

DISTRELMA

EFFICIENT PUMPING SYSTEMS

VERTICAL MULTISTAGE PUMPS

DMV
SERIES

FLOW RANGE
48 m³/h
18 Bar



HIGH EFFICIENCY MOTOR IE3 - CLASS F

PRESENTATION

VERTICAL MULTISTAGE PUMPS

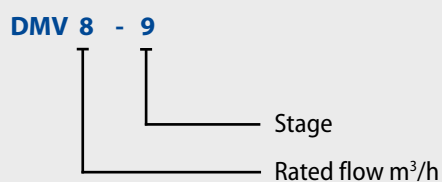
DMV a kind of vertical non-self priming vertical multistage pump, with Victaulic coupling with equally sized suction and discharge ports. IE3 high efficient motor, with protection IP55 class F, pump case with anti-corrosive coating, Impeller in techno-polimer, suction and discharge port in cast iron G20 thread, quality NSK bearing, wear resistance mechanical seal for easy maintenance. This kind of pump have different pump sizes and various numbers of stages to provide the flow and the pressure required.

APPLICATION

DMV pumps is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure.

- Water supply and pressure boosting: Pressure boosting in buildings, hotels, residential complexes Pressure boosterstations, supply of water networks Pressure boosting for industrial water supply.
- Light industry: Washing and cleaning systems, Car washing facilities, Fire fighting systems, Process water systems, Machine tools (cooling lubricants).
- Heating, Ventilation and Air-Conditioning: Boilers, Induction heating, Heat exchangers, Refrigerators, Cooling towers and systems, Temperature control systems.
- Irrigation and Agriculture: Greenhouses, Sprinkler irrigation, Field irrigation (flooding).
- Water Treatment: Water softeners and de-mineralization, Reverse Osmosis systems, Distillation systems, Filtration, Ultra-filtration systems.

DEFINITION OF MODEL



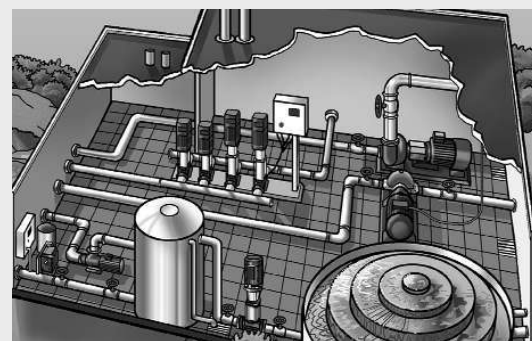
MOTOR

High efficient IE3 motor, with protection IP55 class F, two-pole induction motor (n=2850 r.p.m)

- Protection class: IP55
- Insulation class: F
- Standard voltage: 3x380V-415V

USING LIMITS

- Liquid temperature: -10°C and +120°C
- Ambient temperature: up to +50°C
- Max. working pressure : 25 bar
- Continuous service S1



MATERIAL SPECIFICATION

Description	Material
Motor	IP55 Class F IE3
Coupling	Cast iron
Discharge Body	Cast iron
Cover	Stainless Steel
Release Valve	Brass
Discharge	Cast iron
Bolt	Steel
Seal Cover	Cast iron
Mechanical Seal	SiC/Carbon/SS304
Suction	Cast iron
Pump Shaft	Stainless Steel
Diffuser Top Cover	Technopolimer
Pump Cover	Stainless Steel
Through Bolt	Stainless Steel
Diffuser Cover/Ring	Technopolimer/SS304
Diffuser /Ring	Technopolimer/SS304
Impeller	Technopolimer
Impeller Nut	Galvanized Steel
O-ring	Rubber
Suction Body	Cast iron

STAINLESS STEEL BODY

made of stainless steel is wear-resistant and has a long service life



STAINLESS STEEL SHAFT

Stainless steel shaft AISI 304, and high precision rotor



PPO IMPELLER

PPO high temperature, resistant impeller, wear resistance, compression resistance, large flow, high lift



CAST IRON PLATE

Suction and discharge port in cast iron G20 thread, pump case with anti-corrosie coating



QUALITY BEARING

Ensure motor service life, high strength carbon steel quality, dust-proof effect

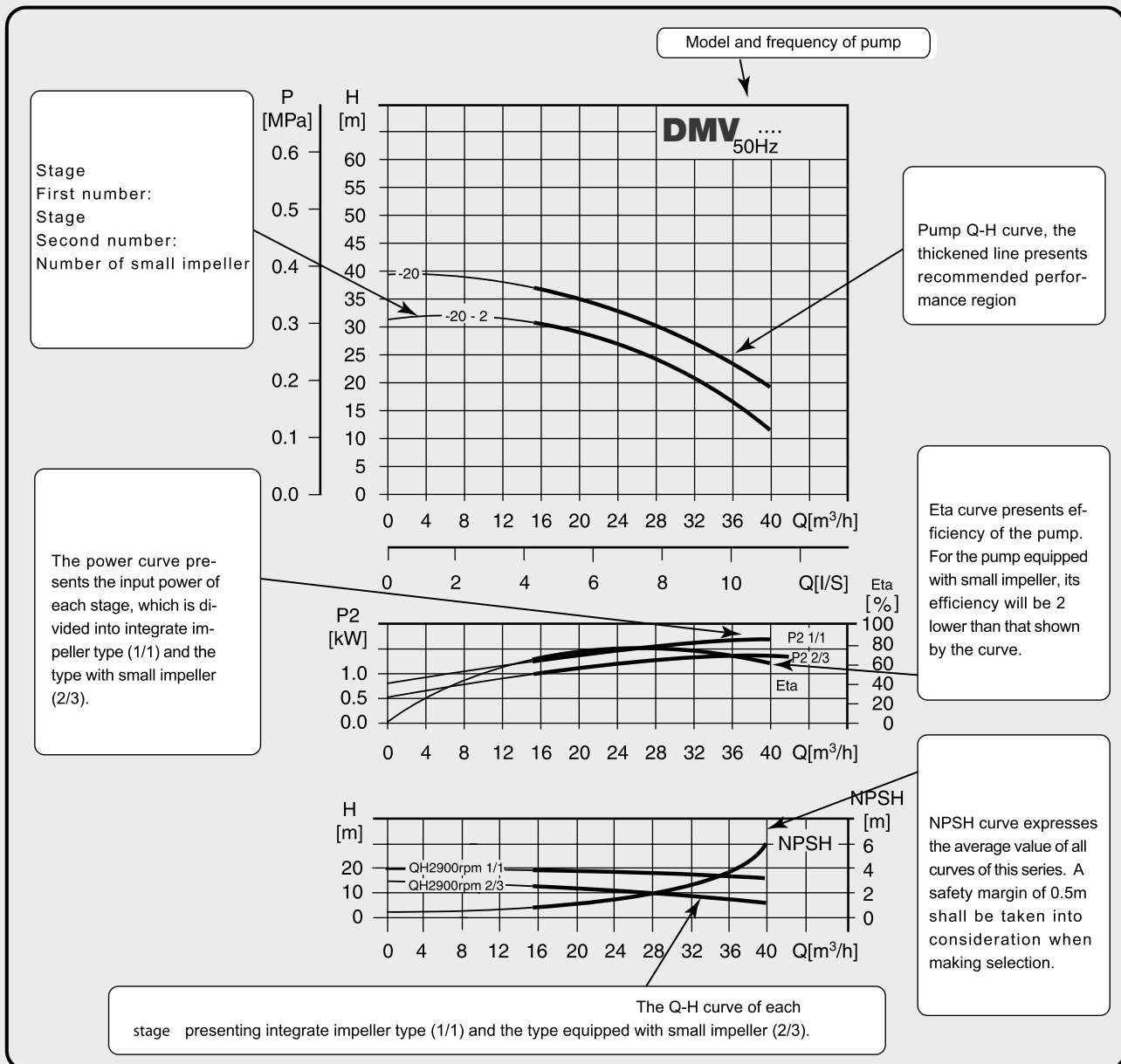


COPPER COILS

Cold rolled silicon steel sheet with low temperature rise, high efficiency, sufficient power and long service life



The performance curve applies to the DMV



Conditions for the performance curves:

1. All the performance curves are based on the measured values of a motor 3x constant speed of 2900 rpm.
2. Curve tolerance in conformity with
3. Measurement is done with 20 °C air-free water, kinematic viscosity of
4. The operation of pump shall refer to the performance region indicated by the to prevent overheating due to too small flow rate

PERFORMANCE TABLE - DMV

DMV 4

DN 25x25

MODEL	MOTOR		Q (m3/h)	0	1.5	2	2.5	3	3.5	4	5	5.5	6	6.5	7
	(kW)	(hp)													
DMV 4-7	1,1	1,5	H (m)	61	55	53	52	49	47	44	38	34	30	27	22
DMV 4-9	1,5	2		78	72	69	67	64	60	56	49	44	40	34	28
DMV 4-13	2,2	3		113	104	100	97	92	87	81	70	63	57	49	40
DMV 4-16	3	4		139	128	123	118	113	107	100	87	79	70	60	50

DMV 6

DN 32x32

MODEL	MOTOR		Q (m3/h)	0	2	3	4	5	5.5	6	7	7.5	8	9	9.5
	(kW)	(hp)													
DMV 6-5	1,1	1,5	H (m)	45	40	38	34	30	29	27	22	20	18	11	7
DMV 6-8	1,5	2		72	64	60	54	48	45	42	35	30	27	18	11
DMV 6-11	2,2	3		98	88	81	75	67	62	58	48	42	37	24	15
DMV 6-15	3	4		133	120	111	102	91	85	79	65	58	50	32	20

DMV 8

DN 40x40

MODEL	MOTOR		Q (m3/h)	0	2	3	5	6	7	8	9	10	11	12	13
	(kW)	(hp)													
DMV 8-4	1,1	1,5	H (m)	45	35	33	30	28	26	22	20	17	13	9	5
DMV 8-7	1,5	2		71	61	59	52	49	44	39	34	29	23	16	9
DMV 8-9	2,2	3		83	78	76	67	61	57	50	44	37	29	21	11
DMV 8-12	3	4		110	104	100	89	82	75	67	58	49	39	28	15
DMV 8-16	4	5,5		147	139	133	118	110	100	90	78	66	52	37	20

DMV 12

DN 50x50

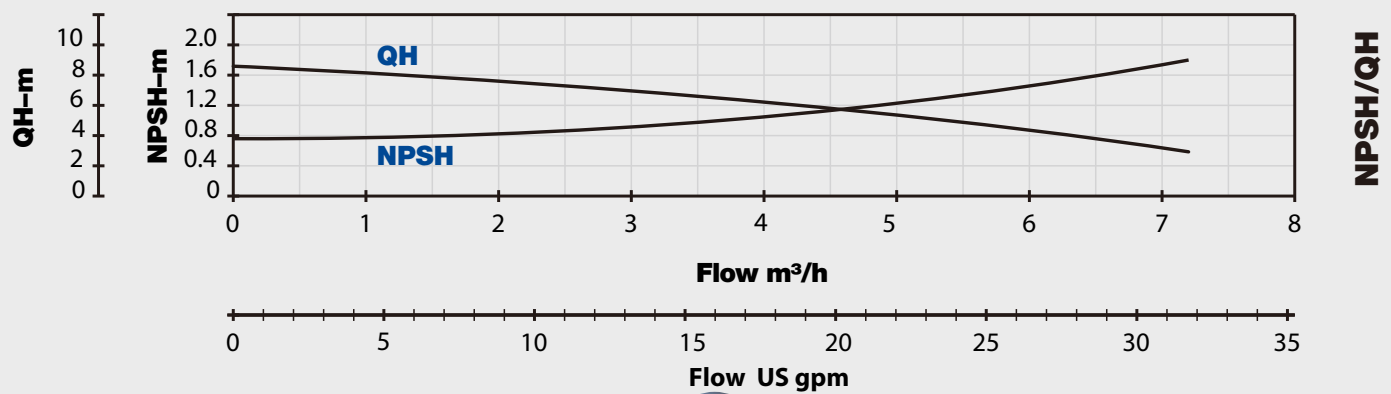
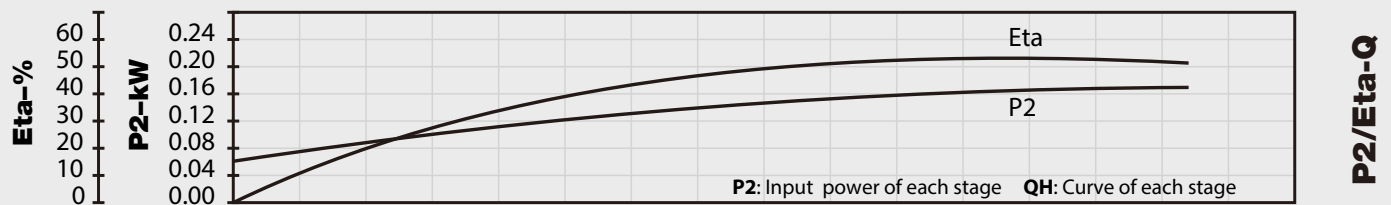
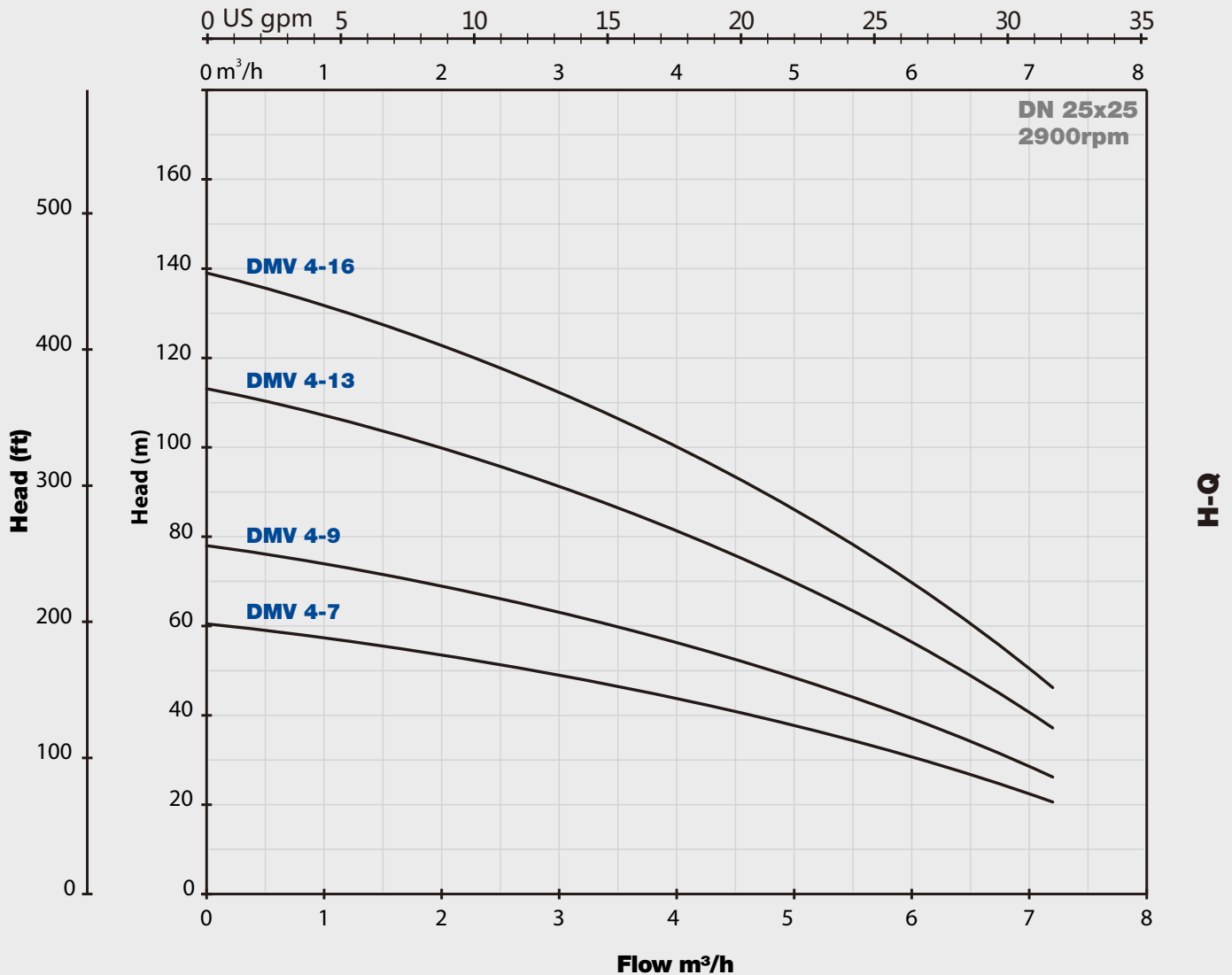
MODEL	MOTOR		Q (m3/h)	0	2	4	6	8	10	12	14	15	16	17	18
	(kW)	(hp)													
DMV 12-3	1,1	1,5	H (m)	31	29	28	26	23	20	14	12	10	8	5	2
DMV 12-5	1,5	2		52	49	47	42	38	33	27	20	17	13	9	3
DMV 12-7	2,2	3		73	69	64	60	54	47	38	29	23	17	12	5
DMV 12-9	3	4		93	88	83	77	69	59	49	37	29	22	16	6
DMV 12-12	4	5.5		122	116	109	100	90	77	63	48	39	29	20	8
DMV 12-17	5,5	7,5		176	167	157	145	130	112	90	68	55	41	30	11

DMV 30

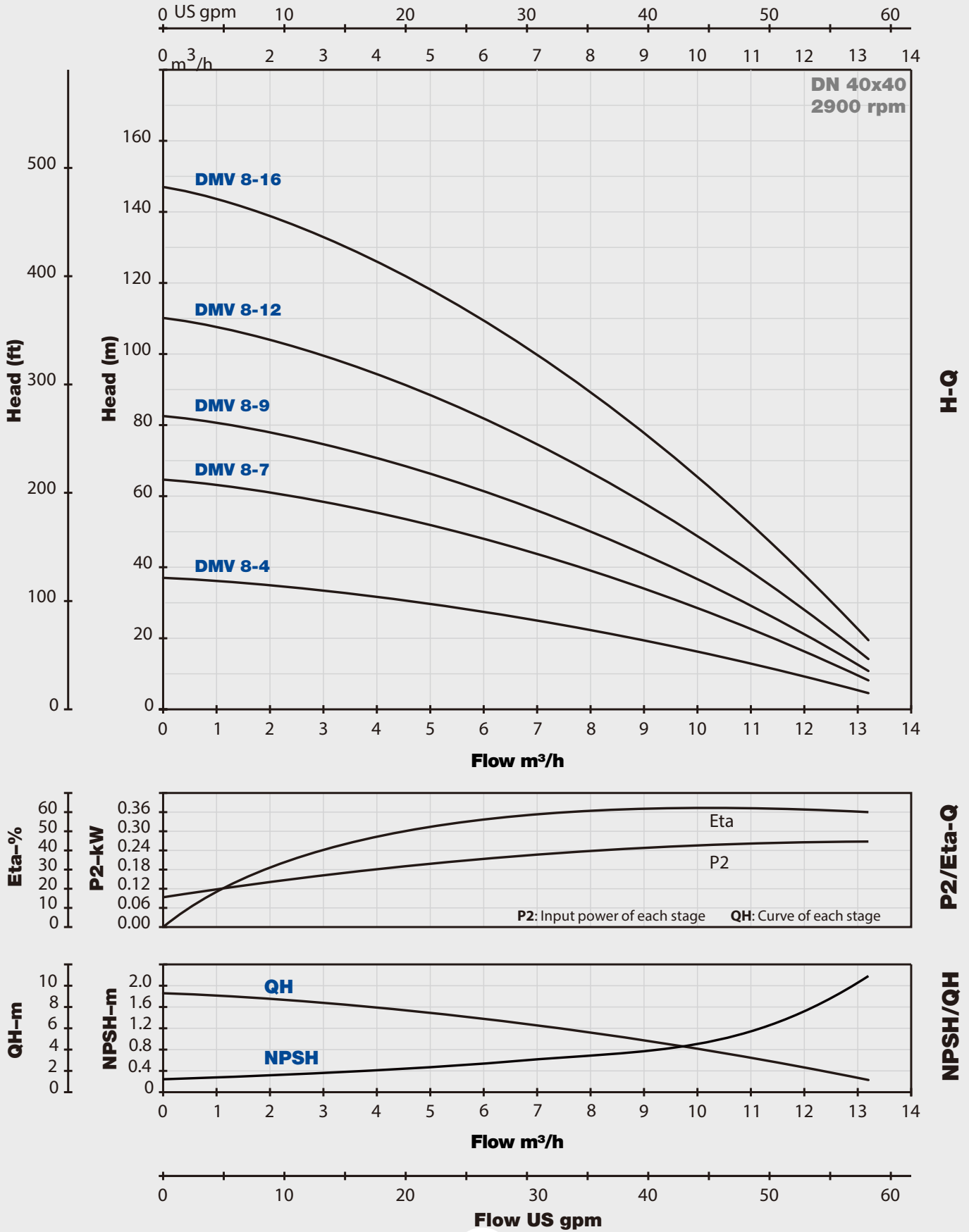
DN 65x65

MODEL	MOTOR		Q (m3/h)	0	5	10	15	20	25	30	33	35	40	43	45
	(kW)	(hp)													
DMV 30-7	7,5	10	H (m)	104	100	97	89	82	73	64	58	52	38	29	20
DMV 30-9	9,2	12		133	130	123	115	106	94	82	73	67	49	38	26
DMV 30-11	11	15		163	158	150	140	128	115	99	89	82	60	45	31

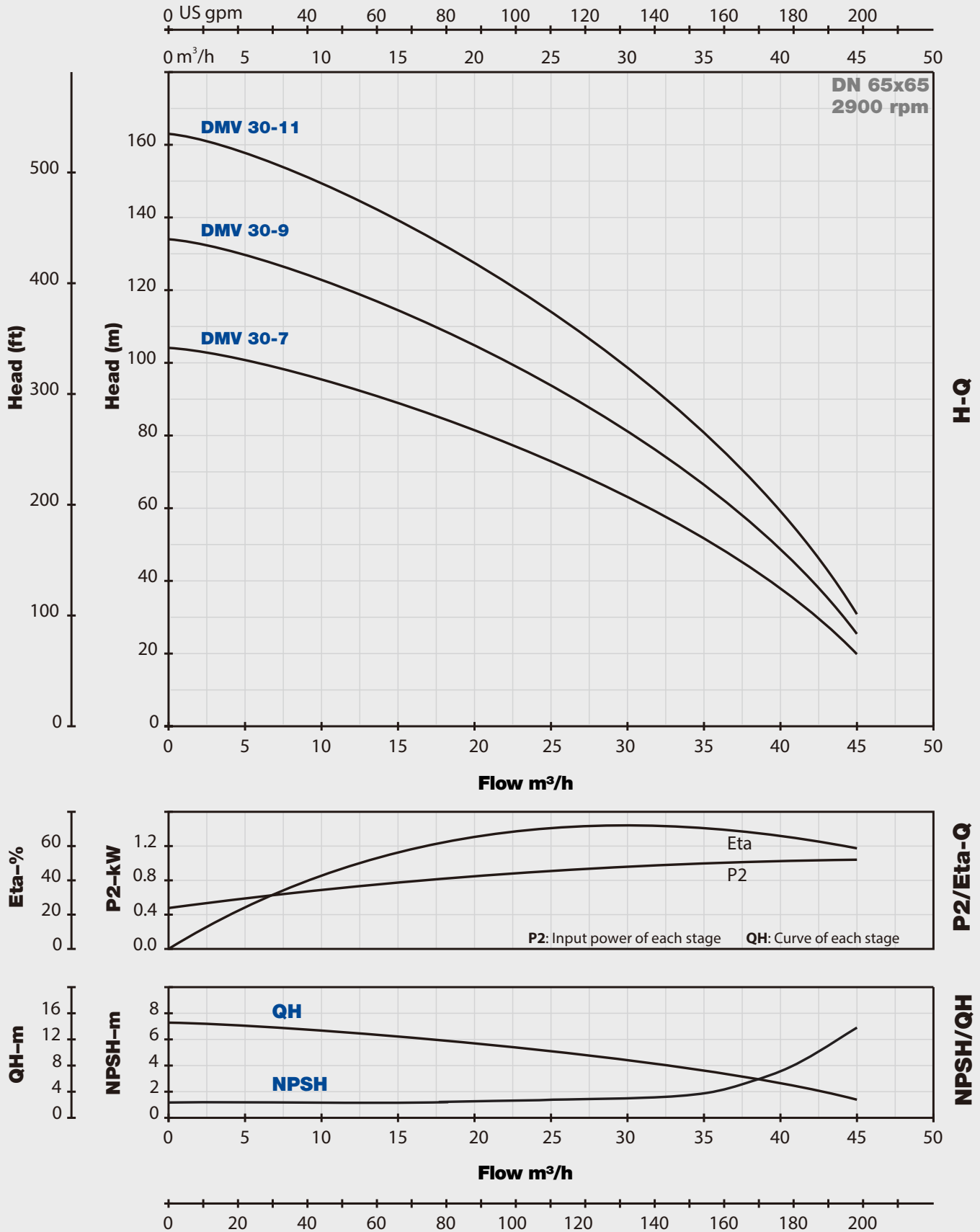
PERFORMANCE CURVES - DMV 4



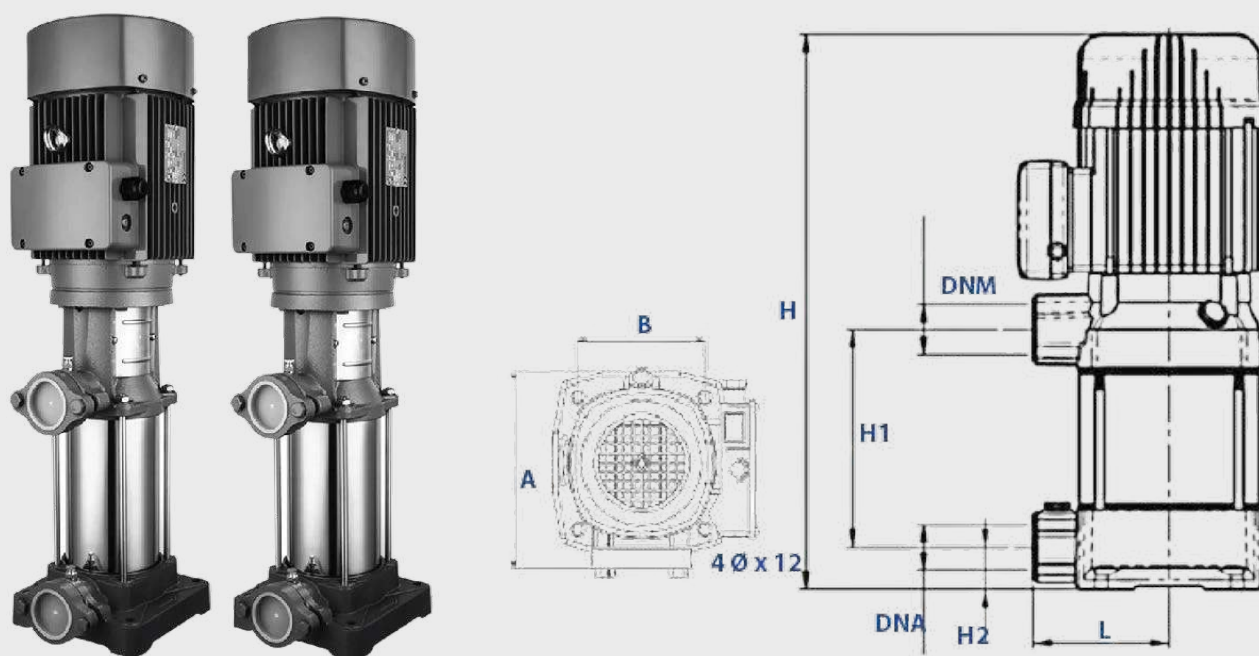
PERFORMANCE CURVES - DMV 8



PERFORMANCE CURVES - DMV 30



DIMENSIONS AND WEIGHT



MODEL	MOTOR		DIMENSIONS (mm)								WEIGHT (Kg)	
	(kW)	(hp)	DNA x DNM	H	H 1	H 2	L	A	B	4 x Ø	1~	3~
DMV 4-7	1,1	1,5	DN 25x25	720	261.5	45.5	141	202	165	12		
DMV 4-9	2,2	3		790	331.5	45.5	141	202	165	12	8	7
DMV 4-13	4	5,5		930	471.5	45.5	141	202	165	12	20	18
DMV 4-16	4	5,5		1082	576.5	45.5	141	202	165	12	30	27
DMV 6-5	5,5	7,5	DN 32x32	650	191.5	45.5	141	202	165	12	41	37
DMV 6-8	5,5	7,5		755	296.5	45.5	141	202	165	12	50	45
DMV 6-11	7,5	10		860	401.5	45.5	141	202	165	12	61	55
DMV 6-15	7,5	10		1047	541.5	45.5	141	202	165	12	71	65
DMV 8-4	11	15	DN 40x40	615	156.5	45.5	141	202	165	12	82	75
DMV 8-7	11	15		720	261.5	45.5	141	202	165	12	103	95
DMV 8-9	15	20		790	331.5	45.5	141	202	165	12	124	114
DMV 8-12	15	20		942	436.5	45.5	141	202	165	12	145	133
DMV 8-16	18,5	25		1082	576.5	45.5	141	202	165	12	177	162
DMV 12-3	11	15	DN 50x50	580	121.5	45.5	141	202	165	12	82	75
DMV 12-5	11	15		650	191.5	45.5	141	202	165	12	103	95
DMV 12-7	15	20		720	261.5	45.5	141	202	165	12	124	114
DMV 12-9	15	20		837	331.5	45.5	141	202	165	12	145	133
DMV 12-12	18,5	25		942	436.5	45.5	141	202	165	12	177	162
DMV 12-17	11	15		1167	611.5	45.5	141	202	165	12	82	75
DMV 30-7	11	15	DN 65x65	1046	416	62	170	230	187	12	103	95
DMV 30-9	15	20		1153	523	62	170	230	187	12	124	114
DMV 30-11	15	20		1260	630	62	170	230	187	12	145	133