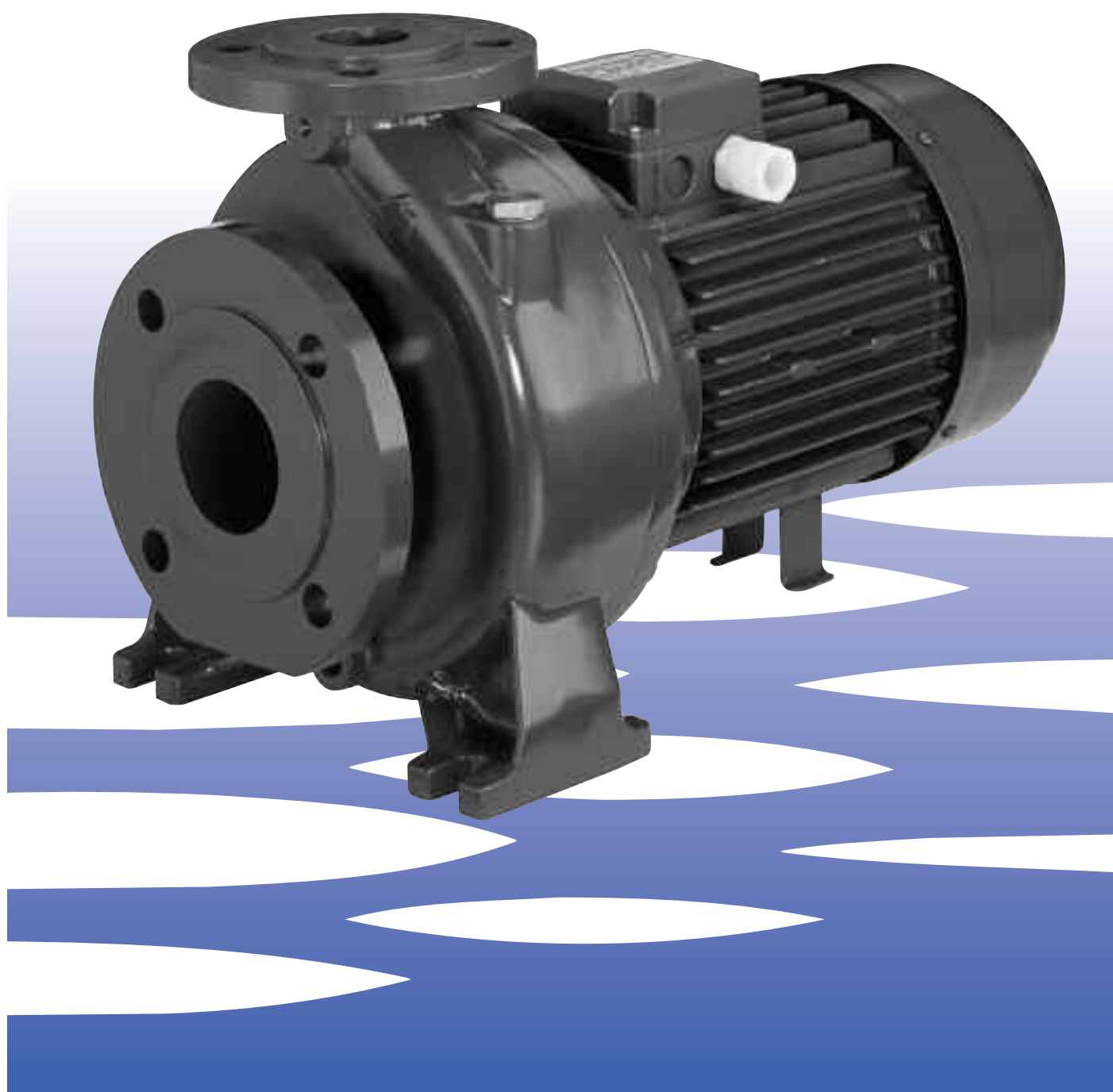


MD-MMD

MONOBLOCK CENTRIFUGAL PUMPS

ELETTROPOMPE CENTRIFUGHE MONOBLOCCO



MD-MMD

Close coupled centrifugal pumps for medium and big capacity manufactured according to EN 733 (ex DIN 24255) standard.

APPLICATION

- **Civil/Domestic Uses:**
Water supply systems
Pressure boosting
Air-conditioning and heating
- **Agriculture:**
Sprinkler or flow irrigation
- **Industrial:**
Water supply systems
Washing plants
Transfer of non-aggressive liquids

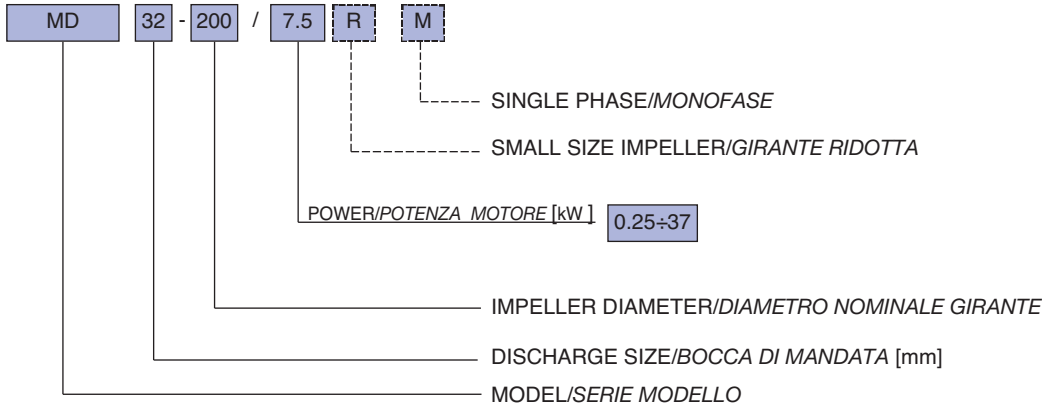
TECHNICAL CHARACTERISTICS

Back pull-out construction permits assembly and replacement of the impeller, shaft and bearings without removing the casing.

The sturdy structure ensures maximum resistance to the possible misalignment and distortion of pipes.

IDENTIFICATIONAL CODE

Example: MD-MMD



MD-MMD

Elettropompe centrifughe monoblocco per medie e grandi portate costruite rispettando le norme EN 733 (ex DIN 24255).

APPLICAZIONI

- **Civili:**
Sollevamento acqua
Impianti di pressurizzazione
Condizionamento/Riscaldamento
- **Agricoltura:**
Irrigazione a pioggia o a scorrimento
- **Industriali:**
Movimentazione acqua
Impianti lavaggio
Travaso liquidi non aggressivi

CARATTERISTICHE TECNICHE

La particolare costruzione permette il disassemblaggio, la manutenzione del motore e la sostituzione della girante senza dover rimuovere il corpo pompa dall'impianto.

La robusta struttura consente la massima resistenza al possibile non allineamento delle tubature di aspirazione e mandata.

SIGLA IDENTIFICATIVA

Esempio: MD-MMD

SPECIFICATIONS

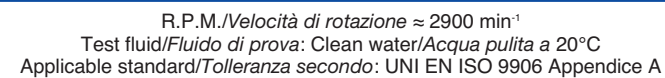
PUMP/POMPA		
Liquid Handled/Liquido	Type of liquid/Tipo di liquido	Clean water/Acqua pulita
	Max temperature/Temperatura massima [°C]	0÷90° (MD); -10° +130° (MMD)
Flanges/Flange		UNI 2236 - UNI 2223-29 PN 10
Counter flanges (on request)/Controflange (su richiesta)		UNI 2247
Costruction/Costruzione	Impeller/Girante	Closed centrifugal type/Girante chiusa
	Shaft seal Type/Tipo tenuta	Mechanical seal/Tenuta meccanica
	Bearing/Cuscinetti	Sealed ball bearing/Cuscinetti
Pipe connection/Conessioni	Suction/Aspirazione	Flange to DIN 2532 (50 mm-65 mm-80 mm)
	Discharge/Mandata	Flange to DIN 2532 (32 mm-40 mm-50 mm-65 mm)
Material/Materiali	Casing/Corpo pompa	Cast iron/Ghisa
	Impeller/Girante	Cast iron/Ghisa - Bronze/Bronzo
	Casing cover/Supporto	Cast iron/Ghisa
	Shaft seal/Tenuta meccanica	Ceramic/Carbon/NBR (MD) SiC/SiC/EPDM (MMD)
	Shaft/Albero motore	AISI 304 (Part in contact with liquid)/AISI 406 per MMD
	Bracket/Motore	Cast iron/Ghisa
Applicable standard of test/Standard di prova		ISO 9906 Annex A

MOTOR/MOTORE			
Type/Tipo	Electric - TEFC		
	Single-Phase/Monofase	Three-Phase/Trifase	
N° of Poles/N° di poli	2(MD)	2(MD-MMD)	4(MMD)
Rotation speed/R.P.M. [min ⁻¹]	≈2900	≈2900	≈1400 ÷ 1450
Insulation class/Classe isolamento	F		
Protection degree/Grado di protezione	IP 55		
Power rating/Potenze [kW] [HP]	1.1 ÷ 2.2	1.1 ÷ 37	0.25 ÷ 37
	1.5 ÷ 3	1.5 ÷ 55	0.33 ÷ 55
Frequency/Frequenza [Hz]	50		
Voltage/Voltaggio [V]	230 ± 10%	230/400 ± 10% (up to 4kW) 400/690 ± 10% (5.5 kW and above)	
Capacitor/Condensatore	Built/Incorporato	–	
Overload protection/Protezione	Built/Incorporato	Provided by the user/A cura dell'utente	
Casing material/Materiale corpo pompa	Aluminium/Alluminio		
Base material/Motor support Materiale base/Supporto motore	Aluminium/Alluminio - Steel/Acciaio		
Dimension of cable entry/Entrata cavo	PG 13.5 - PG 16 - PG 21		

SELECTION CHART/CAMPO DI IMPIEGO

2 POLES/2 POLI

2 POLES/2 POLI

[illegible]

* Single phase version available/*Versione disponibile anche monofase*

Model/Modello	Motor/Motore		Q=Capacity/Portata																
			l/min	0	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500		
	m³/h	0	48	60	75	90	105	120	135	150	165	180	210	240	270				
			kW	HP	H=Total head/Prevalenza totale [m]														
MMD 65-250/22	22	30	65	64	63	61	57	53	-	-	-	-	-	-	-	-			
MMD 65-250/30	30	40	78	77	76	74	70	66	60	53*	-	-	-	-	-	-			
MMD 65-250/37	37	55	86.5	86	85	83	79	75	70	64*	-	-	-	-	-	-			
MMD 80-160/10	10	13.6	24.8	-	24	23	22	21	19.5	18	16.5	15*	-	-	-	-			
MMD 80-160/12.5	12.5	17	29.5	-	28.5	28	27	26	24.5	23	21.5	20	18.5*	-	-	-			
MMD 80-160/15	15	20	35	-	34	33.3	32.5	31.8	31	29	27.5	26	24.3	-	-	-			
MMD 80-200/18.5	18.5	25	42.2	-	42	41	40	38.5	37	35	33	30.5	28	-	-	-			
MMD 80-200/22	22	30	47.2	-	47	46.5	45.5	44.5	43	41	39	37	34	-	-	-			
MMD 80-200/30	30	40	55.5	-	55	54	53	52	51	49	47	45	43	37	-	-			
MMD 80-200/37	37	55	57.5	-	57	56.8	56.5	56	55	54	52.5	51	48	42	-	-			
MMD 80-250/37	37	55	68.5	-	-	67.5	67	66.2	65	63.3	61	58.3	55	47	-	-			
MMD 100-200/22	22	30	40	-	-	-	38.5	38	37	36	34.5	33	31.5	28	24	-			
MMD 100-200/30	30	40	48	-	-	-	47	46.3	45.6	44.8	43.7	42.4	41	38	34.6*	30**			
MMD 100-200/37	37	55	54.2	-	-	-	53.7	53.3	53	52	51	50	49	46	43*	38**			

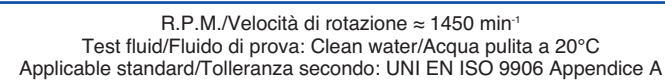
* Suction head has not to exceed 2 m/ *L'altezza manometrica di aspirazione non deve superare i 2 m.*

** Positive 1 m suction head/Aspirazione con battente positivo di 1 m.

SELECTION CHART/CAMPO DI IMPIEGO

4 POLES/4 POLI

4 POLES/4 POLI



Model/Modello	Motor/Motore		Q=Capacity/Portata																																
	l/min	0	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250			
	m³/h	0	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	21	24	27	30	33	36	39	42	48	54	60	66	72	78	84	90	105	120	135			
	kW	HP	H=Total head/Prevalenza totale [m]																																
MMD4 32-125/0.25 R	0.25	0.33	4.8	4.4	4	3.5	3	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-125/0.25	0.25	0.33	6.3	6.2	6.1	5.8	5.3	4.6	3.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-160/0.37	0.37	0.5	9.6	-	9.2	8.9	8.3	7.7	6.8	5.8	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-200/0.75	0.75	1.0	13.5	-	12.8	12.4	11.9	11.3	10.6	9.8	8.9	8	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-200/0.92	0.92	1.25	15	-	14.6	14.3	13.8	13.3	12.7	11.8	10.9	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-250/1.1	1.1	1.5	19	-	18.5	18	17.5	17	15.9	14.5	12.8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 32-250/1.5	1.5	2	22.5	-	22	21.6	21.2	20.5	19.4	18	16.5	15	13*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-125/0.25	0.25	0.33	4.8	-	-	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.9	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-125/0.37	0.37	0.5	6.8	-	-	6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-160/0.55	0.55	0.75	9.2	-	-	8.8	8.6	8.4	8.1	7.7	7.3	6.9	6.4	5.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-200/1.1 R	1.1	1.5	12.9	-	-	12.7	12.5	12.1	11.7	11.2	10.7	10.1	9.5	8.5	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-200/1.1	1.1	1.5	14.5	-	-	14.2	14	13.8	13.4	13	12.5	11.8	11	10.2	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-250/1.5	1.5	2	18.7	-	-	18.3	18	17.7	17.4	17	16.7	16.2	15.6	15	13.7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 40-250/2.2	2.2	3	23.2	-	-	22.5	22.3	22	21.7	21.4	21.2	20.5	20.2	19.5	18.5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-125/0.37	0.37	0.5	5.4	-	-	-	-	-	5.3	5.3	5.2	5.1	5	4.9	4.8	4.5	4.1	3.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-125/0.55	0.55	0.75	6.5	-	-	-	-	-	6.4	6.3	6.3	6.2	6.1	6	5.9	5.5	5.2	4.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-160/0.75	0.75	1.0	8.3	-	-	-	-	-	-	8.1	8	7.9	7.8	7.7	7.4	7	6.6	6	5.1	4	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-160/0.92	0.92	1.25	9.1	-	-	-	-	-	-	9	8.9	8.9	8.8	8.7	8.4	8.1	7.7	7.2	6.4	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-200/1.1	1.1	1.5	12.6	-	-	-	-	-	-	12.3	12.2	12	11.8	11.5	10.8	10	9	8	7	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-200/1.5	1.5	2	14.3	-	-	-	-	-	-	14.1	14	13.9	13.7	13.5	12.8	12	11.3	10.2	9	7.8	6.4	-	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-250/2.2	2.2	3	19.5	-	-	-	-	-	-	18.5	18.3	18.1	17.8	17.5	17	16.2	15.5	14.5	13.5	12.5	11.3	10	-	-	-	-	-	-	-	-	-	-	-		
MMD4 50-250/3	3	4	23	-	-	-	-	-	-	22.5	22.4	22.3	22.2	22	21.5	20.9	20.2	19.4	18.5	17.5	16.3	14.7	-	-	-	-	-	-	-	-	-	-	-		
MMD4 65-125/0.75	0.75	1.0	6	-	-	-	-	-	-	-	-	-	-	-	5.8	5.7	5.6	5.5	5.3	5.1	4.9	4.6	4.4	3.9	-	-	-	-	-	-	-	-			
MMD4 65-160/1.1	1.1	1.5	8.6	-	-	-	-	-	-	-	-	-	-	-	8.5	8.5	8.4	8.3	8.2	8.1	8	7.8	7.4	6.8	5.8	5	-	-	-	-	-	-			
MMD4 65-160/1.5	1.5	2	10.3	-	-	-	-	-	-	-	-	-	-	-	10.2	10.1	10	9.9	9.8	9.6	9.4	9.2	9	8.4	7.5	6.5	-	-	-	-	-	-			
MMD4 65-200/2.2	2.2	3	12.6	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	12.4	12.3	12.2	12.1	12	11.7	11.1	10.5	9.6	8.5	-	-	-	-	-			
MMD4 65-200/3	3	4	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	15.3	15.3	15.2	15.1	15	14.8	14.6	14.3	13.6	12.8	12	11	-	-	-	-			
MMD4 65-250/4	4	5.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	19.3	19.1	18.8	18.5	17.5	16.5	15.5	14	12.5	10.4	-	-	-	-			
MMD4 65-250/5.5	5.5	7.5	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	22.8	22.6	22.4	22.2	21.4	20.6	19.7	18.7	17.3	15.7	14	-	-			
MMD4 80-160/1.5	1.5	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	7.6	7.5	7.3	7	6.7	6.4	6.1	5.7	5.4	5	-	-			
MMD4 80-160/2.2	2.2	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	9.6	9.5	9.3	9	8.8	8.5	8.2	7.9	7.5	7.1	6	-			
MMD4 80-200/3	3	4	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11.9	11.7	11.5	11.3	11	10.5	10	9.5	9	8.5	7	-			
MMD4 80-200/4	4	5.5	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	14.3	14.2	14	13.8	13.5	13.1	12.6	12.2	11.6	11	9			
MMD4 80-250/5.5	5.5	7.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.2	18.9	18.5	18	17.6	17.1	16.5	16		
MMD4 80-250/7.5	7.5	10	23.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.3	22.1	21.9	21.7	21.3	21	20.5	20	
																																	18.5	16.9	14.5

Model/Modello	Motor/Motore		Q=Capacity/Portata																															
	kW	HP	l/min	0	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8000	8500	9000	9500	10000				
			m³/h	0	54	60	66	72	78	84	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	480	510	540	570	600				
H=Total head/Prevalenza totale [m]																																		
MMD4 100-200/4	4	5.5	13	12.3	12.2	12	11.8	11.6	11.4	11.2	10.3	9.3	8	6.6	4.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 100-200/5.5	5.5	7.5	14.7	14.5	14.4	14.2	14	13.8	13.6	13.4	12.8	12	11	9.8	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 100-250/7.5	7.5	10	20	-	19.5	19.3	19.1	18.9	18.7	18.5	17.5	16.5	15.2	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 100-250/9.2	9.2	12.5	22.4	-	22	21.9	21.8	21.7	21.6	21.5	20.5	19.5	18.5	17	15	12.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 125-200/5.5	5.5	5.5	11.2	-	-	-	-	-	-	-	10.5	10.3	9.9	9.5	9.1	8.5	7.9	6.4	5.7	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 125-200/7.5 R	7.5	10	12.4	-	-	-	-	-	-	-	11.8	11.6	11.3	11	10.6	10.2	9.6	8.3	7.7	6.7	-	-	-	-	-	-	-	-	-	-	-			
MMD4 125-200/7.5	7.5	10	13.7	-	-	-	-	-	-	-	-	12.9	12.7	12.4	12.1	11.7	11.2	10.1	9.6	8.7	7.1*	-	-	-	-	-	-	-	-	-	-			
MMD4 125-200/9.2	9.2	12.5	15	-	-	-	-	-	-	-	14.3	14.1	13.8	13.6	13.2	12.8	11.8	11.3	10.6	9.2	7.6**	-	-	-	-	-	-	-	-	-	-			
MMD4 125-250/11	11	15	18.6	-	-	-	-	-	-	-	17.2	16.7	16.2	15.5	14.8	13.9	12	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-			
MMD4 125-250/15	15	20	22	-	-	-	-	-	-	-	21	20.5	20.1	19.5	18.9	18.2	16.6	16	14.8	12.8	-	-	-	-	-	-	-	-	-	-	-			
MMD4 150-200/7.5	7.5	10	11.6	-	-	-	-	-	-	-	-	11	10.7	10.4	10.1	9.7	8.8	8.4	7.8	6.6	5.3	-	-	-	-	-	-	-	-	-	-			
MMD4 150-200/9.2	9.2	12.5	12.5	-	-	-	-	-	-	-	-	-	12	11.8	11.6	11.2	10.9	10.2	9.8	9.2	8	6.8	5.6	-	-	-	-	-	-	-	-			
MMD4 150-200/11	11	15	14.5	-	-	-	-	-	-	-	-	-	-	13.7	13.5	13.2	12.5	12.2	11.7	10.8	9.8	8.7	6.1	-	-	-	-	-	-	-	-			
MMD4 150-200/15	15	20	15.8	-	-	-	-	-	-	-	-	-	-	-	15.2	14.9	14.7	14.2	13.8	13.4	12.5	11.6	10.5	8.2	6.8	-	-	-	-	-	-			
MMD4 200-250/18.5 R	18.5	25	16	-	-	-	-	-	-	-	-	-	-	-	-	14.9	14.5	14.3	14.1	13.6	13	12.3	11	10.3	8.6	7.8	-	-	-	-	-			
MMD4 200-250/18.5	18.5	25	16.9	-	-	-	-	-	-	-	-	-	-	-	-	15.9	15.5	15.3	15.2	14.7	14.2	13.6	12.3	11.6	10	9.1	8.2	-	-	-	-			
MMD4 200-250/22 R	22	30	19.3	-	-	-	-	-	-	-	-	-	-	-	-	-	18	17.8	17.6	17.1	16.6	16	14.7	13.9	12.2	11.2	10.1	9	-	-	-			
MMD4 200-250/22	22	30	20.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1	18.9	18.8	18.3	17.8	17.3	16	15.3	13.7	12.7	11.7	10.7	9.6	-			

* Suction head has not to exceed 2 m/ *L'altezza manometrica di aspirazione non deve superare i 2 m.*
 ** Positive 1 m suction head/ *Aspirazione con battente positivo di 1 m.*

TECHNICAL DATA/DATI TECNICI

2 POLES/2 POLI

Model/Modello	Motor/Motore		Capacitor/Condensatore		Input power/Potenza ass. motore [kW]		Full load current/Corrente a pieno carico [A]				Locked rotor current/Corrente a rotore bloccato			
	kW	HP	Single Phase Monofase		Single Phase Monofase	Three phase Trifase	Three Phase/Trifase				Single phase/Monofase		Three Phase/Trifase	
			µF	Vc			230 V	230 V	400 V	690 V	230 V	230 V	400 V	690 V
MD 32-125/1.1 (M)	1.1	1.5	31.5	450	1.60	1.55	7.1	5.2	3	-	24	35	20	-
MD 32-125/1.5 (M)	1.5	2	40	450	2.05	2.2	9.3	5.9	3.4	-	44	35	20	-
MD 32-160/1.1 (M)	1.5	2	40	450	2.28	2.2	10.3	5.9	3.4	-	44	35	20	-
MD 32-160/2.2 (M)	2.2	3	50	450	2.91	2.9	13.3	8.7	5	-	70	66	38	-
MD 32-200/3.0	3	4	-	-	-	4	-	12	6.9	-	-	97	56	-
MD 32-200/4.0	4	5.5	-	-	-	5.2	-	16	9.2	-	-	123	71	-
MD 32-250/5.5	5.5	7.5	-	-	-	6.3	-	-	11.2	6.5	-	-	95	55
MD 32-250/7.5	7.5	10	-	-	-	8.3	-	-	14.6	8.4	-	-	124	72
MD 32-250/9.2	9.2	12.5	-	-	-	11	-	-	18.3	10.6	-	-	128	74
MD 32-250/11	11	15	-	-	-	12	-	-	20.7	12	-	-	169	95.6
MD 40-125/1.5 (M)	1.5	2	40	450	2.08	2.3	9.5	6	3.5	-	44	35	20	-
MD 40-125/2.2 (M)	2.2	3	50	450	2.77	2.9	12.9	8.7	5	-	70	66	38	-
MD 40-160/3.0	3	4	-	-	-	3.8	-	11.4	6.6	-	-	97	56	-
MD 40-160/4.0	4	5.5	-	-	-	5.3	-	17	9.8	-	-	123	71	-
MD 40-200/5.5	5.5	7.5	-	-	-	6.6	-	-	11.5	6.6	-	-	95	55
MD 40-200/7.5	7.5	10	-	-	-	9.1	-	-	15.5	9	-	-	124	72
MD 40-250/11	11	15	-	-	-	12.3	-	-	20.6	11.9	-	-	169	95.6
MD 40-250/13	13	17.5	-	-	-	15.2	-	-	25.3	14.6	-	-	175	101
MD 40-250/15	15	20	-	-	-	17.2	-	-	29.1	16.8	-	-	180	104
MD 50-125/2.2 (M)	2.2	3	50	450	2.80	2.9	12.9	8.7	5	-	70	66	38	-
MD 50-125/3.0	3	4	-	-	-	3.6	-	10.7	6.2	-	-	97	56	-
MD 50-125/4.0	4	5.5	-	-	-	4.9	-	15.4	8.9	-	-	123	71	-
MD 50-160/5.5	5.5	7.5	-	-	-	6.7	-	-	11.8	6.8	-	-	95	55
MD 50-160/7.5	7.5	10	-	-	-	8.8	-	-	15	8.7	-	-	124	72
MD 50-200/9.2	9.2	12.5	-	-	-	11.2	-	-	19	11	-	-	128	74
MD 50-200/11	11	15	-	-	-	13.5	-	-	22	12.7	-	-	169	95.6
MD 50-250/15	15	20	-	-	-	17.5	-	-	29.7	17.2	-	-	180	104
MD 50-250/18.5	18.5	25	-	-	-	21	-	-	37.7	21.8	-	-	272	157
MD 50-250/22	22	30	-	-	-	24	-	-	41	23.7	-	-	320	185
MD 65-125/5.5	5.5	7.5	-	-	-	7	-	-	12	6.9	-	-	95	55
MD 65-125/7.5	7.5	10	-	-	-	8.2	-	-	14	8.1	-	-	124	72
MD 65-160/11	11	15	-	-	-	13	-	-	20.8	12	-	-	169	95.6
MD 65-160/15	15	20	-	-	-	16	-	-	27	15.6	-	-	180	104
MD 65-200/18.5	18.5	25	-	-	-	21	-	-	39	22.5	-	-	272	157
MD 65-200/22	22	30	-	-	-	24	-	-	43	24.8	-	-	320	185

* Single phase available/Versione monofase disponibile

Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I _L /I _n
	[kW]	[HP]	230 V	400V	690 V	
MMD 65-250/22	22	30	-	44.5	25.7	6.8
MMD 65-250/30	30	40	-	58	33.5	6.7
MMD 65-250/37	37	55	-	71	41.0	6.5
MMD 80-160/10	10	13.6	-	22.5	13.0	6.3
MMD 80-160/12.5	12.5	17	-	27	15.6	6.4
MMD 80-160/15	15	20	-	32	18.5	7.8
MMD 80-200/18.5	18.5	25	-	38	21.9	6.8
MMD 80-200/22	22	30	-	44.5	25.7	6.8
MMD 80-200/30	30	40	-	58	33.5	6.7
MMD 80-200/37	37	55	-	71	41.0	6.5
MMD 80-250/37	37	55	-	71	41.0	6.5
MMD 100-200/22	22	30	-	44.5	25.7	6.8
MMD 100-200/30	30	40	-	58	33.5	6.7
MMD 100-200/37	37	55	-	71	41.0	6.5

I_L = Locked rotor/Rotore bloccatoI_n = Full load/A pieno carico

TECHNICAL DATA/DATI TECNICI

4 POLES/4 POLI

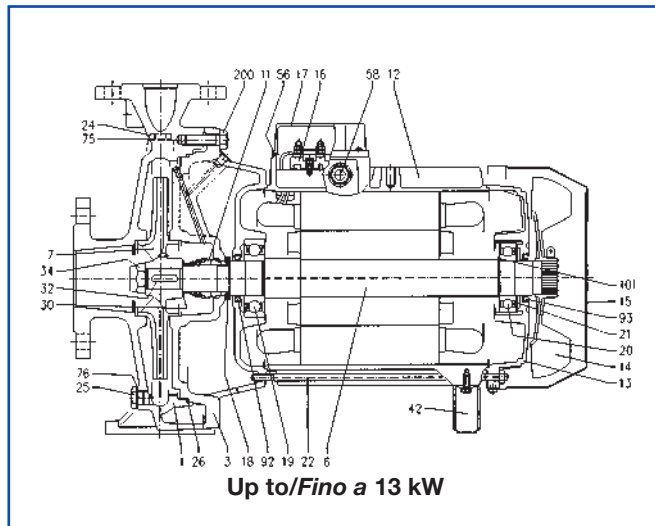
Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I _L /I _n
	[kW]	[HP]	230 V	400V	690 V	
MMD4 32-125/0.25 R	0.25	0.33	1.6	0.9	-	3.4
MMD4 32-125/0.25						
MMD4 32-160/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 32-200/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 32-200/0.92	0.92	1.25	4.7	2.7	-	5
MMD4 32-250/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 32-250/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 40-125/0.25	0.25	0.33	1.6	0.9	-	3.4
MMD4 40-125/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 40-160/0.55	0.55	0.75	2.8	1.6	-	4.1
MMD4 40-200/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 40-200/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 40-250/1.5						
MMD4 40-250/2.2	2.2	3	10	5.8	-	4.8
MMD4 50-125/0.37	0.37	0.55	2.3	1.3	-	4
MMD4 50-125/0.55	0.55	0.75	2.8	1.6	-	1.1
MMD4 50-160/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 50-160/0.92	0.92	1.25	4.7	2.7	-	5
MMD4 50-200/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 50-200/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 50-200/2.2	2.2	3	10	5.8	-	4.8
MMD4 50-250/3	3	4	13.5	7.8	-	5.4
MMD4 65-125/0.75	0.75	1	3.9	2.25	-	3.9
MMD4 65-160/1.1	1.1	1.5	4.85	2.8	-	4.6
MMD4 65-160/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 65-200/2.2	2.2	3	10	5.8	-	4.8
MMD4 65-200/3.0	3	4	13.5	7.8	-	5.4
MMD4 65-250/4	4	5.5	16.1	9.3	-	6.6
MMD4 65-250/5.5	5.5	7.5	-	12	6.9	5.9

Type/Tipo	Power/Potenza Nominale		Full load current/Corrente a pieno carico			I _L /I _n
	[kW]	[HP]	230 V	400V	690 V	
MMD4 80-160/1.5	1.5	2	6.6	3.8	-	4.8
MMD4 80-160/2.2	2.2	3	10	5.8	-	4.8
MMD4 80-200/3	3	4	13.5	7.8	-	5.4
MMD4 80-250/4	4	5.5	16.1	9.3	-	6.6
MMD4 80-250/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 80-250/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 100-200/4	4	5.5	16.1	9.3	-	6.6
MMD4 100-200/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 100-250/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 100-250/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 100-200/5.5	5.5	7.5	-	12	6.9	5.9
MMD4 125-200/7.5 R	7.5	10	-	15.6	9.0	6.8
MMD4 125-200/7.5						
MMD4 125-200/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 125-250/11	11	15	-	25	14.4	7.3
MMD4 125-250/15	15	20	-	30.4	17.6	5.8
MMD4 150-200/7.5	7.5	10	-	15.6	9.0	6.8
MMD4 150-200/9.2	9.2	12.5	-	19.7	11.4	7.4
MMD4 150-200/11	11	15	-	25	14.4	7.3
MMD4 150-200/15	15	20	-	30.4	17.6	5.8
MMD4 150-200/18.5 R	18.5	25	-	37.1	21.4	6.2
MMD4 200-250/18.5						
MMD4 200-250/22 R						
MMD4 200-250/22			-	42.6	24.6	6.3

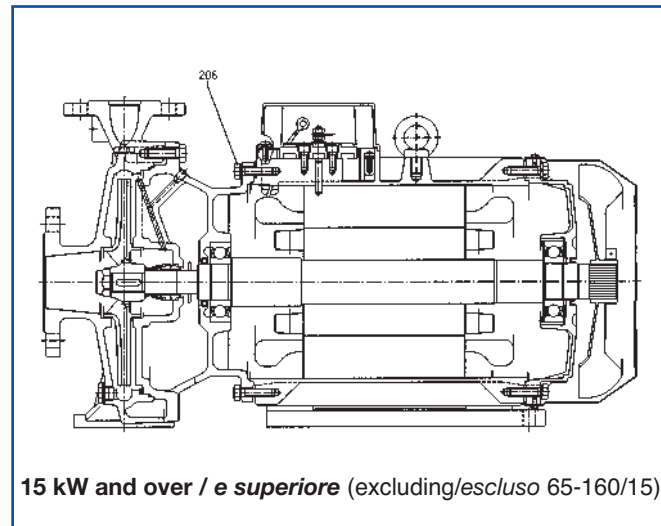
I_L = Locked rotor/Rotore bloccatoI_n = Full load/A pieno carico

SECTIONAL VIEW/VISTE IN SEZIONE

MD

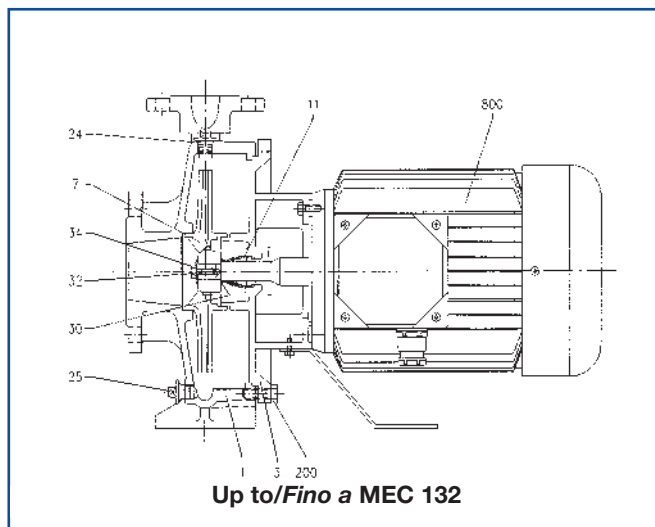


N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
1	Casing/Corpo pompa	Cast Iron/Ghisa EN-GJL-200-EN 1561
3	Motor bracket/Supporto motore	Cast Iron/Ghisa EN-GJL-200-EN 1561
6	Shaft with rotor/Albero rotore	AISI 304 (Part in contact with the liquid) (parte in contatto con il liquido)
7	Impeller/Girante	Cast Iron/Ghisa EN-GJL-200-EN 1561 - Bronze /Bronzo
11	Mechanical seal/Tenuta meccanica	Carb/Ceram/NBR
12	Motor frame w/stator/Cassa motore	-
13	Motor cover/Coperchio motore	Aluminium/Alluminio
14	Fan/Ventola	Polypropylene
15	Fan cover/Copriventola	Fe P04 Zinked/Zincato
16	Terminal/Morsettiera	-
17	Terminal box cover/Scatola coprimorsettiera	Plastic/Plastica / Aluminium/Alluminio
18	Splash ring/Rondella paraspruzzi	NBR
19	Bearing/Cuscinetto lato pompa	-
20	Bearing/Cuscinetto lato ventola	-
21	Adjusting ring/Anello compensatore	Stainless steel/Acciaio C70
22	Tie rod/Tirante	Fe 42
	Screw/Vite	Galvanized steel/Acciaio zincato ISO 898/1

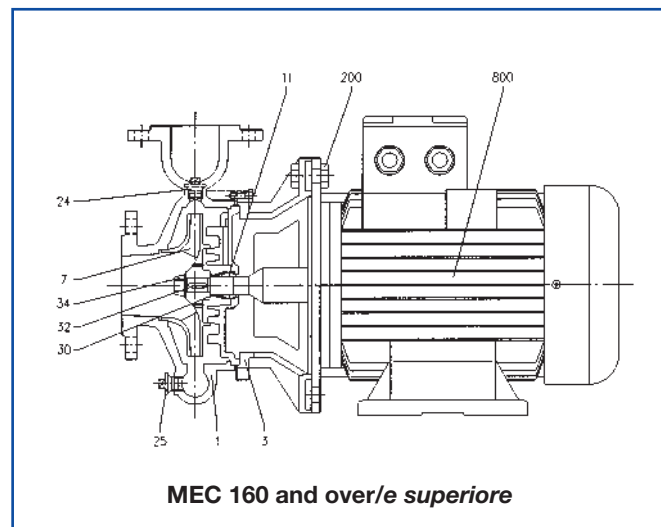


N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
24	Priming plug/Tappo di carico	Brass/Ottone
25	Drain Plug/Tappo di scarico	Brass/Ottone
26	"O" ring/Anello OR	NBR
30	Spacer/Distanziale	AISI 304
32	Key/Linguetta	AISI 316
34	Impeller nut/Dado girante	AISI 304
42	Foot/Piedino	Fe P04
56	Box gasket/Guarnizioni per base	NBR
58	Fastening nut/Ghiera fissaggio	-
75	Washer/Rondella	Aluminium/Alluminio
76	Washer/Rondella	Aluminium/Alluminio
92	Lip seal/Anello tenuta	-
93	Lip seal/Anello tenuta	-
101	Anello seeger	Carbon Steel/Acciaio al carbonio TC 80
200	Screw/Vite	Galvanized Steel/Acciaio zincato ISO 898/1
206	Screw/Vite	Galvanized Steel/Acciaio zincato ISO 898/1

MMD/MMD4



N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
1	Casing/Corpo pompa	Cast Iron/Ghisa
3	Motor bracket/Supporto motore	Cast Iron/Ghisa
7	Impeller/Girante	Cast Iron/Ghisa
11	Mechanical seal/Tenuta meccanica	Sic/Sic/EPDM
24	Priming plug/Tappo di carico	Stainless steel/Acciaio inox
25	Drin Plug/Tappo di scarico	Stainless steel/Acciaio inox

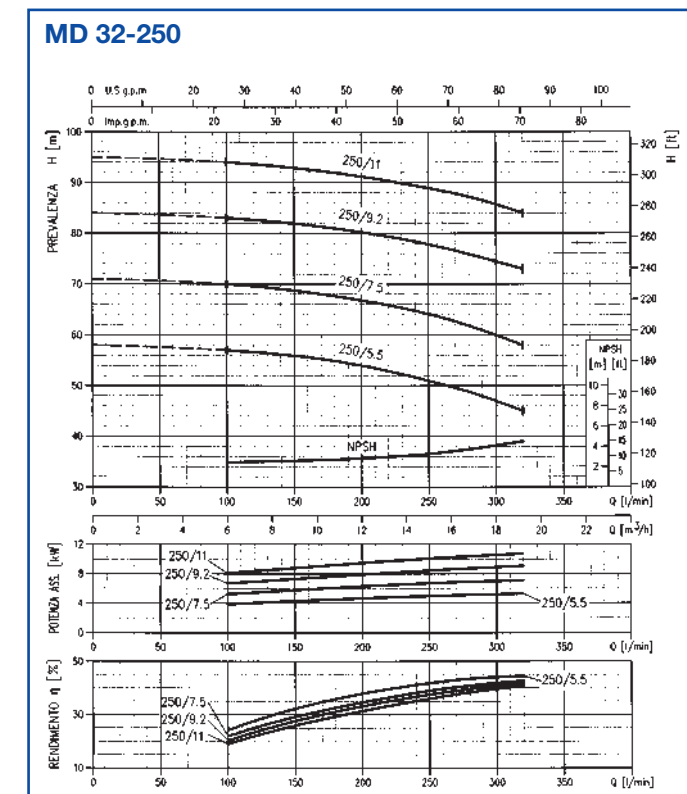
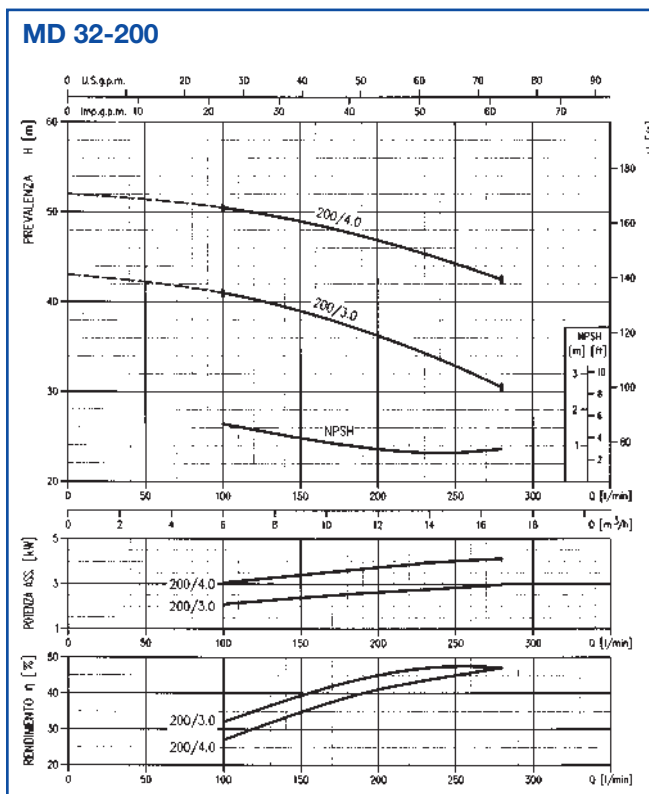
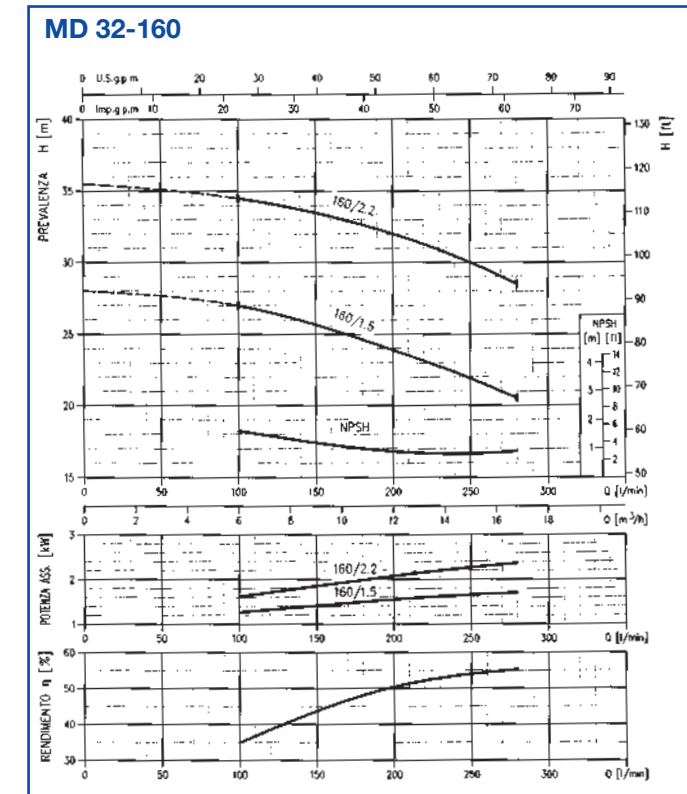
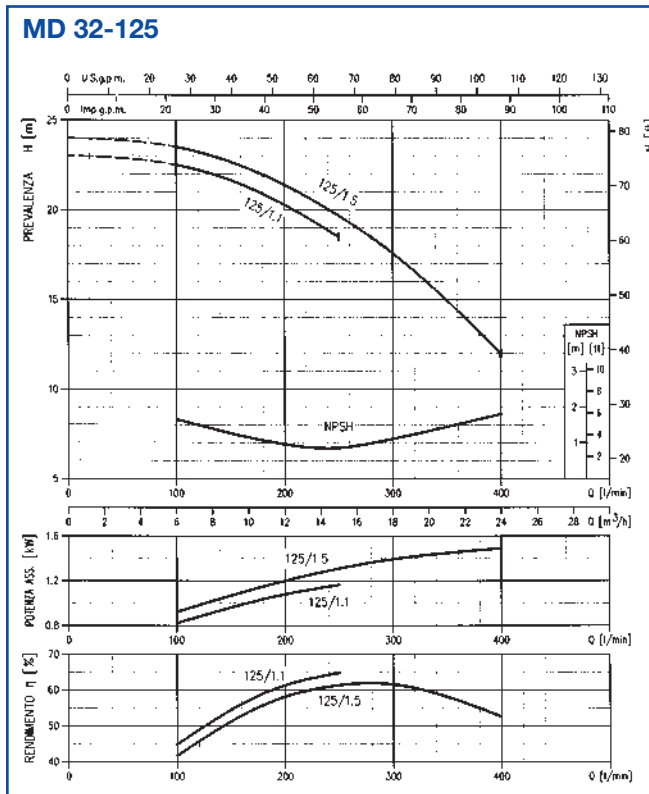


N°	DESCRIPTION/DESCRIZIONE	MATERIAL/MATERIALE
30	Spacer/Distanziale tenuta mecc.	Stainless steel/Acciaio inox
32	Key/Linguetta	Stainless steel/Acciaio inox
34	Impeller nut/Dado girante	Stainless steel/Acciaio inox
200	Screw/Vite	Stainless steel/Acciaio inox
800	Motor/Motore	-

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MD

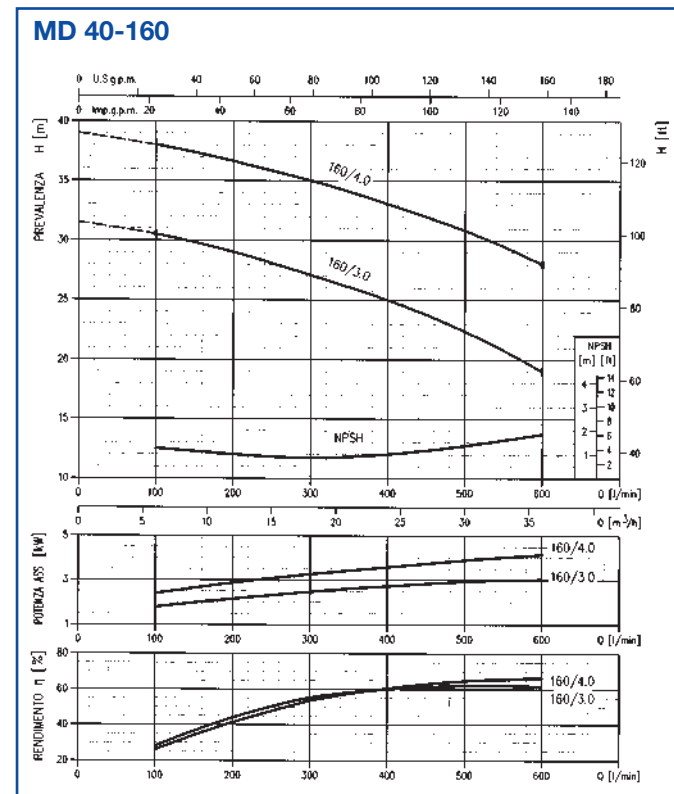
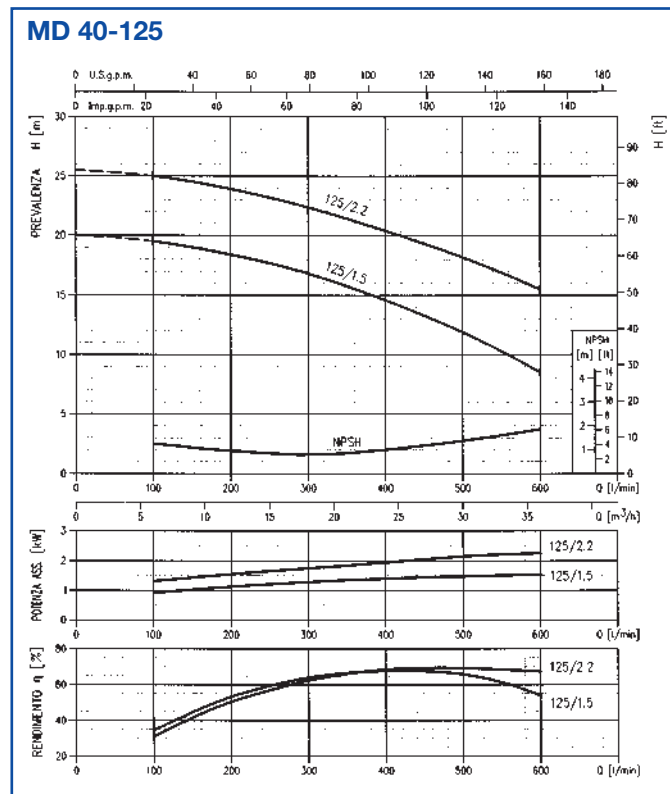
2 POLES/2 POLI



R.P.M./Velocità di rotazione $\approx 2900 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

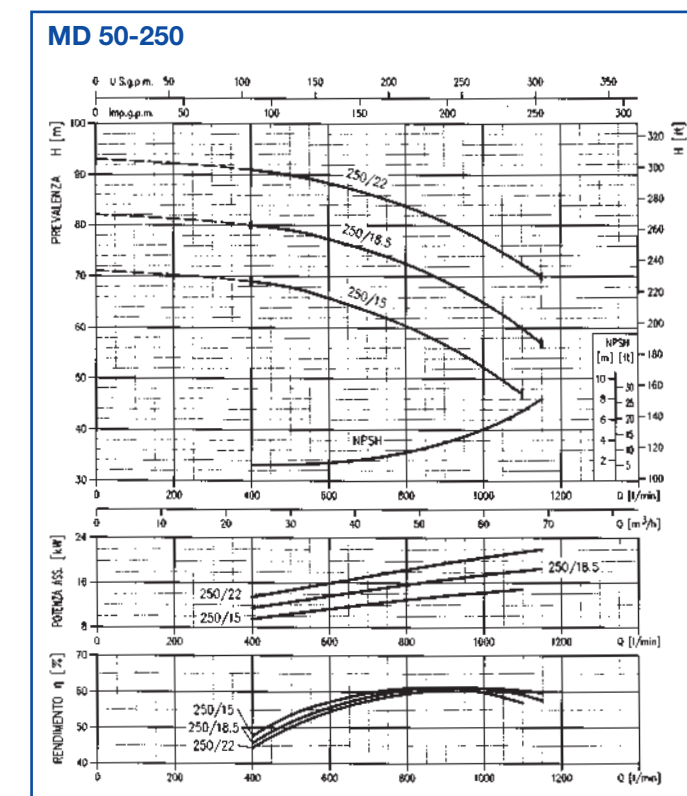
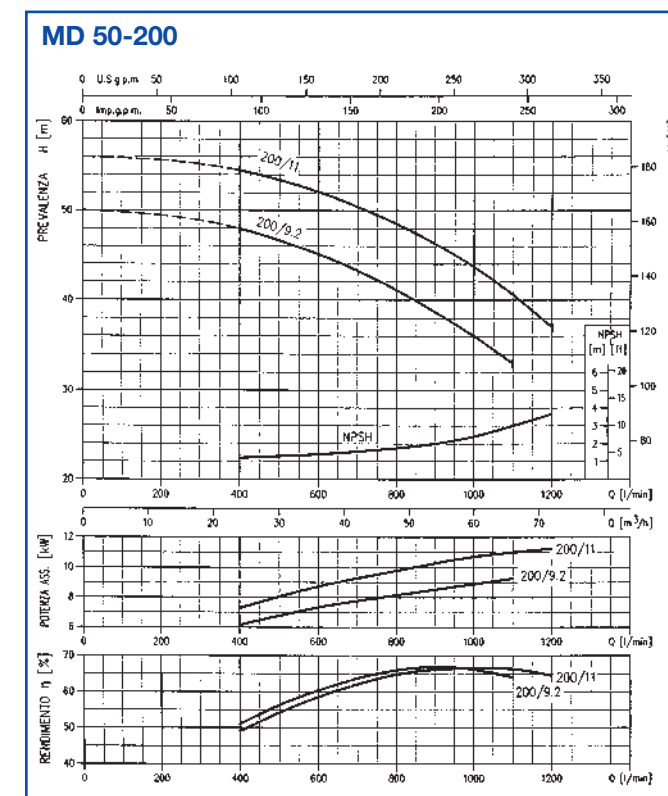
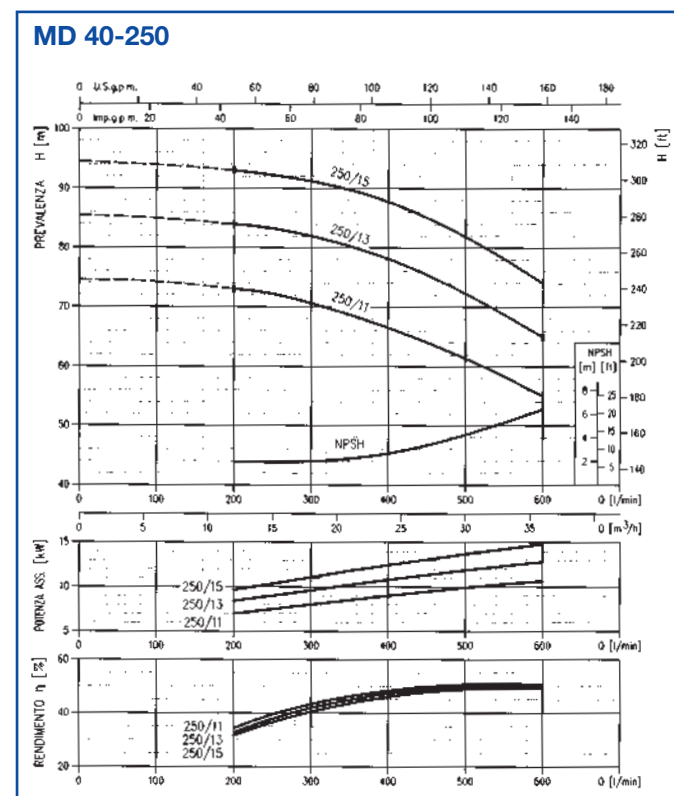
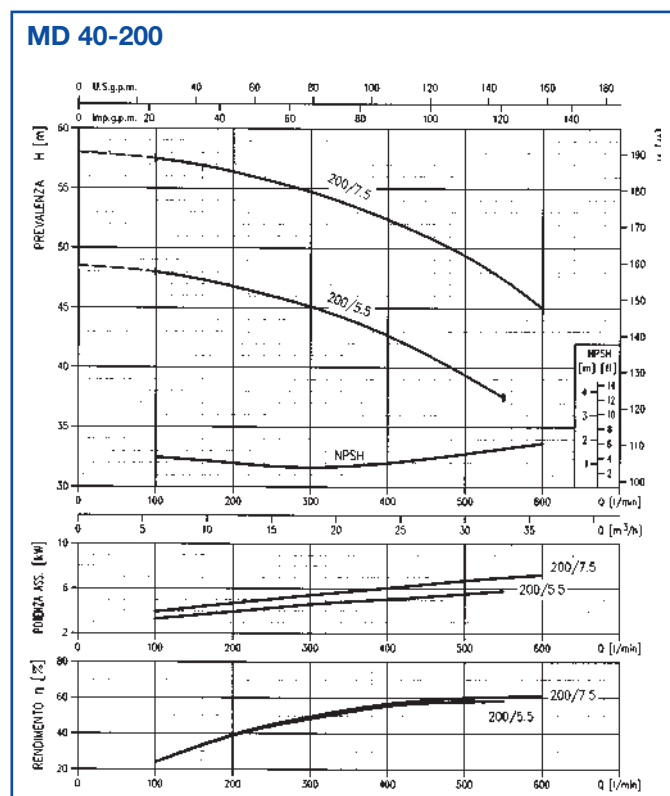
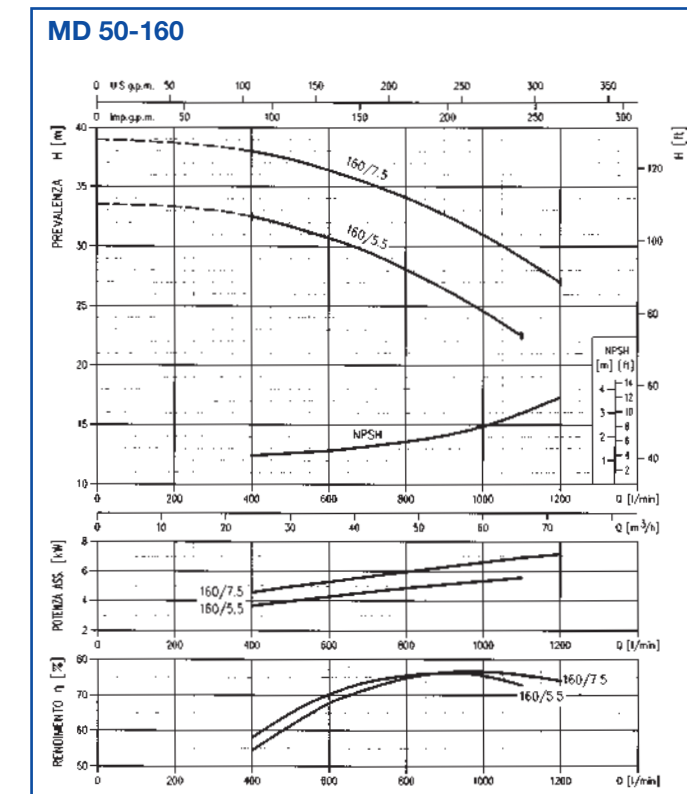
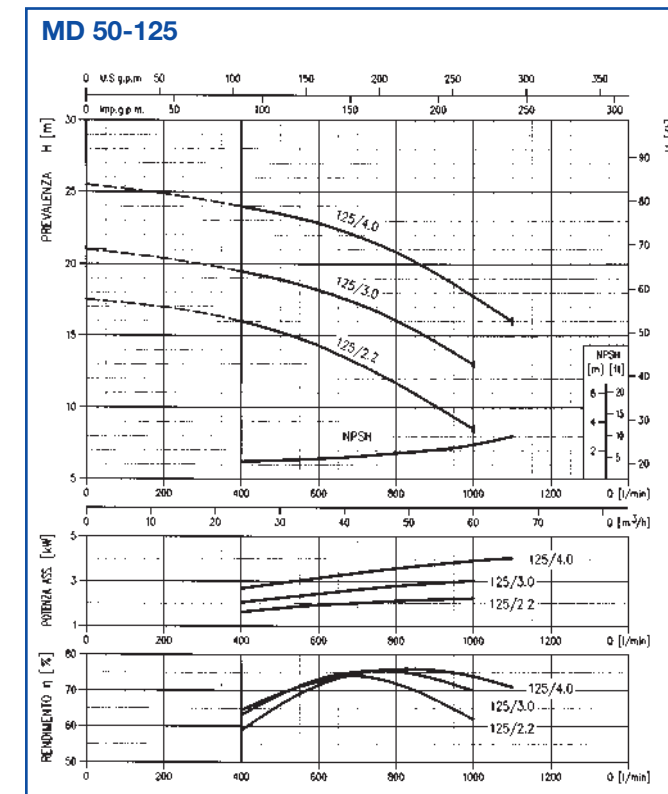
PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MD 2 POLES/2 POLI



PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MD 2 POLES/2 POLI



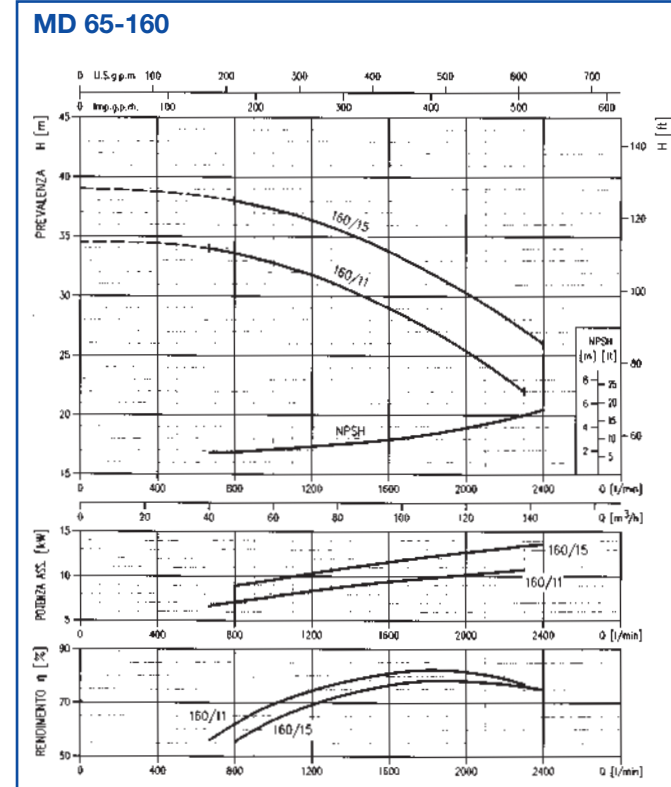
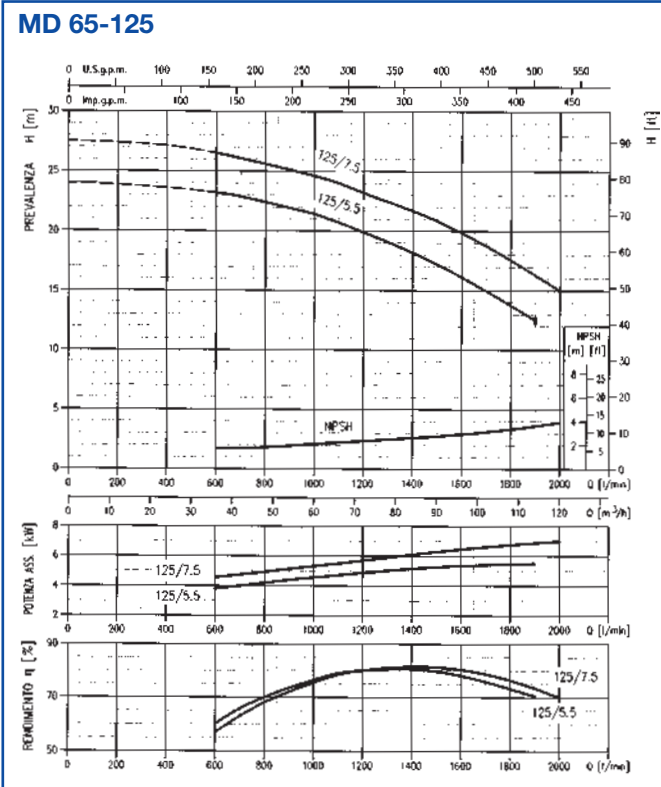
R.P.M./Velocità di rotazione ≈ 2900 min⁻¹
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

R.P.M./Velocità di rotazione ≈ 2900 min⁻¹
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MD/MMD

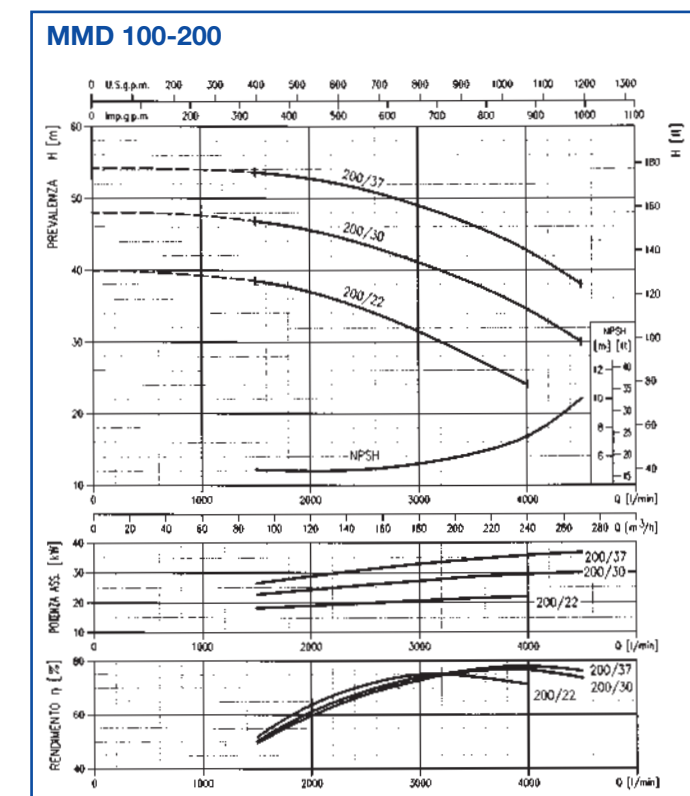
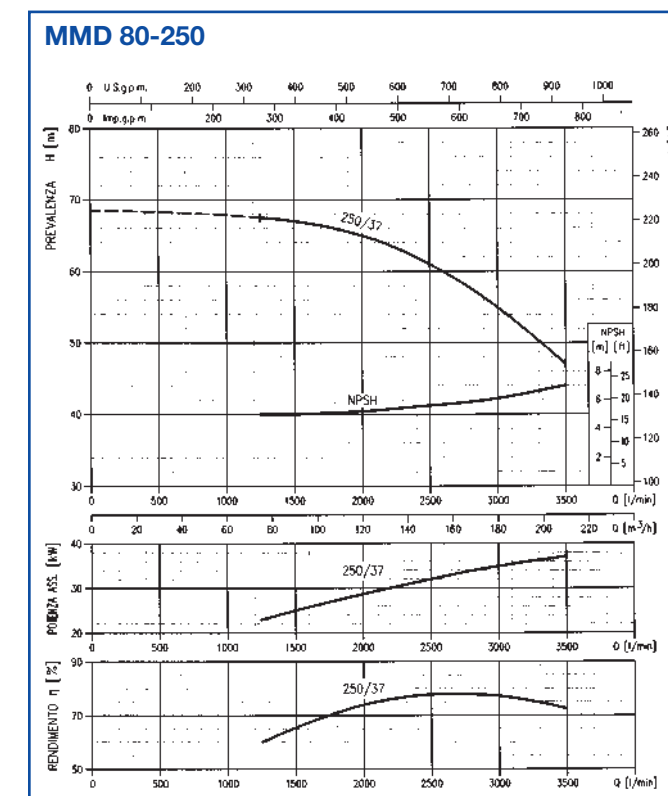
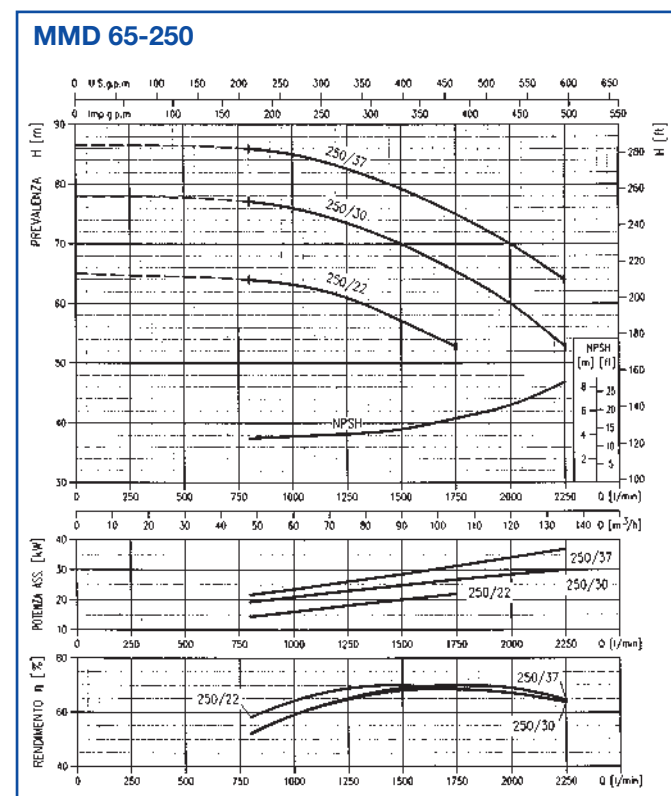
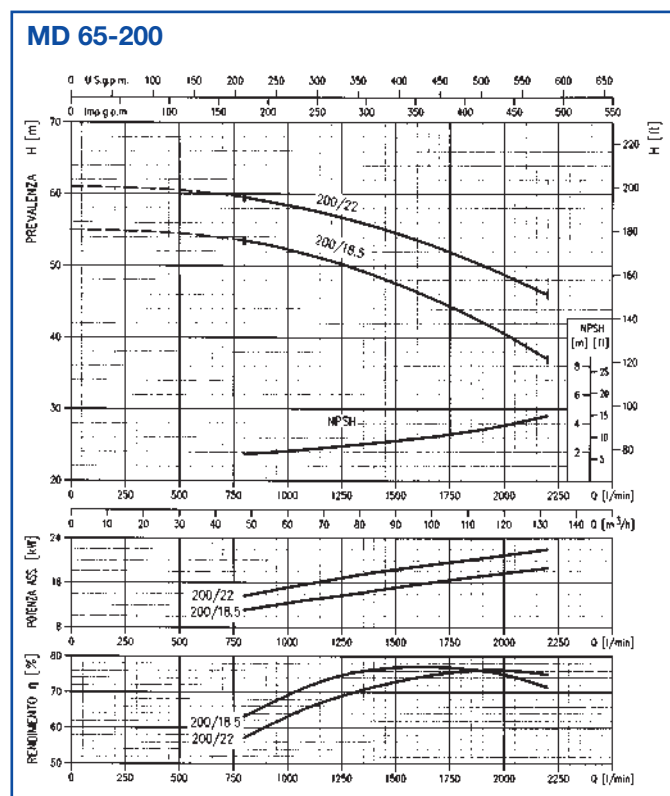
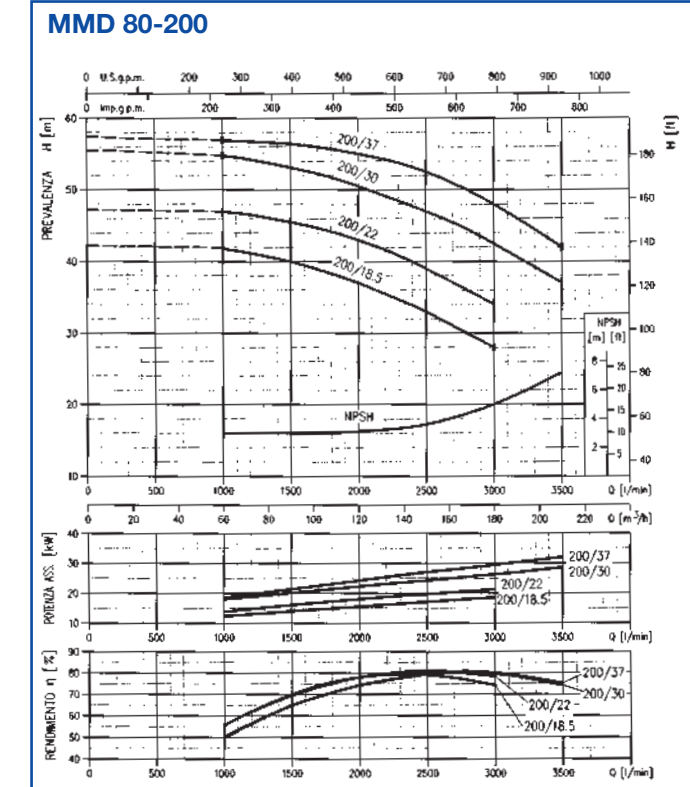
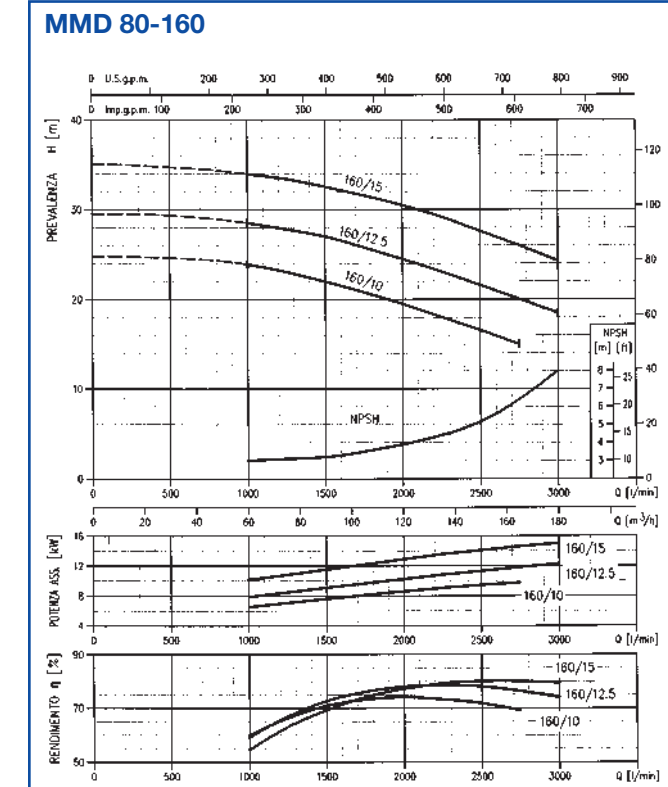
2 POLES/2 POLI



PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD

2 POLES/2 POLI



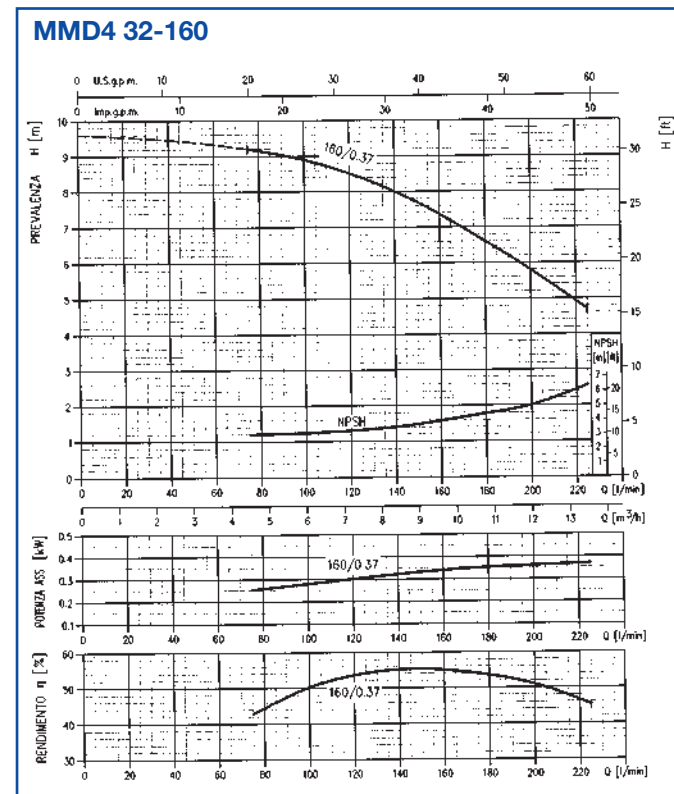
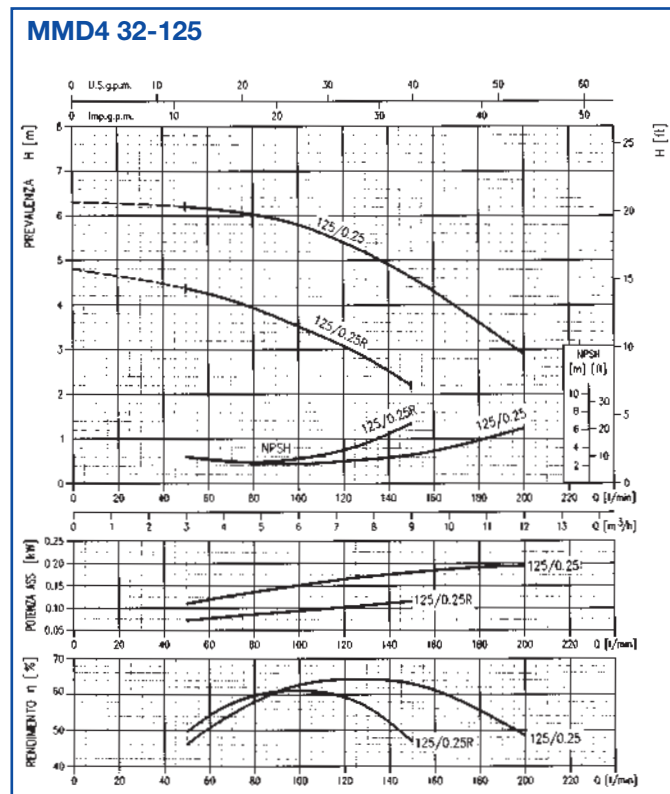
R.P.M./Velocità di rotazione $\approx 2900 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

R.P.M./Velocità di rotazione $\approx 2900 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

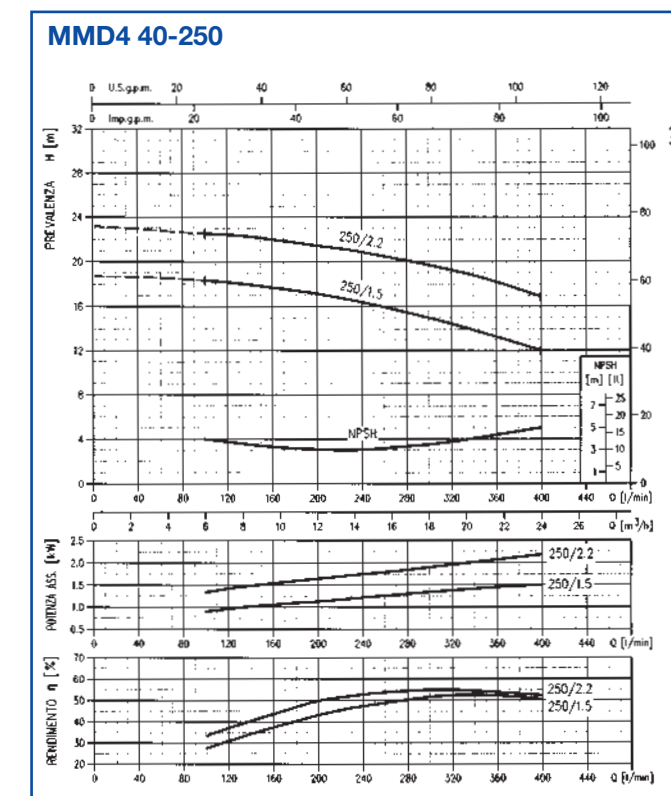
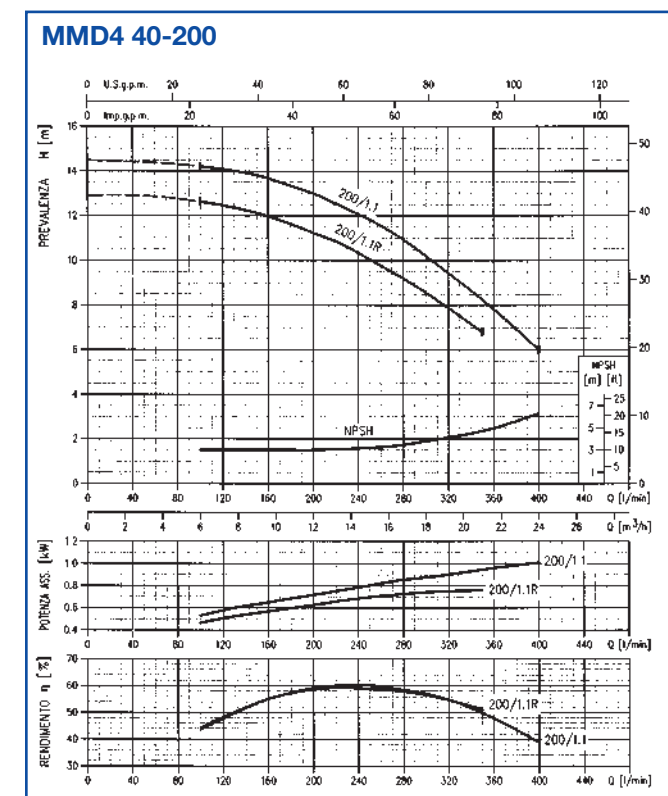
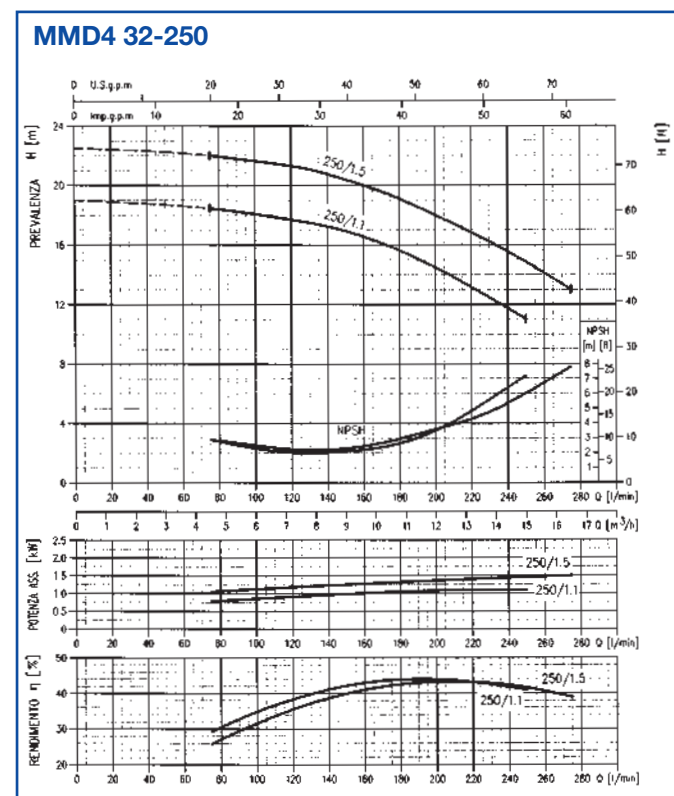
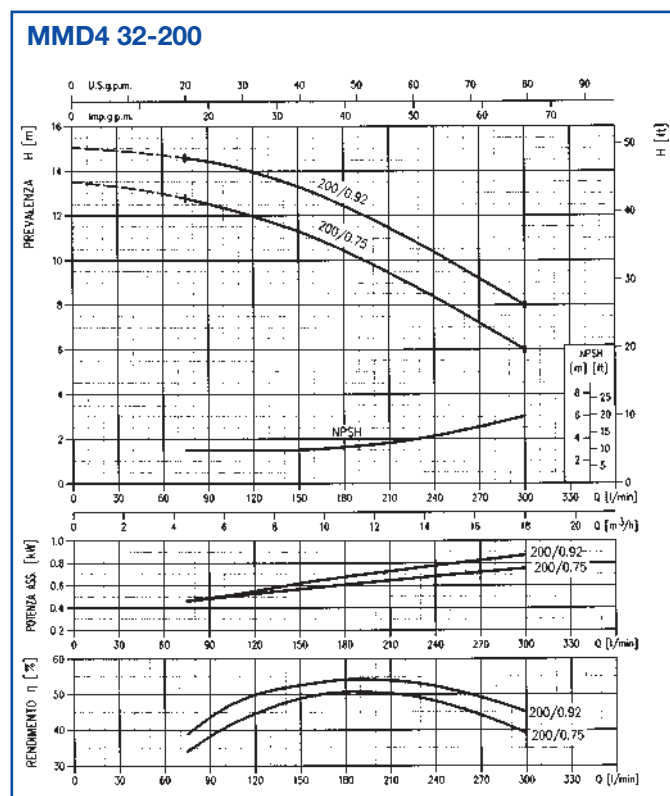
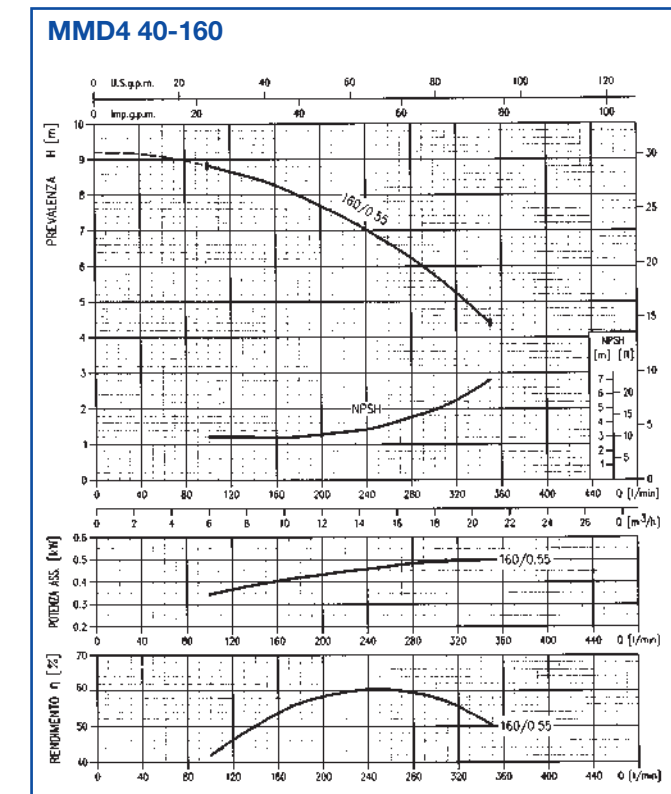
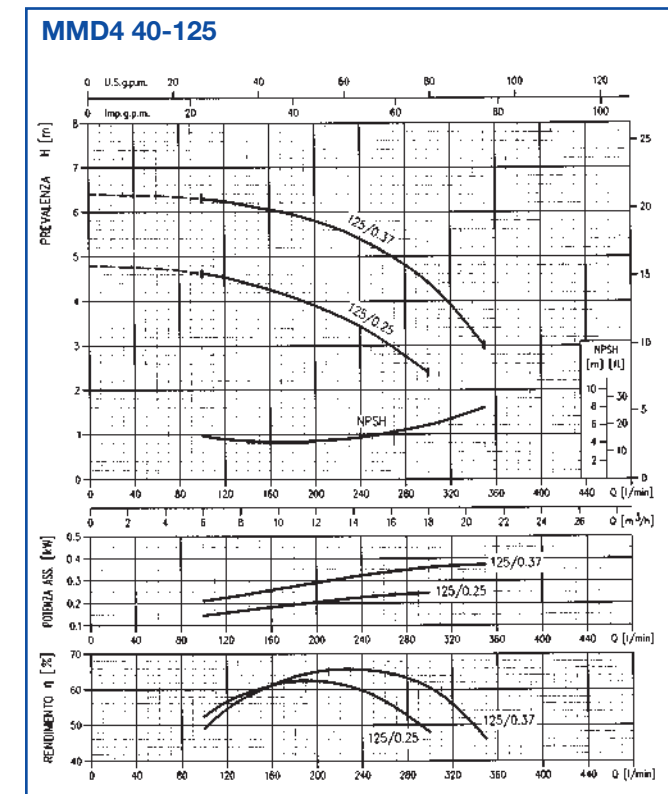
4 POLES/4 POLI



PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

4 POLES/4 POLI



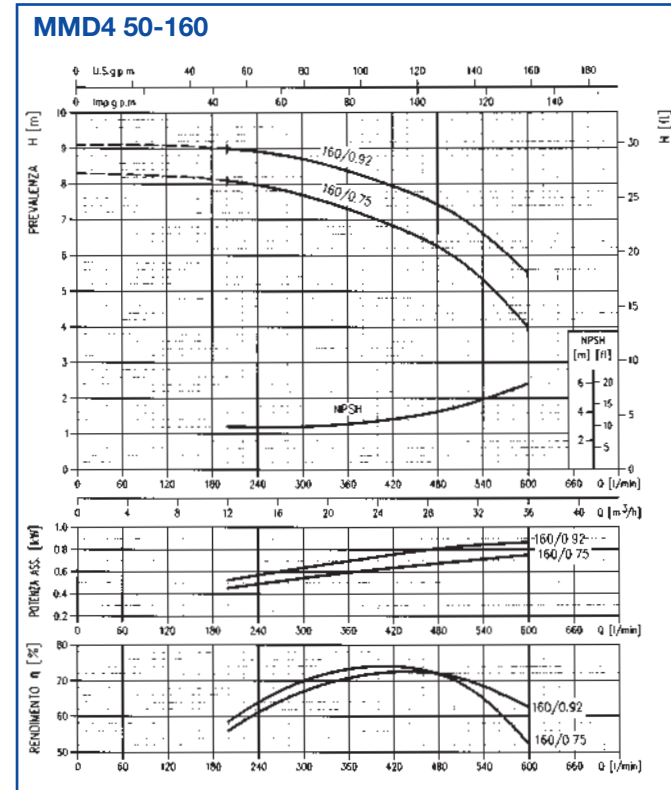
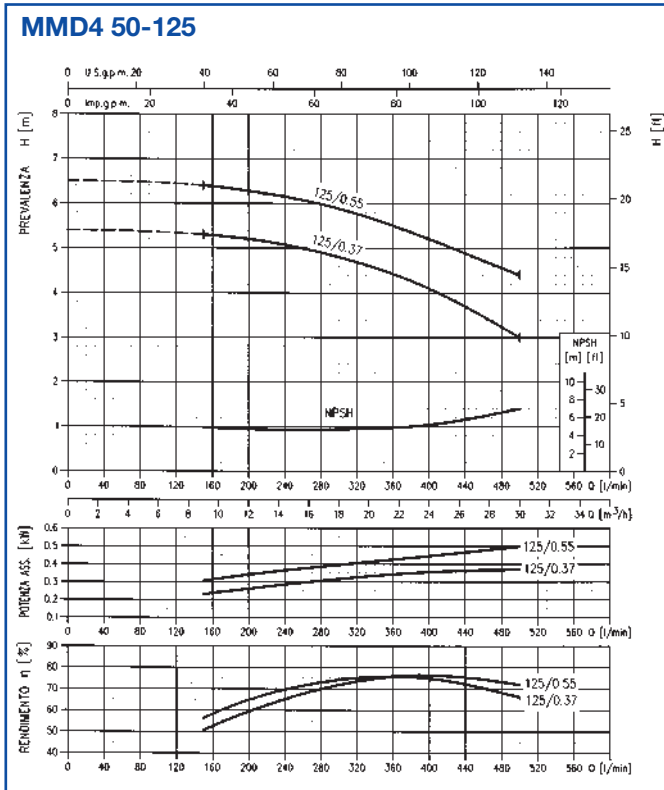
R.P.M./Velocità di rotazione $\approx 1400 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

R.P.M./Velocità di rotazione $\approx 1400 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

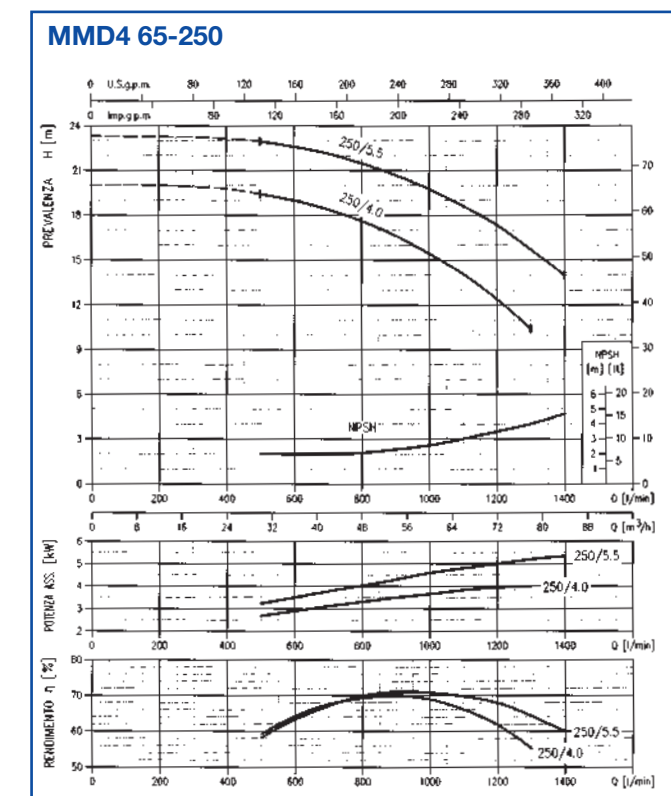
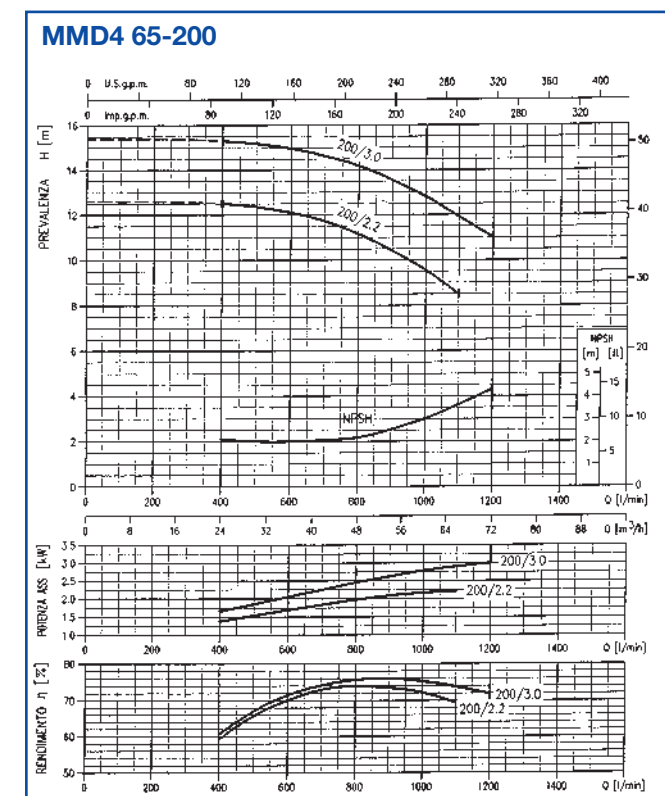
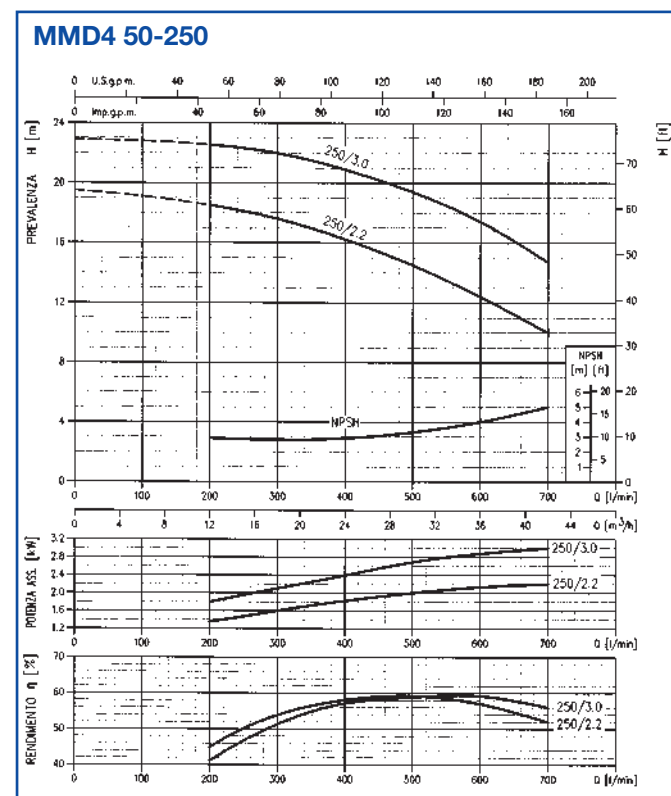
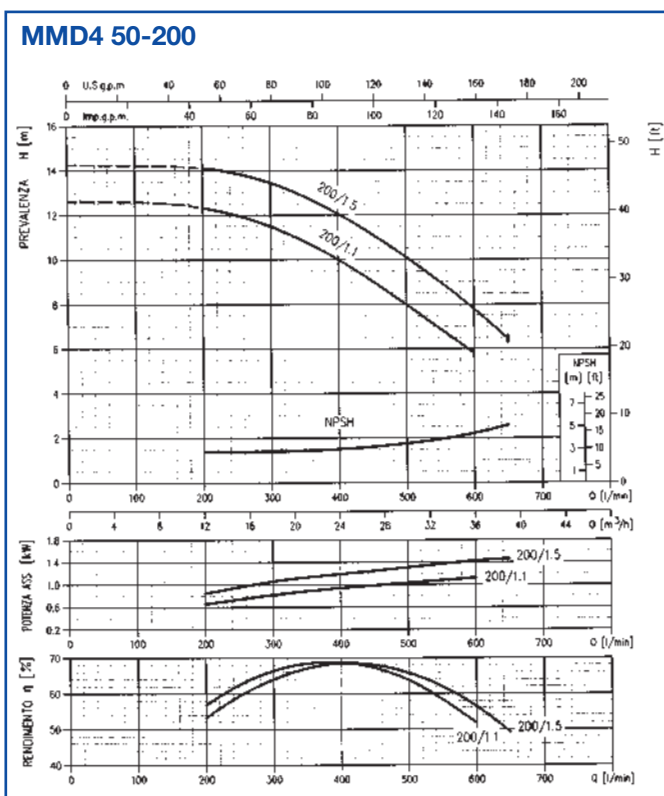
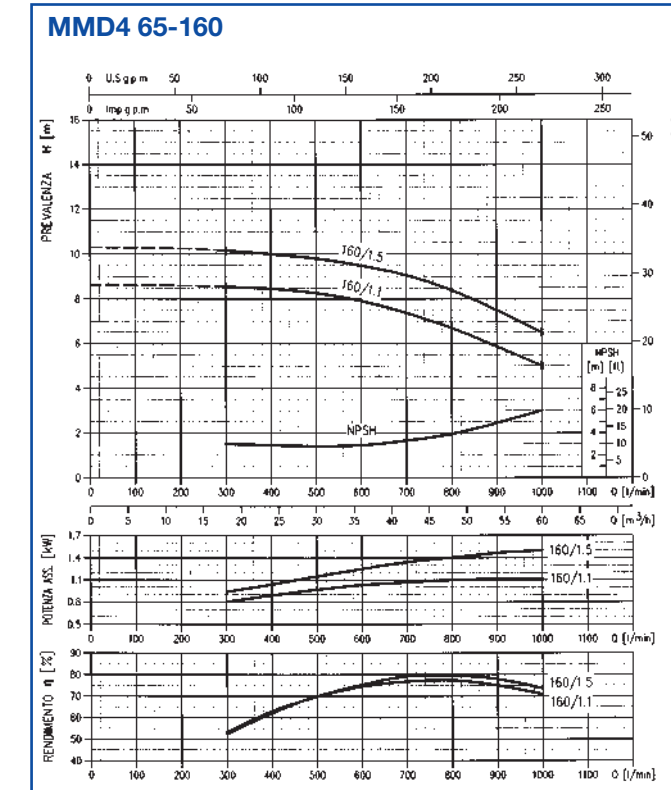
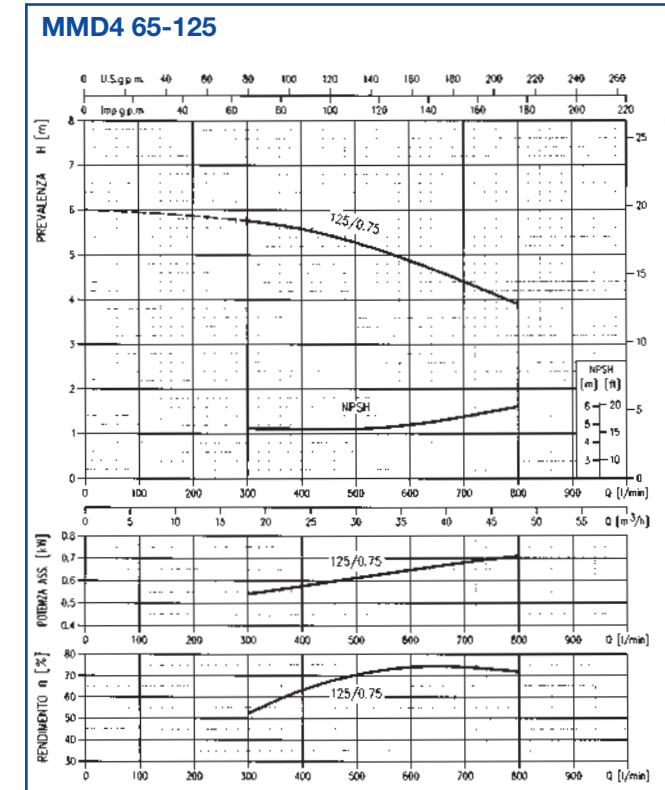
4 POLES/4 POLI



PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

4 POLES/4 POLI



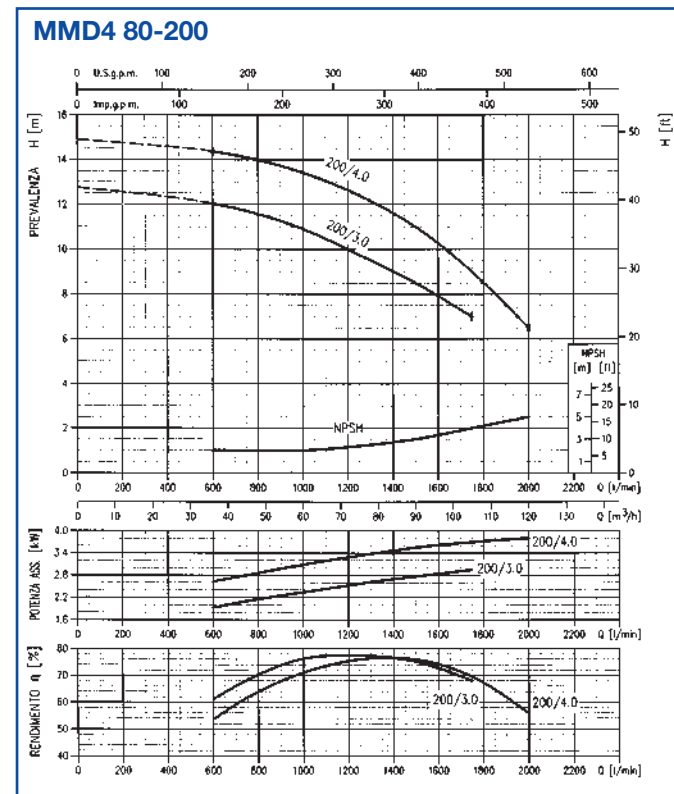
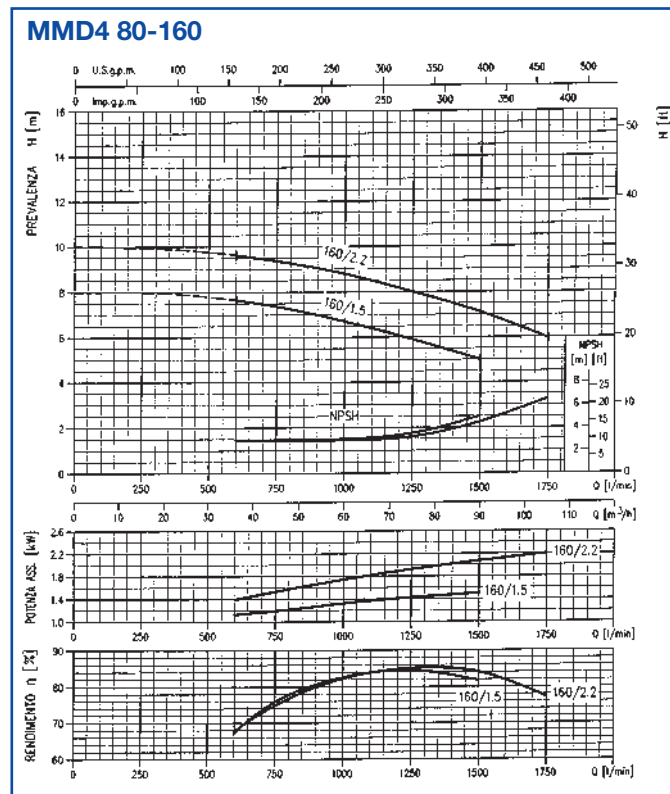
R.P.M./Velocità di rotazione ≈ 1400 min⁻¹
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

R.P.M./Velocità di rotazione ≈ 1400 min⁻¹
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

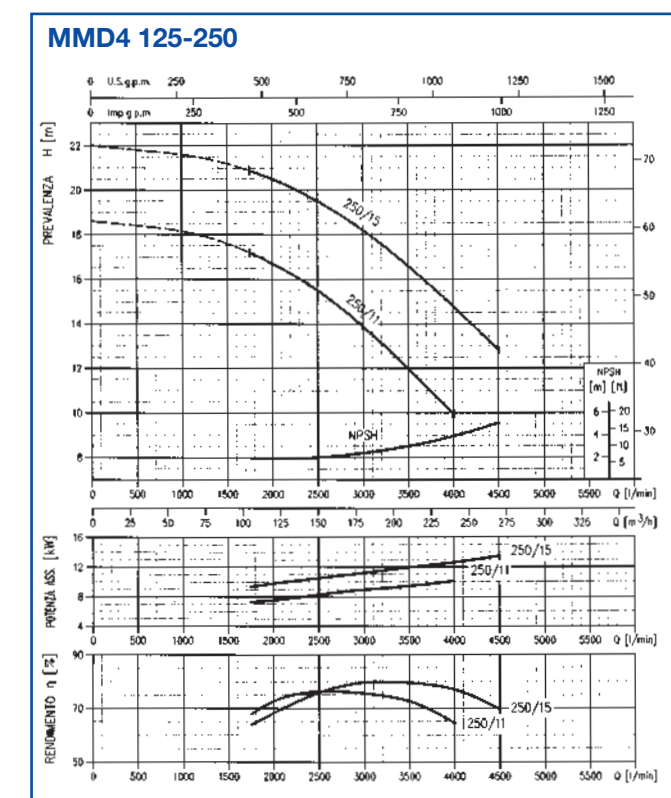
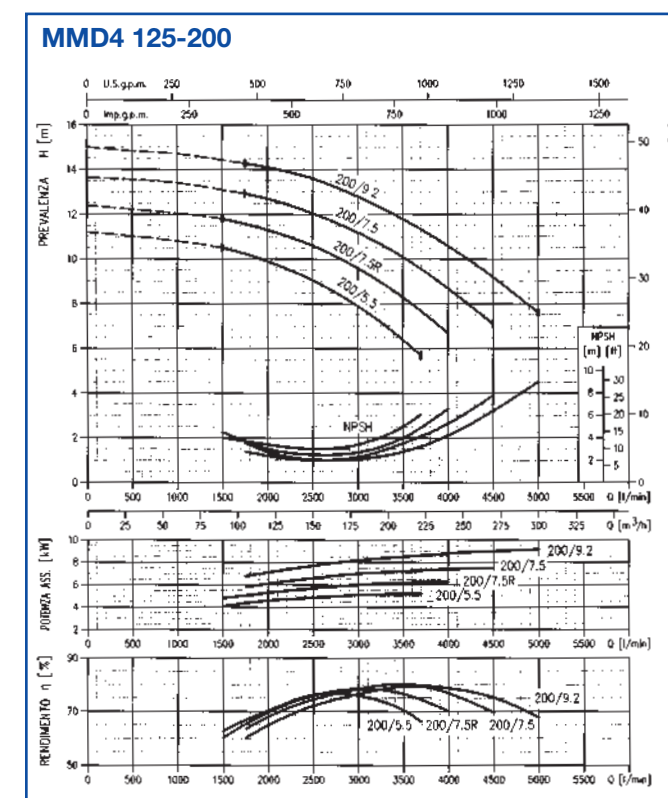
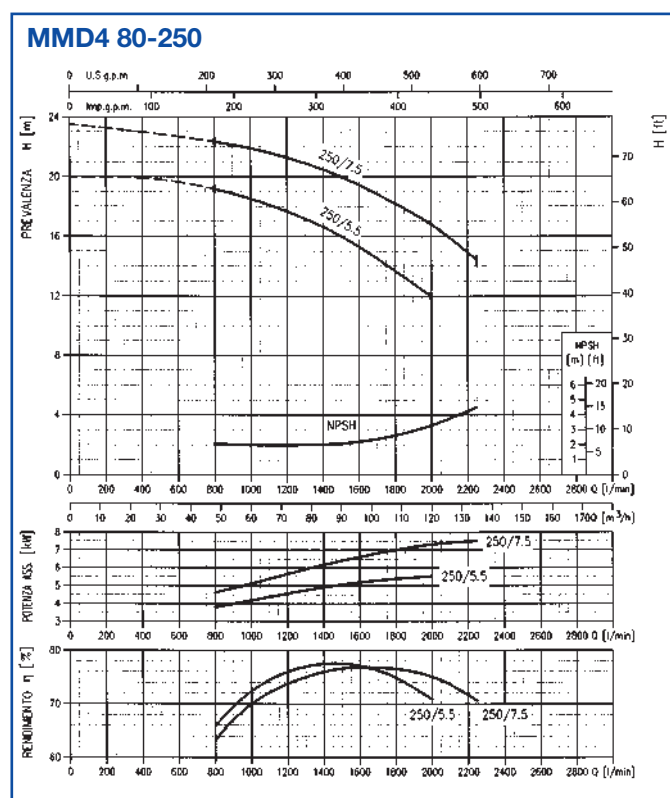
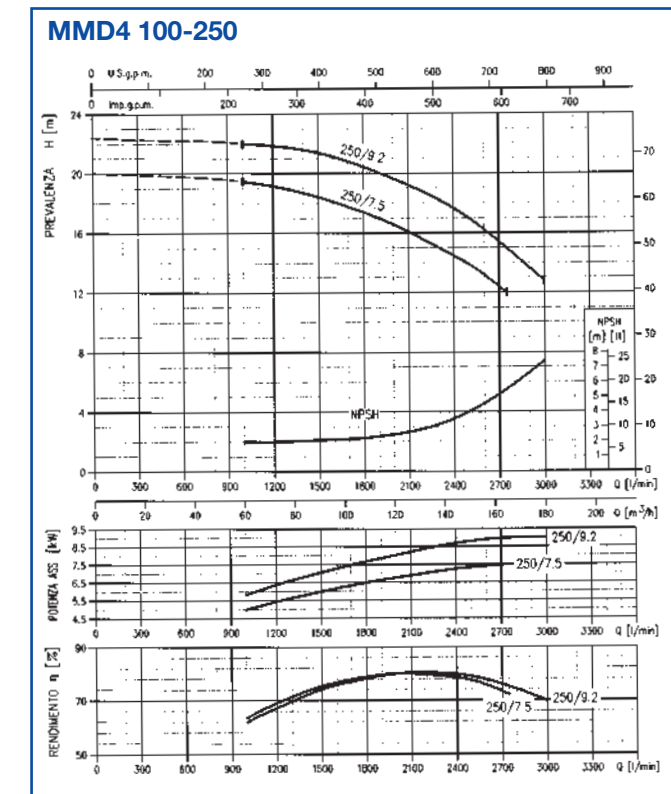
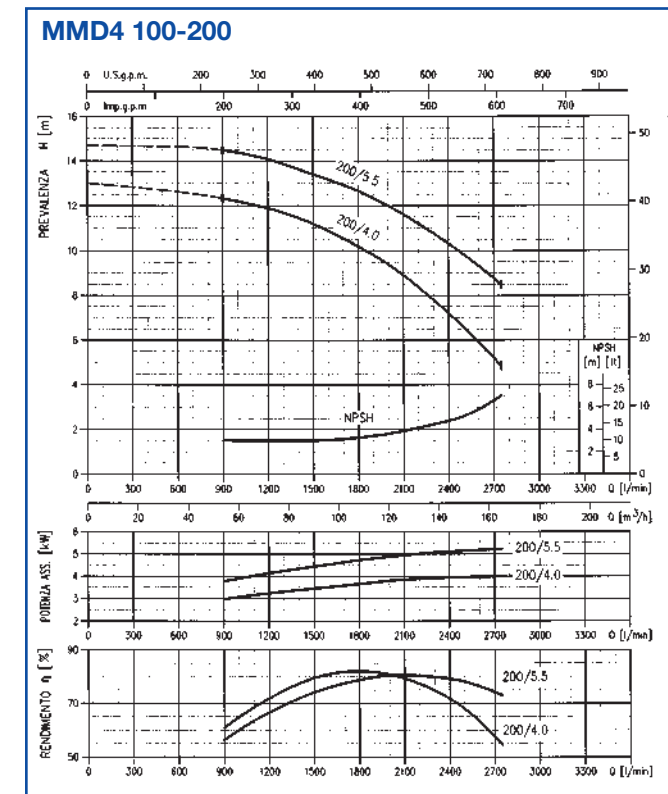
4 POLES/4 POLI



PERFORMANCE CURVES/CURVE DI PRESTAZIONE

MMD4

4 POLES/4 POLI



R.P.M./Velocità di rotazione $\approx 1450 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

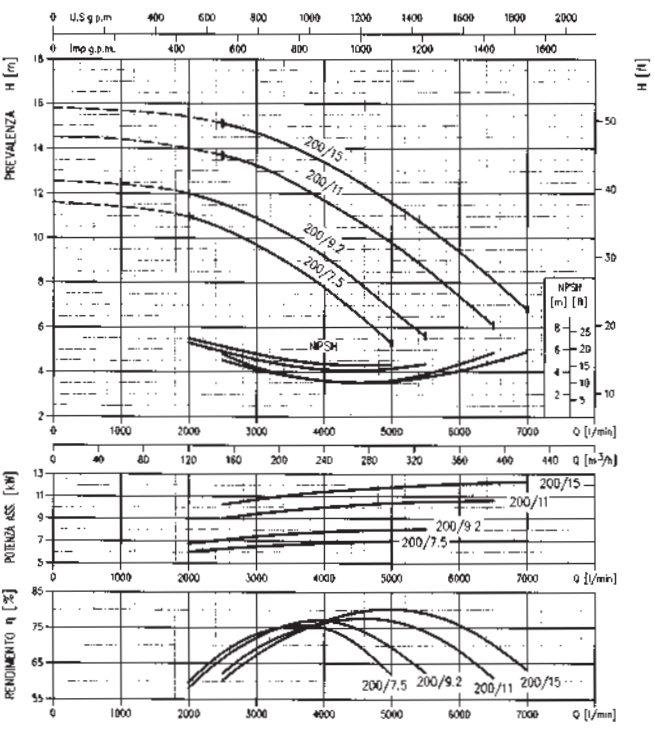
R.P.M./Velocità di rotazione $\approx 1450 \text{ min}^{-1}$
 Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
 Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

PERFORMANCE CURVES/CURVE DI PRESTAZIONE

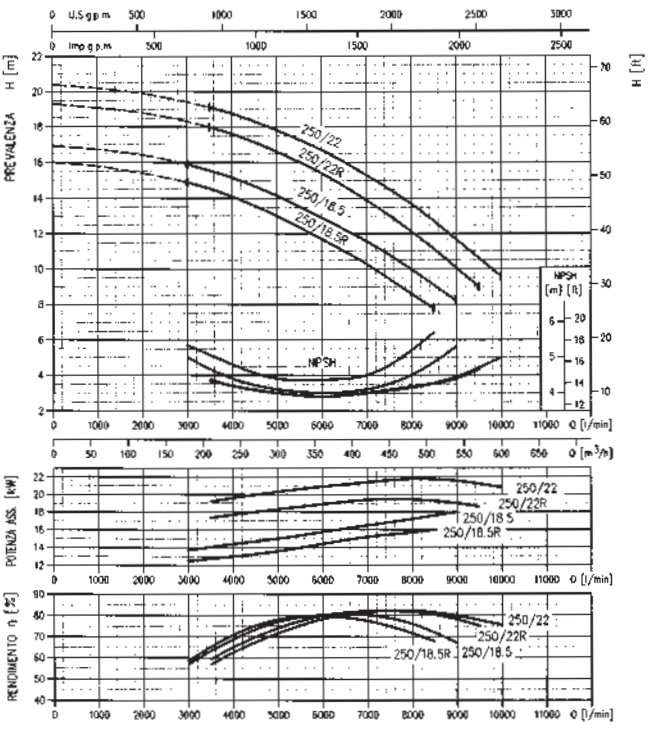
MMD4

4 POLES/4 POLI

MMD4 150-200



MMD4 200-250

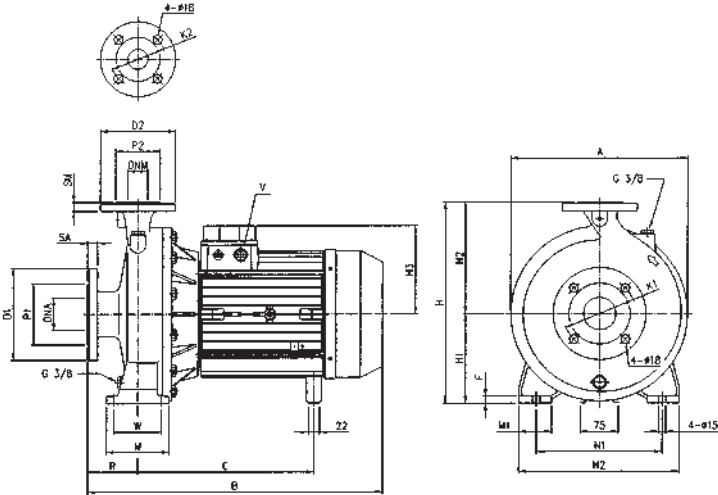


R.P.M./Velocità di rotazione ≈ 1450 min⁻¹
Test fluid/Fluido di prova: Clean water/Acqua pulita a 20°C
Applicable standard/Tolleranza secondo: UNI EN ISO 9906 Appendice A

DIMENSIONS/DIMENSIONI

MD

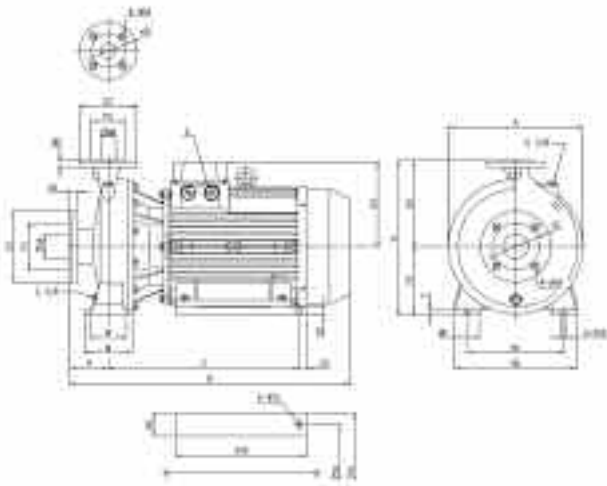
2 POLES/2 POLI



Model/Modello	Dimensions/Dimensioni [mm]																											Weight/ Peso [Kg]								
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	[1]	[2]	R	W	N1	M	N2	M1	F	A	B	C	V [1]										
MD 32-125/1.1	50	102	125	165	20	32	78	100	140	18	252	112	140											205		230	PG 13.5	27.6								
MD 32-125/1.5																																245	431		28.3	
MD 32-160/1.5																																240	50	13		31.5
MD 32-160/2.2																																				35.4
MD 32-200/3																																				44.1
MD 32-200/4																																				50.5
MD 32-250/5.5																																				70.5
MD 32-250/7.5																																				74.6
MD 32-250/9.2																																				84.3
MD 32-250/11																																				87.3
MD 40-125/1.5	65	122	145	185	20	40	88	110	150	20	252	112	140	122	139													28.9								
MD 40-125/2.2																																		31.9		
MD 40-160/3																																			39	
MD 40-160/4																																			45.7	
MD 40-200/5.5																																			60.1	
MD 40-200/7.5																																			68.5	
MD 40-250/11																																			90.7	
MD 40-250/13																																			93	
MD 50-125/2.2																																				34
MD 50-125/3																																				36
MD 50-125/4	80	138	160	200	22	65	122	145	185	20	292	132	160	122	139													230	431	230	PG 13.5					
MD 50-160/5.5																																			42.3	
MD 50-160/7.5																																			57.2	
MD 50-200/9.2																																			68.7	
MD 50-200/11																																			74	
MD 65-125/5.5																																			80.9	
MD 65-125/7.5																																			58.3	
MD 65-160/11																																			67	
MD 65-160/15																																			86.4	
MD 65-160/15																																			91.9	

[1] = Three-phase/Trifase
[2] = Single-phase/Monofase

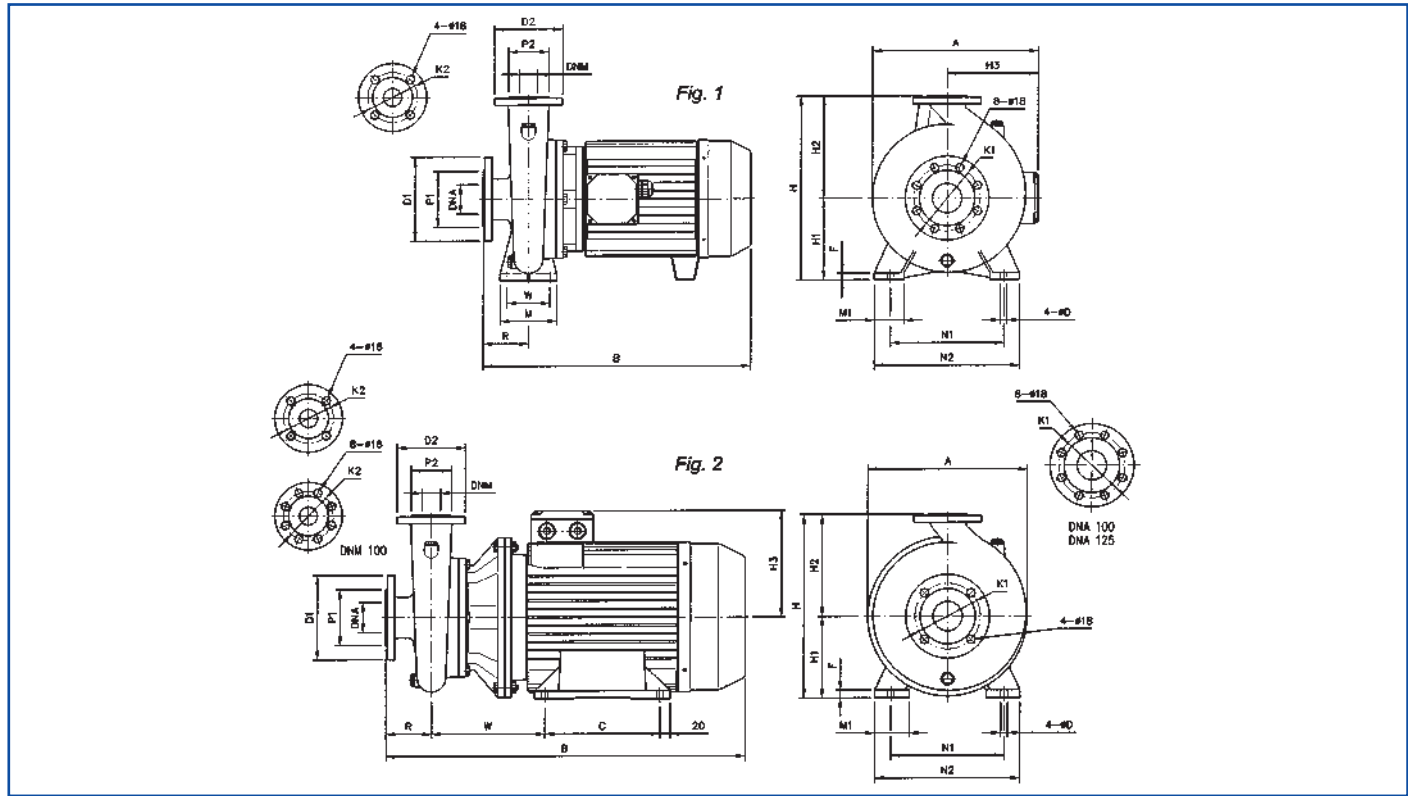
[1] = Three-phase/Trifase
[2] = Single-phase/Monofase



Model/Modello	Dimensions/Dimensioni (mm)																							Weight/ Peso [kg]			
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B		C	V	
MD 40-250/15	65	122	145	185	20	40	88	110	150	18	20	405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	96.8
MD 50-250/15	65					102	125	165	126																		
MD 50-250/18.5	65					102	125	165	148																		
MD 50-250/22	65					102	125	165	126																		
MD 65-200/18.5	80					122	145	185	126																		
MD 65-200/22	80	138	160	200	22	65	122	145	185																	135	

DIMENSIONS/DIMENSIONI

MMD 2 POLES/2 POLI

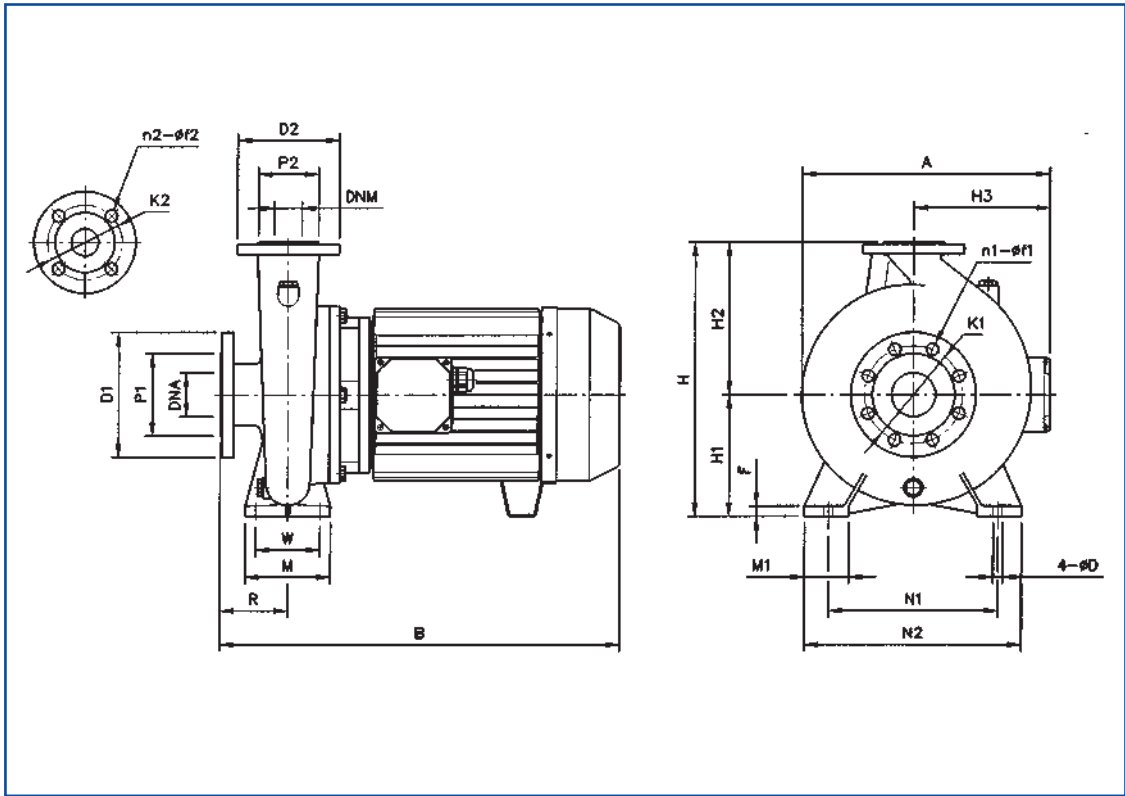


DIMENSIONAL TABLE/TABELLA DIMENSIONI

Model/Modello	Fig.	Dimensions/Dimensioni [mm]																							Weight/ Peso [Kg]	
		DNA	P1	K1	D1	DNM	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	D		
MMD 65-250/22	2	80	138	160	200	65	122	145	185	450	180		230		293	280		320	55	22	365	810	241	14	144	
MMD 65-250/30											200	250	257	100	325	318	-	360	60	24	400	905	305	18	172	
MMD 65-250/37																										
MMD 80-160/10	1									405	180	225	184		95	250	125	320	65	14	345	665	-	14	74	
MMD 80-160/12.5																									81.5	
MMD 80-160/15																									88.5	
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	250	230	293	280	125	325	318	-	360	60	24	400	930	305	18	132
MMD 80-200/22																										150
MMD 80-200/30																										192
MMD 80-200/37																										210
MMD 80-250/37																										196
MMD 100-200/22																										160
MMD 100-200/30		125	188	210	250	100	158	180	220	480	200	280	230	293	318	-	320	55	22	385	835	241	14	202		
MMD 100-200/37																								220		

DIMENSIONS/DIMENSIONI

MMD4 4 POLES/4 POLI

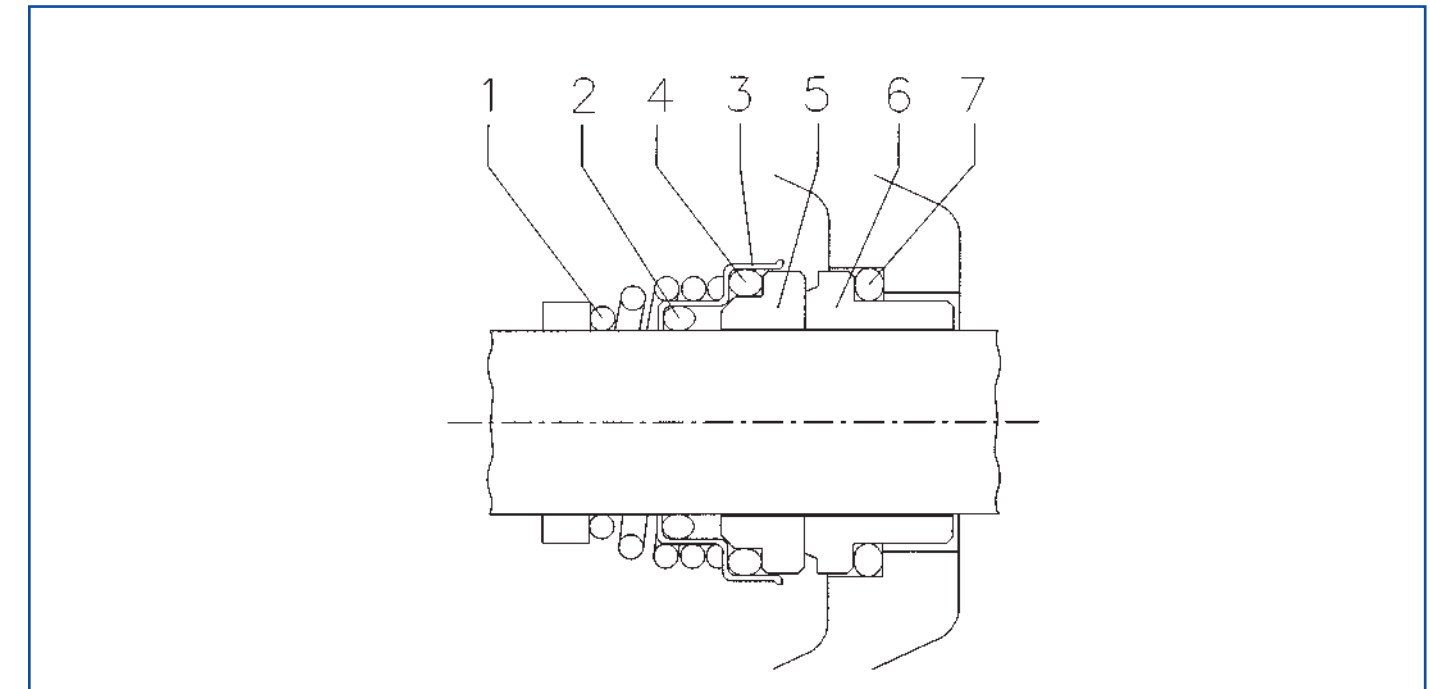
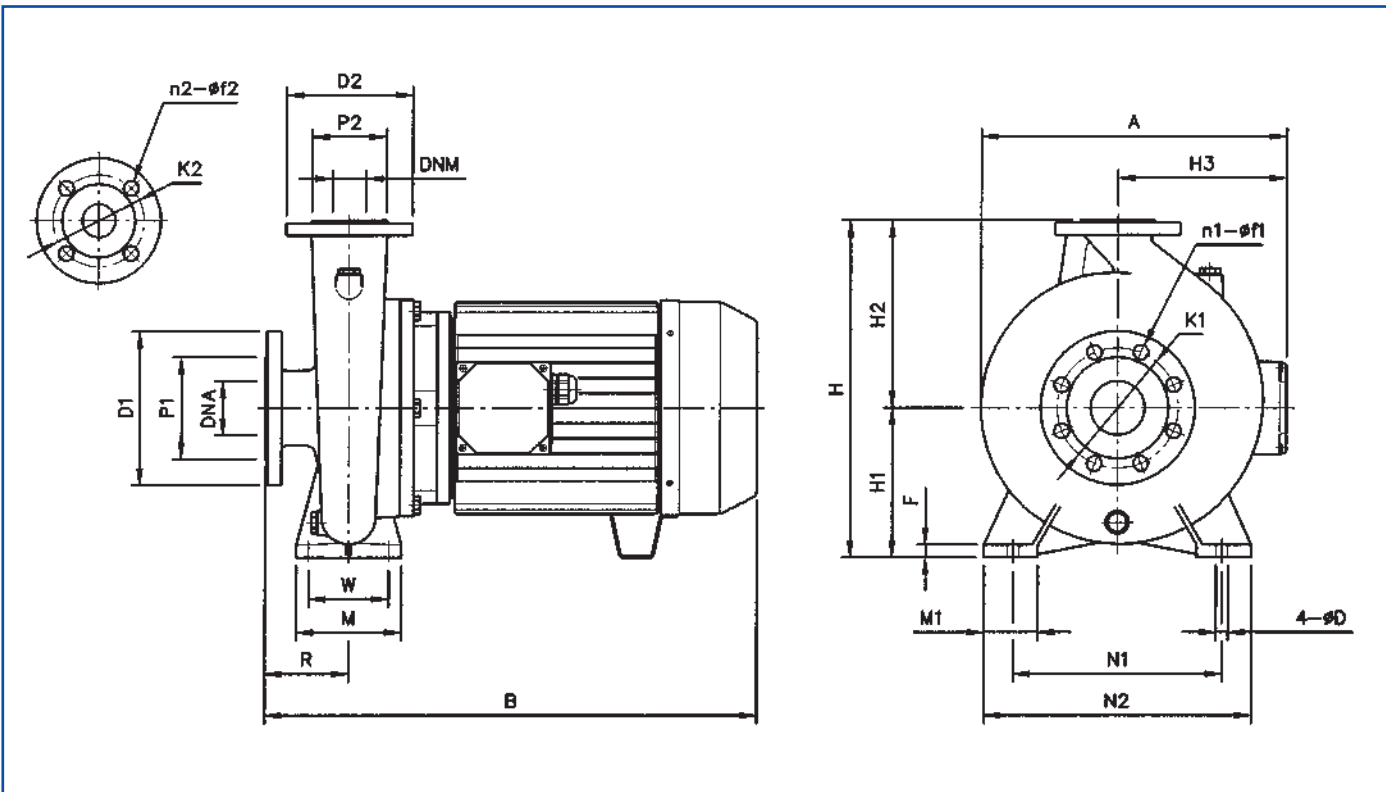


DIMENSIONAL TABLE/TABELLA DIMENSIONI

Model/Modello	Dimensions/Dimensioni [mm]																								Weight/ Peso [Kg]															
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D														
MMD4 32-125/0.25R	50					102	125	165	32		78	100	140	252	112	140	107			140		190			205	405		19.5												
MMD4 32-125/0.25																																							23	
MMD4 32-160/0.37																																								30
MMD4 32-200/0.75																																								31
MMD4 32-200/0.92																																								47
MMD4 32-250/1.1																																								49
MMD4 32-250/1.5											88	110	150	252	112	140	107	80			160		210					20.5												
MMD4 40-125/0.25																																							21.5	
MMD4 40-125/0.37																																								25
MMD4 40-160/0.55																																								36
MMD4 40-200/1.1																																								47.5
MMD4 40-200/1.5																																								54
MMD4 40-250/1.5	65	4	18	122	145	185		4	18					405	180	225	159			95	250	125	320	65	325	525		26												
MMD4 40-250/2.2																																							32	
MMD4 50-125/0.37														292	132	160	107																							33
MMD4 50-125/0.55																																								38
MMD4 50-160/0.75														340			118																							40
MMD4 50-160/0.92																																								57
MMD4 50-200/1.1	80						50			102	125	165		360			159											63												
MMD4 50-200/1.5																																							37.5	
MMD4 50-250/2.2														405	180	225	159																							40
MMD4 50-250/3.0																																								51
MMD4 65-125/0.75														340			118																							57
MMD4 65-160/1.1														360	160	200	149																							
MMD4 65-160/1.5	80									122	145	185					159											90												
MMD4 65-200/2.2																																								
MMD4 65-200/3.0																																								
MMD4 65-250/4.0																																								
MMD4 65-250/5.5														450	200	250	184		120	280	160	360	80	365	640															

CONSTRUCTIONS/PARTICOLARE TENUTA MECCANICA

4 POLES/4 POLI



REF	PART NAME DENOMINAZIONE	PUMP TYPE TIPO POMPA	MATERIAL/MATERIALE			
			STANDARD Max water temperature: Temperatura max dell'acqua: 90°C	OPTIONAL Max water temperature: Temperatura max dell'acqua: 110°C		
1	Spring/Molla	MD	AISI 316	AISI 316	AISI 316	AISI 316
2	O Ring		NBR	FPM	FPM	FPM
3	Cover/Armatura		AISI 304	AISI 316	AISI 316	AISI 316
4	O Ring		NBR	FPM	FPM	FPM
5	Rotary part/Parte rotante		Ceramic/Ceramica	Ceramic/ Ceramica	Tungsten Carbide/ Carburo di tungsteno	SiC
6	Stationary part/Parte fissa		Carbon/Carbone	Carbon/ Carbone	Tungsten Carbide/ Carburo di tungsteno	SiC
7	O Ring		NBR	FPM	FPM	FPM

REF	PART NAME <i>DENOMINAZIONE</i>	PUMP TYPE <i>TIPO POMPA</i>	MATERIAL/MATERIALE	
			STANDARD Max water temperature: <i>Temperatura max dell'acqua:</i> 110°C	OPTIONAL Max water temperature: <i>Temperatura max dell'acqua:</i> 90°C
1	Spring/ <i>Molla</i>	MMD MMD4	AISI 316	AISI 316
2	O Ring		EPDM	NBR
3	Cover/ <i>Armatura</i>		AISI 316	AISI 316
4	O Ring		EPDM	NBR
5	Rotary part/ <i>Parte rotante</i>		SiC	SiC
6	Stationary part/ <i>Parte fissa</i>		SiC	SiC
7	O Ring		EPDM	NBR

Model/Modello	Dimensions/Dimensioni [mm]																											Weight/ Peso [Kg]	
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	HI	H2	H3	R	W	N1	M	N2	M1	F	A	B	D			
NMD4 80-160/1,5	100	8	18										405		225	149			250		320		14	330	510		45		
NMD4 80-160/2,2														180					95		125		65			550	14	51	
NMD4 80-200/3,0				158	180	220	80	4		138	160	200	430		250	159				280		345		12	355	560		66	
NMD4 80-250/4,0																												73	
NMD4 80-250/5,5																			125										96
NMD4 80-250/7,5	125	8	18										480	200		184			315		400			400	665		106		
NMD4 100-200/4,0															280	159			280		360		14	385	580		78		
NMD4 100-200/5,5				188	210	250	100		18	158	180	220													665			90	
NMD4 100-250/7,5													505	225		184									420	675		112	
NMD4 100-250/9,2																				120		160		80				118	
NMD4 125-200/5,5	150	8	18																				14			18	124		
NMD4 125-200/7,5SR																								14				134	
NMD4 125-200/7,5				212	240	285	125			188	210	250		250		255		140		315		400		14	470			140	
NMD4 125-200/9,2																								14				162	
NMD4 125-250/11																									16				190
NMD4 125-250/15	200	22	22																				16				167		
NMD4 150-200/7,5																								22				173	
NMD4 150-200/9,2				268		340	150			212	240	285	680	280	400		160							22	550			175	
NMD4 150-200/11																									22				203
NMD4 150-200/15																										22			278
NMD4 200-250/18,5R	250	12	22		295				22							295		155	450	200	550	100				24			
NMD4 200-250/18,5																								22					
NMD4 200-250/22R				320		395	200			268	295	340	765	315	450		200								22	630	1000		300
NMD4 200-250/22																										22			



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