5-0F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
32 6-3F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
32 6-2F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
32 7-3F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 7-0F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 8-3F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 8-2F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 9-3F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 9-0F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 10-3F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 10-2F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
32 11-3F5/22	6315 ZZ C3	6311 C3	6311 C3
32 11-0F5/22	6315 ZZ C3	6311 C3	6311 C3
32 12-3F5/22	6315 ZZ C3	6311 C3	6311 C3
32 13-3F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
32 13-0F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
32 14-3F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
32 14-0F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 1-1F5/3.0	/	6206-ZZ C3	6206-ZZ C3
45 1-0F5/4.0	/	6206-ZZ C3	6206-ZZ C3
45 2-2F5/5.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
45 2-0F5/7.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
45 3-2F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
45 3-0F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
45 4-2F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
45 4-0F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
45 5-2F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
45 5-0F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
45 6-2F5/22	6315 ZZ C3	6311 C3	6311 C3
45 6-0F5/22	6315 ZZ C3	6311 C3	6311 C3
45 7-2F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 7-0F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 8-2F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 8-0F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 9-2F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
45 9-0F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
45 10-2F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
45 10-0F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
64 1-1F5/4.0	/	6206-ZZ C3	6206-ZZ C3
64 1-0F5/5.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
64 2-2F5/7.5	6310 ZZ C3	6208-ZZ C3	6307-ZZ C3
64 2-1F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
64 2-0F5/11	6313 ZZ C3	6309-ZZ C3	6308-ZZ C3
64 3-3F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 3-2F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 3-1F5/15	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 3-0F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 4-3F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 4-2F5/18.5	6313 ZZ C3	6309-ZZ C3	6309-ZZ C3
64 4-1F5/22	6315 ZZ C3	6311 C3	6311 C3
64 4-0F5/22	6315 ZZ C3	6311 C3	6311 C3
64 5-3F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 5-2F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 5-1F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 5-0F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 6-3F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 6-2F5/30	6315 ZZDT C3 *	6312 C3	6312 C3
64 6-1F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
64 6-0F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
64 7-3F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
64 7-2F5/37	6315 ZZDT C3 *	6312 C3	6312 C3
64 7-1F5/37	6315 ZZDT C3 *	6312 C3	6312 C3

* DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

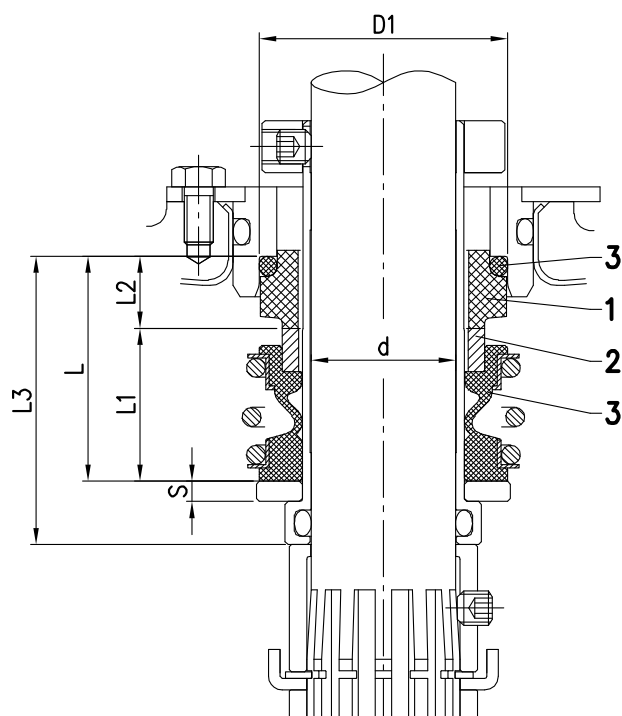
MECHANICAL SEAL EVM(.) 3-18



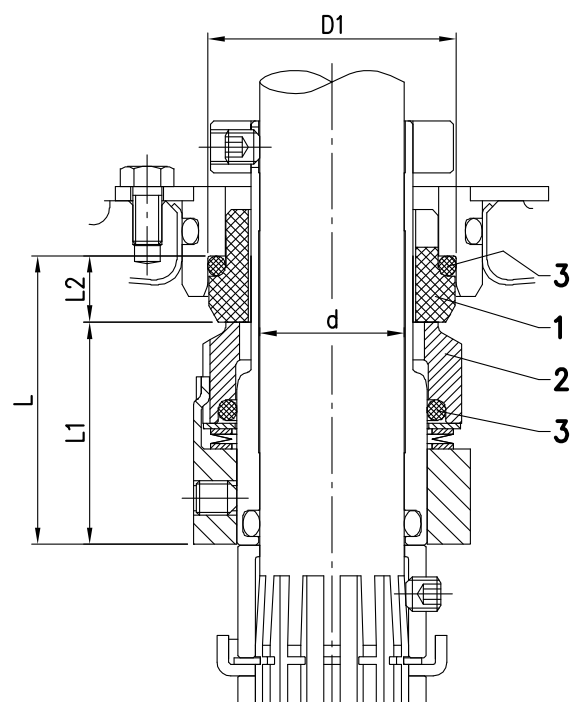
Pump Type	Size [mm]	Max.working pressure [MPa]	d [mm]	D ₁ [mm]	L [mm]	L ₁ [mm]	L ₂ [mm]	Material		
								1 stationary seal ring	2 rotary seal ring	3 rubber
3-5	12,7	1,6	12,7	23	23,5	16	7,5	Carbon graphite	Silicon carbide	FPM (1)
		2,5								
10	16	1,6	16	27	27	17	10			
		2,5								
18	20	1,6	20	35	33	21,5	11,5			
		2.5								

(1) EPDM Only for version EVM and EVMG

**MECHANICAL SEAL
EVM(.) 32-64**



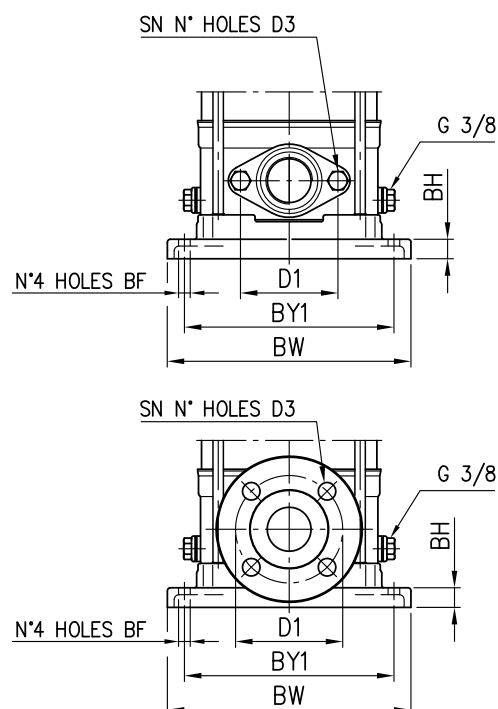
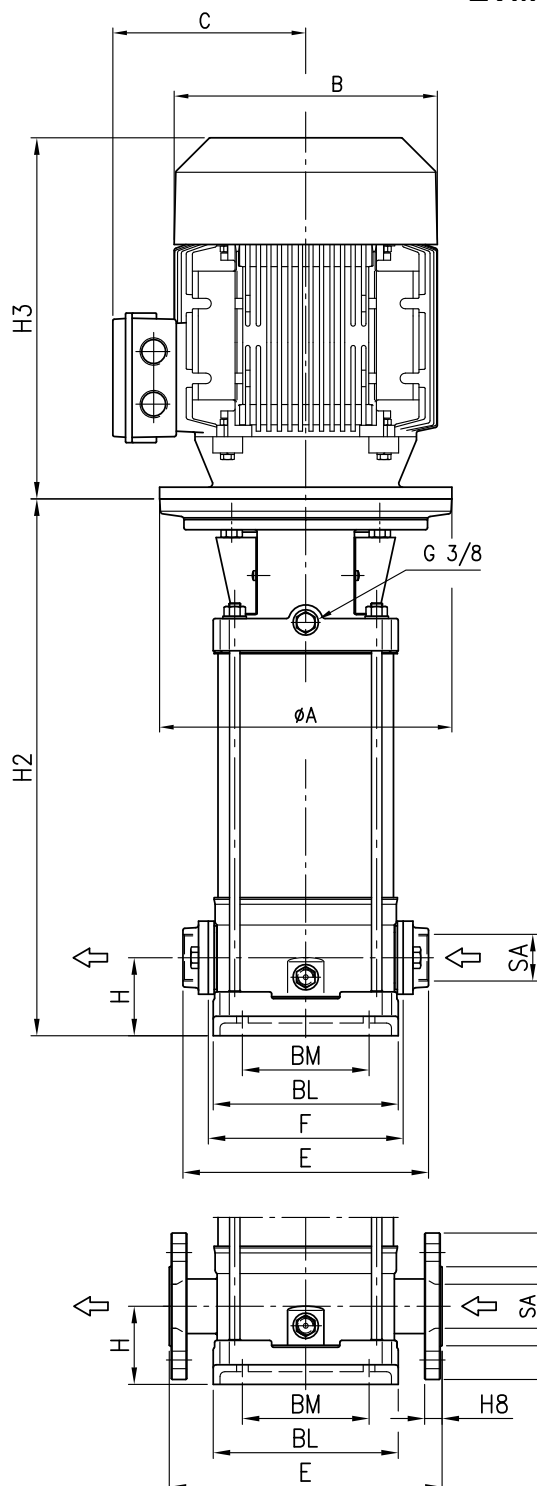
UP TO 2.5 MPa



FROM 2.5 To 3.0 MPa

Size [mm]	Max. working pressure [MPa]	d [mm]	D ₁ [mm]	L [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	S [mm]	Material		
									1 stationary seal ring	2 rotary seal ring	3 rubber
25	2.5	25	43	39	26.5	12.5	50	3.5	Carbon graphite	Silicon carbide	FPM
	3			50	38.5	11.5	-	-			

PUMP
EVM(.) 3-18



See dimensions pages 401, 402

DIMENSIONS TABLE EVM(.) 3-5

Pump type	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																							Weight [kg]			
			H	H2	H3		F	E	B		C		BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor 1~	3~
3 2N5/0.37	1.6	71	50	241	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	11.3	17	17.1
3 3N5/0.37	1.6	71	50	262	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	11.8	17.5	17.6
3 4N5/0.55	1.6	71	50	283	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12.3	19.3	18.5
3 5N5/0.55	1.6	71	50	304	215	215	160	206	142	142	129	114	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø105	12.8	19.8	19
3 6N5/0.75	1.6	80	50	335	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	13.7	25.1	22.1
3 7N5/0.75	1.6	80	50	356	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	13.9	25.3	22.3
3 9N5/1.1	1.6	80	50	398	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	14.8	26.6	25.9
3 11N5/1.1	1.6	80	50	440	232	232	160	206	160	160	150	139	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø120	16.2	28	27.3
◆ 3 13N5/1.5	1.6	90S	50	492	278	267	160	206	172	180	140	148	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	17.7	35.5	31.7
◆ 3 15N5/1.5	1.6	90S	50	534	278	267	160	206	172	180	140	148	100	149	180	210	G 1"	-	75	-	-	2	M10	Ø12	20	Ø140	19.2	37	33.2
◆ 3 18F5/2.2	2.5	90L	75	632	278	267	-	250	172	180	140	148	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	24.8	44.3	40.8
◆ 3 22F5/2.2	2.5	90L	75	716	278	267	-	250	172	180	140	148	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140	27.2	46.7	43.2
3 26F5/3.0	2.5	100L	75	810	-	306	-	250	-	196	-	155	100	149	180	210	Ø25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø160	30.8	-	53.6
5 2N5/0.37	1.6	71	50	255	215	215	160	206	142	142	129	114	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	11.5	17.2	17.3
5 3N5/0.55	1.6	71	50	283	215	215	160	206	142	142	129	114	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø105	12	19	18.2
5 4N5/0.75	1.6	80	50	321	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	12.9	24.3	21.3
5 5N5/1.1	1.6	80	50	349	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	13.5	25.3	24.6
5 6N5/1.1	1.6	80	50	377	232	232	160	206	160	160	150	139	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø120	14.1	25.9	25.2
◆ 5 7N5/1.5	1.6	90S	50	415	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	14.9	32.7	28.9
◆ 5 8N5/1.5	1.6	90S	50	443	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	15.5	33.3	29.5
◆ 5 10N5/2.2	1.6	90L	50	509	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	17.9	37.4	33.9
◆ 5 11N5/2.2	1.6	90L	50	537	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	19	38.5	35
◆ 5 12N5/2.2	1.6	90L	50	565	278	267	160	206	172	180	140	148	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø140	19.7	39.2	35.7
5 14N5/3.0	1.6	100L	50	631	-	306	160	206	-	196	-	155	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	22.0	-	44.8
5 16N5/3.0	1.6	100L	50	687	-	306	160	206	-	196	-	155	100	149	180	210	G 1"1/4	-	75	-	-	2	M10	Ø12	20	Ø160	23.3	-	46.1
5 18F5/4.0	2.5	112M	75	768	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	28.7	-	51.5
5 19F5/4.0	2.5	112M	75	796	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	29.4	-	52.2
5 22F5/4.0	2.5	112M	75	880	-	306	-	250	-	196	-	155	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160	31.2	-	54
5 24F5/5.5	2.5	132S	75	947	-	328	-	250	-	220	-	161	100	149	180	210	Ø32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø300	35.4	-	74

- 1) AEG motor dimensions except ◆ Single phase motors manufactured by Ebara
 2) 1.6 MPa=16 bar
 2.5 MPa=25 bar

EVM(.) 10-18

Pump type	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																										Weight [kgf]			
			H	H2	H3		F	E	B		C		BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor				
					1~	3~			1~	3~	1~	3~																1~	3~	1~	3~	1~
10 2N5/0.75	1.6	80	80	333	232	232	200	252	160	160	150	139	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø120	18	29.4	26.4	-		
10 3N5/1.1	1.6	80	80	363	232	232	200	252	160	160	150	139	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø120	19.5	31.3	30.6	-		
◆ 10 4N5/1.5	1.6	90S	80	403	278	267	200	252	172	180	140	148	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	21.9	39.7	35.9	-		
◆ 10 5N5/2.2	1.6	90L	80	443	278	267	200	252	172	180	140	148	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	22.5	42	38.5	-		
◆ 10 6N5/2.2	1.6	90L	80	473	278	267	200	252	172	180	140	148	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø140	24	43.5	40	-		
10 8N5/3.0	1.6	100L	80	543	-	306	200	252	-	196	-	155	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	30.6	-	53.4	-		
10 10N5/4.0	1.6	112M	80	603	-	306	200	252	-	196	-	155	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	31.5	-	54.3	-		
10 11N5/4.0	1.6	112M	80	633	-	306	200	252	-	196	-	155	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø160	34	-	56.8	-		
10 12N5/5.5	1.6	132S	80	674	-	328	200	252	-	220	-	161	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø300	39.3	-	77.9	-		
10 14N5/5.5	1.6	132S	80	734	-	328	200	252	-	220	-	161	130	190	215	250	G 1"1/2	-	100	-	-	2	M12	Ø12	20	Ø300	41.8	-	80.4	-		
10 15F5/5.5	2.5	132S	80	764	-	328	-	280	-	220	-	161	130	190	215	250	Ø40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300	45.8	-	84.4	-		
10 16F5/7.5	2.5	132S	80	794	-	328	-	280	-	220	-	161	130	190	215	250	Ø40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300	47.8	-	88.2	90.2		
10 18F5/7.5	2.5	132S	80	854	-	328	-	280	-	220	-	161	130	190	215	250	Ø40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300	49.8	-	90.2	92.2		
10 20F5/7.5	2.5	132S	80	914	-	328	-	280	-	220	-	161	130	190	215	250	Ø40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300	49.8	-	90.2	92.2		
10 22F5/11	2.5	160M	80	1004	-	403	-	280	-	248	-	195	130	190	215	250	Ø40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø350	55.5	-	118	128.8		
◆ 18 2F5/2.2	1.6	90L	90	373	278	267	-	300	172	180	140	148	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø140	27.4	46.9	43.4	-		
18 3F5/3.0	1.6	100L	90	423	-	306	-	300	-	196	-	155	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø160	28.9	-	51.7	-		
18 4F5/4.0	1.6	112M	90	473	-	306	-	300	-	196	-	155	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø160	31.4	-	54.2	-		
18 5F5/5.5	1.6	132S	90	524	-	328	-	300	-	220	-	161	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300	38.4	-	77	-		
18 6F5/5.5	1.6	132S	90	564	-	328	-	300	-	220	-	161	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300	41.4	-	80	-		
18 7F5/7.5	2.5	132S	90	604	-	328	-	300	-	220	-	161	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300	43.9	-	84.3	86.3		
18 8F5/7.5	2.5	132S	90	644	-	328	-	300	-	220	-	161	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300	43.8	-	84.2	86.2		
18 10F5/11	2.5	160M	90	754	-	403	-	300	-	248	-	195	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350	54.3	-	116.8	127.6		
18 12F5/11	2.5	160M	90	834	-	403	-	300	-	248	-	195	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350	57.3	-	119.8	130.6		
18 14F5/15	2.5	160M	90	914	-	498	-	300	-	317	-	238	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350	57.8	-	144.9	161.8		
18 15F5/15	2.5	160M	90	954	-	498	-	300	-	317	-	238	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350	58.3	-	145.4	162.3		
18 16F5/15	2.5	160M	90	994	-	498	-	300	-	317	-	238	130	190	215	250	Ø50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350	61.3	-	148.4	165.3		

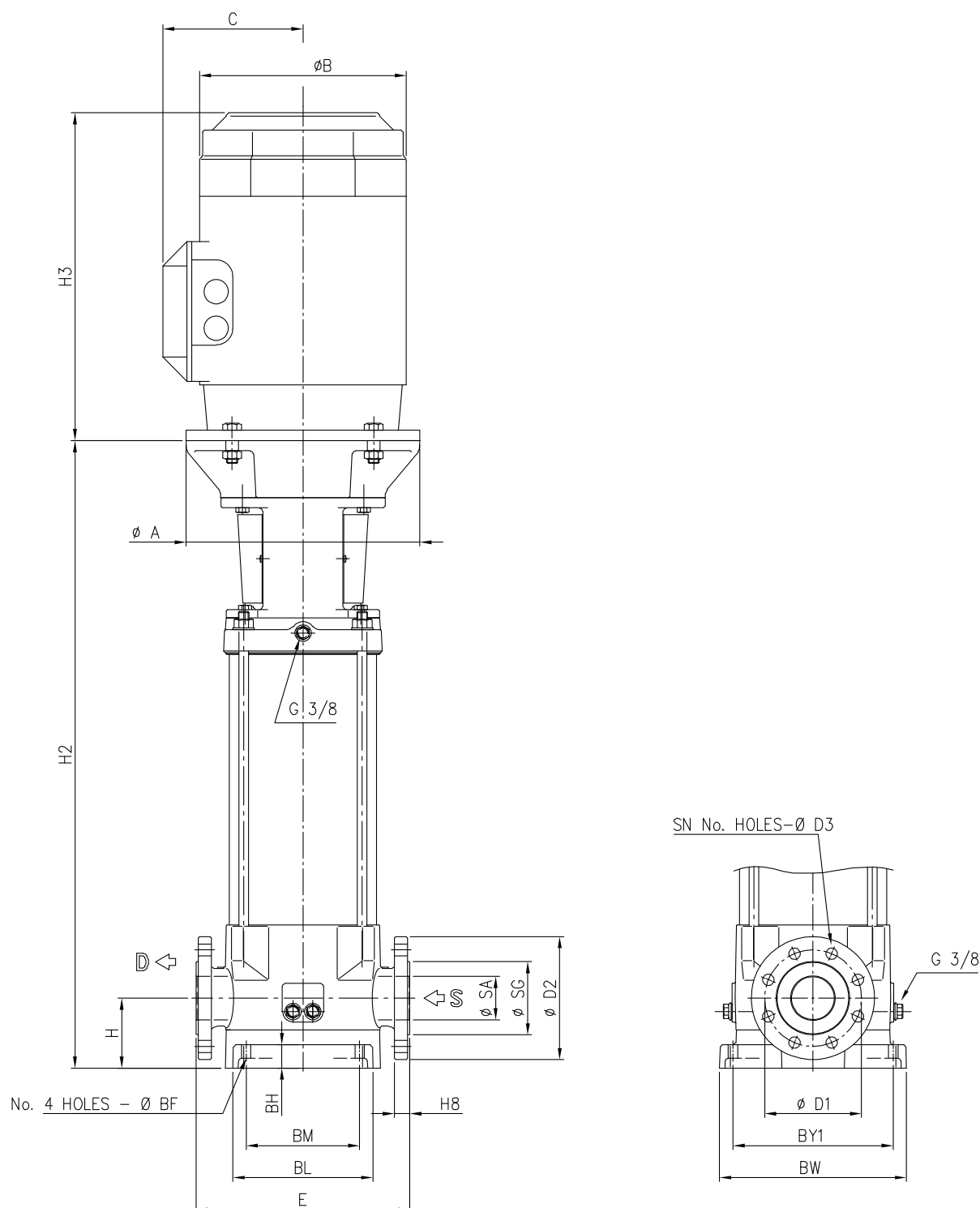
(*) Only for IE3 Motors

1) AEG motor dimensions except ◆ Single phase motors manufactured by Ebara

2) 1.6 MPa=16 bar

2.5 MPa=25 bar

EVM(.) 32-64



See dimensions pages 404,405,406

DIMENSIONS TABLE
EVM(.) 32

Pump type	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																			Weight [kgf]			
			H	H2	H3 1) 3~	E	B 1) 3~	C 1) 3~	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor	(*)
32 1-0F5/2.2	1,6	90L	105	493	267	320	180	148	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	140	56	72	-
32 2-2F5/3.0	1,6	100L	105	503	306	320	196	155	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160	58	80,8	-
32 2-0F5/4.0	1,6	112M	105	503	306	320	196	155	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160	58	80,8	-
32 3-3F5/5.5	1,6	132S	105	572	328	320	220	161	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	74	112,6	-
32 3-1F5/5.5	1,6	132S	105	572	328	320	220	161	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	74	112,6	-
32 4-3F5/7.5	1,6	132S	105	620	328	320	220	161	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	77	117,4	119,4
32 4-1F5/7.5	1,6	132S	105	620	328	320	220	161	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300	77	117,4	119,4
32 5-3F5/11	1,6	160M	105	799	403	320	248	195	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	96	158,5	169,3
32 5-0F5/11	1,6	160M	105	799	403	320	248	195	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	96	158,5	169,3
32 6-3F5/11	1,6	160M	105	847	403	320	248	195	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	99	161,5	172,3
32 6-2F5/11	1,6	160M	105	847	403	320	248	195	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	99	161,5	172,3
32 7-3F5/15	1,6	160M	105	895	498	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	102	189,1	206
32 7-0F5/15	1,6	160M	105	895	498	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350	102	189,1	206
32 8-3F5/15	2,5	160M	105	943	498	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	105	192,1	209
32 8-2F5/15	2,5	160M	105	943	498	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	105	192,1	209
32 9-3F5/18.5	2,5	160L	105	991	542	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	108	205,5	212
32 9-0F5/18.5	2,5	160L	105	991	542	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	108	205,5	212
32 10-3F5/18.5	2,5	160L	105	1039	542	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	112	209,5	216
32 10-2F5/18.5	2,5	160L	105	1039	542	320	317	238	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	112	209,5	216
32 11-3F5/22	2,5	180M	105	1087	577	320	360	268	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	116	279	286
32 11-0F5/22	2,5	180M	105	1087	577	320	360	268	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	116	279	286
32 12-3F5/22	2,5	180M	105	1135	577	320	360	268	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350	119	282	289
32 13-3F5/30	3,0	200L	105	1198	658	320	399	300	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	129	357	-
32 13-0F5/30	3,0	200L	105	1198	658	320	399	300	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	129	357	-
32 14-3F5/30	3,0	200L	105	1246	658	320	399	300	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	133	361	-
32 14-0F5/30	3,0	200L	105	1246	658	320	399	300	170	210	240	280	Ø65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400	133	361	-

(*) Only for IE3 Motors
 1) AEG motor dimensions
 2) 1,6 MPa=16 bar
 2,5 MPa=25 bar
 3,0 MPa=30 bar

DIMENSIONS TABLE EVM(.) 45

Pump type	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																				Weight [kgf]		
			H	H2	H3 1) 3~	E	B 1) 3~	C 1) 3~	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor	(*)
45 1-1F5/3.0	1.6	100L	140	525	306	365	196	155	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160	71	93.8	-
45 1-0F5/4.0	1.6	112M	140	525	306	365	196	155	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160	73	95.8	-
45 2-2F5/5.5	1.6	132S	140	618	328	365	220	161	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300	81	119.6	-
45 2-0F5/7.5	1.6	132S	140	618	328	365	220	161	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300	81	121.4	123.4
45 3-2F5/11	1.6	160M	140	821	403	365	248	195	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	99	161.5	172.3
45 3-0F5/11	1.6	160M	140	821	403	365	248	195	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	99	161.5	172.3
45 4-2F5/15	2.5	160M	140	893	498	365	317	238	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	108	195.1	212
45 4-0F5/15	2.5	160M	140	893	498	365	317	238	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	108	195.1	212
45 5-2F5/18.5	2.5	160L	140	965	542	365	317	238	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	128	225.5	232
45 5-0F5/18.5	2.5	160L	140	965	542	365	317	238	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	128	225.5	232
45 6-2F5/22	2.5	180M	140	1037	577	365	360	268	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	133	296	303
45 6-0F5/22	2.5	180M	140	1037	577	365	360	268	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350	133	296	303
45 7-2F5/30	2.5	200L	140	1124	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	139	367	-
45 7-0F5/30	2.5	200L	140	1124	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	139	367	-
45 8-2F5/30	2.5	200L	140	1196	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	146	374	-
45 8-0F5/30	2.5	200L	140	1196	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	146	374	-
45 9-2F5/30	2.5	200L	140	1269	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	151	379	-
45 9-0F5/37	2.5	200L	140	1269	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	151	393	-
45 10-2F5/37	3.0	200L	140	1341	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	156	398	-
45 10-0F5/37	3.0	200L	140	1341	658	365	399	300	190	251	266	331	Ø80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400	156	398	-

(*) Only for IE3 Motors

1) AEG motor dimensions

2) 1,6 MPa=16 bar

2,5 MPa=25 bar

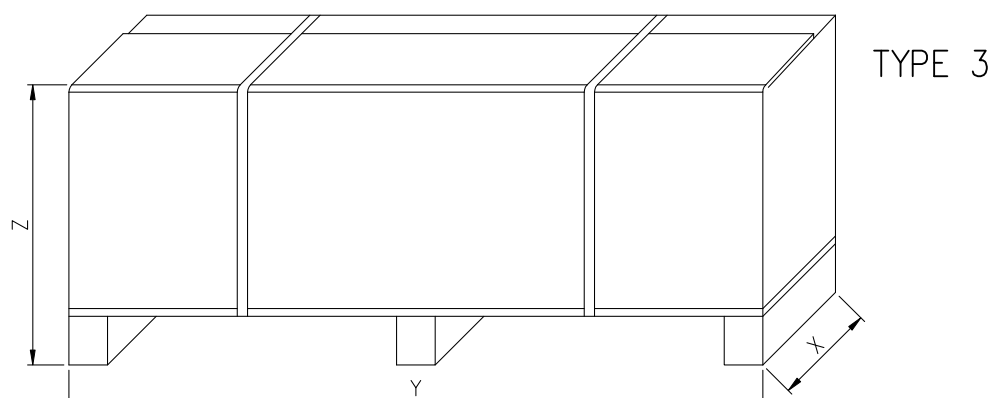
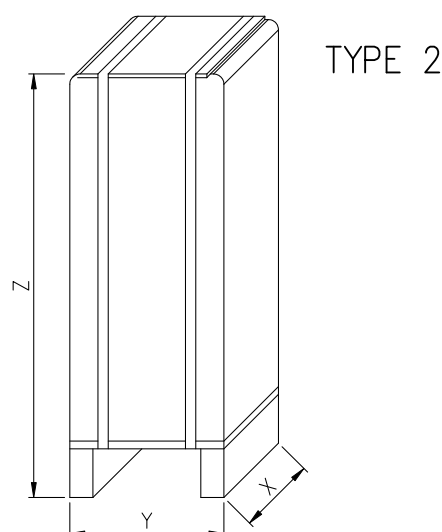
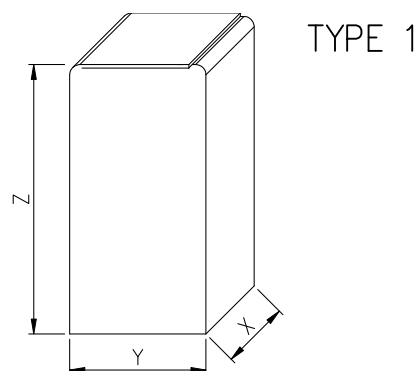
3,0 MPa=30 bar

DIMENSIONS TABLE
EVM(.) 64

Pump type	Pmax. [MPa] 2)	Motor Size	Dimensions [mm]																				Weight [kgf]		
			H	H2	H3 1) 3~	E	B 1) 3~	C 1) 3~	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A	Pump	Pump + motor	(*)
64 1-1F5/4.0	1.6	112M	140	525	306	365	196	155	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	160	70.4	93.2	-
64 1-0F5/5.5	1.6	132S	140	546	328	365	220	161	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300	77	115.6	-
64 2-2F5/7.5	1.6	132S	140	618	328	365	220	161	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300	81.4	121.8	123.8
64 2-1F5/11	1.6	160M	140	749	403	365	248	195	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	93.5	156	166.8
64 2-0F5/11	1.6	160M	140	749	403	365	248	195	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	93.5	156	166.8
64 3-3F5/15	1.6	160M	140	821	498	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	186.1	203
64 3-2F5/15	1.6	160M	140	821	498	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	186.1	203
64 3-1F5/15	1.6	160M	140	821	498	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	186.1	203
64 3-0F5/18.5	1.6	160L	140	821	542	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	99	196.5	203
64 4-3F5/18.5	1.6	160L	140	893	542	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	108	205.5	212
64 4-2F5/18.5	1.6	160L	140	893	542	365	317	238	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	108	205.5	212
64 4-1F5/22	1.6	180M	140	893	577	365	360	268	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	116	279	286
64 4-0F5/22	1.6	180M	140	893	577	365	360	268	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350	116	279	286
64 5-3F5/30	1.6	200L	140	980	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	356	-
64 5-2F5/30	1.6	200L	140	980	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	356	-
64 5-1F5/30	1.6	200L	140	980	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	356	-
64 5-0F5/30	1.6	200L	140	980	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	128	356	-
64 6-3F5/30	1.6	200L	140	1052	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400	136	364	-
64 6-2F5/30	2.5	200L	140	1052	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	364	-
64 6-1F5/37	2.5	200L	140	1052	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	378	-
64 6-0F5/37	2.5	200L	140	1052	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	136	378	-
64 7-3F5/37	2.5	200L	140	1124	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	381	-
64 7-2F5/37	2.5	200L	140	1124	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	381	-
64 7-1F5/37	2.5	200L	140	1124	658	365	399	300	190	251	266	331	Ø100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400	139	381	-

- (*) Only for IE3 Motors
 1) AEG motor dimensions
 2) 1,6 MPa=16 bar
 2,5 MPa=25 bar

PACKING



PACKING TABLE EVM(.) 3-5

Pump type	Pumps					Pumps with motor ~1					Pumps with motor ~3				
	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf]	Pack Type
	X	Y	Z			X	Y	Z			X	Y	Z		
3 2N5/0.37	265	265	410	12.3	1	265	265	525	18.2	1	265	265	525	18.2	1
3 3N5/0.37	265	265	410	12.8	1	265	265	525	18.7	1	265	265	525	18.7	1
3 4N5 0.55	265	265	410	13.3	1	265	265	525	20.5	1	265	265	525	19.8	1
3 5N5/0.55	265	265	410	13.8	1	300	300	825	23.8	2	300	300	825	23.1	2
3 6N5/0.75	265	265	410	14.7	1	300	300	825	29.1	2	300	300	825	26.1	2
3 7N5/0.75	265	265	410	14.9	1	300	300	825	29.3	2	300	300	825	26.3	2
3 9N5/1.1	265	265	525	16	1	300	300	825	30.6	2	300	300	825	29.9	2
3 11N5/1.1	265	265	525	17.4	1	300	300	825	32	2	300	300	825	31.3	2
3 13N5/1.5	265	265	525	18.9	1	300	300	935	39.7	2	300	300	935	35.9	2
3 15N5/1.5	300	300	825	23.2	2	400	400	1047	44	2	300	300	935	37.4	2
3 18F5/2.2	300	300	825	28.8	2	480	480	1147	54	2	400	400	1047	47.5	2
3 22F5/2.2	300	300	935	31.4	2	480	480	1297	57	2	400	400	1047	53	2
3 26F5/3.0	400	400	1047	37.6	2	-	-	-	-	-	480	480	1297	63.5	2
5 2N5/0.37	265	265	410	12.5	1	265	265	525	18.4	1	265	265	525	18.4	1
5 3N5/0.55	265	265	410	13	1	265	265	525	20.2	1	265	265	525	19.5	1
5 4N5/0.75	265	265	410	13.9	1	300	300	825	28.3	2	300	300	825	25.3	2
5 5N5/1.1	265	265	410	14.5	1	300	300	825	29.3	2	300	300	825	28.6	2
5 6N5/1.1	265	265	410	15.1	1	300	300	825	29.9	2	300	300	825	29.2	2
5 7N5/1.5	265	265	525	16.1	1	300	300	825	36.7	2	300	300	825	32.9	2
5 8N5/1.5	265	265	525	16.7	1	300	300	935	37.5	2	300	300	935	33.7	2
5 10N5/2.2	300	300	825	21.9	2	300	300	935	41.5	2	300	300	935	38.1	2
5 11N5/2.2	300	300	825	23	2	400	400	1047	45.5	2	300	300	935	39.2	2
5 12N5/2.2	300	300	825	23.7	2	400	400	1047	46	2	400	400	1047	42.5	2
5 14N5/3.0	300	300	825	26	2	-	-	-	-	-	400	400	1047	54.4	2
5 16N5/3.0	300	300	825	27.3	2	-	-	-	-	-	400	400	1047	56	2
5 18F5/4.0	300	300	935	32.9	2	-	-	-	-	-	480	480	1297	69.1	2
5 19F5/4.0	300	300	935	33.6	2	-	-	-	-	-	480	480	1297	70.1	2
5 22F5/4.0	400	400	1047	38	2	-	-	-	-	-	410	1350	542	75.6	3
5 24F5/5.5	400	400	1230	45	2	-	-	-	-	-	520	1540	547	97.1	3

EVM(.) 10-18

Pump type	Pumps					Pumps with motor ~1					Pumps with motor ~3				
	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf]	Pack Type	Packing [mm]			Weight [kgf] (*)	Pack Type
	X	Y	Z			X	Y	Z			X	Y	Z		
10 2N5/0.75	265	265	410	22	1	300	300	825	33.4	2	300	300	825	30.4	- 2
10 3N5/1.1	265	265	410	23.5	1	300	300	825	35.3	2	300	300	825	34.6	- 2
10 4N5/1.5	265	265	525	25.9	1	300	300	825	43.5	2	300	300	825	39.9	- 2
10 5N5/2.2	265	265	525	26.5	1	300	300	935	46	2	300	300	935	42.5	- 2
10 6N5/2.2	265	265	525	28	1	300	300	935	47.5	2	300	300	935	44	- 2
10 8N5/3.0	300	300	825	34.6	2	-	-	-	-	-	400	400	1047	60	- 2
10 10N5/4.0	300	300	825	35.5	2	-	-	-	-	-	400	400	1047	71.6	- 2
10 11N5/4.0	300	300	825	38	2	-	-	-	-	-	400	400	1047	74.1	- 2
10 12N5/5.5	400	400	1047	46	2	-	-	-	-	-	480	480	1297	96.1	- 2
10 14N5/5.5	400	400	1047	48.5	2	-	-	-	-	-	480	480	1297	98.6	- 2
10 15F5/5.5	400	400	1047	52.5	2	-	-	-	-	-	410	1350	542	106.1	- 3
10 16F5/7.5	400	400	1047	54.5	2	-	-	-	-	-	410	1350	542	109.4	111.4 3
10 18F5/7.5	400	400	1047	56.5	2	-	-	-	-	-	410	1350	542	111.4	113.4 3
10 20F5/7.5	400	400	1230	59.5	2	-	-	-	-	-	410	1350	542	111.4	113.4 3
10 22F5/11	400	400	1230	65.5	2	-	-	-	-	-	610	1750	597	162.5	173.3 3
18 2F5/2.2	400	400	780	32.5	2	300	300	825	51.0	2	400	700	780	48.5	- 2
18 3F5/3.0	400	400	780	34	2	-	-	-	-	-	400	400	1047	58.5	- 2
18 4F5/4.0	400	400	780	36.5	2	-	-	-	-	-	400	400	1047	68.6	- 2
18 5F5/5.5	400	400	780	43.5	2	-	-	-	-	-	400	400	1047	91.6	- 2
18 6F5/5.5	400	400	780	46.5	2	-	-	-	-	-	400	400	1047	97.6	- 2
18 7F5/7.5	400	400	780	49	2	-	-	-	-	-	400	400	1047	100.9	102.9 2
18 8F5/7.5	400	400	1047	50.5	2	-	-	-	-	-	480	480	1297	101.4	103.4 2
18 10F5/11	400	400	1047	61	2	-	-	-	-	-	500	1350	552	155.5	166.3 3
18 12F5/11	400	400	1047	64	2	-	-	-	-	-	520	1540	547	159.5	170.3 3
18 14F5/15	400	400	1230	67.5	2	-	-	-	-	-	520	1540	547	159.1	176 3
18 15F5/15	400	400	1230	68	2	-	-	-	-	-	520	1540	547	160.1	177 3
18 16F5/15	400	400	1230	71	2	-	-	-	-	-	610	1750	597	168.1	185 3

(*) Only for IE3 Motors

EVM(.) 32

Pump type	Pumps						Pumps with motor ~3							
	Packing [mm]			Weight [kgf]		Pack Type	Packing [mm]			Weight [kgf]		Weight [kgf] (*)		Pack Type
	X	Y	Z	EVM(G)	EVM(L)		X	Y	Z	EVM(G)	EVM(L)	EVM(G)	EVM(L)	
32 1-0F5/2.2	400	400	780	56	61	2	400	400	1047	74	79	-	-	2
32 2-2F5/3.0	400	400	780	58	63	2	400	400	1047	82,5	87,5	-	-	2
32 2-0F5/4.0	400	400	780	58	63	2	400	400	1047	90,1	95,1	-	-	2
32 3-3F5/5.5	400	400	780	72	79	2	400	400	1047	123,6	130,6	-	-	2
32 3-1F5/5.5	400	400	780	72	79	2	400	400	1047	123,6	130,6	-	-	2
32 4-3F5/7.5	400	400	780	75	82	2	400	400	1047	127,4	134,4	129,4	136,4	2
32 4-1F5/7.5	400	400	780	75	82	2	400	400	1047	127,4	134,4	129,4	136,4	2
32 5-3F5/11	400	400	1047	94	103	2	500	1540	540	187,5	196,5	198,3	207,3	3
32 5-0F5/11	400	400	1047	94	103	2	500	1540	540	187,5	196,5	198,3	207,3	3
32 6-3F5/11	400	400	1047	97	106	2	500	1540	540	190,5	199,5	201,3	210,3	3
32 6-2F5/11	400	400	1047	97	106	2	500	1540	540	190,5	199,5	201,3	210,3	3
32 7-3F5/15	400	400	1047	100	109	2	500	1540	540	193,1	202,1	210	219	3
32 7-0F5/15	400	400	1047	100	109	2	500	1540	540	193,1	202,1	210	219	3
32 8-3F5/15	400	400	1240	105	115	2	500	1540	540	195,1	205,1	212	222	3
32 8-2F5/15	400	400	1240	105	115	2	500	1540	540	195,1	205,1	212	222	3
32 9-3F5/18.5	400	400	1240	108	118	2	610	1750	593	209,5	219,5	216	226	3
32 9-0F5/18.5	400	400	1240	108	118	2	610	1750	593	209,5	219,5	216	226	3
32 10-3F5/18.5	400	400	1240	111	122	2	610	1750	593	212,5	223,5	219	230	3
32 10-2F5/18.5	400	400	1240	111	122	2	610	1750	593	212,5	223,5	219	230	3
32 11-3F5/22	400	400	1240	115	126	2	610	1750	593	264	275	271	282	3
32 11-0F5/22	400	400	1240	115	126	2	610	1750	593	264	275	271	282	3
32 12-3F5/22	400	1350	540	122	133	3	635	2130	587	328	339	335	346	3
32 13-3F5/30	500	1350	545	131	143	3	635	2130	587	387	399	-	-	3
32 13-0F5/30	500	1350	545	131	143	3	635	2130	587	387	399	-	-	3
32 14-3F5/30	500	1350	545	134	147	3	635	2130	587	390	403	-	-	3
32 14-0F5/30	500	1350	545	134	147	3	635	2130	587	390	403	-	-	3

(*) Only for IE3 Motors

EVM(.) 45

Pump type	Pumps						Pumps with motor ~3							
	Packing [mm]			Weight [kgf]		Pack Type	Packing [mm]			Weight [kgf]		Weight [kgf] (*)		Pack Type
	X	Y	Z	EVM(G)	EVM(L)		X	Y	Z	EVM(G)	EVM(L)	EVM(G)	EVM(L)	
45 1-1F5/3.0	400	400	780	69	76	2	400	400	1047	93.5	100.5	-	-	2
45 1-0F5/4.0	400	400	780	71	78	2	400	400	1047	106.6	110.1	-	-	2
45 2-2F5/5.5	400	400	780	79	86	2	400	400	1047	131.4	137.6	-	-	2
45 2-0F5/7.5	400	400	780	79	86	2	400	400	1047	131.4	138.4	133.4	140.4	2
45 3-2F5/11	400	400	1047	97	106	2	500	1540	540	190.5	199.5	201.3	210.3	3
45 3-0F5/11	400	400	1047	97	106	2	500	1540	540	190.5	199.5	201.3	210.3	3
45 4-2F5/15	400	400	1047	105	115	2	500	1540	540	186.1	196.1	203	213	3
45 4-0F5/15	400	400	1047	105	115	2	500	1540	540	186.1	196.1	203	213	3
45 5-2F5/18.5	400	400	1240	126	138	2	610	1750	593	227.5	239.5	234	246	3
45 5-0F5/18.5	400	400	1240	126	138	2	610	1750	593	227.5	239.5	234	246	3
45 6-2F5/22	400	400	1240	130	143	2	610	1750	593	279	292	286	299	3
45 6-0F5/22	400	400	1240	130	143	2	610	1750	593	279	292	286	299	3
45 7-2F5/30	480	480	1297	136	149	2	635	2130	587	396	409	-	-	3
45 7-0F5/30	480	480	1297	136	149	2	635	2130	587	396	409	-	-	3
45 8-2F5/30	500	1350	545	147	160	3	635	2130	587	403	416	-	-	3
45 8-0F5/30	500	1350	545	147	160	3	635	2130	587	403	416	-	-	3
45 9-2F5/30	500	1350	545	151	165	3	635	2130	587	407	421	-	-	3
45 9-0F5/37	610	1750	593	158	172	3	635	2130	587	421	435	-	-	3
45 10-2F5/37	610	1750	593	162	177	3	635	2130	587	425	440	-	-	3
45 10-0F5/37	610	1750	593	162	177	3	635	2130	587	425	440	-	-	3

(*) Only for IE3 Motors

EVM(.) 64

Pump type	Pumps						Pumps with motor ~3							
	Packing [mm]			Weight [kgf]		Pack Type	Packing [mm]			Weight [kgf]		Weight [kgf] (*)		Pack Type
	X	Y	Z	EVM(G)	EVM(L)		X	Y	Z	EVM(G)	EVM(L)	EVM(G)	EVM(L)	
64 1-1F5/4.0	400	400	780	69	76	2	400	400	1047	101.1	108.1	-	-	2
64 1-0F5/5.5	400	400	780	75	82	2	400	400	1047	126.6	133.6	-	-	2
64 2-2F5/7.5	400	400	780	79	87	2	400	400	1047	131.4	138.4	133.4	140.4	2
64 2-1F5/11	400	400	1047	92	100	2	500	1350	545	185.5	194.5	196.3	205.3	3
64 2-0F5/11	400	400	1047	92	100	2	500	1350	545	185.5	194.5	196.3	205.3	3
64 3-3F5/15	400	400	1047	97	106	2	500	1540	540	191.1	200.1	208	217	3
64 3-2F5/15	400	400	1047	97	106	2	500	1540	540	191.1	200.1	208	217	3
64 3-1F5/15	400	400	1047	97	106	2	500	1540	540	191.1	200.1	208	217	3
64 3-0F5/18.5	400	400	1047	97	106	2	500	1540	540	195.5	204.5	202	211	3
64 4-3F5/18.5	400	400	1047	105	115	2	500	1540	540	203.5	213.5	210	220	3
64 4-2F5/18.5	400	400	1047	105	115	2	500	1540	540	203.5	213.5	210	220	3
64 4-1F5/22	400	400	1047	112	123	2	610	1750	593	264	275	271	282	3
64 4-0F5/22	400	400	1047	112	123	2	610	1750	593	264	275	271	282	3
64 5-3F5/30	480	480	1147	126	138	2	610	1750	593	325	337	-	-	3
64 5-2F5/30	480	480	1147	126	138	2	610	1750	593	325	337	-	-	3
64 5-1F5/30	480	480	1147	126	138	2	610	1750	593	325	337	-	-	3
64 5-0F5/30	480	480	1147	126	138	2	610	1750	593	325	337	-	-	3
64 6-3F5/30	480	480	1297	134	146	2	635	2130	587	394	406	-	-	3
64 6-2F5/30	480	480	1297	134	146	2	635	2130	587	394	406	-	-	3
64 6-1F5/37	480	480	1297	134	146	2	635	2130	587	408	420	-	-	3
64 6-0F5/37	480	480	1297	134	146	2	635	2130	587	408	420	-	-	3
64 7-3F5/37	480	480	1297	136	149	2	635	2130	587	410	423	-	-	3
64 7-2F5/37	480	480	1297	136	149	2	635	2130	587	410	423	-	-	3
64 7-1F5/37	480	480	1297	136	149	2	635	2130	587	410	423	-	-	3

(*) Only for IE3 Motors

MOTOR DATA EVM(.) 3-18

Pump type	Efficiency		Motor		Capacitor		Full load efficiency and power-factor							Full load current [A]				Locked rotor current [A]					
	Single Phase	Three Phase	Motor Size	Power		Single phase [μF]	[V]	Single phase		Three phase			Single Phase	Three phase			Single Phase	Three phase					
				[kW]	[HP]			η % 100%	cos-φ 100%	50%	75%	100%		cos-φ 100%	230 V	230 V		400V	690V	230 V	230 V	400V	690V
3 2N5/0.37	-	-	71	0.37	0.5	16	400	57.6	0.89	58.0	64.0	70.0	0.78	3.1	1.7	1.0	-	9.6	8.1	4.7	-		
3 3N5/0.37	-	-	71	0.37	0.5	16	400	57.6	0.89	58.0	64.0	70.0	0.78	3.1	1.7	1.0	-	9.6	8.1	4.7	-		
3 4N5 0.55	-	-	71	0.55	0.75	16	400	69.0	0.89	57.0	64.0	71.0	0.77	3.9	2.6	1.5	-	13.6	12.5	7.2	-		
3 5N5/0.55	-	-	71	0.55	0.75	16	400	69.0	0.89	57.0	64.0	71.0	0.77	3.9	2.6	1.5	-	13.6	12.5	7.2	-		
3 6N5/0.75	-	IE2	80	0.75	1	25	400	65.0	0.95	77.3	78.5	80.5	0.78	5.3	2.9	1.7	-	28.1	19.4	11.9	-		
3 7N5/0.75	-	IE2	80	0.75	1	25	400	65.0	0.95	77.3	78.5	80.5	0.78	5.3	2.9	1.7	-	28.1	19.4	11.9	-		
3 9N5/1.1	-	IE2	80	1.1	1.5	36	400	74.0	0.97	79.5	81.2	81.5	0.78	6.5	4.3	2.5	-	26.0	29.4	17.0	-		
3 11N5/1.1	-	IE2	80	1.1	1.5	36	400	74.0	0.97	79.5	81.2	81.5	0.78	6.5	4.3	2.5	-	26.0	29.4	17.0	-		
♦ 3 13N5/1.5	-	IE2	90S	1.5	2	35	400	79.0	0.97	81.0	82.8	82.8	0.80	8.8	5.5	3.2	-	46.0	44.9	25.9	-		
♦ 3 15N5/1.5	-	IE2	90S	1.5	2	35	400	79.0	0.97	81.0	82.8	82.8	0.80	8.8	5.5	3.2	-	46.0	44.9	25.9	-		
♦ 3 18F5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
♦ 3 22F5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
3 26F5/3.0	-	IE2	100L	3	4	-	-	-	-	84.1	85.8	85.5	0.84	-	10.2	5.9	-	-	81.8	47.2	-		
5 2N5/0.37	-	-	71	0.37	0.5	16	400	57.6	0.89	58.0	64.0	70.0	0.78	3.1	1.7	1.0	-	9.6	8.1	4.7	-		
5 3N5/0.55	-	-	71	0.55	0.75	16	400	69.0	0.89	57.0	64.0	71.0	0.77	3.9	2.6	1.5	-	13.6	12.5	7.2	-		
5 4N5/0.75	-	IE2	80	0.75	1	25	400	65.0	0.95	77.3	78.5	80.5	0.78	5.3	2.9	1.7	-	28.1	19.4	11.9	-		
5 5N5/1.1	-	IE2	80	1.1	1.5	36	400	74.0	0.97	79.5	81.2	81.5	0.78	6.5	4.3	2.5	-	26.0	29.4	17.0	-		
5 6N5/1.1	-	IE2	80	1.1	1.5	36	400	74.0	0.97	79.5	81.2	81.5	0.78	6.5	4.3	2.5	-	26.0	29.4	17.0	-		
♦ 5 7N5/1.5	-	IE2	90S	1.5	2	35	400	79.0	0.97	81.0	82.8	82.8	0.80	8.8	5.5	3.2	-	46.0	44.9	25.9	-		
♦ 5 8N5/1.5	-	IE2	90S	1.5	2	35	400	79.0	0.97	81.0	82.8	82.8	0.80	8.8	5.5	3.2	-	46.0	44.9	25.9	-		
♦ 5 10N5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
♦ 5 11N5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
♦ 5 12N5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
5 14N5/3.0	-	IE2	100L	3	4	-	-	-	-	84.1	85.8	85.5	0.84	-	10.2	5.9	-	-	81.8	47.2	-		
5 16N5/3.0	-	IE2	100L	3	4	-	-	-	-	84.1	85.8	85.5	0.84	-	10.2	5.9	-	-	81.8	47.2	-		
5 18F5/4.0	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
5 19F5/4.0	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
5 22F5/4.0	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
5 24F5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
10 2N5/0.75	-	IE2	80	0.75	1	25	400	65.0	0.95	77.3	78.5	80.5	0.78	5.3	2.9	1.7	-	28.1	19.4	11.9	-		
10 3N5/1.1	-	IE2	80	1.1	1.5	36	400	74.0	0.97	79.5	81.2	81.5	0.78	6.5	4.3	2.5	-	26.0	29.4	17.0	-		
♦ 10 4N5/1.5	-	IE2	90S	1.5	2	35	400	79.0	0.97	81.0	82.8	82.8	0.80	8.8	5.5	3.2	-	46.0	44.9	25.9	-		
♦ 10 5N5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
♦ 10 6N5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
10 8N5/3.0	-	IE2	100L	3	4	-	-	-	-	84.1	85.8	85.5	0.84	-	10.2	5.9	-	-	81.8	47.2	-		
10 10N5/4.0	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
10 11N5/4.0	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
10 12N5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
10 14N5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
10 15F5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
10 16F5/7.5	-	IE2	132S	7.5	10	-	-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4		
	-	IE3				-	-	-	89.4	91.0	91.1	0.88	-	-	13.5	7.8	-	-	103.9	60.0			
	-	IE2				-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4			
10 18F5/7.5	-	IE2	132S	7.5	10	-	-	-	-	89.4	91.0	91.1	0.88	-	-	13.5	7.8	-	-	103.9	60.0		
	-	IE3				-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4			
	-	IE2				-	-	-	88.1	90.0	89.7	0.90	-	-	19.8	11.4	-	-	148.5	85.7			
10 20F5/7.5	-	IE2	132S	7.5	10	-	-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4		
	-	IE3				-	-	-	89.4	91.0	91.1	0.88	-	-	13.5	7.8	-	-	103.9	60.0			
	-	IE2				-	-	-	88.1	90.0	89.7	0.90	-	-	19.8	11.4	-	-	148.5	85.7			
10 22F5/11	-	IE2	160M	11	15	-	-	-	-	88.7	90.5	91.2	0.89	-	-	19.5	11.2	-	-	216.4	125.0		
	-	IE3				-	-	-	88.7	90.5	91.2	0.89	-	-	19.5	11.2	-	-	216.4	125.0			
	-	IE2				-	-	-	88.1	90.0	89.7	0.90	-	-	19.8	11.4	-	-	148.5	85.7			
♦ 18 2F5/2.2	-	IE2	90L	2.2	3	40	400	78.0	0.97	82.5	84.0	84.0	0.85	12.9	7.6	4.4	-	61.0	64.8	37.4	-		
	-	IE2	100L	3	4	-	-	-	-	84.1	85.8	85.5	0.84	-	10.2	5.9	-	-	81.8	47.2	-		
	-	IE2	112M	4	5.5	-	-	-	-	85.2	86.4	86.1	0.86	-	13.5	7.8	-	-	110.9	64.0	-		
18 5F5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
18 6F5/5.5	-	IE2	132S	5.5	7.5	-	-	-	-	85.8	87.4	87.3	0.88	-	-	10.4	6.0	-	-	83.2	48.0		
18 7F5/7.5	-	IE2	132S	7.5	10	-	-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4		
	-	IE3				-	-	-	89.4	91.0	91.1	0.88	-	-	13.5	7.8	-	-	103.9	60.0			
	-	IE2				-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4			
18 8F5/7.5	-	IE2	132S	7.5	10	-	-	-	-	89.4	91.0	91.1	0.88	-	-	13.5	7.8	-	-	103.9	60.0		
	-	IE3				-	-	-	86.5	88.3	88.3	0.87	-	-	14.2	8.2	-	-	115.0	66.4			
	-	IE2				-	-	-	88.1	90.0	89.7	0.90	-	-	19.8	11.4	-	-	148.5	85.7			
18 10F5/11	-	IE2	160M	11	15	-	-	-	-	88.7	90.5	91.2	0.89	-	-	19.5	11.2	-	-	216.4	125.0		
	-	IE3				-	-	-	88.7	90.5	91.2	0.89	-	-	19.5	11.2	-	-	216.4	125.0			
	-	IE2				-	-	-	90.0	91.0	90.8	0.88	-	-	27.2	15.7	-	-	206.7	119.3			
18 12F5/11	-	IE2	160M	11	15	-	-	-	-	88.1	90.0	89.7	0.90	-	-	19.8	11.4	-	-	148.5	85.7		
	-	IE3				-	-	-	88.7	90.5	91.2	0.89	-	-	19.5	11.2	-	-	216.4	125.0			
	-	IE2				-	-	-	90.0	91.0	90.8	0.88	-	-	27.2	15.7	-	-	206.7	119.3			
18 14F5/15	-	IE2	160M	15	20	-	-	-	-	89.5	91.4												

EVM(.) 32

Pump type	Efficiency	Motor			Full load efficiency and power-factor				Full load current [A]			Locked rotor current [A]		
		Motor size	Power		η %			$\cos\phi$ 100%	230 V	400V	690V	230 V	400V	690V
			[kW]	[HP]	50%	75%	100%							
32 1-0F5/2.2	IE2	90L	2,2	3	82,5	84,0	84,0	0,85	7,6	4,4	-	64,8	37,4	-
32 2-2F5/3.0	IE2	100L	3	4	84,1	85,8	85,5	0,84	10,2	5,9	-	81,8	47,2	-
32 2-0F5/4.0	IE2	112M	4	5,5	85,2	86,4	86,1	0,86	13,5	7,8	-	110,9	64,0	-
32 3-3F5/5.5	IE2	132S	5,5	7,5	85,8	87,4	87,3	0,88	-	10,4	6,0	-	83,2	48,0
32 3-1F5/5.5	IE2	132S	5,5	7,5	85,8	87,4	87,3	0,88	-	10,4	6,0	-	83,2	48,0
32 4-3F5/7.5	IE2	132S	7,5	10	86,5	88,3	88,3	0,87	-	14,2	8,2	-	115,0	66,4
	IE3				89,4	91,0	91,1	0,88	-	13,5	7,8	-	103,9	60,0
32 4-1F5/7.5	IE2	132S	7,5	10	86,5	88,3	88,3	0,87	-	14,2	8,2	-	115,0	66,4
	IE3				89,4	91,0	91,1	0,88	-	13,5	7,8	-	103,9	60,0
32 5-3F5/11	IE2	160M	11	15	88,1	90,0	89,7	0,90	-	19,8	11,4	-	148,5	85,7
	IE3				88,7	90,5	91,2	0,89	-	19,5	11,2	-	216,4	125,0
32 5-0F5/11	IE2	160M	11	15	88,1	90,0	89,7	0,90	-	19,8	11,4	-	148,5	85,7
	IE3				88,7	90,5	91,2	0,89	-	19,5	11,2	-	216,4	125,0
32 6-3F5/11	IE2	160M	11	15	88,1	90,0	89,7	0,90	-	19,8	11,4	-	148,5	85,7
	IE3				88,7	90,5	91,2	0,89	-	19,5	11,2	-	216,4	125,0
32 6-2F5/11	IE2	160M	11	15	88,1	90,0	89,7	0,90	-	19,8	11,4	-	148,5	85,7
	IE3				88,7	90,5	91,2	0,89	-	19,5	11,2	-	216,4	125,0
32 7-3F5/15	IE2	160M	15	20	90,0	91,0	90,8	0,88	-	27,2	15,7	-	206,7	119,3
	IE3				89,5	91,4	92,0	0,88	-	26,7	15,4	-	333,7	192,7
32 7-0F5/15	IE2	160M	15	20	90,0	91,0	90,8	0,88	-	27,2	15,7	-	206,7	119,3
	IE3				89,5	91,4	92,0	0,88	-	26,7	15,4	-	333,7	192,7
32 8-3F5/15	IE2	160M	15	20	90,0	91,0	90,8	0,88	-	27,2	15,7	-	206,7	119,3
	IE3				89,5	91,4	92,0	0,88	-	26,7	15,4	-	333,7	192,7
32 8-2F5/15	IE2	160M	15	20	90,0	91,0	90,8	0,88	-	27,2	15,7	-	206,7	119,3
	IE3				89,5	91,4	92,0	0,88	-	26,7	15,4	-	333,7	192,7
32 9-3F5/18.5	IE2	160L	18,5	25	90,3	91,6	91,2	0,88	-	33,3	19,3	-	263,1	152,0
	IE3				89,7	91,7	92,4	0,82	-	35,3	20,4	-	451,8	260,8
32 9-0F5/18.5	IE2	160L	18,5	25	90,3	91,6	91,2	0,88	-	33,3	19,3	-	263,1	152,0
	IE3				89,7	91,7	92,4	0,82	-	35,3	20,4	-	451,8	260,8
32 10-3F5/18.5	IE2	160L	18,5	25	90,3	91,6	91,2	0,88	-	33,3	19,3	-	263,1	152,0
	IE3				89,7	91,7	92,4	0,82	-	35,3	20,4	-	451,8	260,8
32 10-2F5/18.5	IE2	160L	18,5	25	90,3	91,6	91,2	0,88	-	33,3	19,3	-	263,1	152,0
	IE3				89,7	91,7	92,4	0,82	-	35,3	20,4	-	451,8	260,8
32 11-3F5/22	IE2	180M	22	30	90,9	91,8	91,4	0,89	-	39,0	22,5	-	292,5	168,9
	IE3				92,5	93,1	92,9	0,90	-	38,0	22,0	-	364,8	210,6
32 11-0F5/22	IE2	180M	22	30	90,9	91,8	91,4	0,89	-	39,0	22,5	-	292,5	168,9
	IE3				92,5	93,1	92,9	0,90	-	38,0	22,0	-	364,8	210,6
32 12-3F5/22	IE2	180M	22	30	90,9	91,8	91,4	0,89	-	39,0	22,5	-	292,5	168,9
	IE3				92,5	93,1	92,9	0,90	-	38,0	22,0	-	364,8	210,6
32 13-3F5/30	IE2	200L	30	40	91,3	92,3	92,3	0,88	-	53,5	30,9	-	358,5	206,9
32 13-0F5/30	IE2	200L	30	40	91,3	92,3	92,3	0,88	-	53,5	30,9	-	358,5	206,9
32 14-3F5/30	IE2	200L	30	40	91,3	92,3	92,3	0,88	-	53,5	30,9	-	358,5	206,9
32 14-0F5/30	IE2	200L	30	40	91,3	92,3	92,3	0,88	-	53,5	30,9	-	358,5	206,9

EVM(.) 45

Pump type	Efficiency	Motor		Full load efficiency and power-factor					Full load current [A]			Locked rotor current [A]		
		Motor size	Power						230 V	400V	690V	230 V	400V	690V
			[kW]	[HP]	50%	75%	100%	cos-φ 100%						
45 1-1F5/3.0	IE2	100L	3	4	84.1	85.8	85.5	0.84	10.2	5.9	-	81.8	47.2	-
45 1-0F5/4.0	IE2	112M	4	5.5	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
45 2-2F5/5.5	IE2	132S	5.5	7.5	85.8	87.4	87.3	0.88	-	10.4	6.0	-	83.2	48.0
45 2-0F5/7.5	IE2	132S	7.5	10	86.5	88.3	88.3	0.87	-	14.2	8.2	-	115.0	66.4
	IE3				89.4	91.0	91.1	0.88	-	13.5	7.8	-	103.9	60.0
45 3-2F5/11	IE2	160M	11	15	88.1	90.0	89.7	0.90	-	19.8	11.4	-	148.5	85.7
	IE3				88.7	90.5	91.2	0.89	-	19.5	11.2	-	216.4	125.0
45 3-0F5/11	IE2	160M	11	15	88.1	90.0	89.7	0.90	-	19.8	11.4	-	148.5	85.7
	IE3				88.7	90.5	91.2	0.89	-	19.5	11.2	-	216.4	125.0
45 4-2F5/15	IE2	160M	15	20	90.0	91.0	90.8	0.88	-	27.2	15.7	-	206.7	119.3
	IE3				89.5	91.4	92.0	0.88	-	26.7	15.4	-	333.7	192.7
45 4-0F5/15	IE2	160M	15	20	90.0	91.0	90.8	0.88	-	27.2	15.7	-	206.7	119.3
	IE3				89.5	91.4	92.0	0.88	-	26.7	15.4	-	333.7	192.7
45 5-2F5/18.5	IE2	160L	18.5	25	90.3	91.6	91.2	0.88	-	33.3	19.3	-	263.1	152.0
	IE3				89.7	91.7	92.4	0.82	-	35.3	20.4	-	451.8	260.8
45 5-0F5/18.5	IE2	160L	18.5	25	90.3	91.6	91.2	0.88	-	33.3	19.3	-	263.1	152.0
	IE3				89.7	91.7	92.4	0.82	-	35.3	20.4	-	451.8	260.8
45 6-2F5/22	IE2	180M	22	30	90.9	91.8	91.4	0.89	-	39.0	22.5	-	292.5	168.9
	IE3				92.5	93.1	92.9	0.90	-	38.0	22.0	-	364.8	210.6
45 6-0F5/22	IE2	180M	22	30	90.9	91.8	91.4	0.89	-	39.0	22.5	-	292.5	168.9
	IE3				92.5	93.1	92.9	0.90	-	38.0	22.0	-	364.8	210.6
45 7-2F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
45 7-0F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
45 8-2F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
45 8-0F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
45 9-2F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
45 9-0F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
45 10-2F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
45 10-0F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6

EVM(.) 64

Pump type	Efficiency	Motor			Full load efficiency and power-factor				Full load current [A]			Locked rotor current [A]		
		Motor size	Power						230 V	400V	690V	230 V	400V	690V
			[kW]	[HP]	50%	75%	100%	cos-φ 100%						
64 1-1F5/4.0	IE2	112M	4	5.5	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
64 1-0F5/5.5	IE2	132S	5.5	7.5	85.8	87.4	87.3	0.88	-	10.4	6.0	-	83.2	48.0
64 2-2F5/7.5	IE2	132S	7.5	10	86.5	88.3	88.3	0.87	-	14.2	8.2	-	115.0	66.4
	IE3				89.4	91.0	91.1	0.88	-	13.5	7.8	-	103.9	60.0
64 2-1F5/11	IE2	160M	11	15	88.1	90.0	89.7	0.90	-	19.8	11.4	-	148.5	85.7
	IE3				88.7	90.5	91.2	0.89	-	19.5	11.2	-	216.4	125.0
64 2-0F5/11	IE2	160M	11	15	88.1	90.0	89.7	0.90	-	19.8	11.4	-	148.5	85.7
	IE3				88.7	90.5	91.2	0.89	-	19.5	11.2	-	216.4	125.0
64 3-3F5/15	IE2	160M	15	20	90.0	91.0	90.8	0.88	-	27.2	15.7	-	206.7	119.3
	IE3				89.5	91.4	92.0	0.88	-	26.7	15.4	-	333.7	192.7
64 3-2F5/15	IE2	160M	15	20	90.0	91.0	90.8	0.88	-	27.2	15.7	-	206.7	119.3
	IE3				89.5	91.4	92.0	0.88	-	26.7	15.4	-	333.7	192.7
64 3-1F5/15	IE2	160M	15	20	90.0	91.0	90.8	0.88	-	27.2	15.7	-	206.7	119.3
	IE3				89.5	91.4	92.0	0.88	-	26.7	15.4	-	333.7	192.7
64 3-0F5/18.5	IE2	160L	18.5	25	90.3	91.6	91.2	0.88	-	33.3	19.3	-	263.1	152.0
	IE3				89.7	91.7	92.4	0.82	-	35.3	20.4	-	451.8	260.8
64 4-3F5/18.5	IE2	160L	18.5	25	90.3	91.6	91.2	0.88	-	33.3	19.3	-	263.1	152.0
	IE3				89.7	91.7	92.4	0.82	-	35.3	20.4	-	451.8	260.8
64 4-2F5/18.5	IE2	160L	18.5	25	90.3	91.6	91.2	0.88	-	33.3	19.3	-	263.1	152.0
	IE3				89.7	91.7	92.4	0.82	-	35.3	20.4	-	451.8	260.8
64 4-1F5/22	IE2	180M	22	30	90.9	91.8	91.4	0.89	-	39.0	22.5	-	292.5	168.9
	IE3				92.5	93.1	92.9	0.90	-	38.0	22.0	-	364.8	210.6
64 4-0F5/22	IE2	180M	22	30	90.9	91.8	91.4	0.89	-	39.0	22.5	-	292.5	168.9
	IE3				92.5	93.1	92.9	0.90	-	38.0	22.0	-	364.8	210.6
64 5-3F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 5-2F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 5-1F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 5-0F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 6-3F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 6-2F5/30	IE2	200L	30	40	91.3	92.3	92.3	0.88	-	53.5	30.9	-	358.5	206.9
64 6-1F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
64 6-0F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
64 7-3F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
64 7-2F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6
64 7-1F5/37	IE2	200L	37	50	91.6	92.9	92.8	0.90	-	64.5	37.2	-	406.4	234.6