

DHI

MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

The DHI series horizontal multistage centrifugal pumps offer the following benefits:

- High hydraulic pressure and flow rate performance
- Minimum electrical energy consumption
- Extremely silent operation

• HYDRAULIC IN AISI 316 STAINLESS STEEL



Applications

- Aggressive liquids transfer
- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis
- Booster systems
- Washing systems, garden irrigation, fountains

Usage limitations

- Types of pumped liquid: clear, non-explosive with no suspended solids or abrasive material
- Maximum liquid temperature 90°C
- Maximum recommended suction height 6 m with foot valve (with max. liquid temp. at 50°C)
- Maximum operating pressure 6 bar

Motor

- Enclosed, externally ventilated
- Level of protection IP 54
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use

DESIGN FEATURES

Component	Material
1 Pump casing	AISI 316 Stainless steel
2 Motor bracket	Die-cast aluminium
3 Impeller	X CrNiMo 17-12-03 (AISI 316) Stainless steel
4 Intermediate chamber	X CrNiMo 17-12-03 (AISI 316) Stainless steel
5 Motor shaft	X CrNiMo 17-12-03 (AISI 316) Stainless steel
6 Mechanical seal	Graphite
7 Counterface	Ceramic
8 Seal holder plate	X CrNiMo 17-12-03 (AISI 316) Stainless steel
O'ring	EPDM rubber

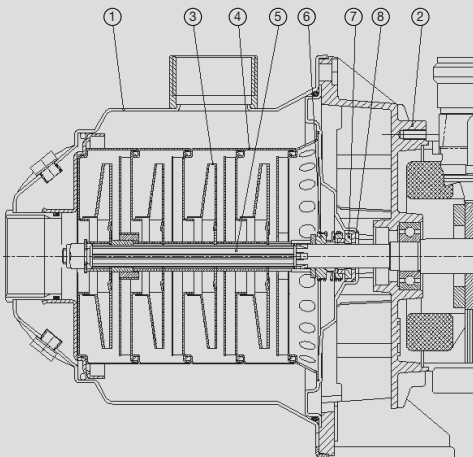
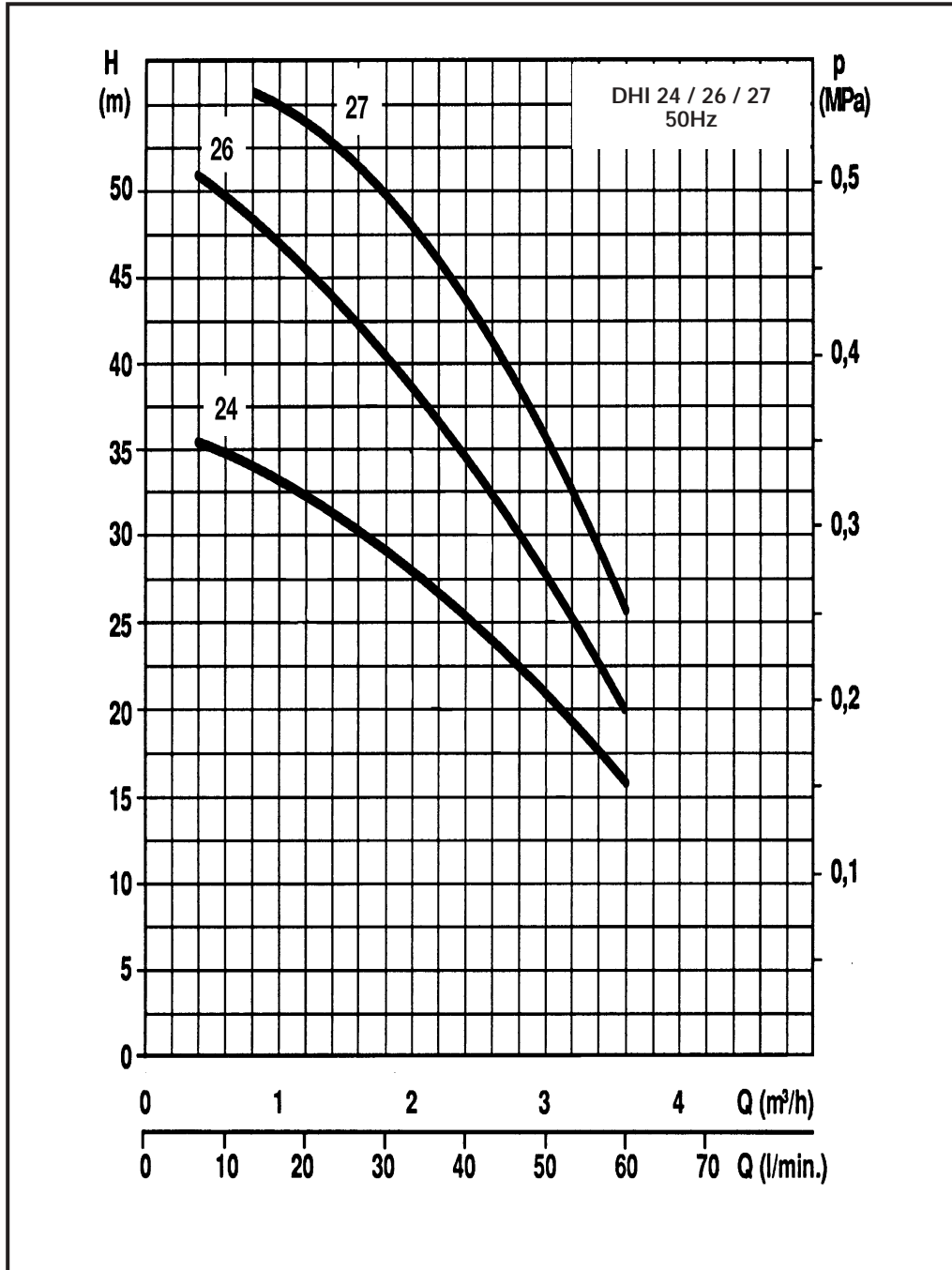


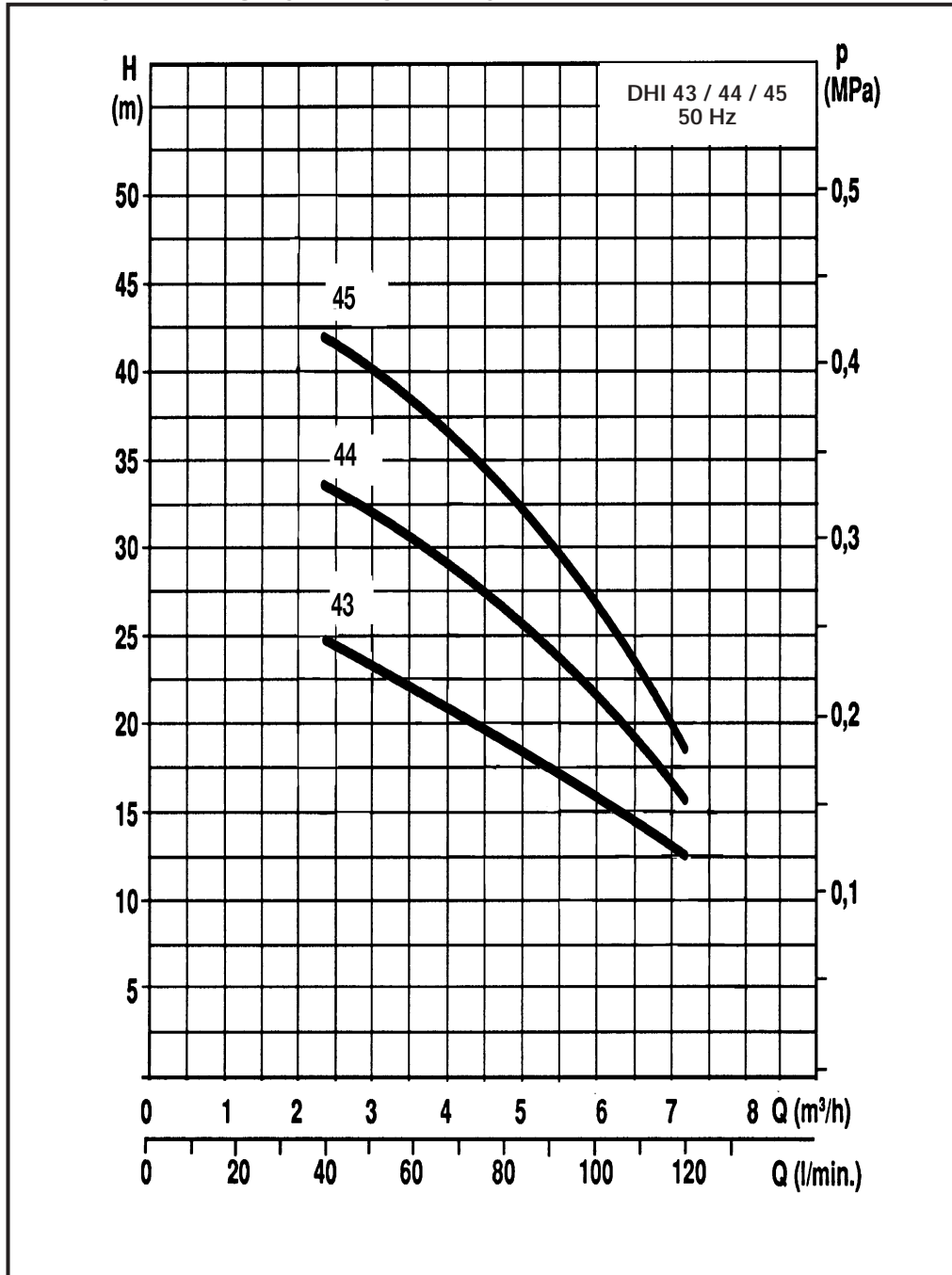
TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Nominal Power		Absorbed Power		VOLTAGE	Amp.	µF.	Q	Discharge head in meters					
		HP	kW	HP	kW					10	20	30	40	50	60
N4221000 N4221070	DHI 24 M DHI 24 T	0,75	0,55	1,00	0,75	1 ~ 230 V 3 ~ 230 ÷ 400 V	3,4 1,4	16	Q m³/h	0,6	1,2	1,8	2,4	3	3,6
N4221010 N4221080	DHI 26 M DHI 26 T	1,00	0,75	1,30	0,95	1 ~ 230 V 3 ~ 230 ÷ 400 V	4,3 2,0	20	Discharge head in meters	35	32	28	25	20	16
N4221020 N4221090	DHI 27 M DHI 27 T	1,25	0,9	1,65	1,20	1 ~ 230 V 3 ~ 230 ÷ 400 V	5,3 2,4	32		52	46	40	34	27	19
										63	57	50	43	35	26

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Nominal Power		Absorbed Power		VOLTAGE	Amp.	μF.	Q L/1' m³/h	40	60	80	100	120
		HP	kW	HP	kW					2,4	3,6	4,8	6	7,2
N4221030	DHI 43 M	0,75	0,55	1,00	0,75	1 ~ 230 V	3,5	16	Discharge head in meters	24	22	18	16	12
N4221100	DHI 43 T					3 ~ 230 ÷ 400 V	1,6			24	22	18	16	12
N4221040	DHI 44 M	1,00	0,75	1,36	1,00	1 ~ 230 V	4,6	20		33	31	27	22	16
N4221110	DHI 44 T					3 ~ 230 ÷ 400 V	2,0			33	31	27	22	16
N4221050	DHI 45 M	1,25	0,9	1,70	1,25	1 ~ 230 V	5,9	31,5		42	36	33	27	18
N4221060	DHI 45 T					3 ~ 230 ÷ 400 V	2,5			42	36	33	27	18

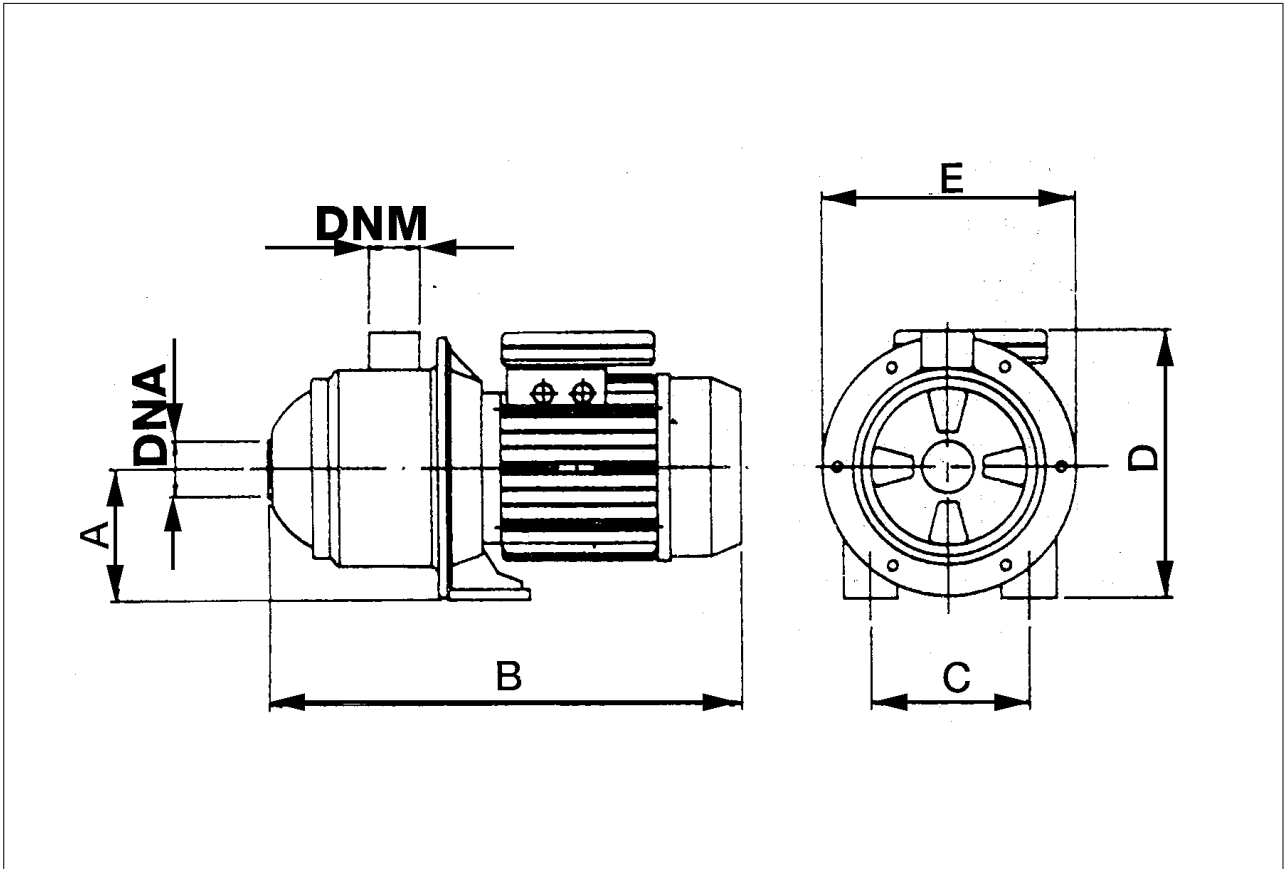


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.							Net Weight kg
	A ₁	B ₁	C ₁	D ₁	E ₁	DNA	DNM	
DHI 24	105	400	141	235	205	1"1/4	1"1/4	11,3
DHI 26	105	430	141	235	205	1"1/4	1"1/4	12,6
DHI 27	105	460	141	235	205	1"1/4	1"1/4	11,3
DHI 43	105	400	141	235	205	1"1/4	1"1/4	12,3
DHI 44	105	430	141	235	205	1"1/4	1"1/4	13,6
DHI 45	105	460	141	235	205	1"1/4	1"1/4	15,8