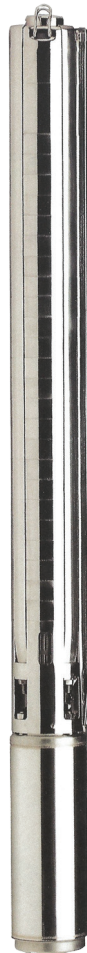




BOMBAS 4" F
PUMPS 4" F



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

BOMBA (PT)

- Caudal: até 25 m³/h a 2850 rpm.
- Altura manométrica: até 521 m a 2850 rpm.
- Saída: 1¼" e 2".
- Ensaio segundo a norma ISO 9906.
- Diâmetro: 98,5 mm.
- Potência: até 7,5 kW.

CARACTERÍSTICAS

- Bomba do tipo centrífugo multicelular com turbinas flutuantes radiais ou semi-axiais.
- Turbinas e difusores em noryl ou polycarbonato com elementos anti-desgaste em aço inoxidável AISI 304.
- Exterior da bomba em aço inoxidável AISI 304.
- Árvore da bomba em aço inoxidável AISI 304.
- Instalação vertical ou horizontal.
- Acoplamento: Norma NEMA.

APLICAÇÕES

- Bombeamento de águas limpas de furos, poços, reservatórios e canais de água.
- Abastecimento de água para aplicações domésticas, irrigação agrícola, sistemas hidropneumáticos, ...

BOMBA (ESP)

- Caudal: hasta 25 m³/h a 2850 rpm.
- Altura manométrica: hasta 521 m a 2850 rpm.
- Salida: 1¼" y 2".
- Ensayos según la norma ISO 9906.
- Diámetro: 98,5 mm.
- Potencia: hasta 7,5 kW

CARACTERÍSTICAS

- Bomba del tipo centrífugo multicelular con impulsores flotantes radiales o semi-axiales.
- Impulsores y difusores en noryl o polycarbonato con elementos anti-desgaste en acero inoxidable AISI 304.
- Exterior de la bomba en acero inoxidable AISI 304.
- Eje de la bomba en acero inoxidable AISI 304.
- Instalación vertical o horizontal.
- Acoplamiento: Norma NEMA

APLICACIONES

- Bombeo de aguas limpias de pozos, depósitos y canales de agua.
- Suministro de agua para aplicaciones domésticas, irrigación agrícola, sistemas hidroneumáticos, ...

PUMP (ENG)

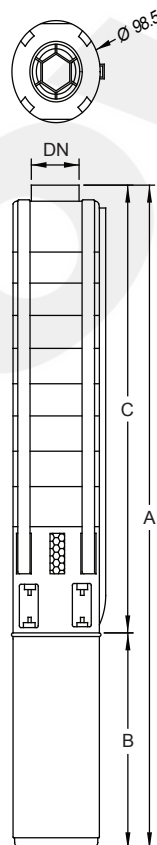
- Flow: up to 25 m³/h at 2850 rpm.
- Manometric head: up to 521 m at 2850 rpm.
- Delivery outlet: 1¼" and 2".
- Tested according standard ISO 9906.
- Diameter: 98,5 mm.
- Power: up to 7,5 kW.

CHARACTERISTIC

- Multi-stage pumps built in sections with radial or semi-axial floating impellers.
- Impellers and diffusers in noryl or polycarbonate with stainless steel AISI 304 wear rings.
- Pump outside totally in stainless steel AISI 304.
- Shaft in stainless steel AISI 304.
- Installation vertical or horizontal.
- Coupling: NEMA standard.

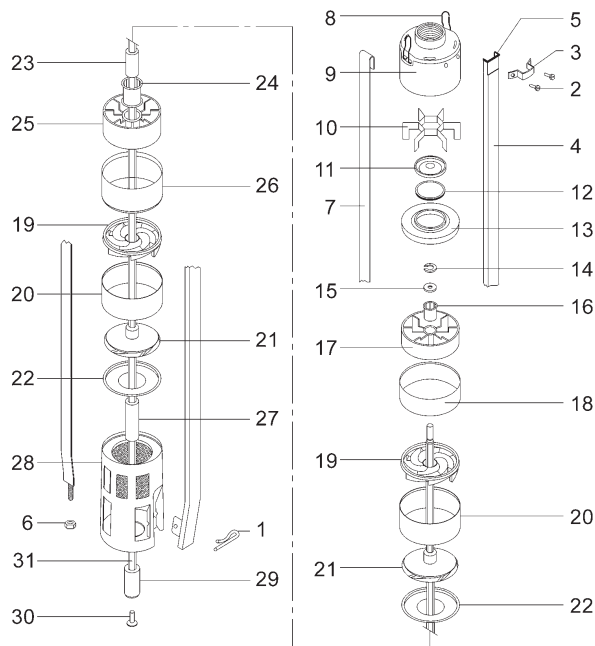
APPLICATIONS

- Pump clean water from bore holes, reservoirs and lake rivers.
- Domestic water supply, irrigation, spraying watering, sprinkling, pressurization systems, ...



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

PEÇAS - PARTS



LEGENDA (PT)

- 1 Cavilha
- 2 Parafuso
- 3 Abraçadeira
- 4 Calha protectora do cabo
- 5 Borracha de protecção
- 6 Porca
- 7 Tirante
- 8 Gancho de suporte
- 9 Suporte superior
- 10 Guia de válvula
- 11 Válvula
- 12 O'ring
- 13 Base de válvula
- 14 Freio
- 15 Anilha
- 16 Casquilho da guia superior
- 17 Guia superior
- 18 Argola da guia superior
- 19 Difusor
- 20 Argola do difusor
- 21 Turbinas
- 22 Tampa do difusor
- 23 Casquilho
- 24 Casquilho da guia central
- 25 Guia central
- 26 Argola da guia central
- 27 Casquilho inferior
- 28 Câmara aspirante
- 29 Cardan
- 30 Parafuso
- 31 Árvore da bomba

SUBTÍTULOS (ESP)

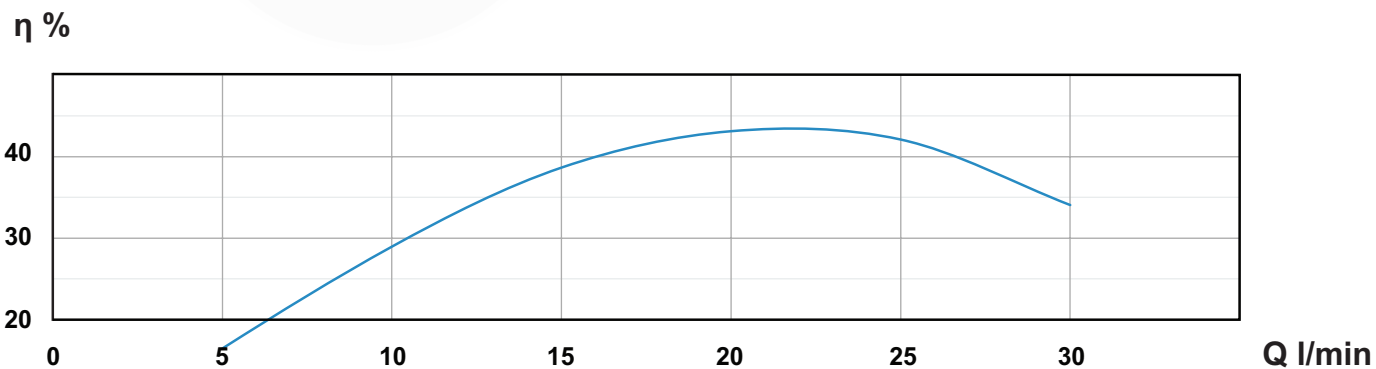
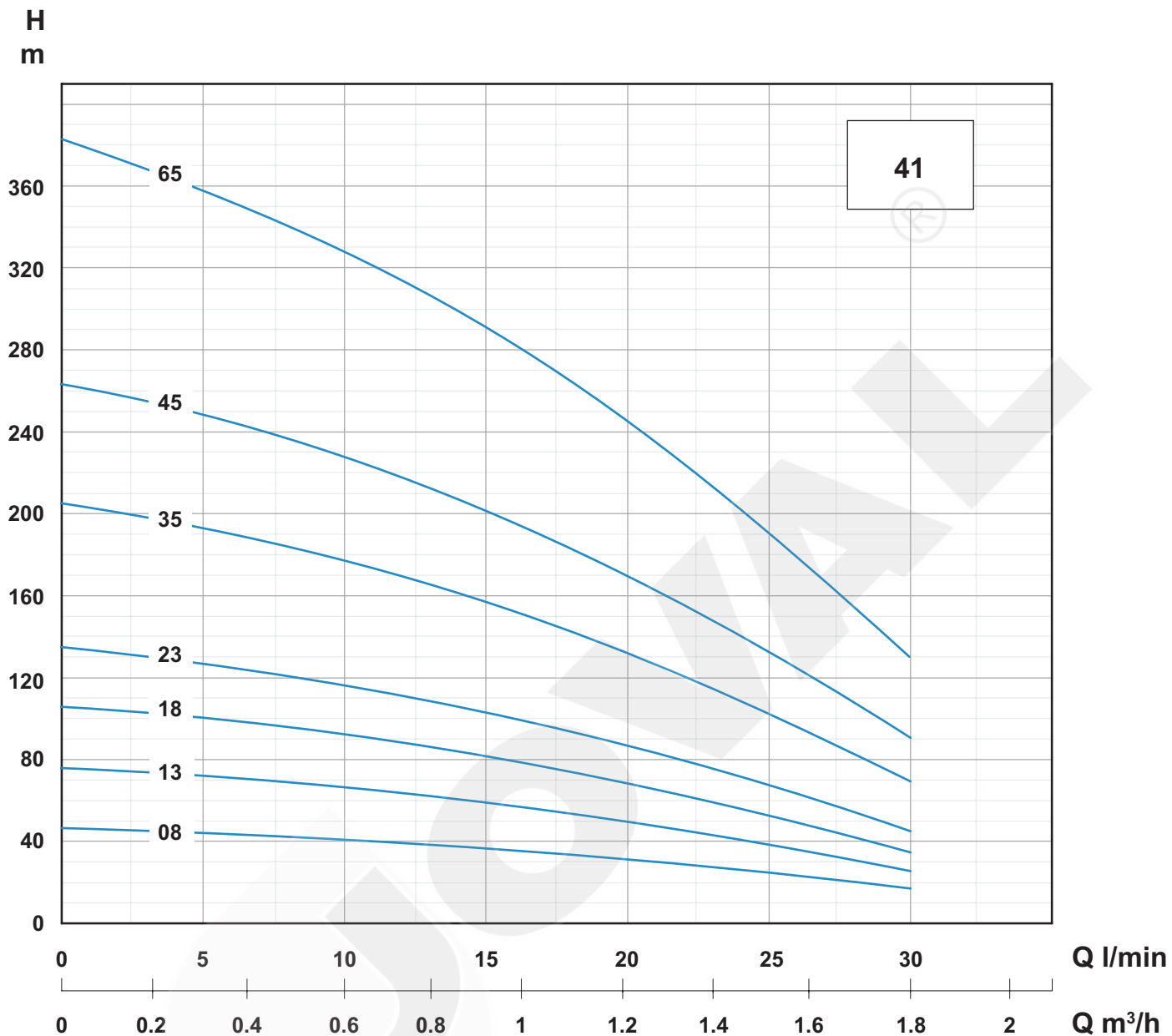
- 1 Clavija del tirante
- 2 Tornillo
- 3 Abrazadera
- 4 Cubre cable
- 5 Goma de protección
- 6 Hembra
- 7 Tirante
- 8 Gancho de movimiento
- 9 Suporte superior
- 10 Guia de la válvula
- 11 Válvula
- 12 O'ring
- 13 Base de la válvula
- 14 Freno
- 15 Arandela
- 16 Casquillo de la guía superior
- 17 Guía superior
- 18 Aro
- 19 Difusor
- 20 Aro del difusor
- 21 Impulsores
- 22 Tapa del difusor
- 23 Casquillo
- 24 Casquillo de la guía central
- 25 Guia central
- 26 Aro
- 27 Casquillo inferior
- 28 Cuerpo aspirante
- 29 Cardan
- 30 Tornillo
- 31 Eje

SUBTITLES (ENG)

- 1 Tie-rod bolt
- 2 Screw
- 3 Brace
- 4 Wire cover
- 5 Protection rubber
- 6 Nut
- 7 Tie-rod
- 8 Support
- 9 Pump head
- 10 Valve guide
- 11 Valve
- 12 O'ring
- 13 Valve bracket
- 14 Shaft end pressure
- 15 Washer
- 16 Top bushing
- 17 Top bushing bracket
- 18 Cover
- 19 Diffuser
- 20 Diffuser cover
- 21 Impeller
- 22 Diffuser
- 23 Spacer bush
- 24 Bushing
- 25 Bushing bracket
- 26 Cover
- 27 Spacer bush
- 28 Suction casing
- 29 Cardan
- 30 Coupling attachment
- 31 Shaft

BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



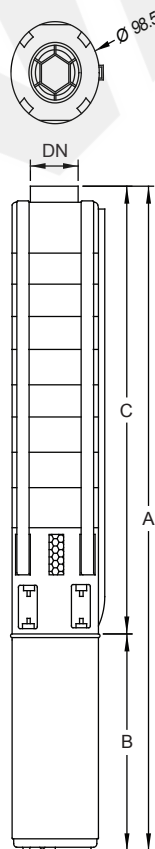
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | |
|---------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|----|-----|-----|-----|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 0,6 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 |
| A | | | A | l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | |
| 41 08 F | 0,25 | 0,33 | 2,4 | | H m | 47 | 40 | 30 | 16 | | | | | |
| 41 13 F | 0,37 | 0,5 | 3,3 | 1,1 | | 76 | 66 | 49 | 26 | | | | | |
| 41 18 F | 0,55 | 0,75 | 4,3 | 1,5 | | 106 | 91 | 68 | 36 | | | | | |
| 41 23 F | 0,75 | 1 | 5,7 | 2,0 | | 135 | 116 | 86 | 45 | | | | | |
| 41 35 F | 1,1 | 1,5 | 8,4 | 2,8 | | 205 | 177 | 131 | 69 | | | | | |
| 41 45 F | 1,5 | 2 | 10,7 | 3,9 | | 264 | 227 | 169 | 89 | | | | | |
| 41 65 F | 2,2 | 3 | 14,7 | 5,5 | | 381 | 328 | 244 | 129 | | | | | |

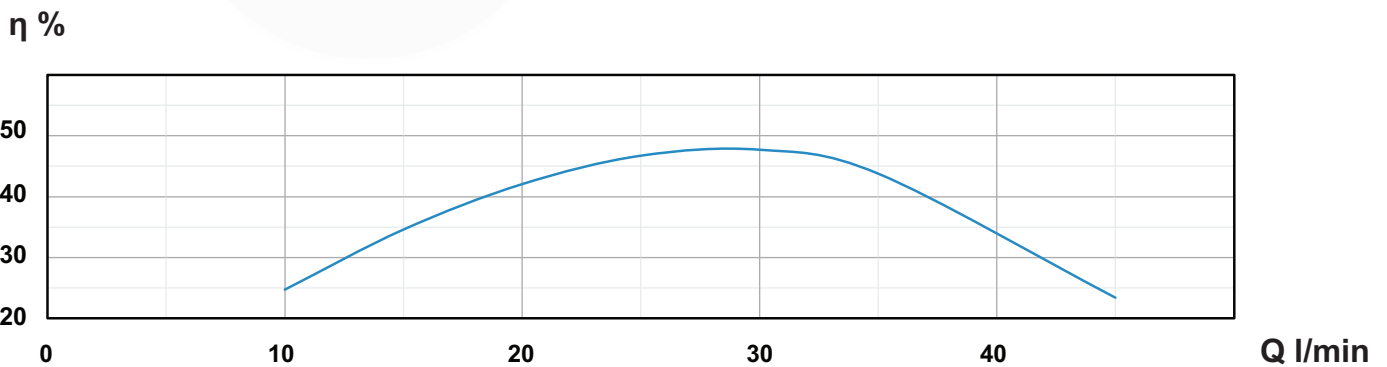
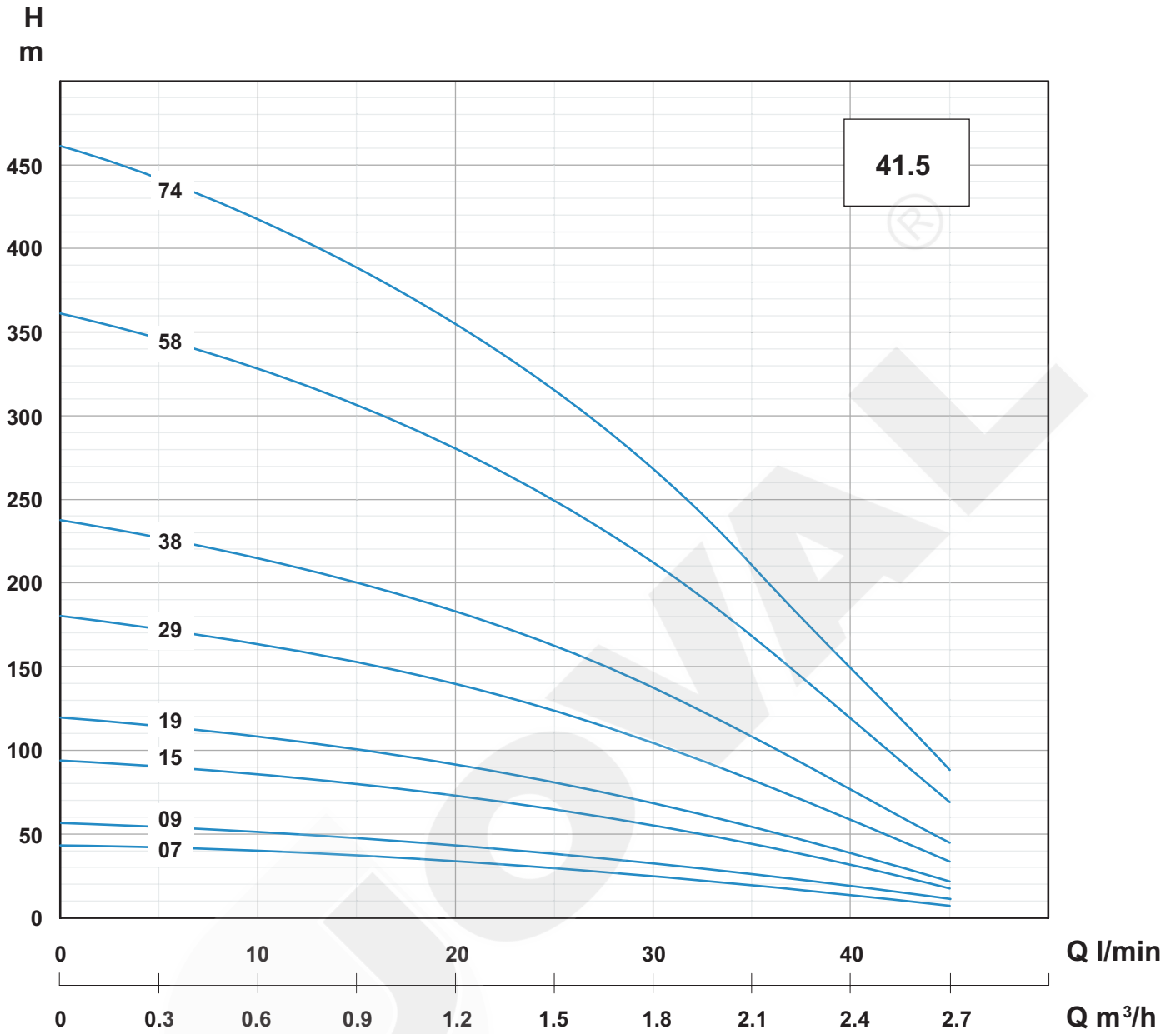
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|---------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 41 08 F | 3,2 | 386 | 1"¼ |
| 41 13 F | 4,2 | 479 | |
| 41 18 F | 5,4 | 612 | |
| 41 23 F | 6,3 | 705 | |
| 41 35 F | 9,0 | 968 | |
| 41 45 F | 11,9 | 1194 | |
| 41 65 F | 16,2 | 1646 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



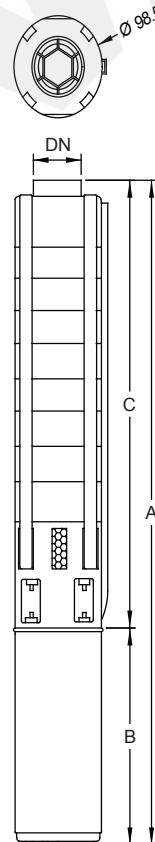
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | |
|-----------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|----|-----|-----|-----|
| | kW | HP | 1~230V | 3~400V | m ³ /h | 0 | 0,6 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 |
| A | | | A | l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | |
| 41.5 07 F | 0,25 | 0,33 | 2,4 | | H m | 44 | 40 | 34 | 25 | 15 | | | | |
| 41.5 09 F | 0,37 | 0,5 | 3,3 | 1,1 | | 56 | 51 | 43 | 33 | 19 | | | | |
| 41.5 15 F | 0,55 | 0,75 | 4,3 | 1,5 | | 94 | 85 | 72 | 55 | 32 | | | | |
| 41.5 19 F | 0,75 | 1 | 5,7 | 2,0 | | 119 | 107 | 91 | 69 | 40 | | | | |
| 41.5 29 F | 1,1 | 1,5 | 8,4 | 2,8 | | 181 | 164 | 140 | 106 | 61 | | | | |
| 41.5 38 F | 1,5 | 2 | 10,7 | 3,9 | | 237 | 215 | 183 | 138 | 79 | | | | |
| 41.5 58 F | 2,2 | 3 | 14,7 | 5,5 | | 362 | 328 | 279 | 211 | 120 | | | | |
| 41.5 74 F | 3 | 4 | | 7,5 | | 462 | 418 | 356 | 269 | 151 | | | | |

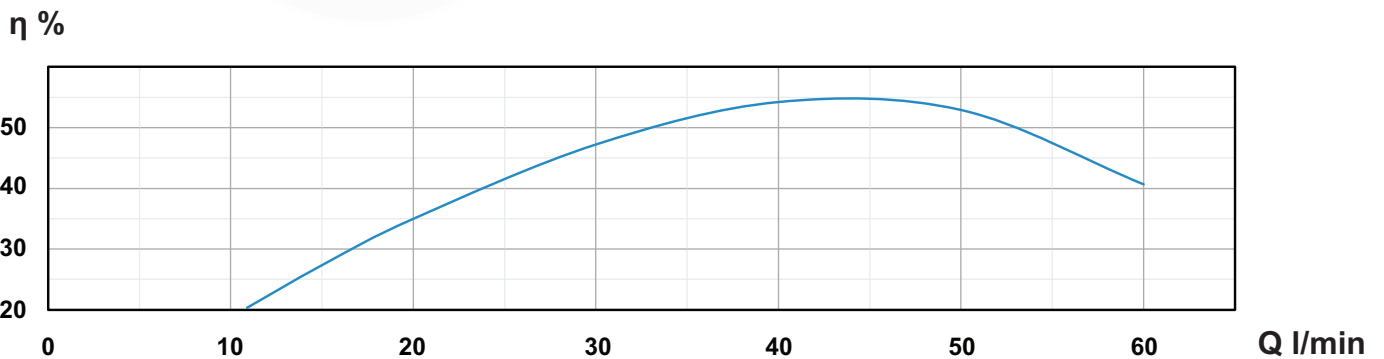
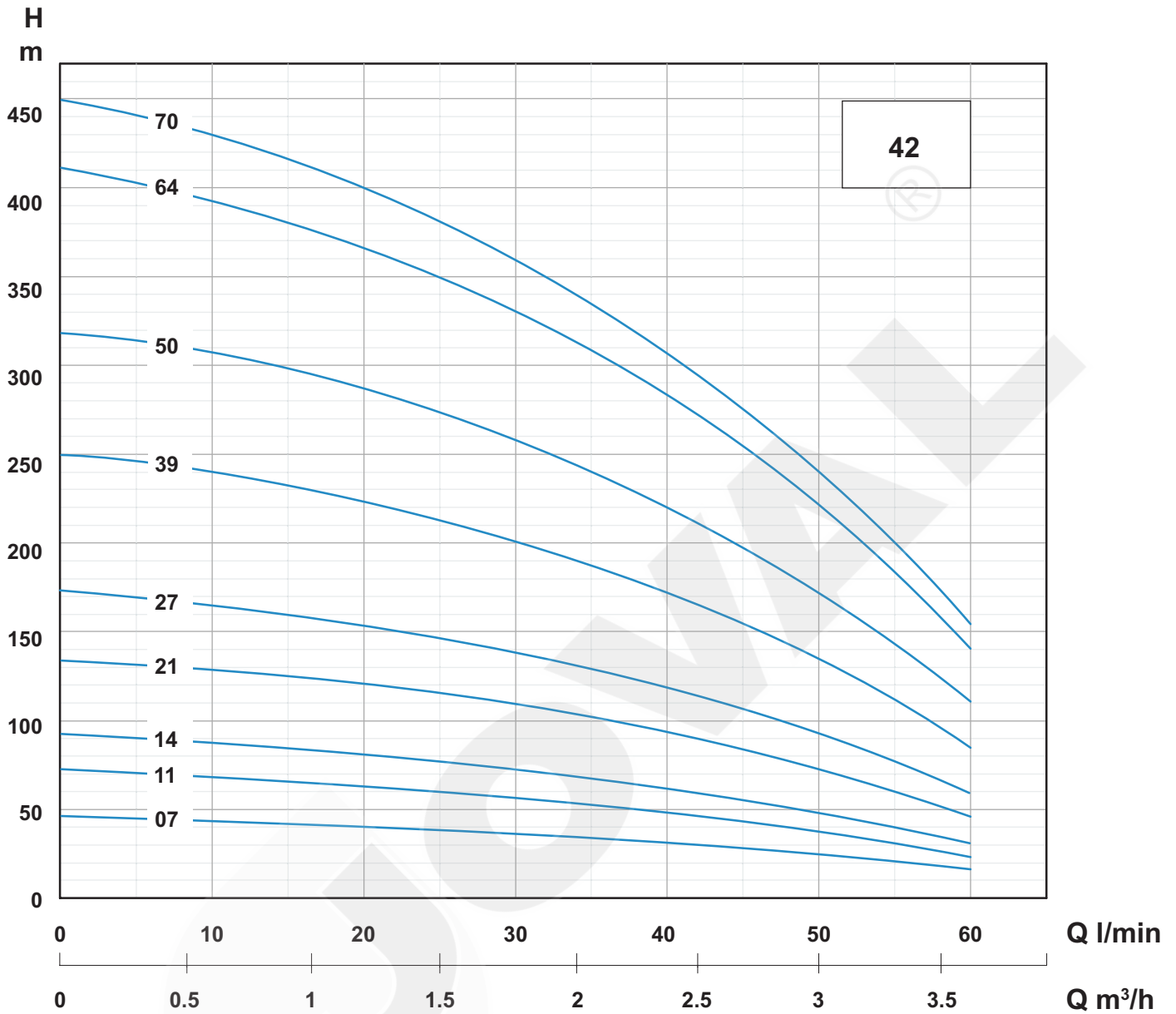
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|-----------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 41.5 07 F | 3,2 | 368 | 1"¼ |
| 41.5 09 F | 3,6 | 405 | |
| 41.5 15 F | 4,3 | 516 | |
| 41.5 19 F | 5,6 | 631 | |
| 41.5 29 F | 7,6 | 816 | |
| 41.5 38 F | 9,7 | 1023 | |
| 41.5 58 F | 14,5 | 1434 | |
| 41.5 74 F | 17,7 | 1812 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



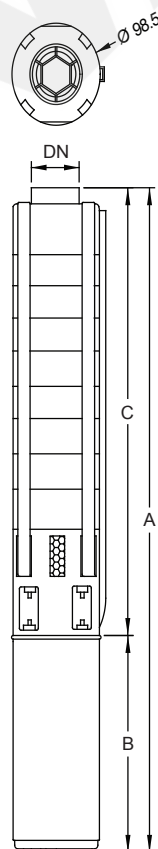
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | |
|---------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 0,6 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 | |
| A | | | A | l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | | |
| 42 07 F | 0,37 | 0,5 | 3,3 | 1,1 | H m | 45 | 43 | 40 | 36 | 31 | 24 | 16 | | | |
| 42 11 F | 0,55 | 0,75 | 4,3 | 1,5 | | 71 | 68 | 63 | 57 | 49 | 39 | 25 | | | |
| 42 14 F | 0,75 | 1 | 5,7 | 2,0 | | 90 | 86 | 80 | 72 | 62 | 49 | 31 | | | |
| 42 21 F | 1,1 | 1,5 | 8,4 | 2,8 | | 135 | 129 | 120 | 108 | 93 | 73 | 47 | | | |
| 42 27 F | 1,5 | 2 | 10,7 | 3,9 | | 173 | 166 | 154 | 139 | 120 | 93 | 60 | | | |
| 42 39 F | 2,2 | 3 | 14,7 | 5,5 | | 250 | 240 | 223 | 201 | 173 | 135 | 86 | | | |
| 42 50 F | 3 | 4 | | 7,5 | | 321 | 307 | 286 | 257 | 221 | 173 | 111 | | | |
| 42 64 F | 3,7 | 5 | | 9,0 | | 411 | 393 | 366 | 329 | 283 | 221 | 142 | | | |
| 42 70 F | 4 | 5,5 | | 9,9 | | 450 | 430 | 400 | 360 | 310 | 242 | 155 | | | |

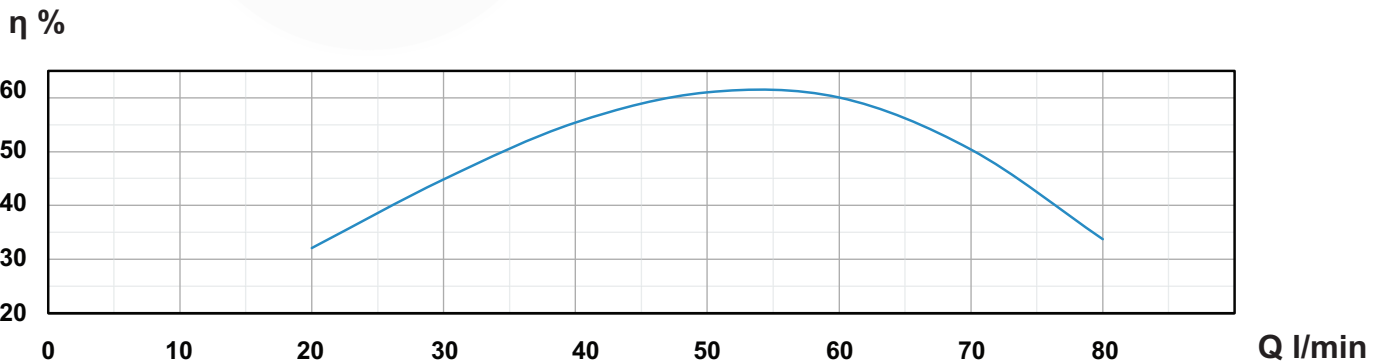
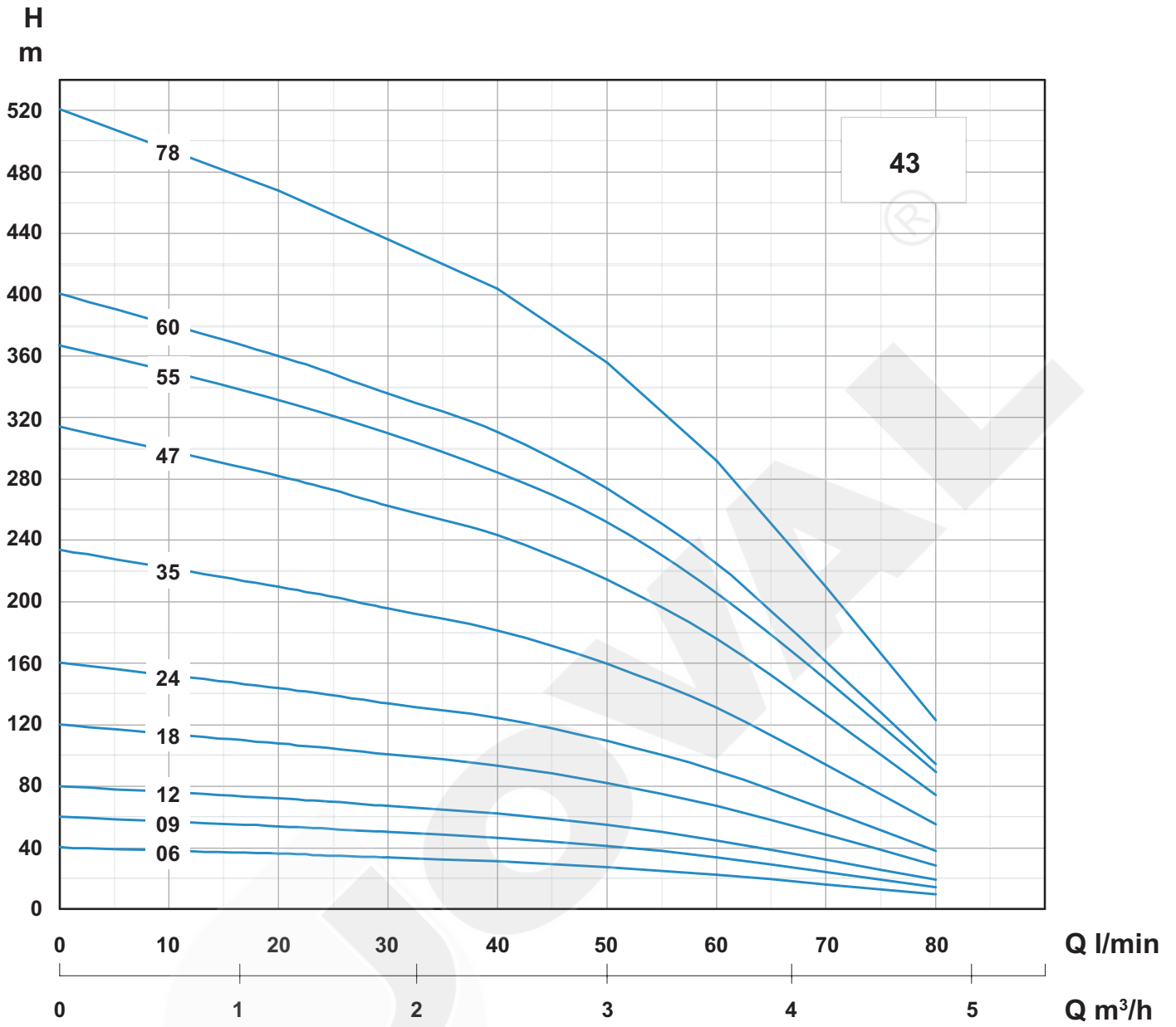
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|---------|--------|--------|--------|
| Model | Weight | Height | Salida |
| | kg | mm | Outlet |
| 42 07 F | 3,2 | 368 | 1"¼ |
| 42 11 F | 3,9 | 442 | |
| 42 14 F | 4,2 | 497 | |
| 42 21 F | 5,7 | 649 | |
| 42 27 F | 7,1 | 779 | |
| 42 39 F | 10,0 | 1042 | |
| 42 50 F | 13,0 | 1286 | |
| 42 64 F | 15,5 | 1586 | |
| 42 70 F | 17,9 | 1738 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



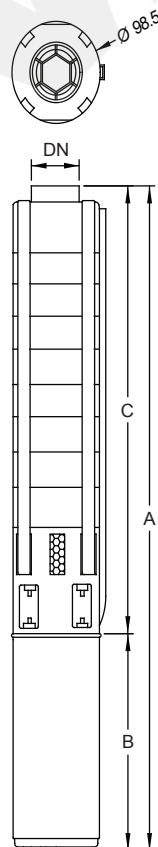
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | |
|----------------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 0,6 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 |
| A | | | A | l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | |
| 43 06 F | 0,37 | 0,5 | 3,3 | 1,1 | H m | 40 | | 36 | 34 | 31 | 27 | 22 | 16 | 9 |
| 43 09 F | 0,55 | 0,75 | 4,3 | 1,5 | | 60 | | 54 | 50 | 47 | 41 | 34 | 24 | 14 |
| 43 12 F | 0,75 | 1 | 5,7 | 2,0 | | 80 | | 72 | 67 | 62 | 55 | 45 | 32 | 19 |
| 43 18 F | 1,1 | 1,5 | 8,4 | 2,8 | | 120 | | 108 | 101 | 93 | 82 | 67 | 48 | 28 |
| 43 24 F | 1,5 | 2 | 10,7 | 3,9 | | 160 | | 144 | 134 | 124 | 110 | 90 | 65 | 38 |
| 43 35 F | 2,2 | 3 | 14,7 | 5,5 | | 234 | | 210 | 196 | 181 | 160 | 131 | 94 | 55 |
| 43 47 F | 3 | 4 | | 7,5 | | 314 | | 282 | 263 | 243 | 215 | 176 | 127 | 74 |
| 43 55 F | 3,7 | 5 | | 9,0 | | 367 | | 330 | 307 | 285 | 251 | 206 | 148 | 87 |
| 43 60 F | 4 | 5,5 | | 9,9 | | 401 | | 360 | 335 | 311 | 274 | 225 | 162 | 95 |
| 43 78 F | 5,5 | 7,5 | | 12,6 | | 521 | | 468 | 436 | 404 | 356 | 292 | 210 | 123 |

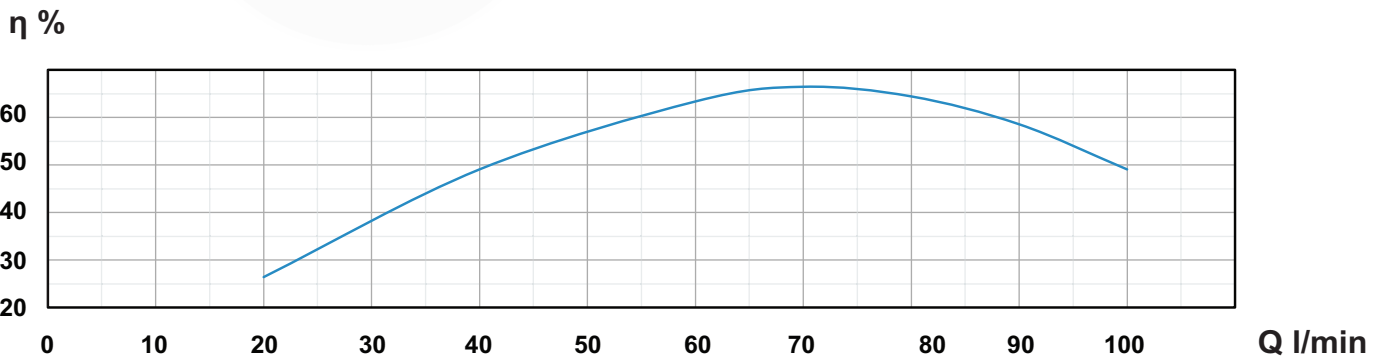
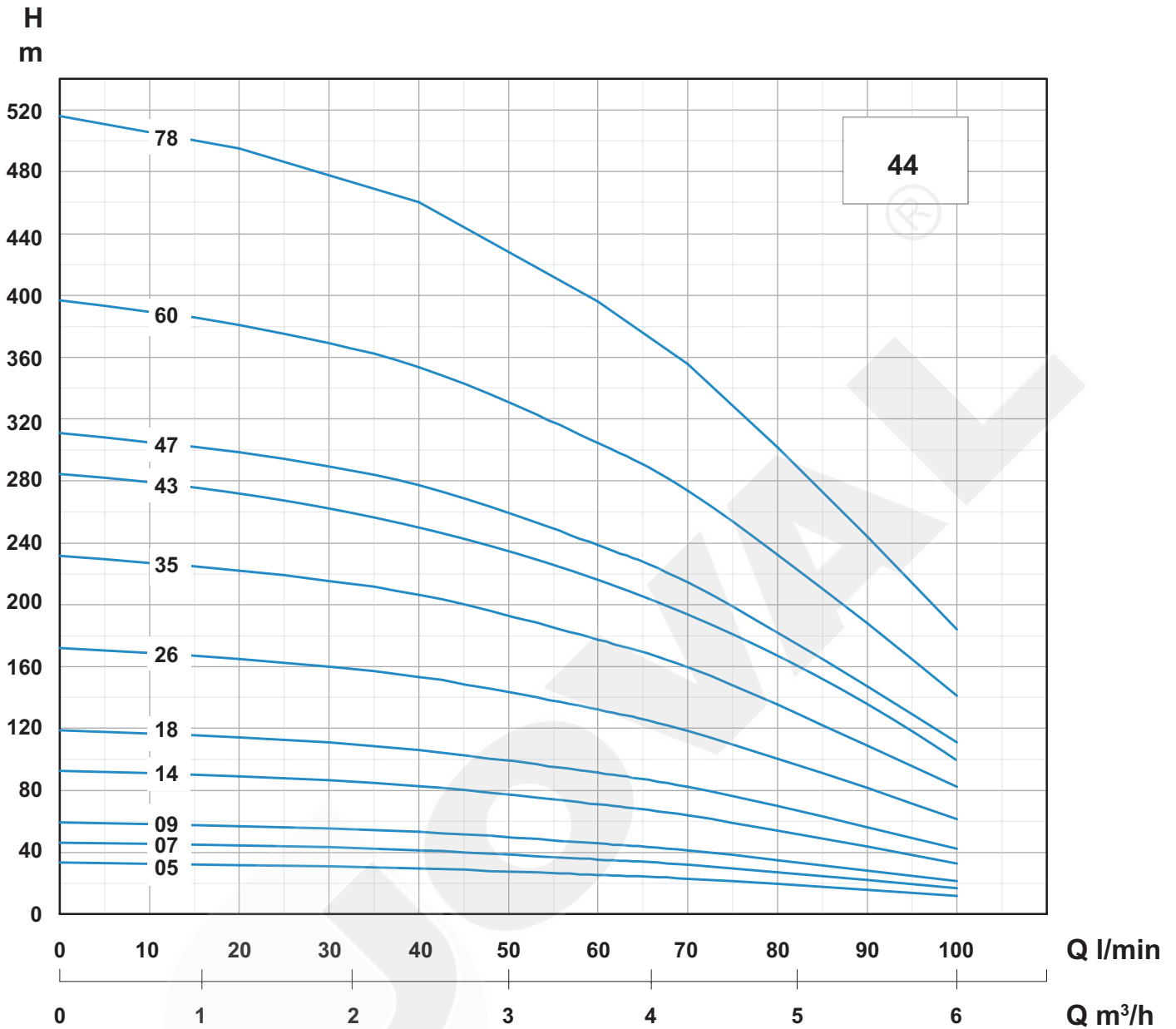
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|----------------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 43 06 F | 3,2 | 370 | 1"¼ |
| 43 09 F | 3,8 | 436 | |
| 43 12 F | 4,5 | 502 | |
| 43 18 F | 6,0 | 675 | |
| 43 24 F | 8,5 | 807 | |
| 43 35 F | 10,0 | 1090 | |
| 43 47 F | 12,8 | 1395 | |
| 43 55 F | 12,8 | 1612 | |
| 43 60 F | 16,8 | 1722 | |
| 43 78 F | 21,0 | 2159 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



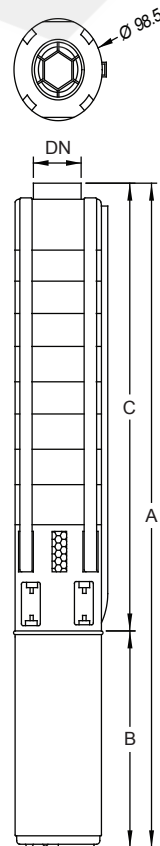
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | | | | | | |
|---------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|--|
| | kW | HP | 1~230V | 3~400V | m ³ /h | 0 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 | |
| A | | | A | l/min | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | | |
| 44 05 F | 0,37 | 0,5 | 3,3 | 1,1 | H m | 33 | 32 | 31 | 29 | 27 | 25 | 23 | 19 | 16 | 12 | | | | | | | |
| 44 07 F | 0,55 | 0,75 | 4,3 | 1,5 | | 46 | 44 | 43 | 41 | 38 | 36 | 32 | 27 | 22 | 17 | | | | | | | |
| 44 09 F | 0,75 | 1 | 5,7 | 2,0 | | 60 | 57 | 55 | 53 | 49 | 46 | 41 | 35 | 28 | 21 | | | | | | | |
| 44 14 F | 1,1 | 1,5 | 8,4 | 2,8 | | 93 | 89 | 86 | 83 | 77 | 71 | 64 | 54 | 44 | 33 | | | | | | | |
| 44 18 F | 1,5 | 2 | 10,7 | 3,9 | | 119 | 114 | 110 | 106 | 99 | 91 | 82 | 70 | 56 | 42 | | | | | | | |
| 44 26 F | 2,2 | 3 | 14,7 | 5,5 | | 172 | 165 | 159 | 153 | 143 | 132 | 119 | 101 | 81 | 61 | | | | | | | |
| 44 35 F | 3 | 4 | | 7,5 | | 232 | 222 | 206 | 206 | 178 | 178 | 160 | 136 | 109 | 82 | | | | | | | |
| 44 43 F | 3,7 | 5 | | 9,0 | | 284 | 273 | 265 | 254 | 239 | 218 | 196 | 166 | 135 | 101 | | | | | | | |
| 44 47 F | 4 | 5,5 | | 9,9 | | 311 | 298 | 287 | 277 | 258 | 239 | 215 | 182 | 147 | 111 | | | | | | | |
| 44 60 F | 5,5 | 7,5 | | 12,6 | | 397 | 381 | 367 | 354 | 329 | 305 | 274 | 232 | 188 | 142 | | | | | | | |
| 44 78 F | 7,5 | 10 | | 17,1 | 516 | 495 | 477 | 460 | 428 | 396 | 356 | 302 | 244 | 184 | | | | | | | | |

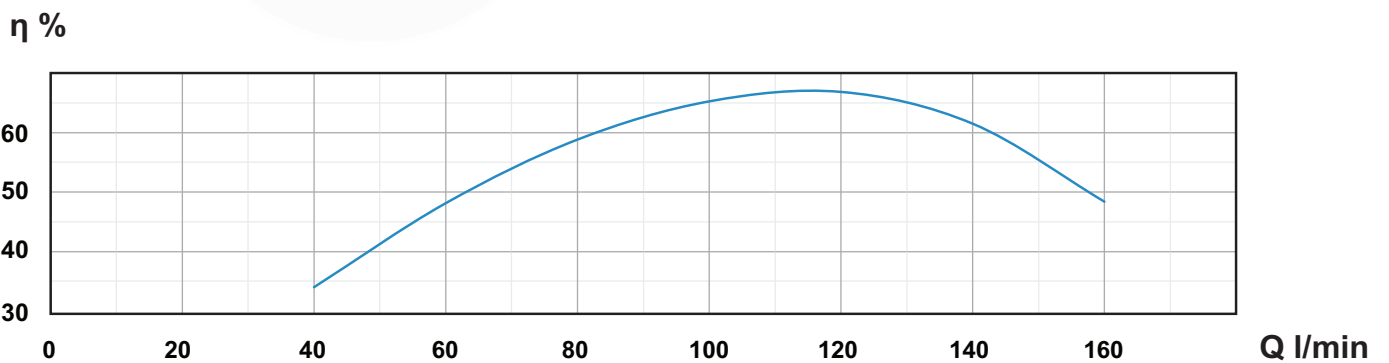
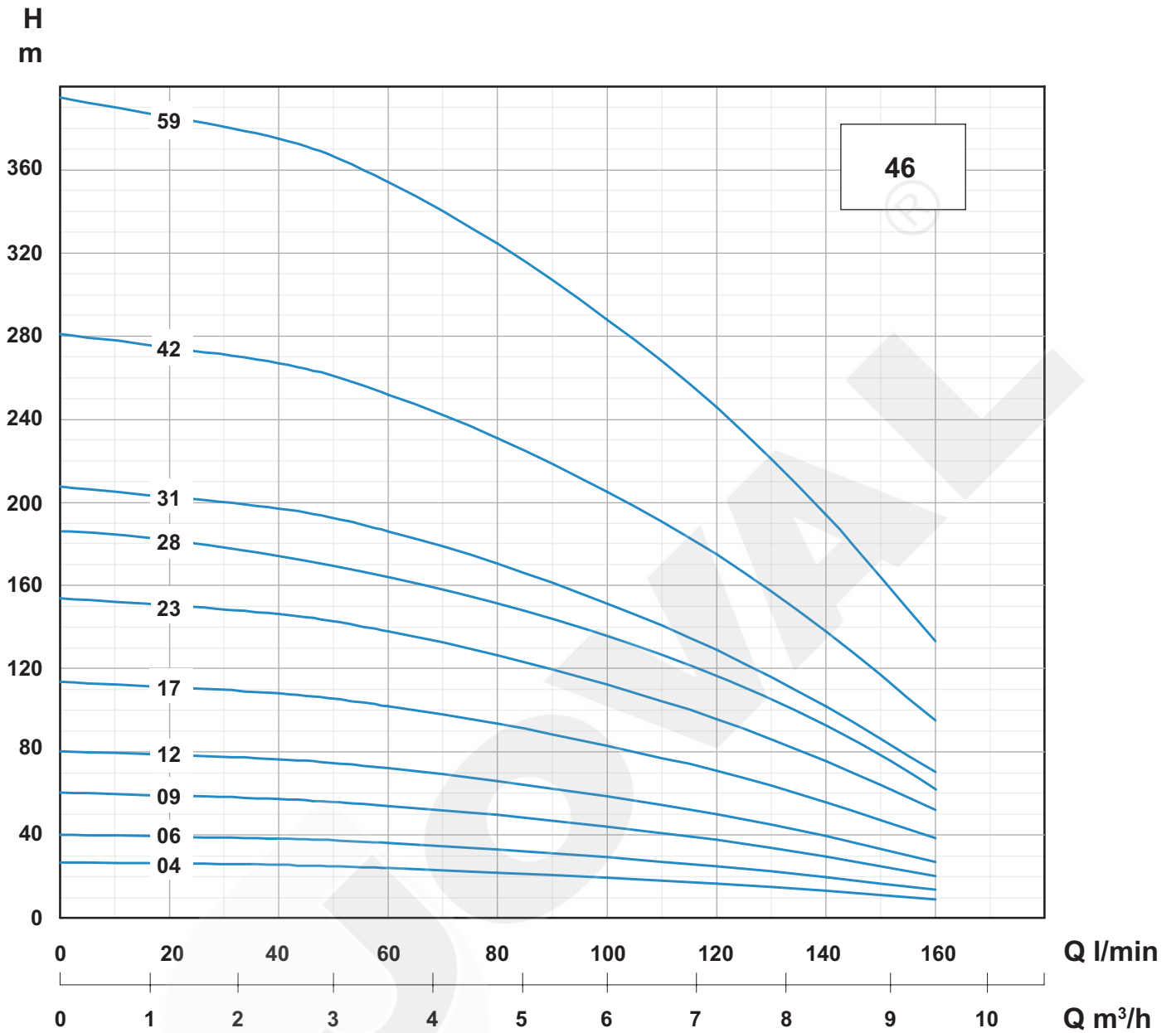
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|---------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 44 05 F | 3,0 | 348 | 1"¼ |
| 44 07 F | 3,4 | 392 | |
| 44 09 F | 3,8 | 436 | |
| 44 14 F | 4,9 | 546 | |
| 44 18 F | 6,0 | 675 | |
| 44 26 F | 7,7 | 851 | |
| 44 35 F | 10,0 | 1090 | |
| 44 43 F | 11,5 | 1307 | |
| 44 47 F | 13,0 | 1395 | |
| 44 60 F | 16,0 | 1722 | |
| 44 78 F | 20,2 | 2159 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

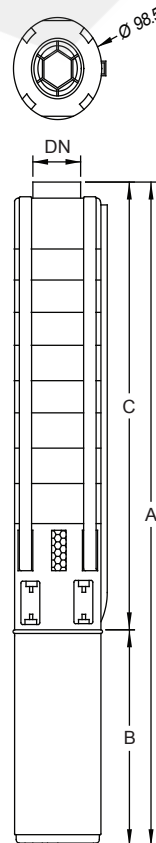
CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | | | | | |
|---------|-------|------|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|
| | kW | HP | 1~230V | 3~400V | m ³ /h | 0 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 |
| A | | | A | l/min | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | |
| 46 04 F | 0,55 | 0,75 | 4,3 | 1,5 | H m | 27 | | | 25 | 25 | 24 | 23 | 22 | 21 | 20 | 17 | 13 | 9 | | | |
| 46 06 F | 0,75 | 1 | 5,7 | 2,0 | | 40 | | | 38 | 37 | 36 | 35 | 33 | 31 | 29 | 25 | 20 | 14 | | | |
| 46 09 F | 1,1 | 1,5 | 8,4 | 2,8 | | 60 | | | 57 | 56 | 54 | 52 | 50 | 47 | 44 | 38 | 30 | 20 | | | |
| 46 12 F | 1,5 | 2 | 10,7 | 3,9 | | 80 | | | 76 | 74 | 72 | 69 | 66 | 62 | 59 | 50 | 39 | 27 | | | |
| 46 17 F | 2,2 | 3 | 14,7 | 5,5 | | 114 | | | 108 | 105 | 102 | 98 | 94 | 88 | 83 | 71 | 56 | 38 | | | |
| 46 23 F | 3 | 4 | | 7,5 | | 154 | | | 146 | 142 | 138 | 133 | 127 | 119 | 112 | 96 | 76 | 52 | | | |
| 46 28 F | 3,7 | 5 | | 9,0 | | 187 | | | 178 | 173 | 168 | 161 | 154 | 145 | 137 | 117 | 92 | 63 | | | |
| 46 31 F | 4 | 5,5 | | 9,9 | | 207 | | | 197 | 192 | 186 | 179 | 171 | 161 | 151 | 129 | 102 | 70 | | | |
| 46 42 F | 5,5 | 7,5 | | 12,6 | | 281 | | | 267 | 260 | 252 | 242 | 231 | 218 | 205 | 175 | 138 | 95 | | | |
| 46 59 F | 7,5 | 10 | | 17,1 | | 395 | | | 375 | 365 | 354 | 340 | 325 | 306 | 288 | 246 | 194 | 133 | | | |

Q - Caudal
- Flow

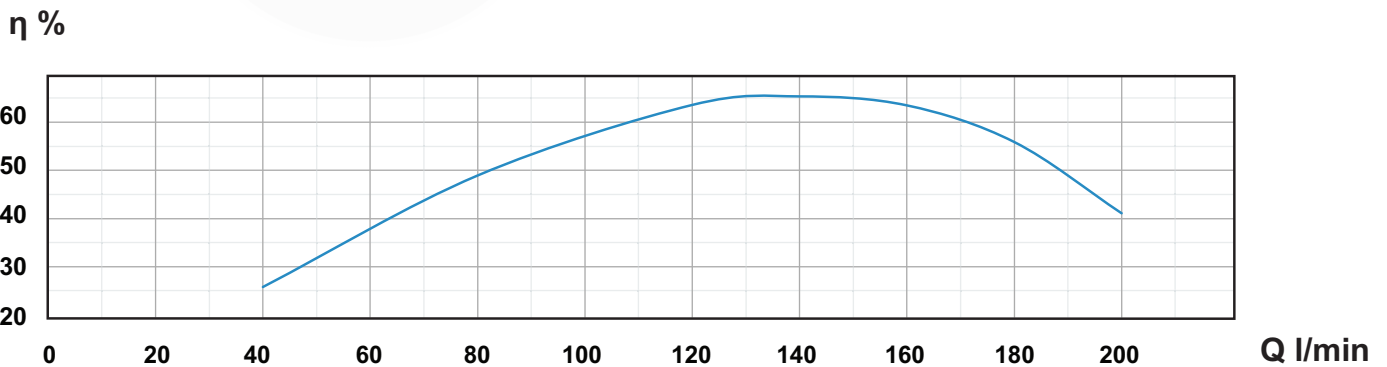
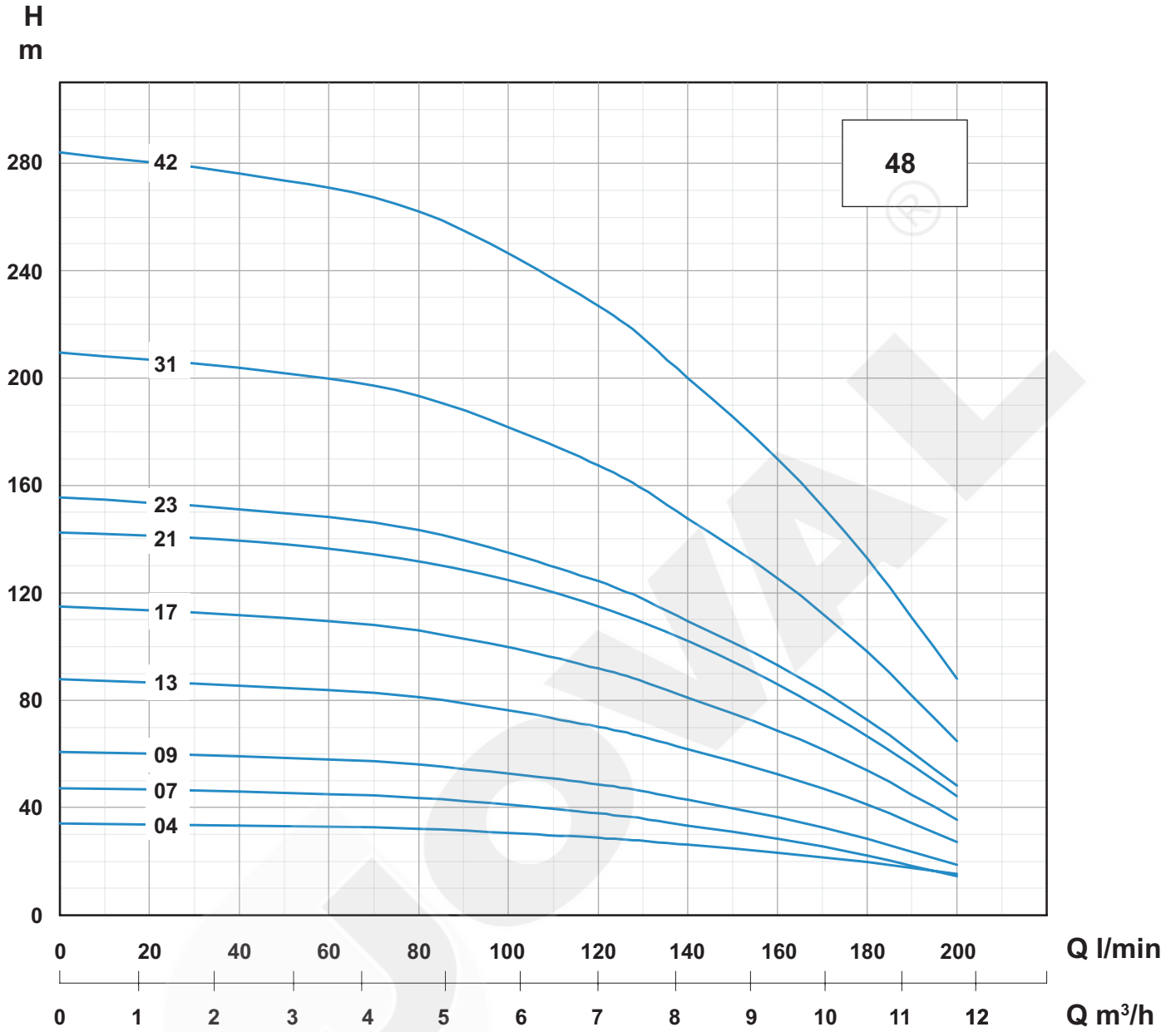
H - Potência nominal do motor
- Rated motor power output

| Modelo | Peso | Altura | Saída |
|---------|--------|--------|--------|
| Model | Weight | Height | Salida |
| | kg | mm | Outlet |
| 46 04 F | 2,9 | 358 | 2" |
| 46 06 F | 3,5 | 418 | |
| 46 09 F | 4,5 | 508 | |
| 46 12 F | 5,5 | 639 | |
| 46 17 F | 6,8 | 789 | |
| 46 23 F | 8,7 | 1010 | |
| 46 28 F | 10,0 | 1201 | |
| 46 31 F | 11,2 | 1291 | |
| 46 42 F | 14,3 | 1662 | |
| 46 59 F | 20,1 | 2213 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



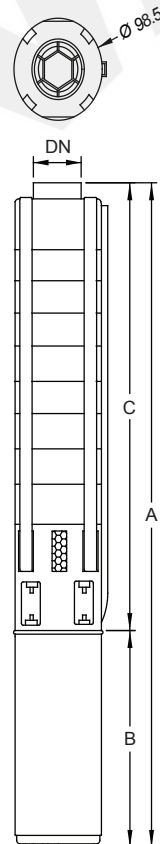
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | | | | | |
|---------|-------|-----|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 |
| A | | | A | l/min | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | |
| 48 04 F | 0,75 | 1 | 5,7 | 2,0 | H m | 27 | | | | 26 | 26 | 25 | 25 | 24 | 23 | 22 | 19 | 16 | 13 | 8 | |
| 48 07 F | 1,1 | 1,5 | 8,4 | 2,8 | | 47 | | | | 46 | 45 | 45 | 44 | 43 | 41 | 38 | 33 | 28 | 22 | 15 | |
| 48 09 F | 1,5 | 2 | 10,7 | 3,9 | | 61 | | | | 59 | 58 | 57 | 56 | 55 | 53 | 49 | 43 | 36 | 29 | 19 | |
| 48 13 F | 2,2 | 3 | 14,7 | 5,5 | | 88 | | | | 85 | 84 | 83 | 81 | 79 | 76 | 70 | 62 | 53 | 41 | 27 | |
| 48 17 F | 3 | 4 | | 7,5 | | 115 | | | | 111 | 110 | 108 | 106 | 103 | 100 | 92 | 81 | 69 | 54 | 36 | |
| 48 21 F | 3,7 | 5 | | 9,0 | | 142 | | | | 137 | 135 | 133 | 131 | 128 | 123 | 114 | 100 | 85 | 67 | 44 | |
| 48 23 F | 4 | 5,5 | | 9,9 | | 156 | | | | 150 | 148 | 146 | 143 | 140 | 135 | 124 | 110 | 93 | 73 | 48 | |
| 48 31 F | 5,5 | 7,5 | | 12,6 | | 210 | | | | 202 | 200 | 197 | 193 | 188 | 182 | 168 | 148 | 125 | 98 | 65 | |
| 48 42 F | 7,5 | 10 | | 17,1 | | 284 | | | | 273 | 271 | 268 | 262 | 255 | 247 | 227 | 200 | 170 | 133 | 88 | |

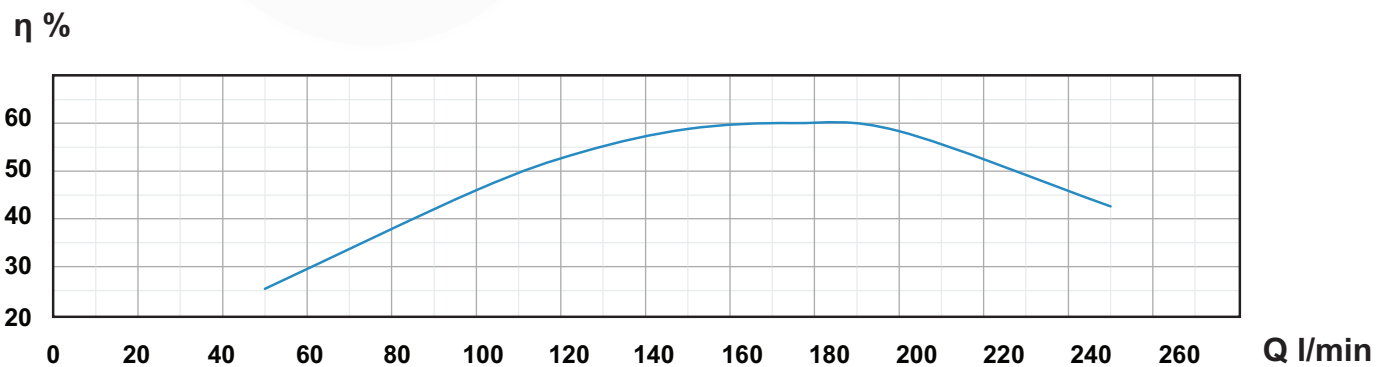
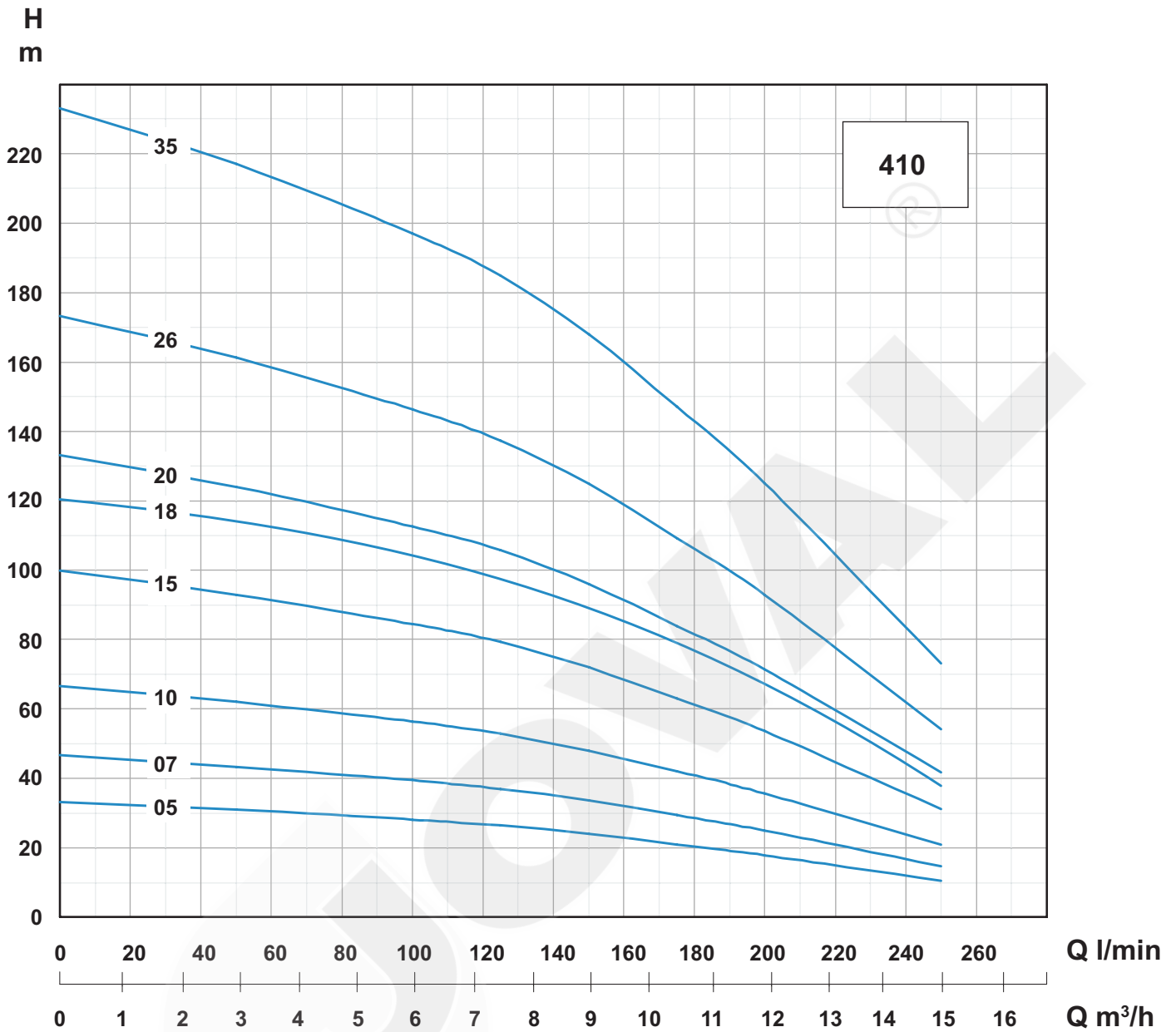
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|---------|--------|--------|--------|
| Model | Weight | Height | Salida |
| | kg | mm | Outlet |
| 48 04 F | 3,0 | 358 | 2" |
| 48 07 F | 3,6 | 448 | |
| 48 09 F | 4,3 | 508 | |
| 48 13 F | 5,7 | 669 | |
| 48 17 F | 6,8 | 789 | |
| 48 21 F | 7,7 | 950 | |
| 48 23 F | 8,5 | 1010 | |
| 48 31 F | 11,0 | 1291 | |
| 48 42 F | 14,2 | 1662 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



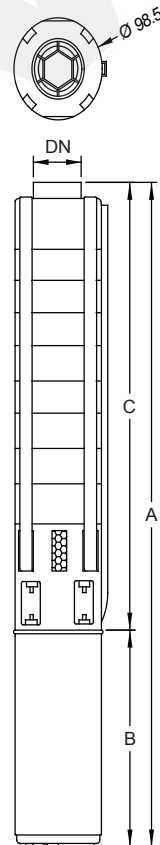
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | | | | | |
|----------|-------|-----|--------|--------|-------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 1,2 | 1,8 | 2,4 | 3 | 3,6 | 4,2 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 |
| A | | | A | l/min | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | |
| 410 05 F | 1,1 | 1,5 | 8,4 | 2,8 | H m | 33 | | | | | 30 | 30 | 29 | 29 | 28 | 27 | 25 | 23 | 20 | 18 | 10 |
| 410 07 F | 1,5 | 2 | 10,7 | 3,9 | | 47 | | | | | 43 | 42 | 41 | 40 | 39 | 38 | 35 | 32 | 29 | 25 | 15 |
| 410 10 F | 2,2 | 3 | 14,7 | 5,5 | | 67 | | | | | 61 | 60 | 59 | 57 | 56 | 54 | 50 | 46 | 41 | 36 | 21 |
| 410 15 F | 3 | 4 | | 7,5 | | 100 | | | | | 91 | 90 | 88 | 86 | 84 | 81 | 75 | 69 | 61 | 54 | 31 |
| 410 18 F | 3,7 | 5 | | 9,0 | | 120 | | | | | 110 | 108 | 106 | 103 | 101 | 98 | 90 | 82 | 74 | 64 | 38 |
| 410 20 F | 4 | 5,5 | | 9,9 | | 133 | | | | | 122 | 119 | 117 | 115 | 113 | 107 | 100 | 91 | 82 | 71 | 42 |
| 410 26 F | 5,5 | 7,5 | | 12,6 | | 173 | | | | | 158 | 155 | 152 | 149 | 146 | 140 | 130 | 119 | 106 | 93 | 54 |
| 410 35 F | 7,5 | 10 | | 17,1 | | 233 | | | | | 213 | 209 | 205 | 201 | 197 | 188 | 175 | 160 | 143 | 125 | 73 |

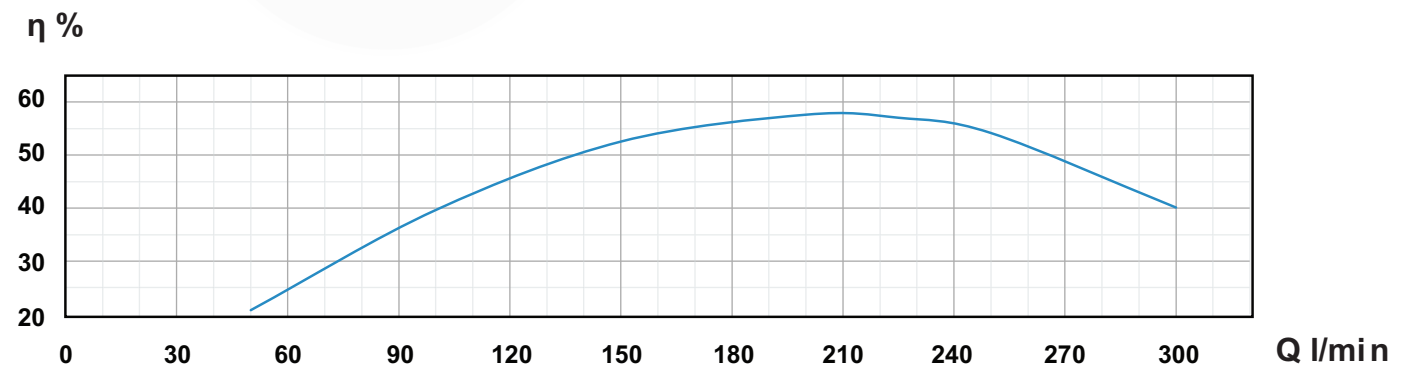
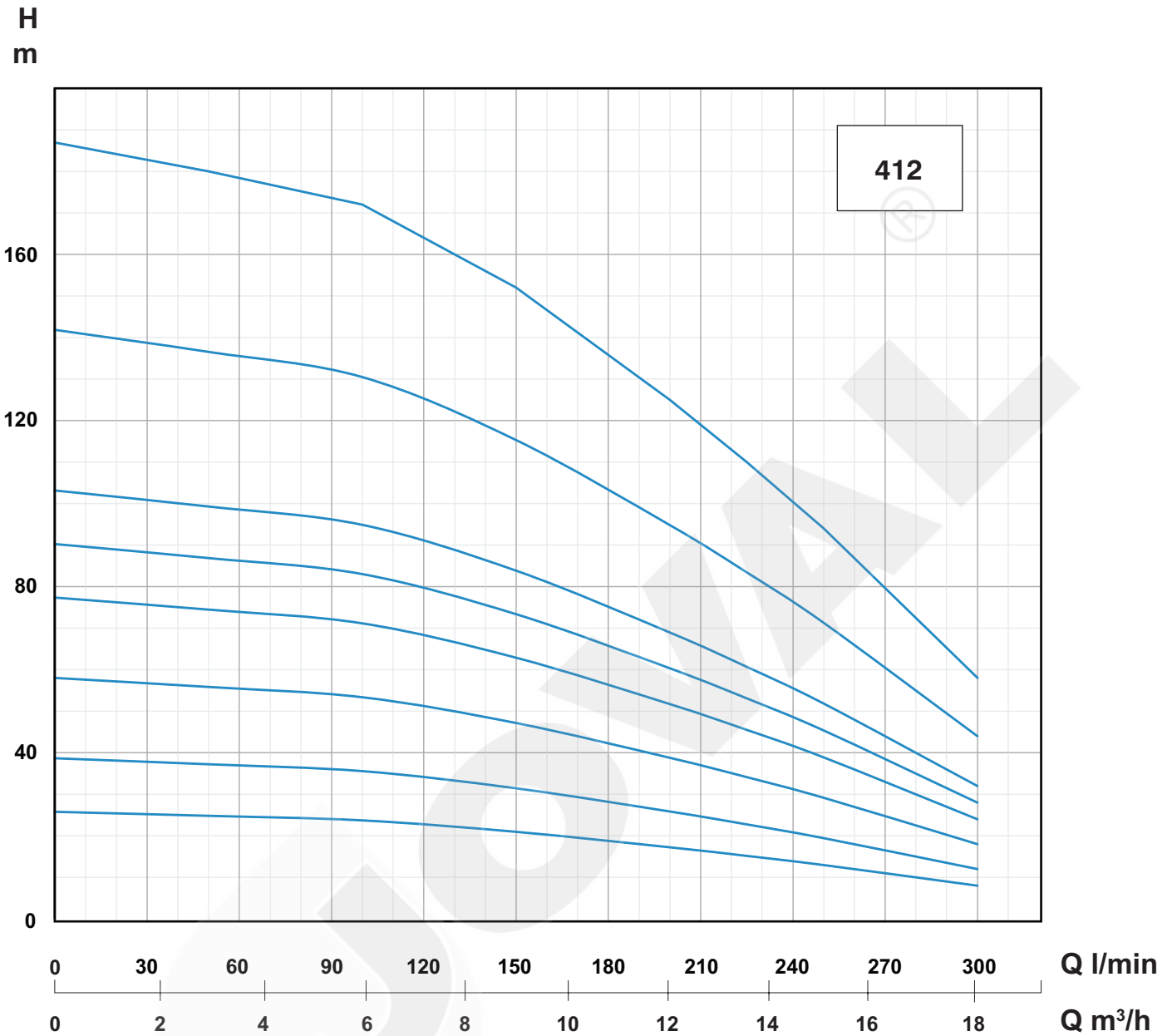
Q - Caudal - Flow H - Potência nominal do motor
- Rated motor power output

| Modelo | Peso | Altura | Saída |
|----------|--------|--------|--------|
| Model | Weight | Height | Salida |
| | kg | mm | Outlet |
| 410 05 F | 4,1 | 498 | 2" |
| 410 07 F | 5,0 | 602 | |
| 410 10 F | 6,5 | 799 | |
| 410 15 F | 9,0 | 1100 | |
| 410 18 F | 10,4 | 1297 | |
| 410 20 F | 11,7 | 1401 | |
| 410 26 F | 14,0 | 1754 | |
| 410 35 F | 18,0 | 2263 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



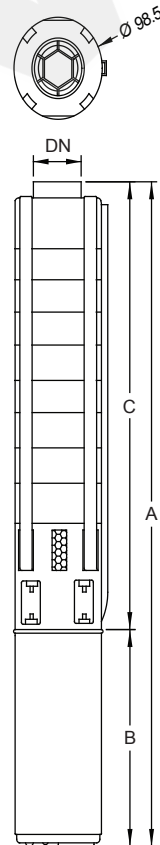
BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | | |
|----------|-------|-----|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|--|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 | 18 | 21,6 | |
| A | | | A | l/min | 0 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 360 | | |
| 412 04 F | 1,1 | 1,5 | 8,4 | 2,8 | H m | 26 | 24 | 24 | 23 | 23 | 22 | 20 | 19 | 17 | 13 | 8 | | |
| 412 06 F | 1,5 | 2 | 10,7 | 3,9 | | 39 | 36 | 36 | 35 | 34 | 32 | 30 | 28 | 26 | 19 | 12 | | |
| 412 09 F | 2,2 | 3 | 14,7 | 5,5 | | 58 | 54 | 53 | 53 | 51 | 48 | 46 | 42 | 39 | 29 | 18 | | |
| 412 12 F | 3 | 4 | | 7,5 | | 77 | 72 | 71 | 70 | 68 | 65 | 61 | 56 | 52 | 39 | 24 | | |
| 412 14 F | 3,7 | 5 | | 9,0 | | 90 | 86 | 84 | 83 | 80 | 77 | 72 | 67 | 60 | 45 | 28 | | |
| 412 16 F | 4 | 5,5 | | 9,9 | | 103 | 96 | 95 | 94 | 90 | 86 | 81 | 75 | 69 | 52 | 32 | | |
| 412 22 F | 5,5 | 7,5 | | 12,6 | | 142 | 132 | 130 | 129 | 124 | 118 | 112 | 103 | 95 | 71 | 44 | | |
| 412 29 F | 7,5 | 10 | | 17,1 | | 187 | 174 | 172 | 170 | 164 | 156 | 147 | 136 | 125 | 94 | 58 | | |

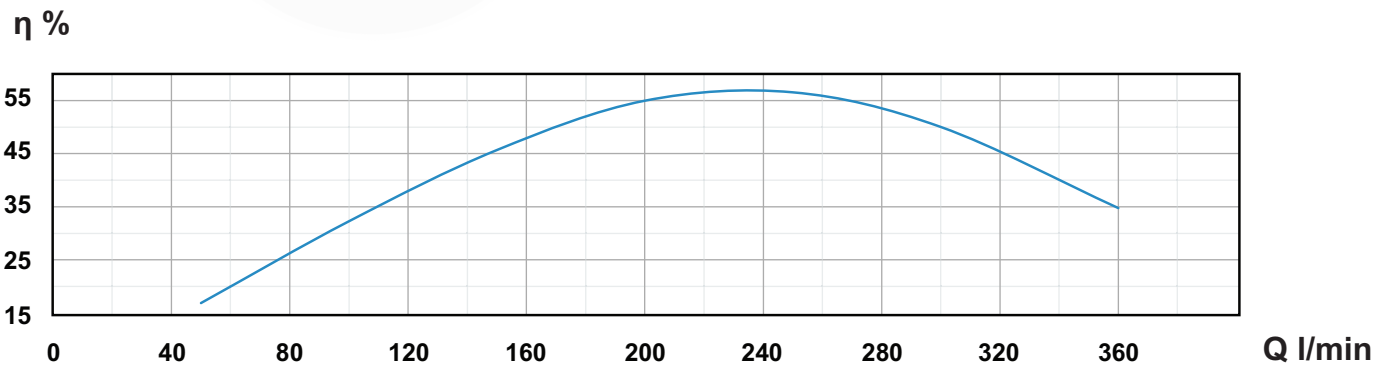
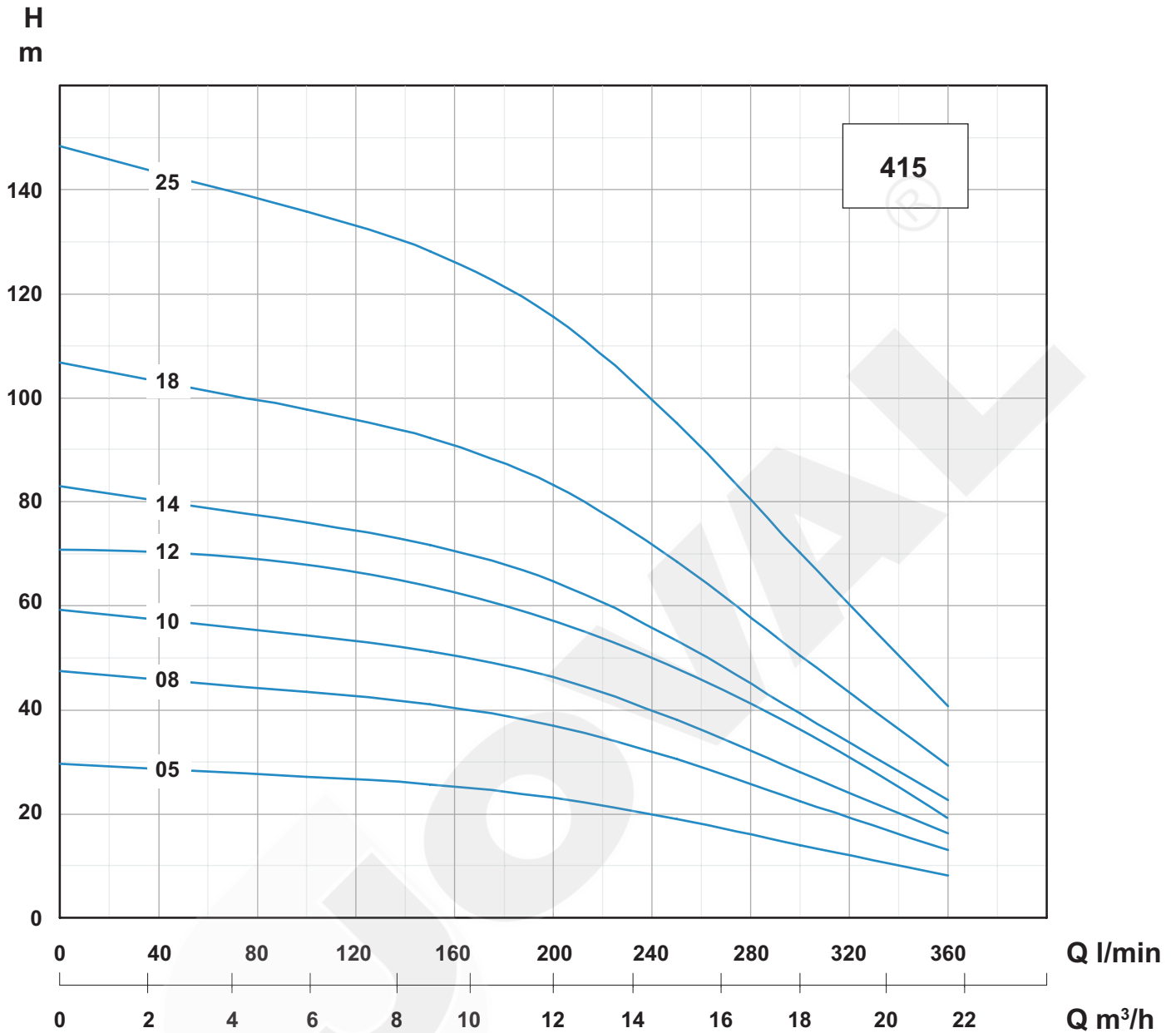
Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|----------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 412 04 F | 3,7 | 446 | 2" |
| 412 06 F | 4,5 | 550 | |
| 412 09 F | 6,1 | 747 | |
| 412 12 F | 7,4 | 944 | |
| 412 14 F | 8,4 | 1048 | |
| 412 16 F | 9,4 | 1193 | |
| 412 22 F | 12,4 | 1546 | |
| 412 29 F | 15,5 | 1951 | |



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CURVAS DE CARACTERÍSTICAS - CHARACTERISTICS CURVES



BOMBA 4" (SERIE F) - PUMP 4" (F SERIES)

CARACTERÍSTICAS - CHARACTERISTICS

| Modelo | Motor | | | | Q - Caudal - Flow | | | | | | | | | | | | |
|----------|-------|-----|--------|--------|-------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|
| | kW | HP | 1~230V | 3~400V | m³/h | 0 | 4,8 | 5,4 | 6 | 7,2 | 8,4 | 9,6 | 10,8 | 12 | 15 | 18 | 21,6 |
| A | | | A | l/min | 0 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 360 | |
| 415 05 F | 1,5 | 2 | 10,7 | 3,9 | H m | 30 | | | 27 | 27 | 26 | 25 | 24 | 23 | 19 | 14 | 8 |
| 415 08 F | 2,2 | 3 | 14,7 | 5,5 | | 47 | | | 43 | 43 | 42 | 40 | 39 | 37 | 30 | 22 | 13 |
| 415 10 F | 3 | 4 | | 7,5 | | 59 | | | 54 | 54 | 53 | 50 | 49 | 46 | 38 | 28 | 16 |
| 415 12 F | 3,7 | 5 | | 9,0 | | 71 | | | 65 | 64 | 62 | 60 | 58 | 56 | 46 | 34 | 20 |
| 415 14 F | 4 | 5,5 | | 9,9 | | 83 | | | 76 | 75 | 74 | 70 | 68 | 65 | 53 | 39 | 23 |
| 415 18 F | 5,5 | 7,5 | | 12,6 | | 107 | | | 98 | 97 | 95 | 90 | 88 | 83 | 69 | 51 | 29 |
| 415 25 F | 7,5 | 10 | | 17,1 | | 148 | | | 136 | 134 | 131 | 125 | 122 | 116 | 95 | 70 | 41 |

Q - Caudal - Flow H - Potência nominal do motor - Rated motor power output

| Modelo | Peso | Altura | Saída |
|----------|--------|--------|--------|
| Model | Weight | Height | Salida |
| Model | kg | mm | Outlet |
| 415 05 F | 4,0 | 498 | 2" |
| 415 08 F | 5,3 | 654 | |
| 415 10 F | 6,5 | 799 | |
| 415 12 F | 7,5 | 944 | |
| 415 14 F | 8,5 | 1048 | |
| 415 18 F | 10,8 | 1297 | |
| 415 25 F | 14,2 | 1702 | |

