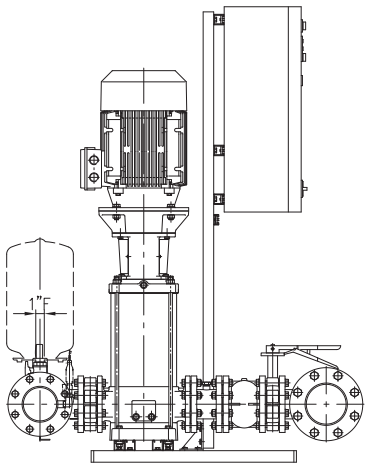
2GPE EVMG

FREKVENTNE HIDRO-STANICE

INDUSTRIAL PRESSURE BOOSTING



Units with two vertical multistage pumps with stainless steel hydraulic parts and standardised motor.

PUMP FEATURES

FIELD OF USE

- Maximum working pressure:
  - 16 bar
  - 25 bar
  - 30 bar (for EVMG32 - EVMG45 only)
- Temperature of the liquid: -15°C ÷ +120°C

MATERIALS

- Lower pump body in cast iron
- External casing, seal housing disc, impellers, nozzles, shaft casing, joint cover and small elements in contact with the liquid in AISI 304
- Tie-rods and small elements not in contact with the liquid in galvanised steel
- Shaft in AISI 316
- Bearings in contact with the liquid in tungsten carbide
- Motor support and base in cast iron
- Mechanical sealing in SiC/Carbon/FPM (EVMG10-EVMG18)
- Mechanical sealing with cartridge as per standard (EVMG32-EVMG45-EVMG64)

(F= round flanges; N= oval flanges)

TECHNICAL DATA

- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- Single phase voltage 230V ± 10% 50Hz (up to 2.2 kW), three phase voltage 230/400V ±10% 50Hz (up to 4 kW included), three phase voltage 400/690V ±10% (5.5 kW and above)

TYPICAL APPLICATIONS

The base of the group is in galvanised steel as are the manifolds. The discharge manifold is set-up to gather any two vertical type membrane reservoirs; two pressure switches, the electric control panel and a pressure gauge are mounted on it. On inlet, each electric pump has an isolating valve and a non-return valve, with the possibility of connection to an air supply unit and has another isolating valve in discharge mode. The electric control panel is sustained by a relevant support fixed to the base.

TECHNICAL FEATURES

The control panels control pump number one at variable speeds and automatically start any other pumps, allowing to adjust system pressure on constant values. These particulars allow to increase the level of comfort, minimise management costs and reduce all air pre-load accumulation reservoirs to a minimum.

The typical applications of the GPE range pressure boosters with control panels are:

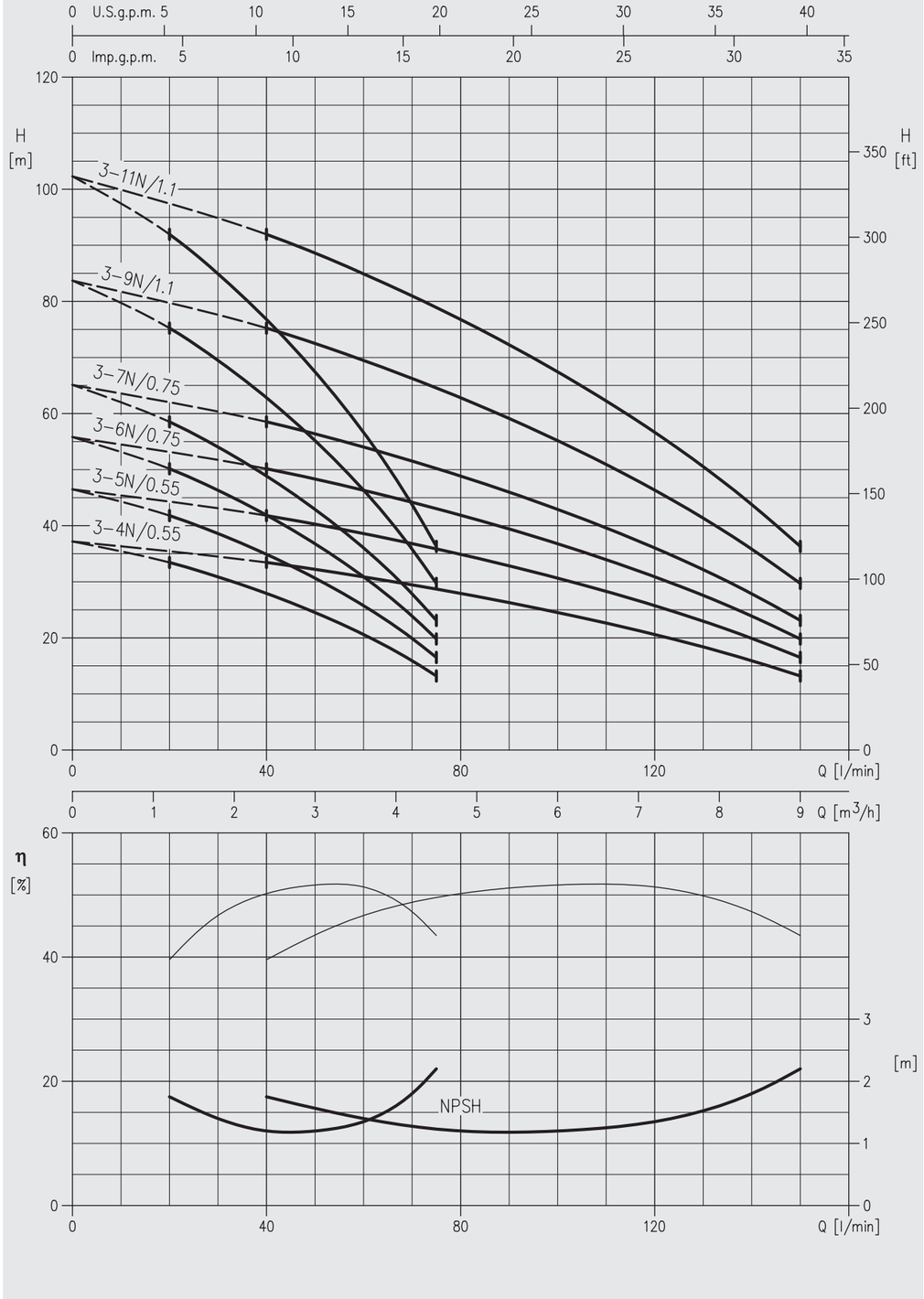
- Water provisioning for condominium, school, hotel hospital distribution networks etc.
- Water provisioning for industry in general
- Irrigation of gardens, parks and sports fields

FUNCTIONING PRINCIPLES

- Functioning with PRESSURE-CONTROLLER: the unit responds to the control of the pressure transducer and the speed control via the pump number one inverter, maintaining the system pressure constant
- Double functioning possibility of every pump in AUTOMATIC, MANUAL OR pump EXCLUDED mode
- Pump motors protection against overloads, missing phase over/under voltage
- Pump protection against dry running
- Inverter protection against phase breakdowns, under/over voltage, earth faults, environment overheating
- Functioning of pump number one at variable speed via the inverter; automatic start-up via electro-mechanical contactors of the other pumps
- Automatic switch-over of functioning of pump number one and any other pumps, via electro-mechanical contactors and pressure switches, if the inverter should block
- Automatic switch-over every 24 hours of the powered pumps start-up order via electro-mechanical contactors

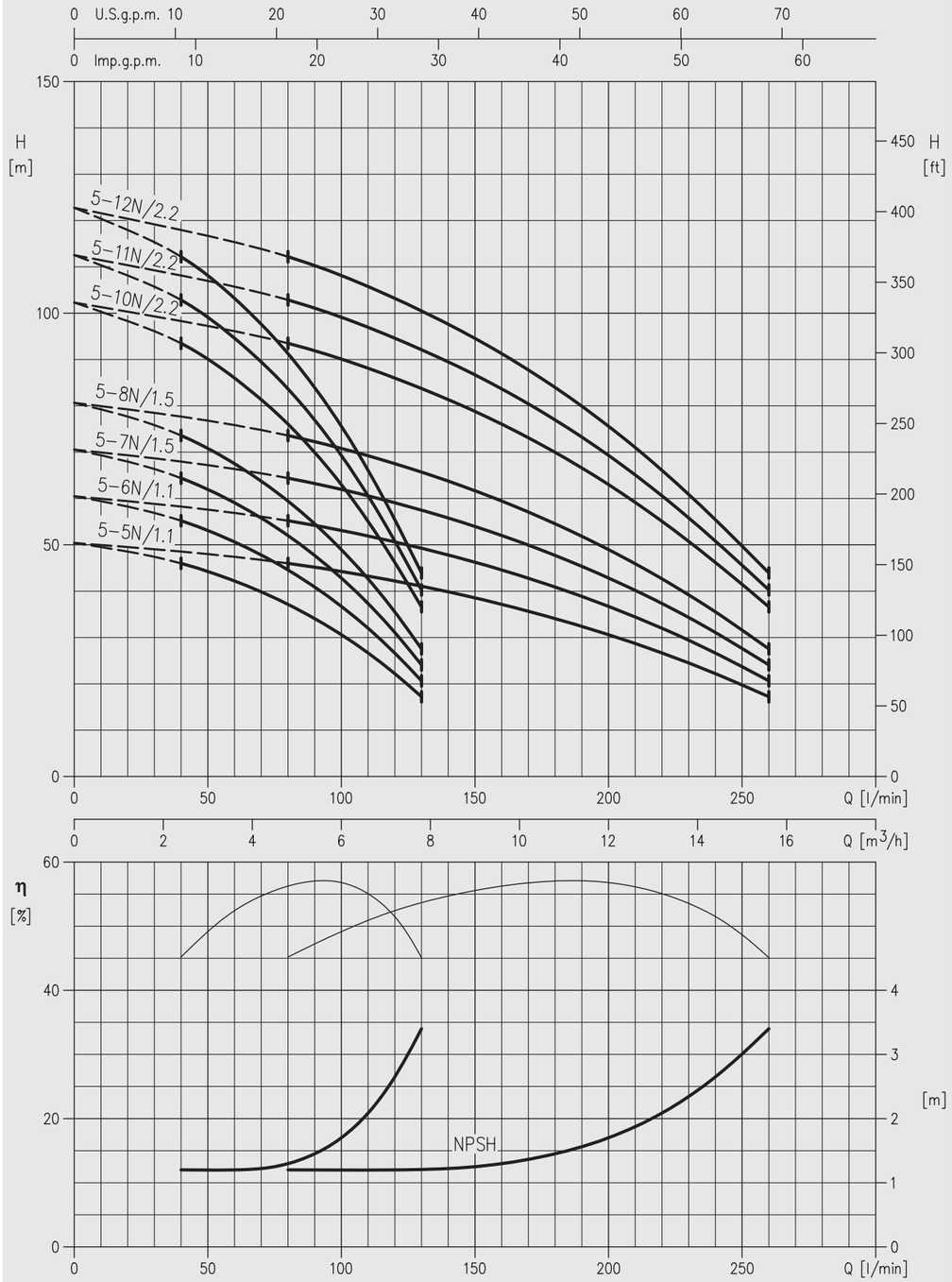
2GPE SA FREKVENTNOM REGULACIJOM

2GPE EVM(G) 3



2GPE SA FREKVENTNOM REGULACIJOM

2GPE EVM(G) 5



2GPE SA FREKVENTNOM REGULACIJOM

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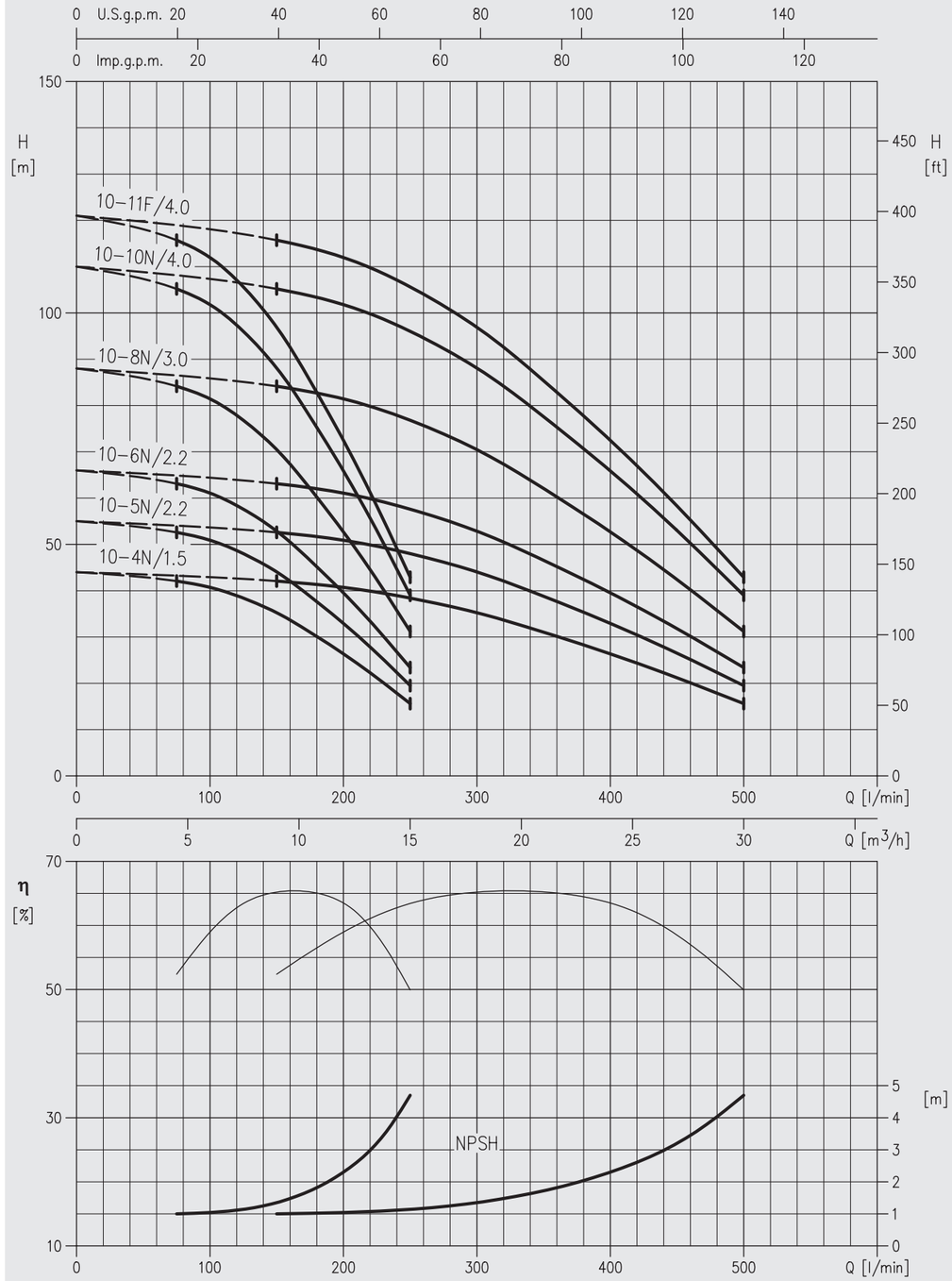
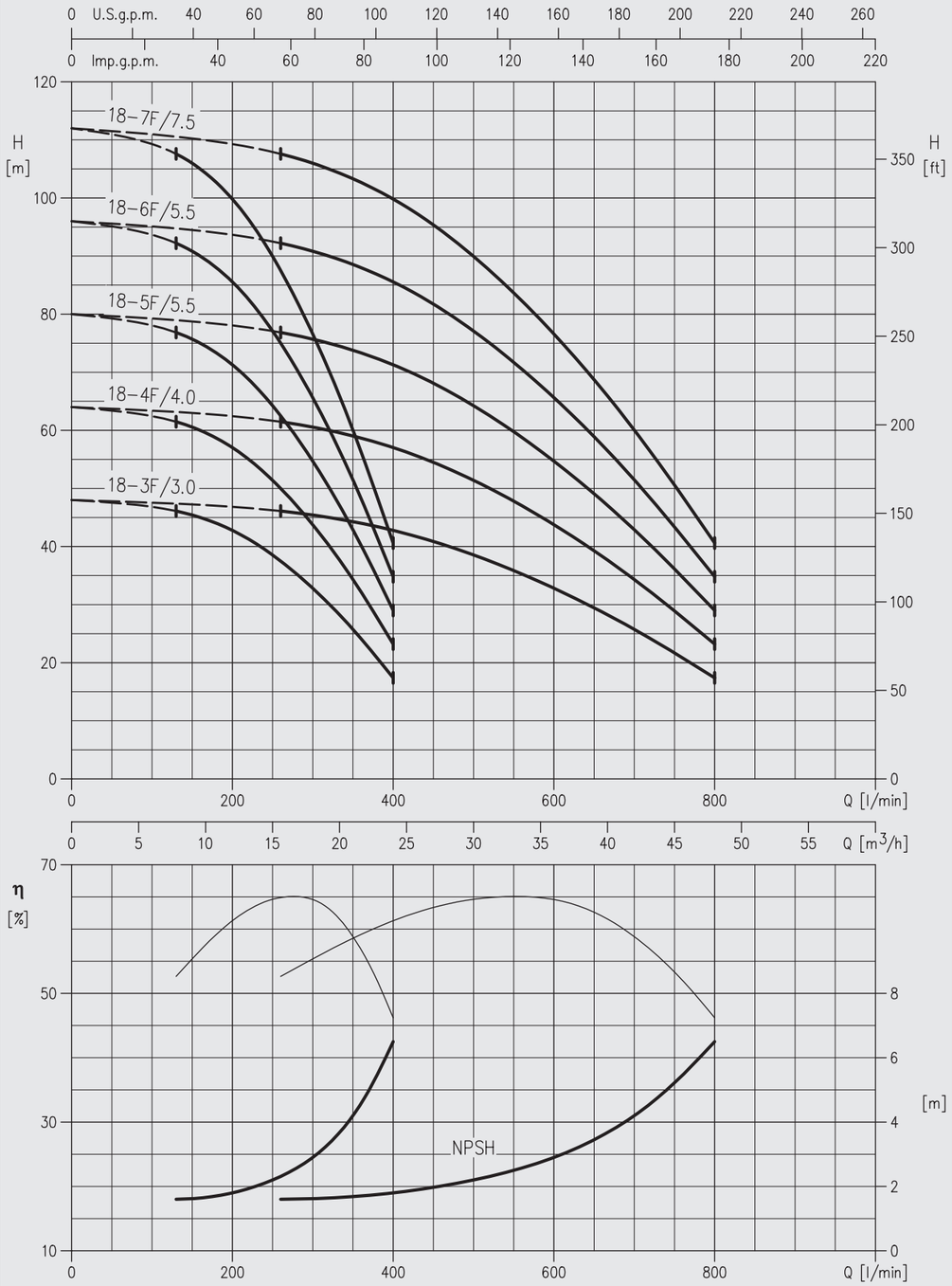
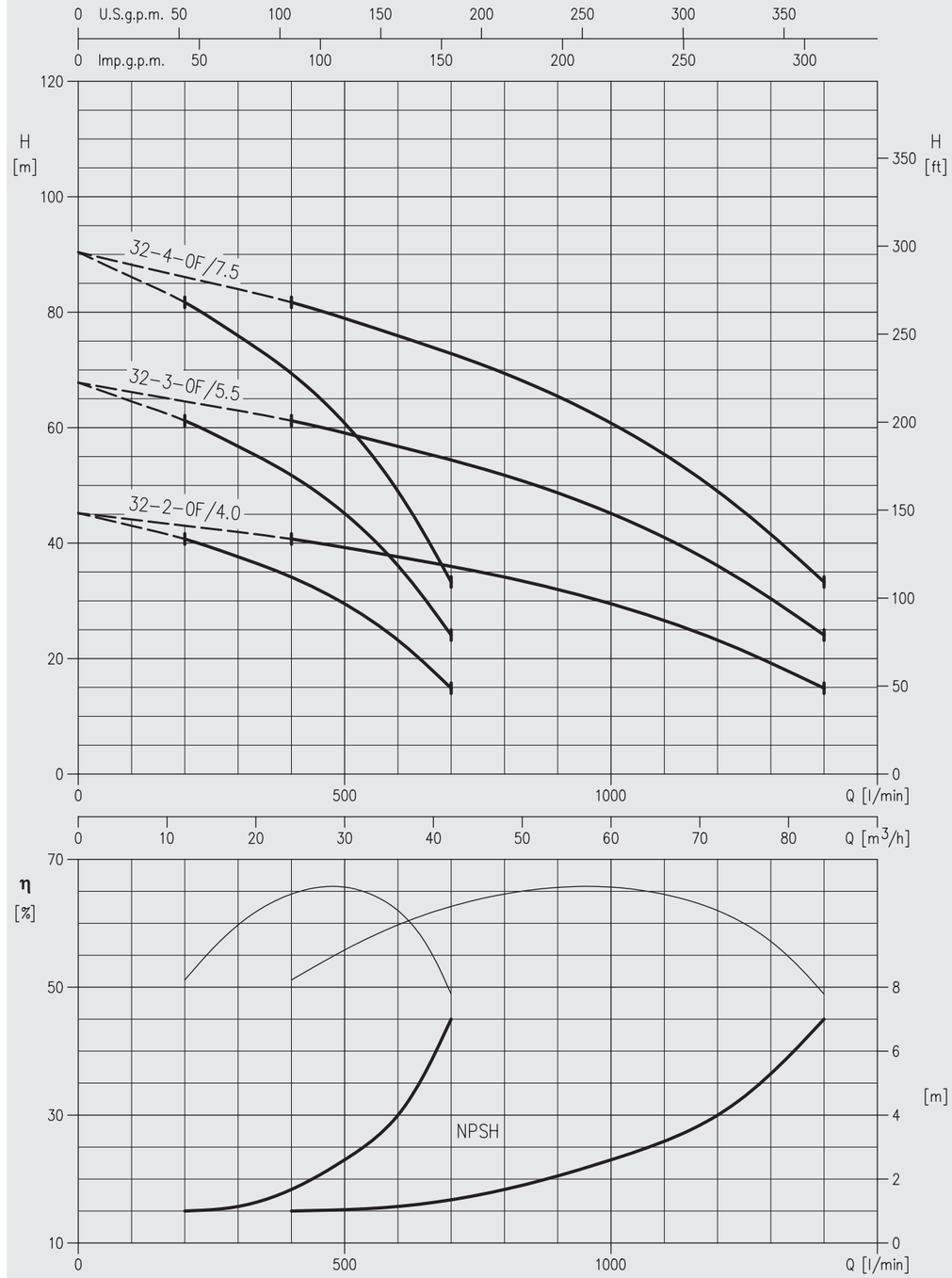


2GPE EVM(G) 18

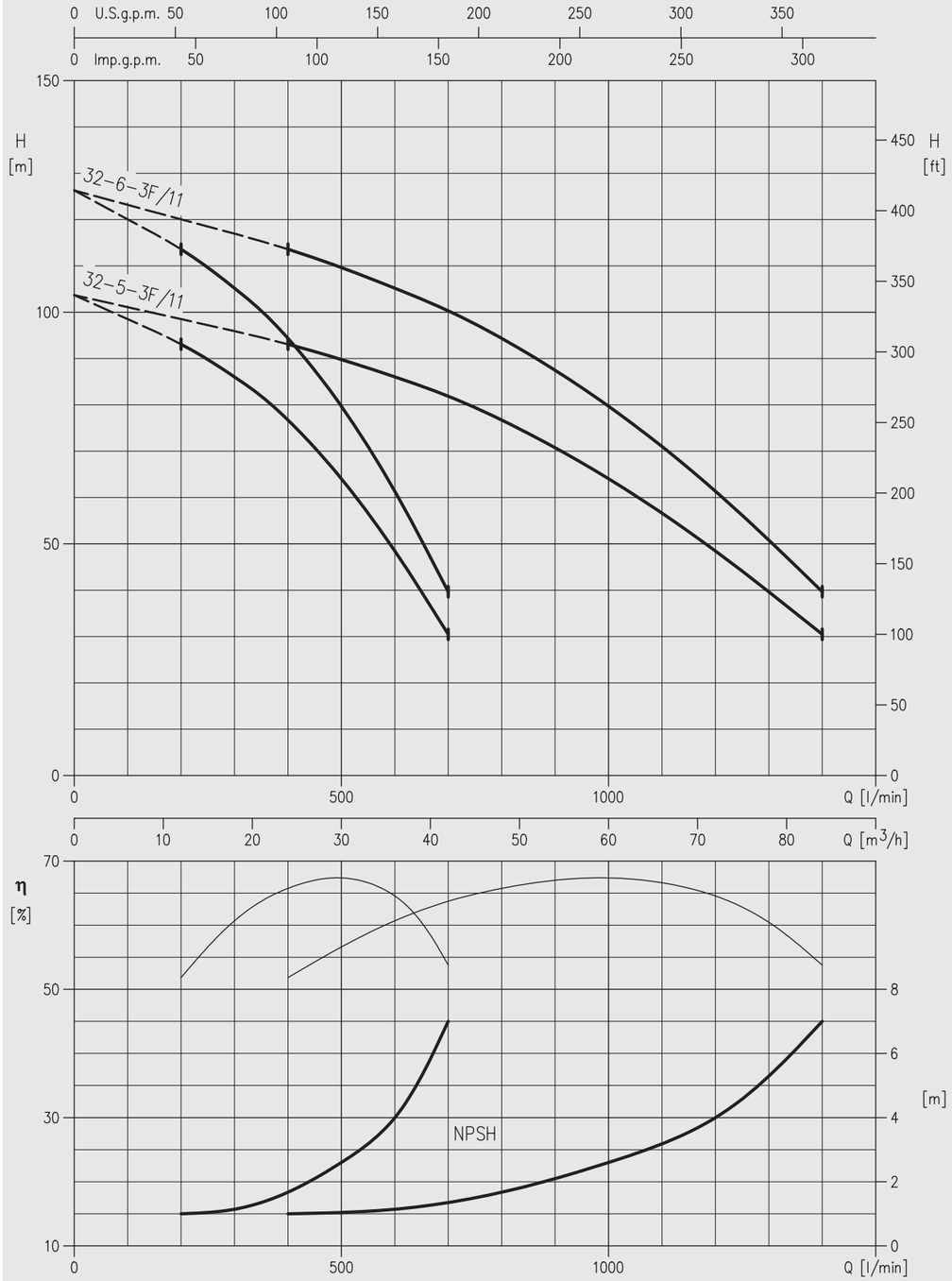


2GPE SA FREKVENTNOM REGULACIJOM

2GPE EVM(G) 32

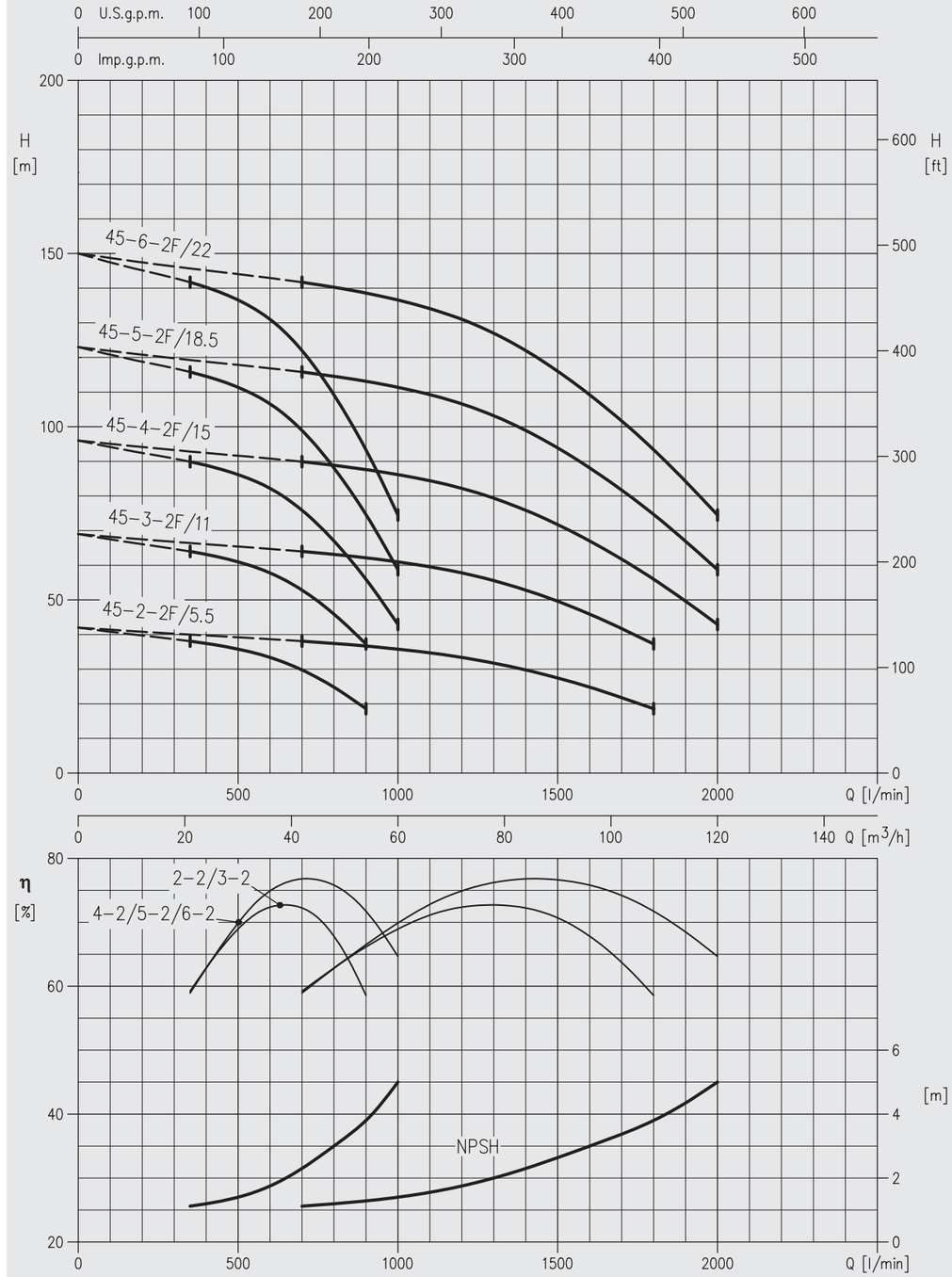


2GPE EVM(G) 32



2GPE SA FREKVENTNOM REGULACIJOM

2GPE EVM(G) 45



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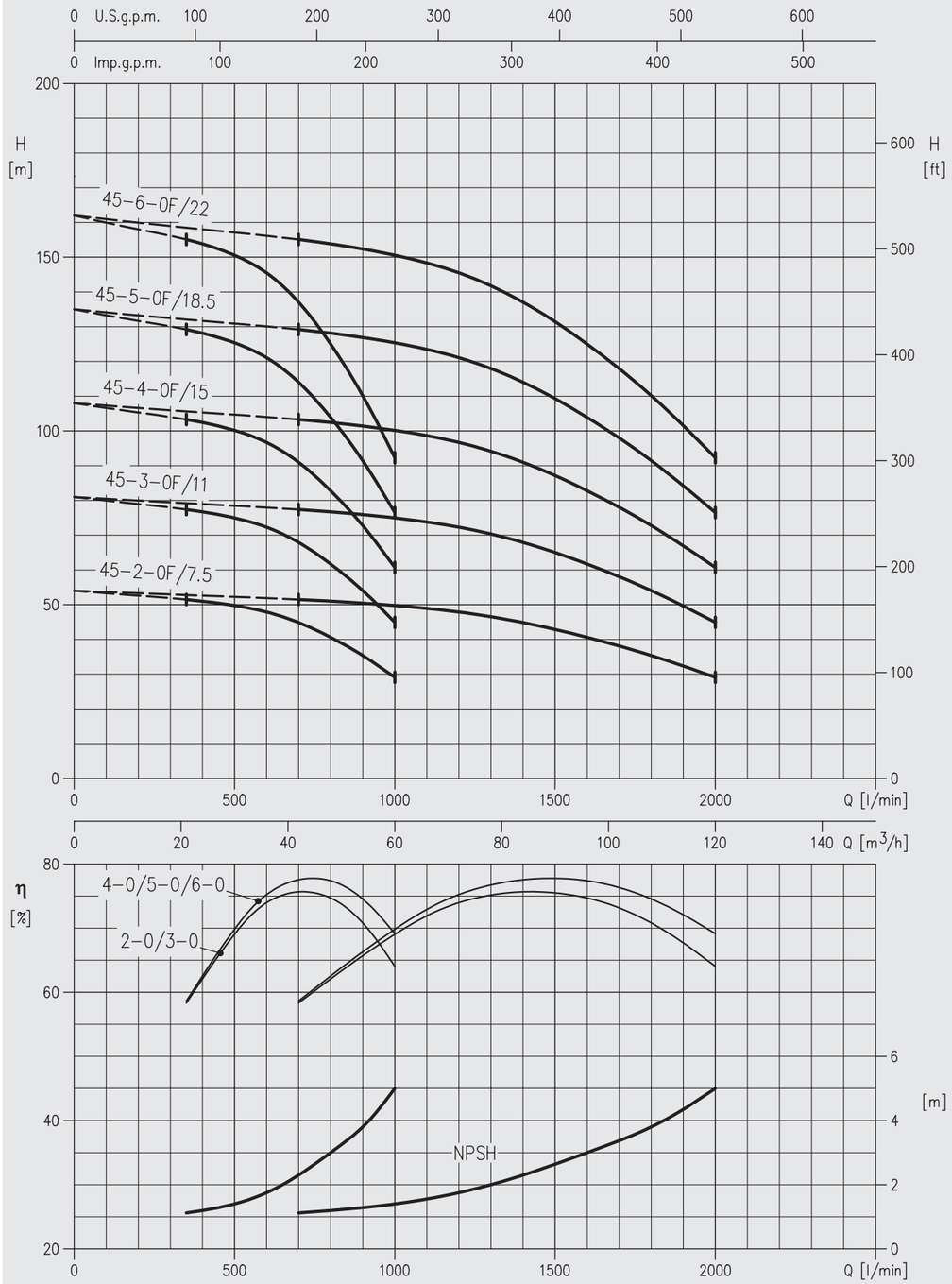

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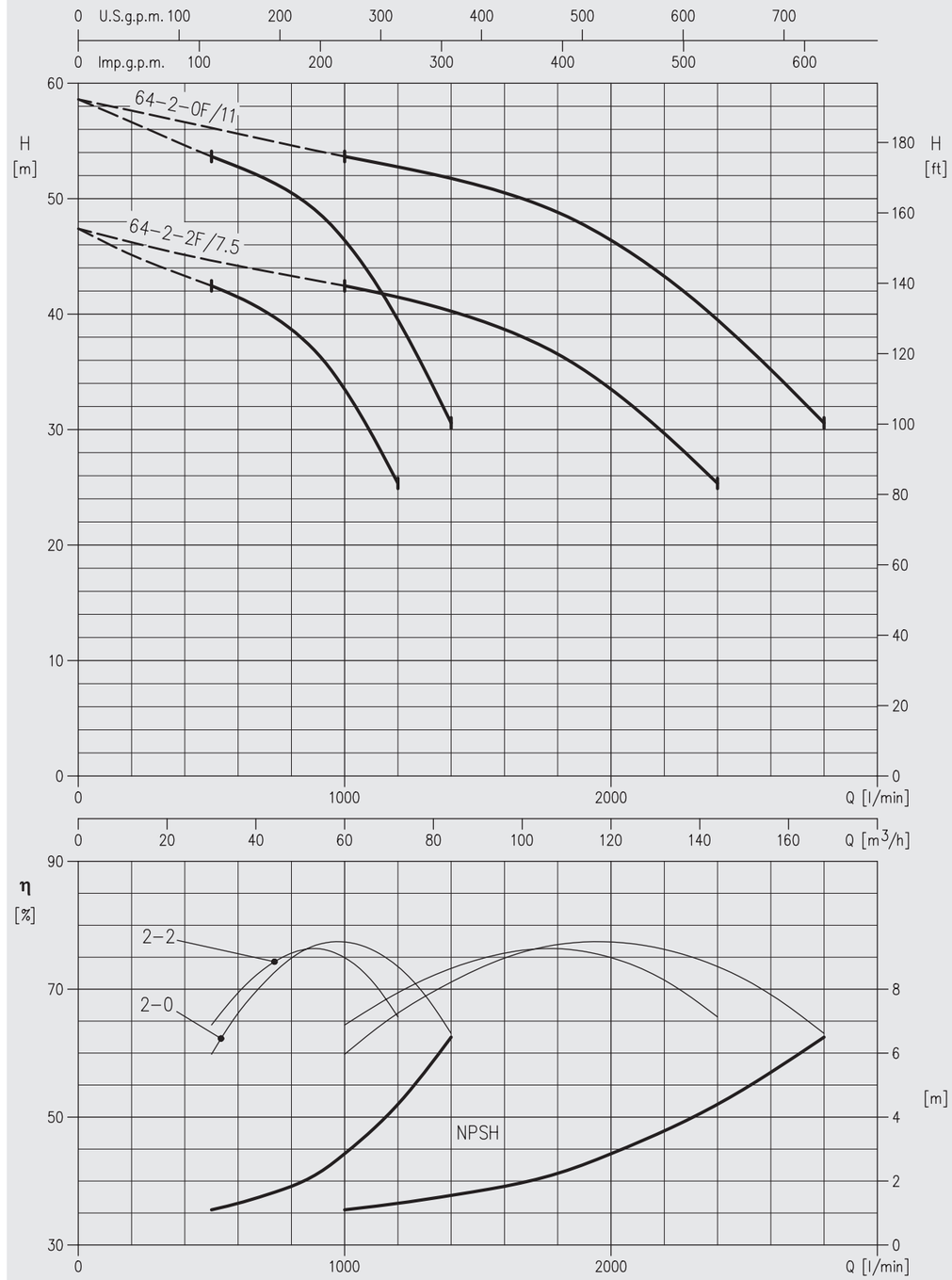

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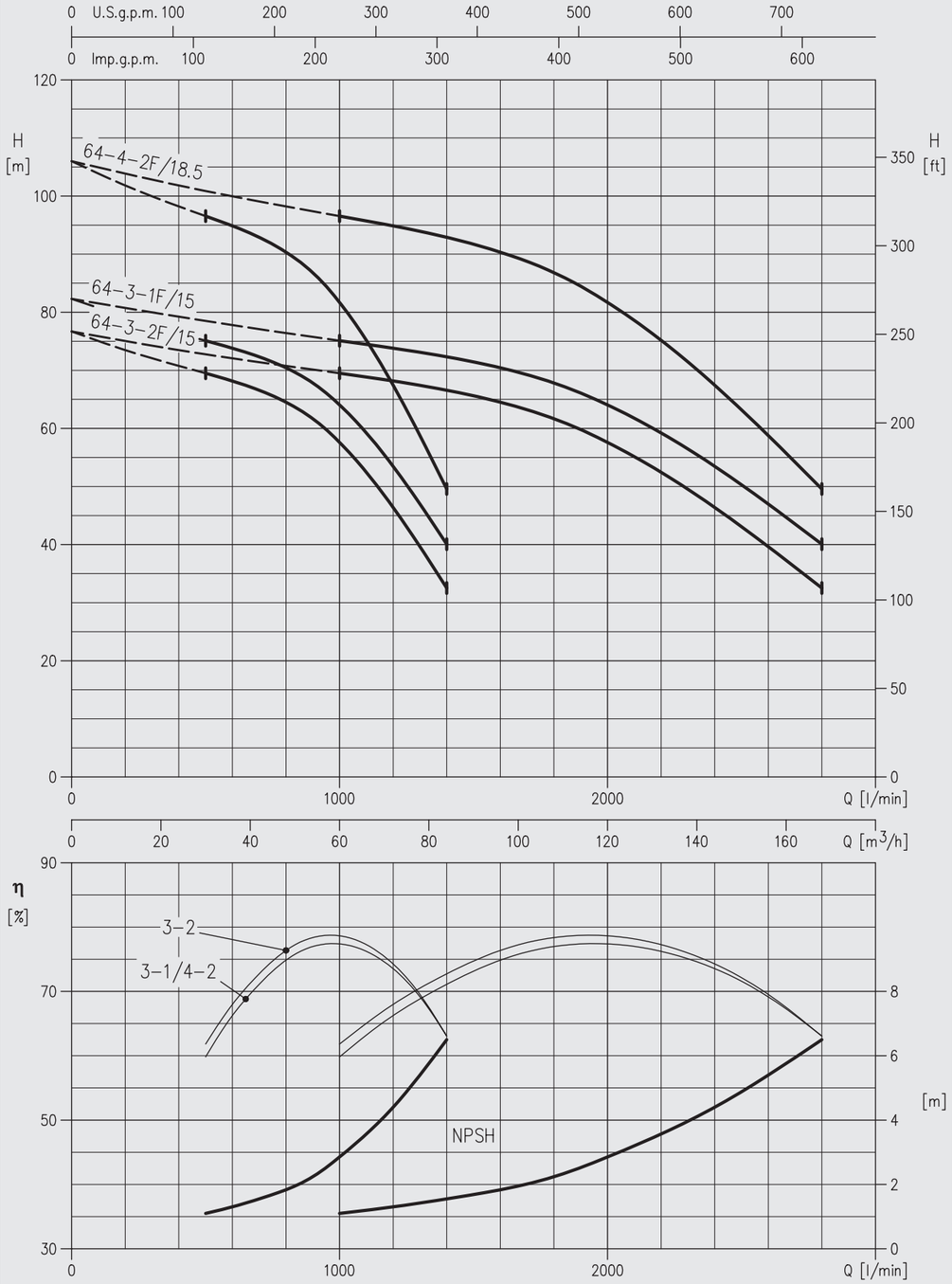


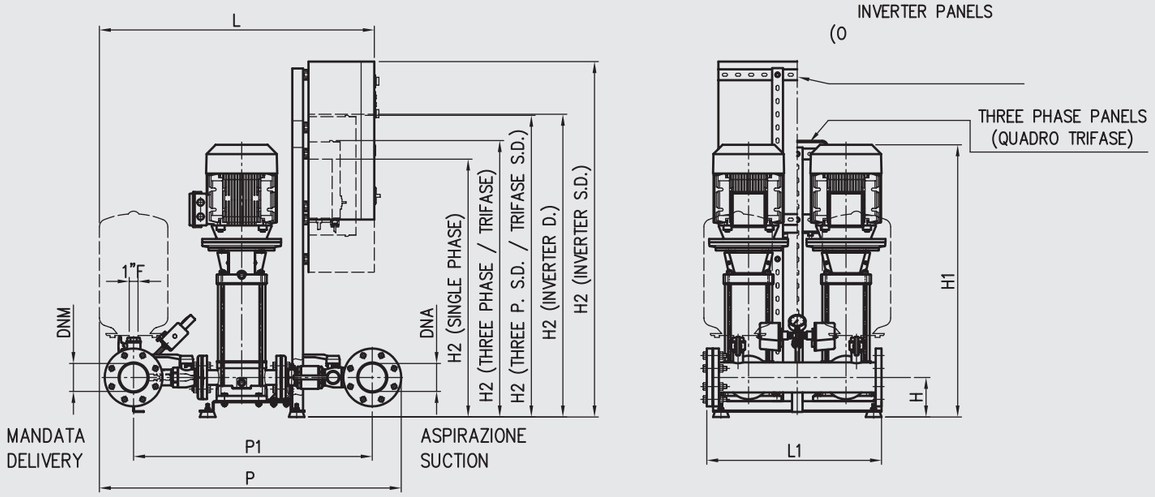
KARAKTERISTIKE HIDRO - STANICA SA DVIJE PARALELNO SPOJENE PUMPE

Tipo pompa Monofase 230 V	Tipo pompa Trifase 400 V	kW	Assorbimento max (A) Monofase 230 V	Assorbimento max (A) Trifase 400 V	Q=Portata l/min 0	40	80	120	150	200	260	300	400	500	600	700	800
					m³/h 0	2,4	4,8	7,2	9,0	12	15,6	18	24	30	36	42	48
					H = Prevalenza manometrica in m.c.a.												
3 4N/0.55 M	3 4N/0.55	0.55+0.55	7.6	3.2	37,2	33,4	27,9	20,6	13,2	-	-	-	-	-	-	-	-
3 5N/0.55 M	3 5N/0.55	0.55+0.55	7.6	3.2	46,5	42,0	34,9	25,8	16,5	-	-	-	-	-	-	-	-
3 6N/0.75 M	3 6N/0.75	0.75+0.75	10.6	3.8	56,0	50,0	42,0	30,9	19,8	-	-	-	-	-	-	-	-
3 7N/0.75 M	3 7N/0.75	0.75+0.75	10.6	3.8	65,0	58,5	49,0	36,1	23,1	-	-	-	-	-	-	-	-
3 9N/1.1 M	3 9N/1.1	1.1+1.1	13.4	5	84,0	75,0	63,0	46,5	29,7	-	-	-	-	-	-	-	-
3 11N/1.1 M	3 11N/1.1	1.1+1.1	13.4	5	102,0	92,0	77,0	56,5	36,3	-	-	-	-	-	-	-	-
5 5N/1.1 M	5 5N/1.1	1.1+1.1	13.4	5	50,5	-	46,0	42,0	38,6	30,6	17,2	-	-	-	-	-	-
5 6N/1.1 M	5 6N/1.1	1.1+1.1	13.4	5	60,5	-	55,0	50,5	46,5	36,7	20,6	-	-	-	-	-	-
5 7N/1.5 M	5 7N/1.5	1.5+1.5	17.6	6.8	70,5	-	64,5	59,0	54,0	43,0	24,1	-	-	-	-	-	-
5 8N/1.5 M	5 8N/1.5	1.5+1.5	17.6	6.8	80,5	-	73,5	67,5	61,5	49,0	27,5	-	-	-	-	-	-
5 10N/2.2		2.2+2.2		9.8	102,0	-	93,5	86,0	79,0	63,0	36,6	-	-	-	-	-	-
5 11N/2.2		2.2+2.2		9.8	113,0	-	103,0	94,5	86,5	69,5	40,5	-	-	-	-	-	-
5 12N/2.2		2.2+2.2		9.8	123,0	-	112,0	103,0	94,5	75,5	44,0	-	-	-	-	-	-
10 4N/1.5 M	10 4N/1.5	1.5+1.5	17,6	6.8	44,0	-	-	-	42,0	40,5	37,8	35,2	26,4	15,6	-	-	-
10 5N/2.2		2.2+2.2		9.8	55,0	-	-	-	52,5	51,0	47,5	44,0	33,0	19,5	-	-	-
10 6N/2.2		2.2+2.2		9.8	66,0	-	-	-	63,0	61,0	57,0	53,0	39,5	23,4	-	-	-
10 8N/3.0		3+3		13	88,0	-	-	-	84,0	81,5	75,5	70,5	52,5	31,2	-	-	-
10 10N/4.0		4+4		17	110,0	-	-	-	105,0	102,0	94,5	88,0	66,0	39,0	-	-	-
10 11N/4.0		4+4		17	121,0	-	-	-	116,0	112,0	104,0	97,0	72,5	43,0	-	-	-
18 3F/3.0		3+3		13	48,0	-	-	-	-	-	46,0	45,5	43,0	38,6	32,8	25,7	17,4
18 4F/4.0		4+4		17	64,0	-	-	-	-	-	61,5	60,5	57,0	51,5	44,0	34,3	23,2
18 5F/5.5		5.5+5.5		21.6	80,0	-	-	-	-	-	77,0	75,5	71,5	64,5	54,5	43,0	29,0
18 6F/5.5		5.5+5.5		21.6	96,0	-	-	-	-	-	92,0	91,0	85,5	77,0	65,5	51,5	34,8
18 7F/7.5		7.5+7.5		28.2	112,0	-	-	-	-	-	108,0	106,0	100,0	90,0	76,5	60,0	40,5

KARAKTERISTIKE HIDRO - STANICA SA DVIJE PARALELNO SPOJENE PUMPE

Tipo pompa Trifase 400 V	kW	Assorbimento max (A) Trifase 400 V	Q=Portata l/min 0	400	700	1000	1200	1400	1800	2000	2400	2800
			m³/h 0	24	42	60	72	84	108	120	144	168
			H = Prevalenza manometrica in m.c.a.									
32 2-0F/4.0	4+4	17	45,0	40,5	36,0	29,5	23,2	14,9	-	-	-	-
32 3-0F/5.5	5.5+5.5	21,6	68,0	61,0	54,5	45,0	36,1	24,1	-	-	-	-
32 4-0F/7.5	7.5+7.5	28,2	90,5	81,5	73,0	61,0	49,0	33,3	-	-	-	-
32 5-3F/11	11+11	43	104,0	93,0	82,0	64,0	48,5	30,5	-	-	-	-
32 6-3F/11	11+11	43	126,0	114,0	100,0	79,5	61,5	39,7	-	-	-	-
45 2-2F/5.5	5.5+5.5	21,6	42,0	-	38,1	35,8	33,4	29,8	18,6	-	-	-
45 2-0F/7.5	7.5+7.5	28,2	54,0	-	51,5	50,0	48,0	45,0	35,4	29,1	-	-
45 3-2F/11	11+11	43	69,0	-	64,0	61,0	58,0	53,0	37,3	-	-	-
45 3-0F/11	11+11	43	81,0	-	77,5	75,0	72,5	68,0	54,0	45,0	-	-
45 4-2F/15	15+15	57	96,0	-	90,0	86,0	82,0	76,0	56,0	43,0	-	-
45 4-0F/15	15+15	57	108,0	-	103,0	100,0	96,5	91,0	73,0	60,5	-	-
45 5-2F/18.5	18.5+18.5	69	123,0	-	116,0	111,0	107,0	99,0	74,5	58,5	-	-
45 5-0F/18.5	18.5+18.5	69	135,0	-	129,0	125,0	121,0	114,0	91,5	76,5	-	-
45 6-2F/22	22+22	82	150,0	-	142,0	137,0	131,0	122,0	93,5	74,5	-	-
45 6-0F/22	22+22	82	162,0	-	155,0	151,0	146,0	137,0	110,0	92,5	-	-
64 2-2F/7.5	7.5+7.5	28,2	47,5	-	-	42,5	41,5	40,5	36,5	33,5	25,3	-
64 2-0F/11	11+11	43	58,5	-	-	53,5	53,0	52,0	49,0	46,5	39,5	30,6
64 3-2F/15	15+15	57	76,5	-	-	69,5	68,0	66,5	61,5	57,5	46,5	32,5
64 3-1F/15	15+15	57	82,5	-	-	75,0	74,0	72,5	68,0	64,0	53,5	40,0
64 4-2F/18.5	18.5+18.5	69	106,0	-	-	96,5	95,0	93,0	87,0	81,5	67,5	49,5

MIJERNA SKICA - DIMENZIJE

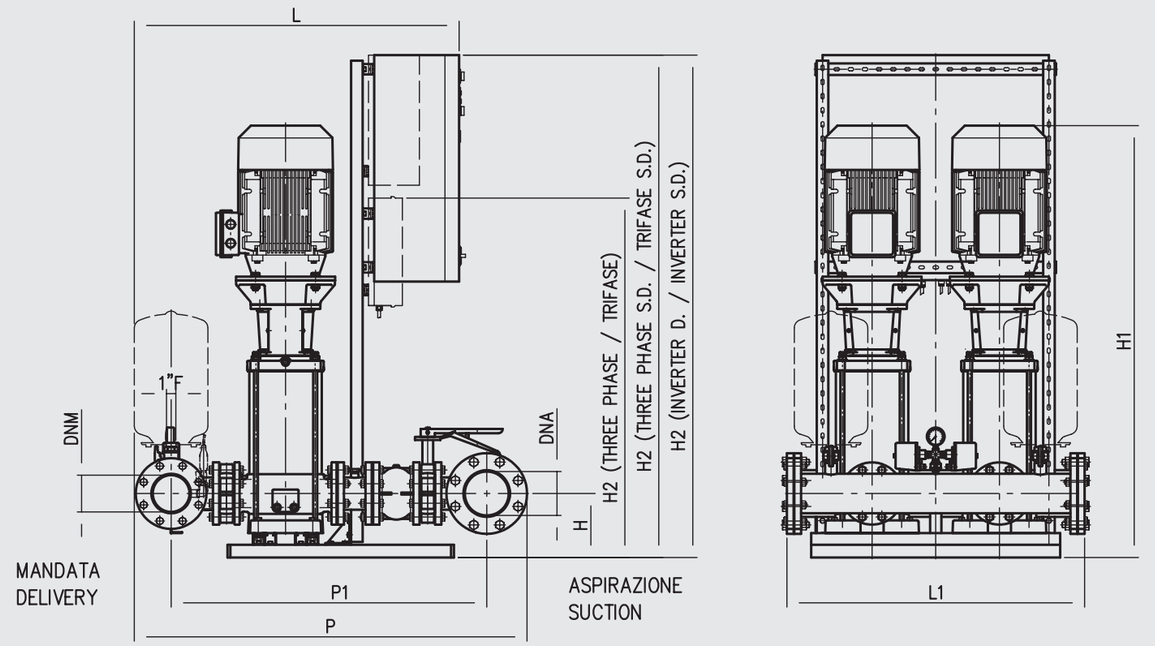


MODELLO	L										H	H 1		H2										P		P 1		L1	DNA	kg				
	VERSIONE STANDARD					VERSIONE AISI 304						SIN. PH.	D.O.L. -T.S.D. I.D.O.L. - I.S.D.	VERSIONE STANDARD					VERSIONE AISI 304					VERSIONE STANDARD	VERSIONE AISI 304	VERSIONE STANDARD	VERSIONE AISI 304		DNM	SIN. PH.	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.
	SIN. PH.	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.	SIN. PH.	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.				SIN. PH.	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.	SIN. PH.	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.											
2GP(E) EVM3 4N/0,55	790	820	–	–	–	880	910	–	–	–	110	560	560	895	900	–	–	–	895	900	–	–	–	780	1005	690	925	660	G 2	88	91	–	–	–
2GP(E) EVM3 5N/0,55	790	820	–	–	–	880	910	–	–	–	110	580	580	895	900	–	–	–	895	900	–	–	–	780	1005	690	925	660	G 2	96	98	–	–	–
2GP(E) EVM3 6N/0,75	790	820	–	950	–	880	910	–	1040	–	110	625	625	895	900	–	1050	–	895	900	–	1100	–	780	1005	690	925	660	G 2	106	104	–	124	–
2GP(E) EVM3 7N/0,75	790	820	–	950	–	880	910	–	1040	–	110	650	650	895	900	–	1050	–	895	900	–	1100	–	780	1005	690	925	660	G 2	104	102	–	127	–
2GP(E) EVM3 9N/1,1	790	820	–	950	–	880	910	–	1040	–	110	690	690	895	900	–	1050	–	895	900	–	1100	–	780	1005	690	925	660	G 2	112	110	–	130	–
2GP(E) EVM3 11N/1,1	790	820	–	950	–	880	910	–	1040	–	110	730	730	895	900	–	1050	–	895	900	–	1100	–	780	1005	690	925	660	G 2	121	116	–	141	–
2GP(E) EVM5 5N/1,1	755	785	–	915	–	815	845	–	975	–	110	640	640	895	900	–	1050	–	895	900	–	1100	–	720	885	630	805	660	G 2	113	110	–	135	–
2GP(E) EVM5 6N/1,1	755	785	–	915	–	815	845	–	975	–	110	670	670	895	900	–	1050	–	895	900	–	1100	–	720	885	630	805	660	G 2	114	110	–	130	–
2GP(E) EVM5 7N/1,5	755	785	–	915	–	815	845	–	975	–	110	755	740	895	900	–	1050	–	895	900	–	1100	–	720	885	630	805	660	G 2	131	124	–	144	–
2GP(E) EVM5 8N/1,5	755	785	–	915	–	815	845	–	975	–	110	780	770	895	900	–	1050	–	895	900	–	1100	–	720	885	630	805	660	G 2	134	127	–	147	–
2GP(E) EVM5 10N/2,2	–	785	–	915	–	–	845	–	975	–	110	–	835	–	900	–	1050	–	–	900	–	1100	–	720	885	630	805	660	G 2	–	143	–	168	–
2GP(E) EVM5 11N/2,2	–	785	–	915	–	–	845	–	975	–	110	–	865	–	900	–	1050	–	–	900	–	1100	–	720	885	630	805	660	G 2	–	153	–	173	–
2GP(E) EVM5 12N/2,2	–	785	–	915	–	–	845	–	975	–	110	–	890	–	900	–	1050	–	–	900	–	1100	–	720	885	630	805	660	G 2	–	157	–	177	–
2GP(E) EVM10 4N/1,5	815	845	–	975	–	885	915	–	1045	–	140	740	730	995	1000	–	1100	–	995	1000	–	1050	–	850	1050	735	935	670	G 3	172	155	–	175	_
2GP(E) EVM10 5N/2,2	–	845	–	975	–	–	915	–	1045	–	140	–	770	–	1000	–	1100	–	–	1000	–	1050	–	850	1050	735	935	670	G 3	–	168	–	193	–
2GP(E) EVM10 6N/2,2	–	845	–	975	–	–	915	–	1045	–	140	–	800	–	1000	–	1100	–	–	1000	–	1050	–	850	1050	735	935	670	G 3	–	178	–	198	–
2GP(E) EVM10 8N/3	–	845	–	975	–	–	915	–	1045	–	140	–	910	–	1000	–	1100	–	–	1000	–	1050	–	850	1050	735	935	670	G 3	–	192	–	212	–
2GP(E) EVM10 10N/4	–	845	–	975	–	–	915	–	1045	–	140	–	970	–	1000	–	1100	–	–	1000	–	1050	–	850	1050	735	935	670	G 3	–	212	–	237	–
2GP(E) EVM10 11N/4	–	845	–	975	–	–	915	–	1045	–	140	–	1000	–	1000	–	1100	–	–	1000	–	1050	–	850	1050	735	935	670	G 3	–	219	–	239	–
2GP(E) EVM18 3F/3	–	915	–	1045	–	–	1045	–	1175	–	150	–	790	–	1050	–	1150	–	–	1050	–	1150	–	1125	1370	905	1150	690	DN 100	–	263	–	283	–
2GP(E) EVM18 4F/4	–	915	–	1045	–	–	1045	–	1175	–	150	–	840	–	1050	–	1150	–	–	1050	–	1150	–	1125	1370	905	1150	390	DN 100	–	289	–	314	–
2GP(E) EVM18 5F/5,5	–	915	–	1045	–	–	1045	–	1175	–	150	–	955	–	1050	–	1150	–	–	1050	–	1150	–	1125	1370	905	1150	390	DN 100	–	348	–	383	–
2GP(E) EVM18 6F/5,5	–	915	–	1045	–	–	1045	–	1175	–	150	–	995	–	1050	–	1150	–	–	1050	–	1150	–	1125	1370	905	1150	390	DN 100	–	357	–	392	–
2GP(E) EVM18 7F/7,5	–	915	975	1045	1045	–	1045	1105	1175	1175	150	–	1035	–	1050	1145	1150	1350	–	1050	1195	1150	1350	1125	1370	905	1150	690	DN 100	–	378	388	413	413

SIN. PH. = Monofase
D.O.L. = Trifase Avviamento diretto
T.S.D. = Trifase Avviamento stella - triangolo
I = Comando ad inverter

2GPE SA FREKVENTNOM REGULACIJOM

MIJERNA SKICA - DIMENZIJE



MODELLO	L				H	H1	H2				P	P1	L1	DNA	DNM	PESO kg				
	D.O.L.	T.S.D.	I.D.O.L.	I.S.D.		D.O.L./T.S.D. I.D.O.L./I.S.D.	D.O.L	T.S.D.	I.D.O.L.	I.S.D.						D.O.L.	T.S.D.	I.D.O.L.	I.S.D.
2GP(E) EVM32 2-0F/4	1015	-	1165	-	190	895	1025	-	1275	-	1340	1105	1050	DN 125	DN 100	403	-	433	-
2GP(E) EVM32 3-0F/5,5	1015	-	1165	-	190	1030	1025	-	1275	-	1340	1105	1050	DN 125	DN 100	462	-	502	-
2GP(E) EVM32 4-0F/7,5	1015	1095	1165	1165	190	1075	1025	1325	1275	1475	1340	1105	1050	DN 125	DN 100	482	492	522	522
2GP(E) EVM32 5-3F/11	1015	1095	1215	1215	190	1390	1275	1325	1475	1475	1340	1105	1050	DN 125	DN 100	602	612	662	662
2GP(E) EVM32 6-3F/11	1015	1095	1215	1215	190	1435	1275	1325	1475	1475	1340	1105	1050	DN 125	DN 100	602	612	662	672
2GP(E) EVM45 2-2F/5,5	1085	-	1215	-	225	1075	1175	-	1375	-	1470	1195	1050	DN 150	DN 125	494	-	526	-
2GP(E) EVM45 2-0F/7,5	1085	1145	1215	1215	225	1075	1175	1375	1375	1575	1470	1195	1050	DN 150	DN 125	504	513	536	536
2GP(E) EVM45 3-2F/11	1085	1145	1215	1265	225	1410	1225	1375	1575	1575	1470	1195	1050	DN 150	DN 125	524	621	669	672
2GP(E) EVM45 3-0F/11	1085	1145	1265	1265	225	1410	1225	1375	1575	1575	1470	1195	1050	DN 150	DN 125	524	621	669	672
2GP(E) EVM45 4-2F/15	-	1145	-	1265	225	1480	-	1475	-	1575	1470	1195	1050	DN 150	DN 125	-	639	-	690
2GP(E) EVM45 4-0F/15	-	1145	-	1265	225	1480	-	1475	-	1575	1470	1195	1050	DN 150	DN 125	-	639	-	690
2GP(E) EVM45 5-2F/18,5	-	1145	-	1265	225	1600	-	1625	-	1775	1470	1195	1050	DN 150	DN 125	-	719	-	777
2GP(E) EVM45 5-0F/18,5	-	1145	-	1265	225	1600	-	1625	-	1775	1470	1195	1050	DN 150	DN 125	-	719	-	777
2GP(E) EVM45 6-2F/22	-	1165	-	1365	225	1725	-	1625	-	1975	1470	1195	1050	DN 150	DN 125	-	799	-	1022
2GP(E) EVM45 6-0F/22	-	1165	-	1365	225	1725	-	1625	-	1975	1470	1195	1050	DN 150	DN 125	-	799	-	1022
2GP(E) EVM64 2-2F/7,5	-	1005	1100	1100	225	1075	1175	1375	1375	1575	1385	1115	1050	DN 150	DN 125	510	520	550	550
2GP(E) EVM64 2-0F/11	-	1005	1130	1150	225	1340	1225	1375	1575	1575	1385	1115	1050	DN 150	DN 125	616	626	676	676
2GP(E) EVM64 3-2F/15	-	1005	-	1150	225	1410	-	1475	-	1575	1385	1115	1050	DN 150	DN 125	-	680	-	710
2GP(E) EVM64 3-1F/15	-	1005	-	1150	225	1410	-	1475	-	1575	1385	1115	1050	DN 150	DN 125	-	652	-	712
2GP(E) EVM64 4-2F/18,5	-	1005	-	1150	225	1525	-	1625	-	1775	1385	1115	1050	DN 150	DN 125	-	728	-	758

SIN. PH. = Monofase
D.O.L. = Trifase Avviamento diretto
T.S.D. = Trifase Avviamento stella - triangolo
I = Comando ad inverter