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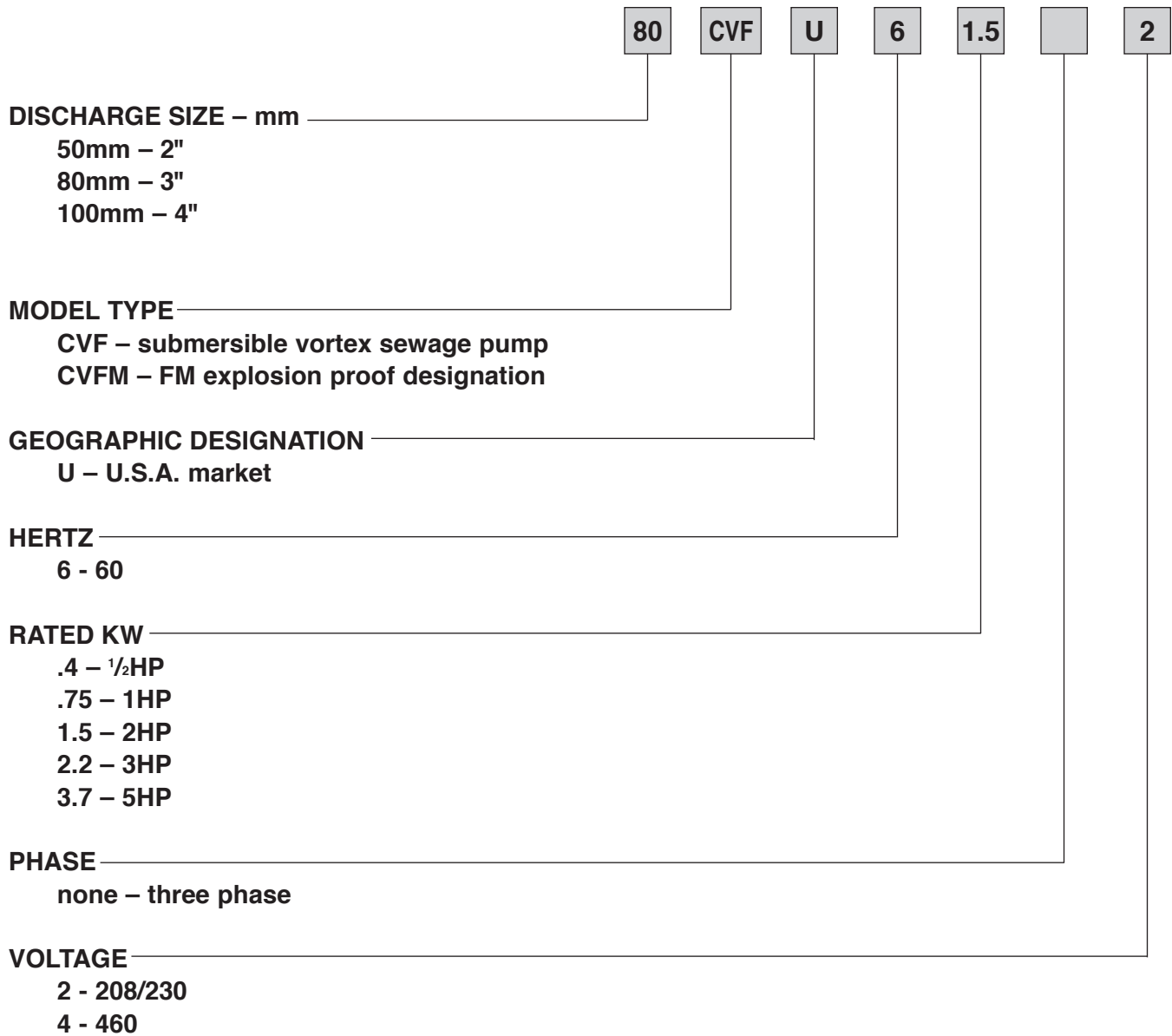
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Model CVFU

EBARA PRO Cast Vortex Sewage Pumps

Model Designation

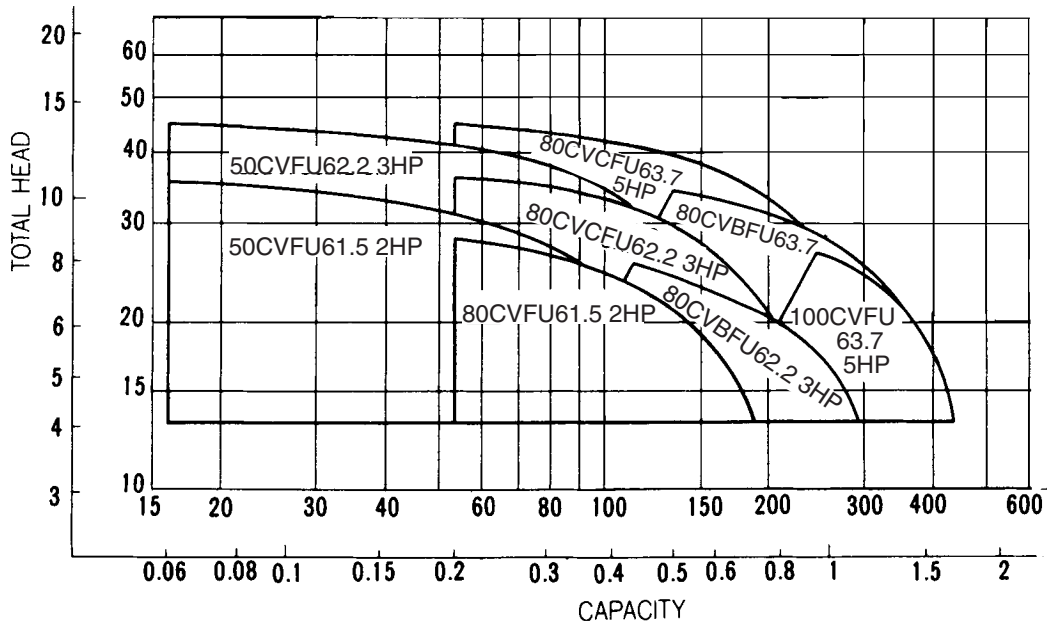


Specifications

| | Standard | Optional |
|---|--|---|
| Size | 2, 3, 4 | |
| Range of HP | 2 to 5 HP | |
| Range of Performance | Capacity 16 to 425 GPM Head 13 to 50 feet | |
| Limitation Maximum Water Temperature | 104°F (40°C) | |
| Speed | 1800 RPM | |
| Materials Casing Impeller Shaft Motor Frame Fastener | Cast Iron Cast Iron 403 Stainless Steel Cast Iron 304 Stainless Steel | |
| Mechanical Seal Material – Upper Side Material – Lower Side Impeller Type Bearing Motor Three Phase Motor Protection Accessories | Double Mechanical Seal Carbon/Ceramic Silicon Carbide/Silicon Carbide Semi-open Recessed Vortex Prelubricated Ball Bearing Insulation Class H 208/230V, 460V Built-in Thermal Detector – Klixons Built-in Leakage Detector Submersible cable 33 ft. | FM Explosion Proof, Class 1, Division 1, Group C, D ____ ft. (customer specified) QDC System |

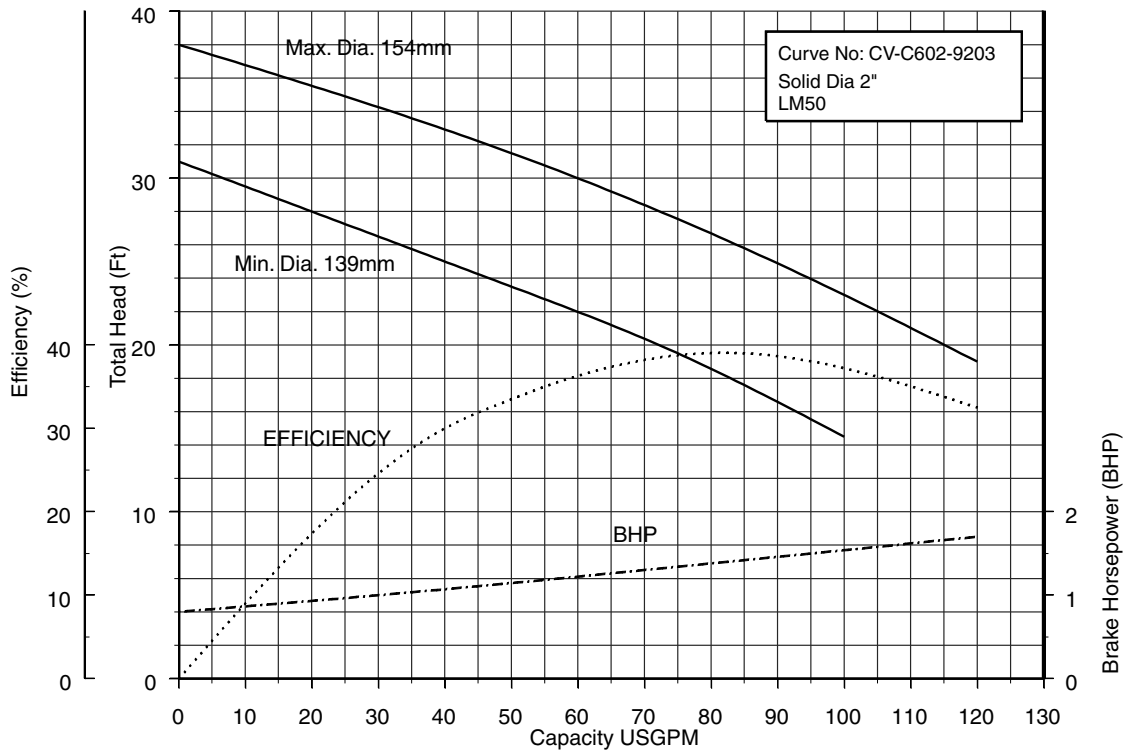


Three Phase



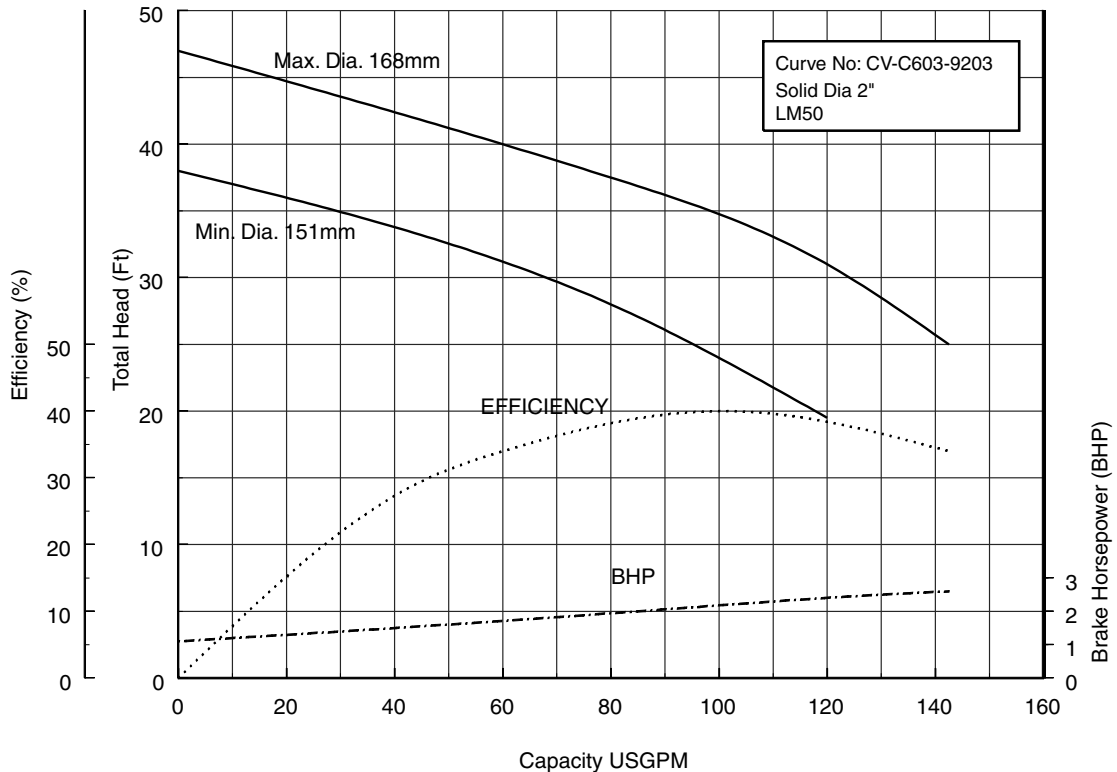
50CVF61.5 (2HP) Synchronous Speed: 1800 RPM

2 inch Discharge



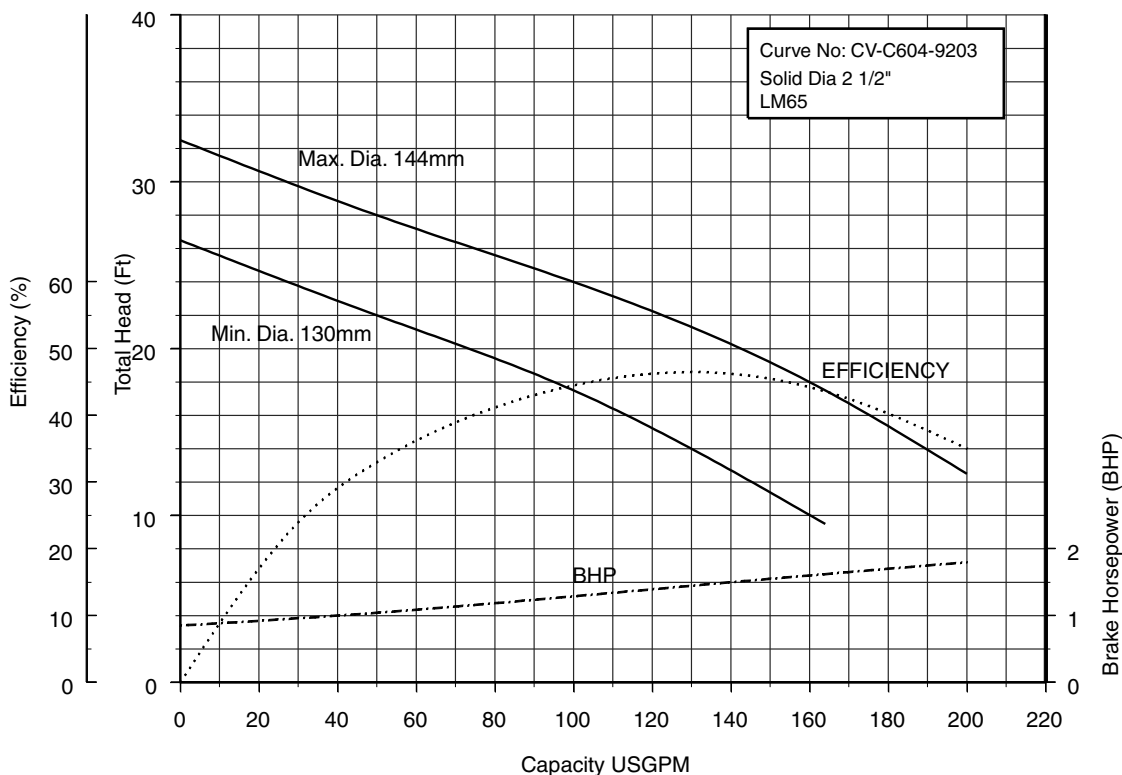
50CVF62.2 (3HP) Synchronous Speed: 1800 RPM

2 inch Discharge



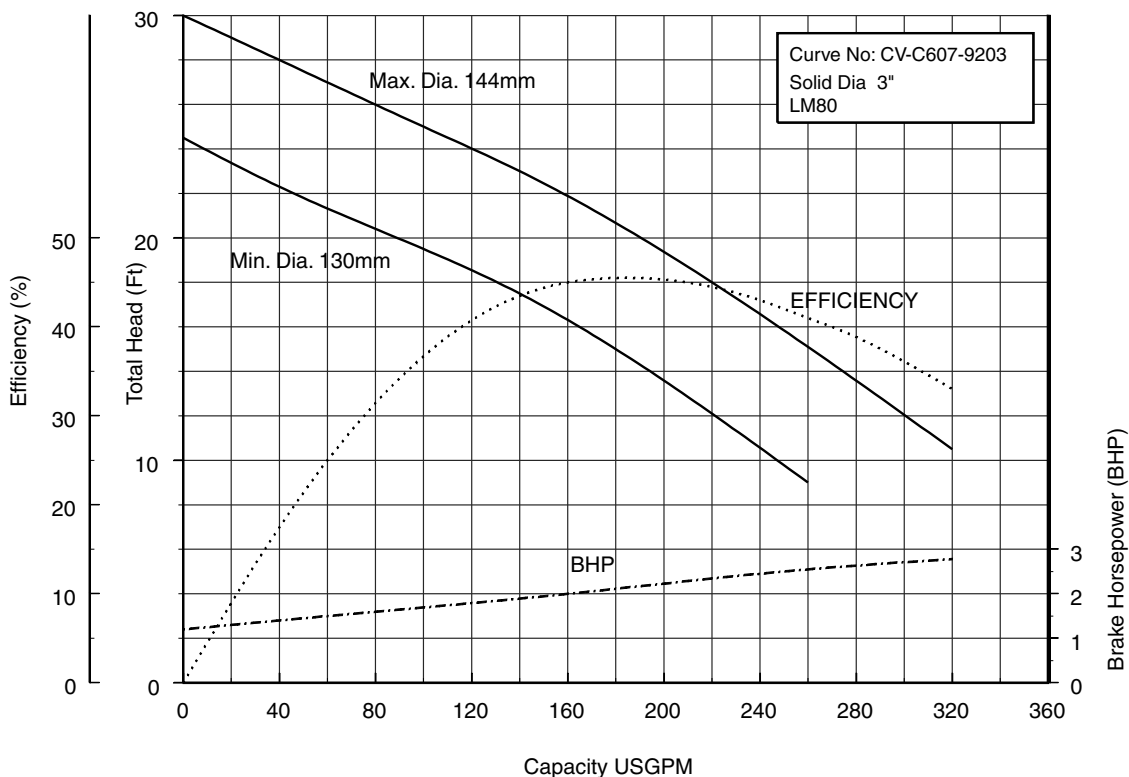
80CVF61.5 (2HP) Synchronous Speed: 1800 RPM

2, 3 inch Discharge



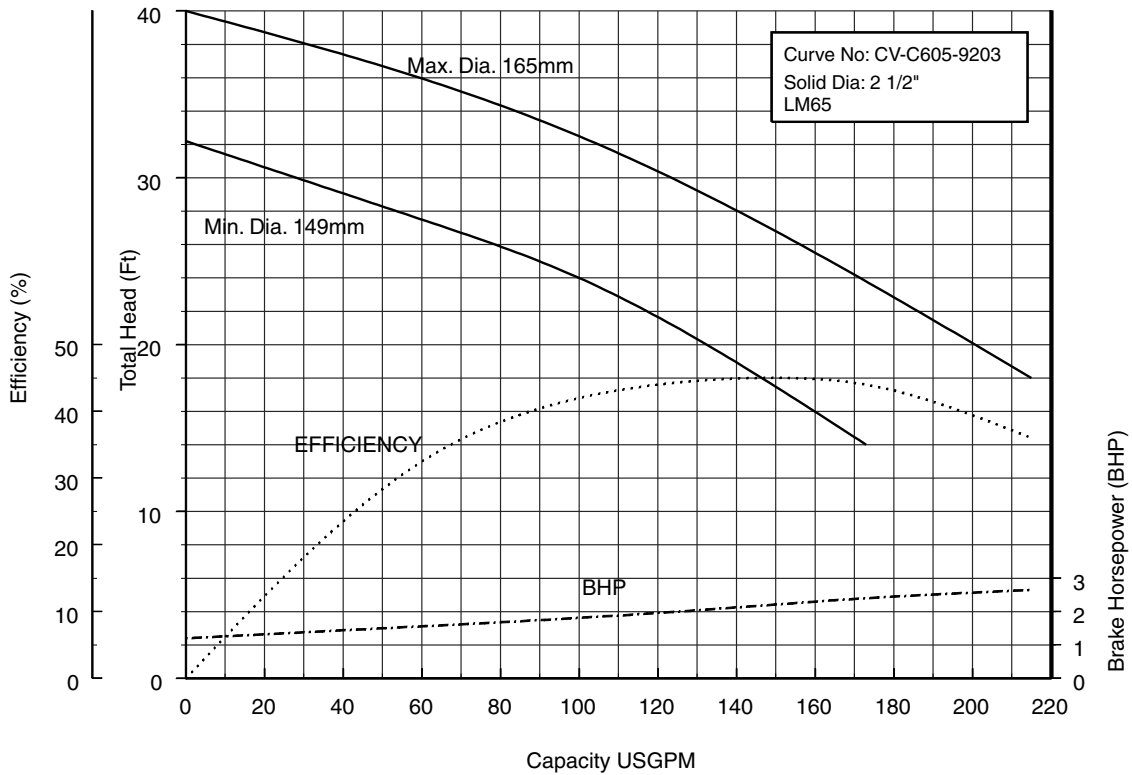
80CVBF62.2 (3HP) Synchronous Speed: 1800 RPM

3, 4 inch Discharge



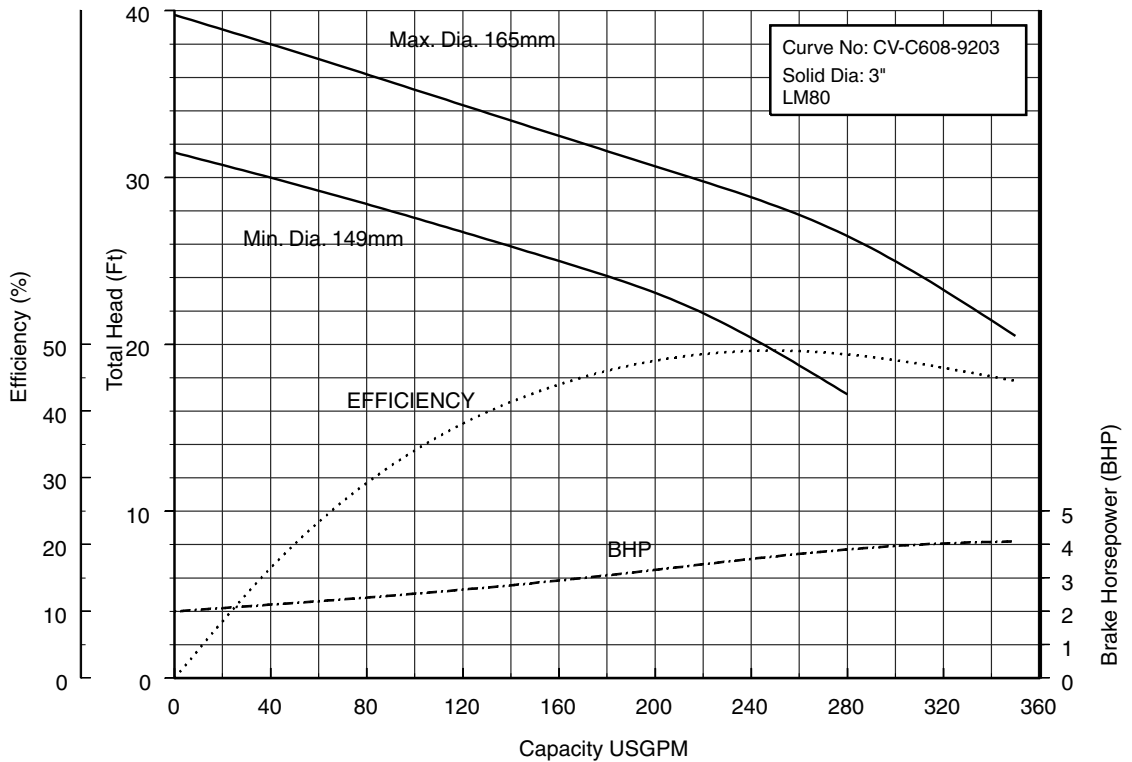
80CVCF62.2 (3HP) Synchronous Speed: 1800 RPM

2, 3 inch Discharge



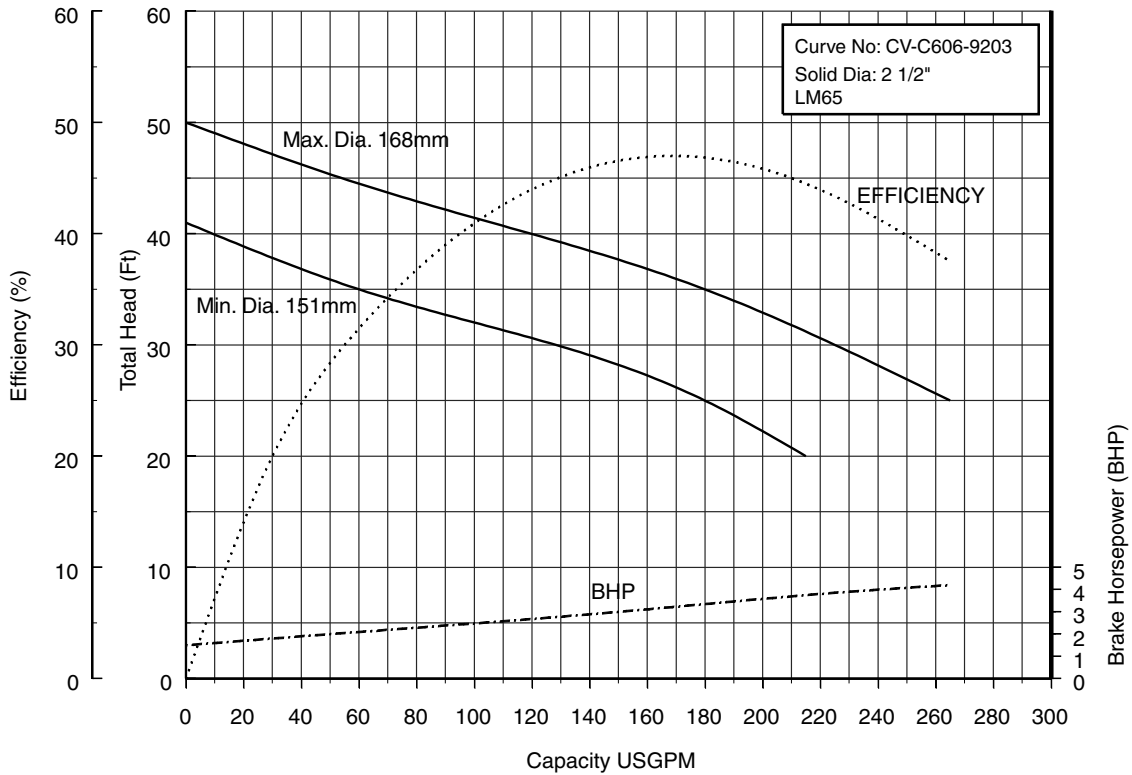
80CVBF63.7 (5HP) Synchronous Speed: 1800 RPM

3, 4 inch Discharge



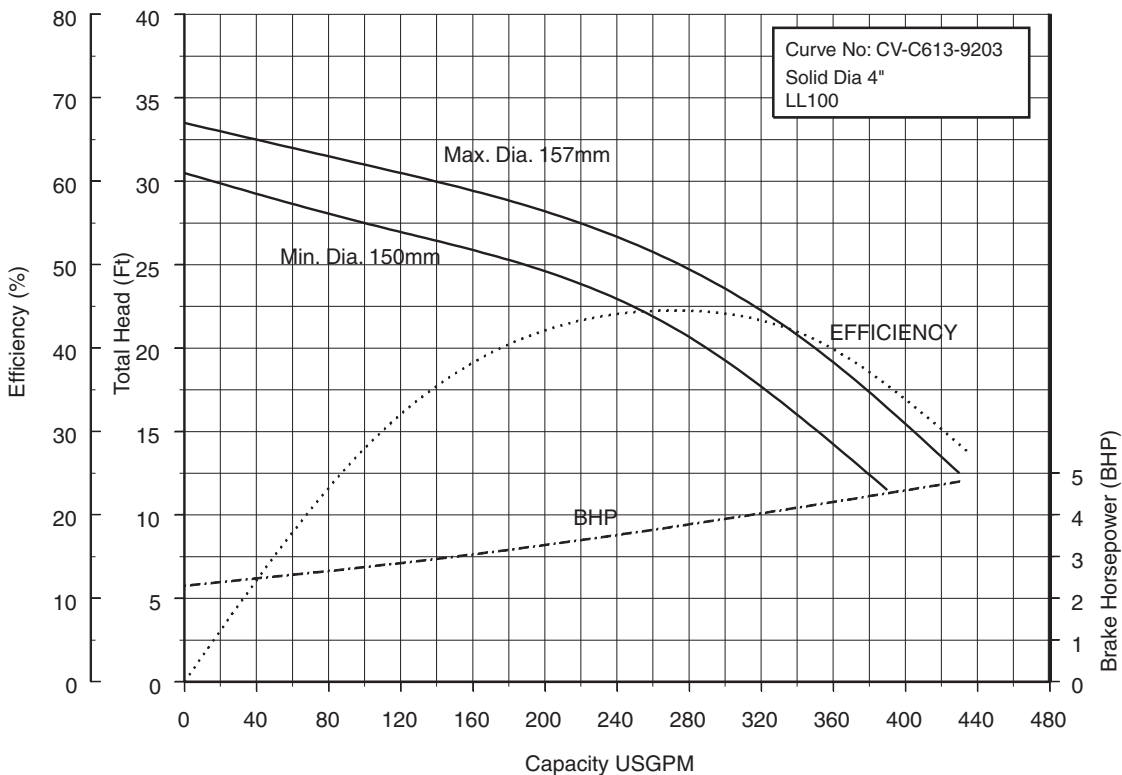
80CVCF63.7 (5HP) Synchronous Speed: 1800 RPM

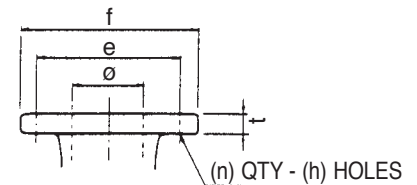
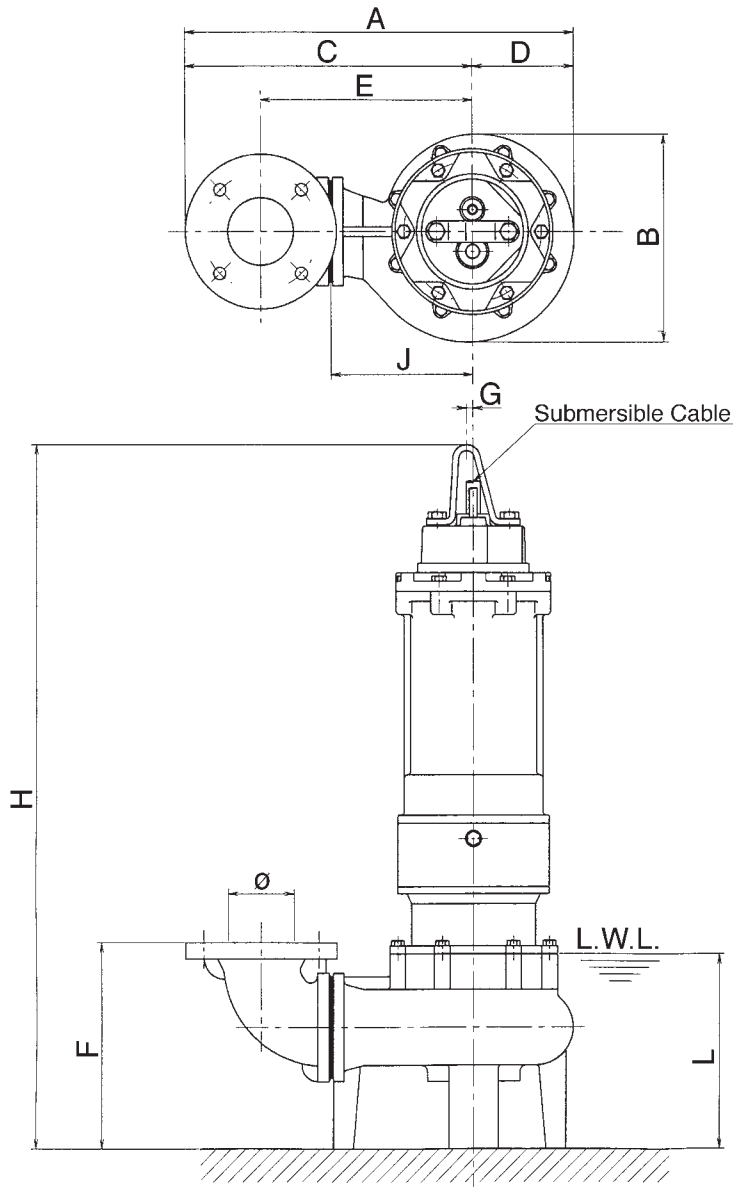
2, 3 inch Discharge



100CVF63.7 (5HP) Synchronous Speed: 1800 RPM

3, 4 inch Discharge





Flange (ANSI 125 PSI F.F)

| inch | | | | | |
|------|-------------------------------|---|-------------------------------|---|-------------------------------|
| Ø | e | f | t | n | h |
| 2 | 4 ³ / ₄ | 6 | 5 ⁵ / ₈ | 4 | 3 ³ / ₄ |

| mm | | | | | |
|----|-----|-----|----|---|----|
| Ø | e | f | t | n | h |
| 50 | 121 | 152 | 16 | 4 | 19 |

Dimensions: inch

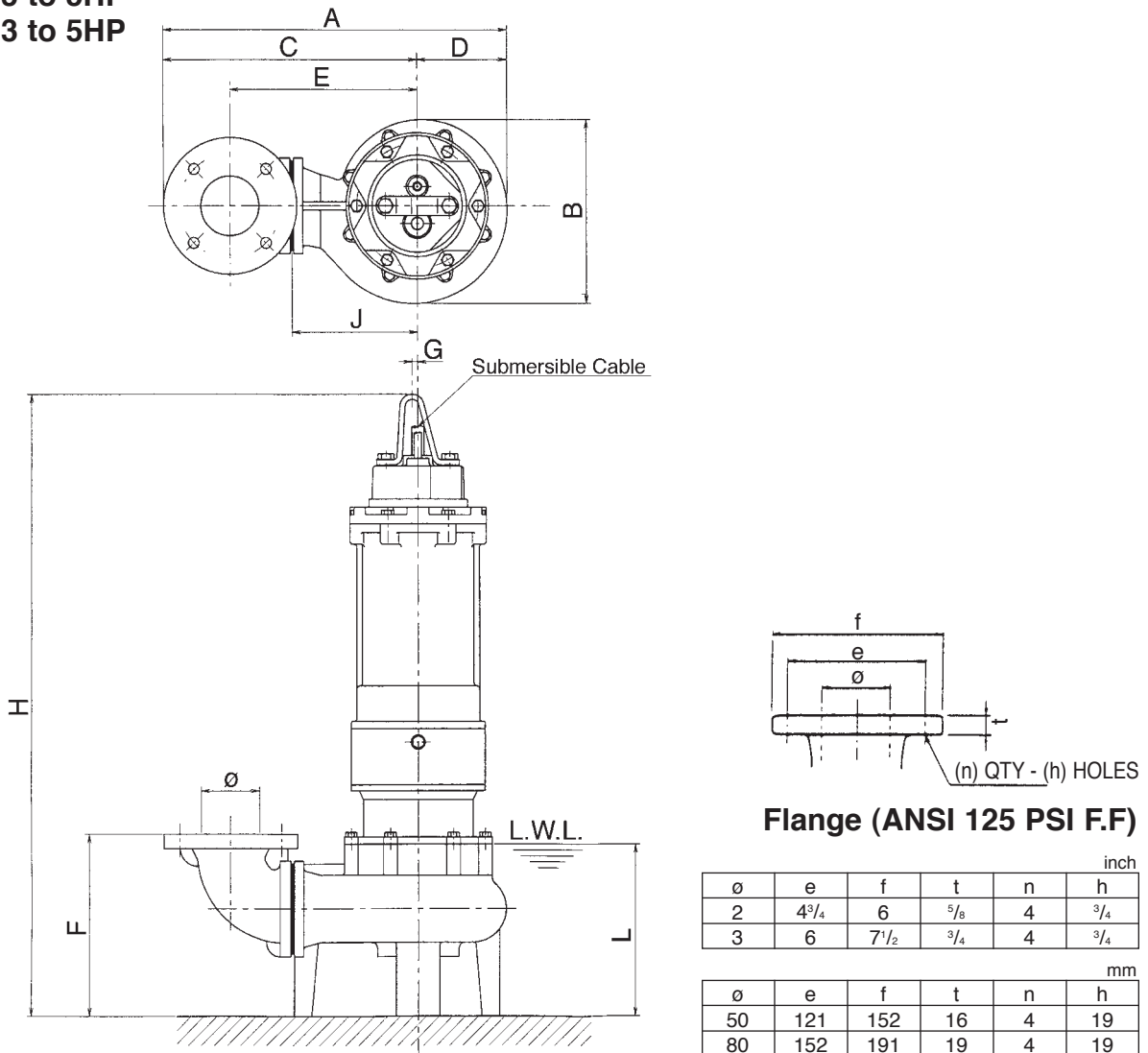
| PHASE | SIZE Ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | WEIGHT Lb | | |
|-------|-----------|------------|--------|----|--------------------------------|-------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|----|-------------------------------|-------------------------------|-----|
| | | | kW | HP | A | B | C | D | E | F | G | H | | J | L |
| THREE | 2 | 50CVFU61.5 | 1.5 | 2 | 15 ³ / ₄ | 9 ³ / ₈ | 11 ¹ / ₁₆ | 4 ¹¹ / ₁₆ | 8 ¹ / ₁₆ | 7 ⁵ / ₁₆ | 5 ⁵ / ₁₆ | 28 | 5 ⁷ / ₈ | 6 ⁷ / ₈ | 121 |
| | | 50CVFU62.2 | 2.2 | 3 | 15 ³ / ₄ | 9 ³ / ₈ | 11 ¹ / ₁₆ | 4 ¹¹ / ₁₆ | 8 ¹ / ₁₆ | 7 ⁵ / ₁₆ | 5 ⁵ / ₁₆ | 29 | 5 ⁷ / ₈ | 6 ⁷ / ₈ | 150 |

Dimensions: mm

| PHASE | SIZE Ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | WEIGHT kg | | |
|-------|-----------|------------|--------|----|--------------|-----|-----|-----|-----|-----|---|-----|--------------|-----|----|
| | | | kW | HP | A | B | C | D | E | F | G | H | | J | L |
| THREE | 50 | 50CVFU61.5 | 1.5 | 2 | 400 | 238 | 281 | 119 | 205 | 185 | 8 | 711 | 150 | 175 | 55 |
| | | 50CVFU62.2 | 2.2 | 3 | 400 | 238 | 281 | 119 | 205 | 185 | 8 | 737 | 150 | 175 | 68 |

Dimensions

80CVFU 2HP
 80CVBFU 3 to 5HP
 80CVCFU 3 to 5HP



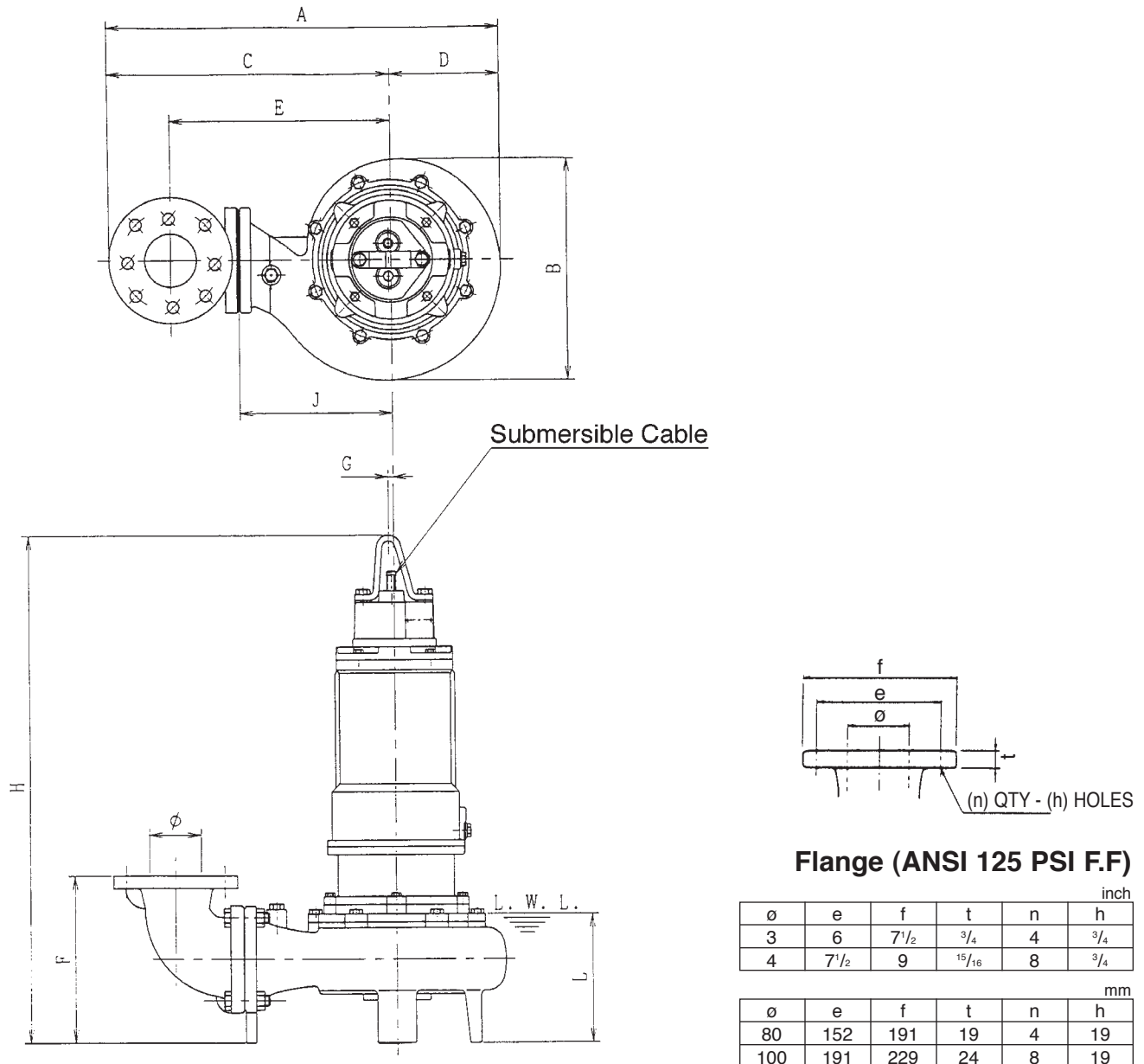
Dimensions: inch

| PHASE | SIZE ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | | | WEIGHT Lb |
|-------------|-----------|-------------|--------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------|
| | | | kW | HP | A | B | C | D | E | F | G | H | J | L | |
| THREE | 2/3 | 80CVFU61.5 | 1.5 | 2 | 17 ¹¹ / ₁₆ | 9 ³ / ₈ | 13 ¹ / ₁₆ | 4 ¹¹ / ₁₆ | 9 ¹ / ₄ | 8 ¹³ / ₁₆ | 5 ⁵ / ₁₆ | 29 ⁷ / ₁₆ | 6 ⁵ / ₁₆ | 8 ¹ / ₁₆ | 130 |
| | | 80CVCFU62.2 | 2.2 | 3 | 17 ¹¹ / ₁₆ | 9 ³ / ₈ | 13 ¹ / ₁₆ | 4 ¹¹ / ₁₆ | 9 ¹ / ₄ | 8 ¹³ / ₁₆ | 5 ⁵ / ₁₆ | 30 ⁷ / ₁₆ | 6 ⁵ / ₁₆ | 8 ¹ / ₄ | 159 |
| | | 80CVCFU63.7 | 3.7 | 5 | 17 ¹¹ / ₁₆ | 9 ³ / ₈ | 13 ¹ / ₁₆ | 4 ¹¹ / ₁₆ | 9 ¹ / ₄ | 8 ¹³ / ₁₆ | 5 ⁵ / ₁₆ | 32 | 6 ⁵ / ₁₆ | 8 ¹ / ₄ | 172 |
| | 3/4 | 80CVBFU62.2 | 2.2 | 3 | 18 ⁹ / ₁₆ | 9 ¹⁵ / ₁₆ | 13 ⁵ / ₈ | 4 ¹⁵ / ₁₆ | 9 ¹³ / ₁₆ | 10 | 5 ⁵ / ₁₆ | 32 ⁵ / ₁₆ | 6 ⁷ / ₈ | 10 ¹ / ₄ | 176 |
| 80CVBFU63.7 | | 3.7 | 5 | 18 ⁹ / ₁₆ | 9 ¹⁵ / ₁₆ | 13 ⁵ / ₈ | 4 ¹⁵ / ₁₆ | 9 ¹³ / ₁₆ | 10 | 5 ⁵ / ₁₆ | 33 ⁷ / ₈ | 6 ⁷ / ₈ | 10 ¹ / ₄ | 176 | |

Dimensions: mm

| PHASE | SIZE ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | | | WEIGHT kg |
|-------------|-----------|-------------|--------|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| | | | kW | HP | A | B | C | D | E | F | G | H | J | L | |
| THREE | 50/80 | 80CVFU61.5 | 1.5 | 2 | 450 | 238 | 331 | 119 | 235 | 224 | 8 | 747 | 160 | 205 | 59 |
| | | 80CVCFU62.2 | 2.2 | 3 | 450 | 238 | 331 | 119 | 235 | 224 | 8 | 773 | 160 | 210 | 72 |
| | | 80CVCFU63.7 | 3.7 | 5 | 450 | 238 | 331 | 119 | 235 | 224 | 8 | 813 | 160 | 210 | 78 |
| | 80/100 | 80CVBFU62.2 | 2.2 | 3 | 471 | 252 | 346 | 125 | 250 | 254 | 8 | 820 | 175 | 260 | 80 |
| 80CVBFU63.7 | | 3.7 | 5 | 471 | 252 | 346 | 125 | 250 | 254 | 8 | 860 | 175 | 260 | 80 | |

***Note:** All dimensions are based on 3" discharge.



Dimensions: inch

| PHASE | SIZE ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | | | WEIGHT Lb |
|-------|-----------|-------------|--------|----|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----|------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------|
| | | | kW | HP | A | B | C | D | E | F | G | H | J | L | |
| THREE | 3/4 | 100CVFU63.7 | 3.7 | 5 | 23 ³ / ₁₆ | 12 ¹ / ₈ | 17 ¹ / ₈ | 6 ¹ / ₁₆ | 12 ⁵ / ₈ | 12 | ⁵ / ₁₆ | 36 ¹ / ₁₆ | 8 ⁷ / ₁₆ | 12 ³ / ₈ | 209 |

Dimensions: mm

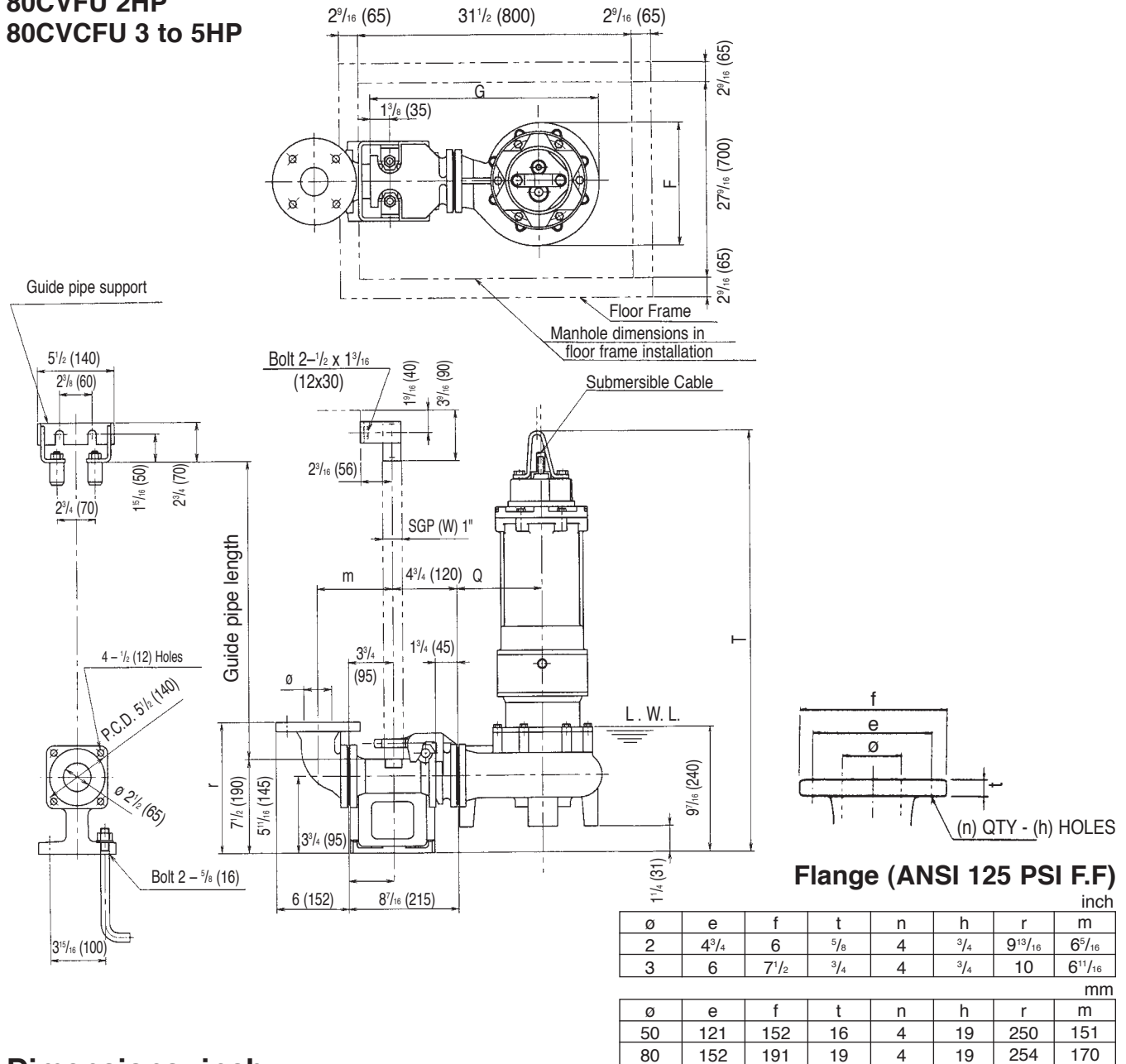
| PHASE | SIZE ø | MODEL | OUTPUT | | PUMP & MOTOR | | | | | | | | | | WEIGHT kg |
|-------|-----------|-------------|--------|----|--------------|-----|-----|-----|-----|-----|---|-----|-----|-----|--------------|
| | | | kW | HP | A | B | C | D | E | F | G | H | J | L | |
| THREE | 80/100 | 100CVFU63.7 | 3.7 | 5 | 589 | 308 | 435 | 154 | 320 | 305 | 8 | 916 | 215 | 315 | 95 |

Dimensions

Model CVFU with Quick Discharge Connector

80CVFU 2HP

80CVCFU 3 to 5HP



Dimensions: inch

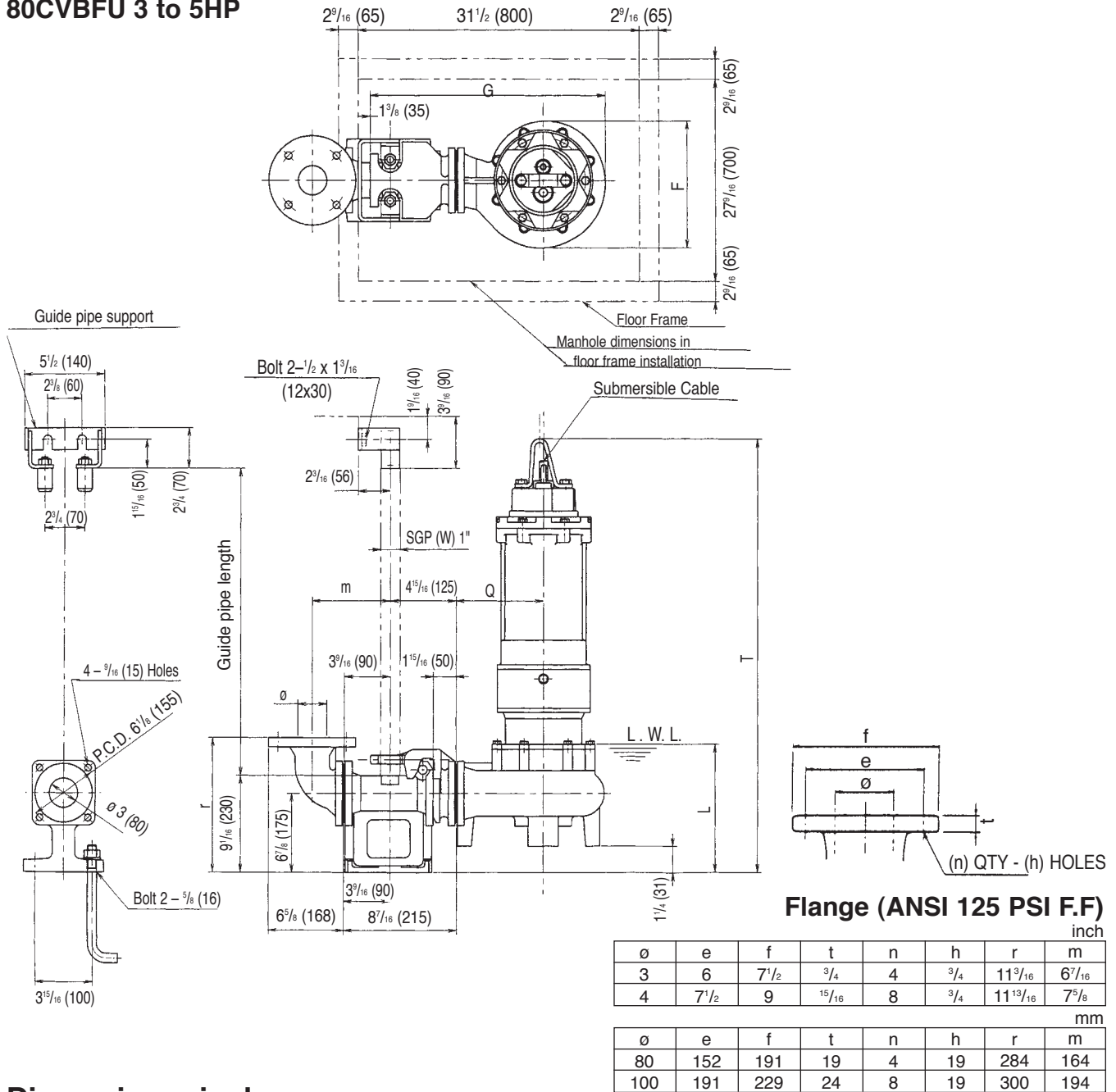
| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | WEIGHT Lb | |
|-------|-----------|-------------|--------|----|-----------------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|-----------|--------|
| | | | kW | HP | | F | G | Q | T | PUMP | Q.D.C. |
| THREE | 2/3 | 80CVFU61.5 | 1.5 | 2 | LM65 | 9 ³ / ₈ | 16 ⁷ / ₈ | 6 ⁵ / ₁₆ | 30 ⁵ / ₈ | 130 | 31 |
| | | 80CVCFU62.2 | 2.2 | 3 | LM65 | 9 ³ / ₈ | 16 ⁷ / ₈ | 6 ⁵ / ₁₆ | 31 ¹¹ / ₁₆ | 159 | 31 |
| | | 80CVCFU63.7 | 3.7 | 5 | LM65 | 9 ³ / ₈ | 19 | 6 ⁵ / ₁₆ | 33 ¹ / ₄ | 172 | 31 |

Dimensions: mm

| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | WEIGHT kg | |
|-------|-----------|-------------|--------|----|-----------------|--------------|-----|-----|-----|-----------|--------|
| | | | kW | HP | | F | G | Q | T | PUMP | Q.D.C. |
| THREE | 50/80 | 80CVFU61.5 | 1.5 | 2 | LM65 | 238 | 428 | 160 | 778 | 59 | 14 |
| | | 80CVCFU62.2 | 2.2 | 3 | LM65 | 238 | 428 | 160 | 805 | 72 | 14 |
| | | 80CVCFU63.7 | 3.7 | 5 | LM65 | 238 | 482 | 160 | 845 | 78 | 14 |

Dimensions

Model CVFU with Quick Discharge Connector 80CVBFU 3 to 5HP



Dimensions: inch

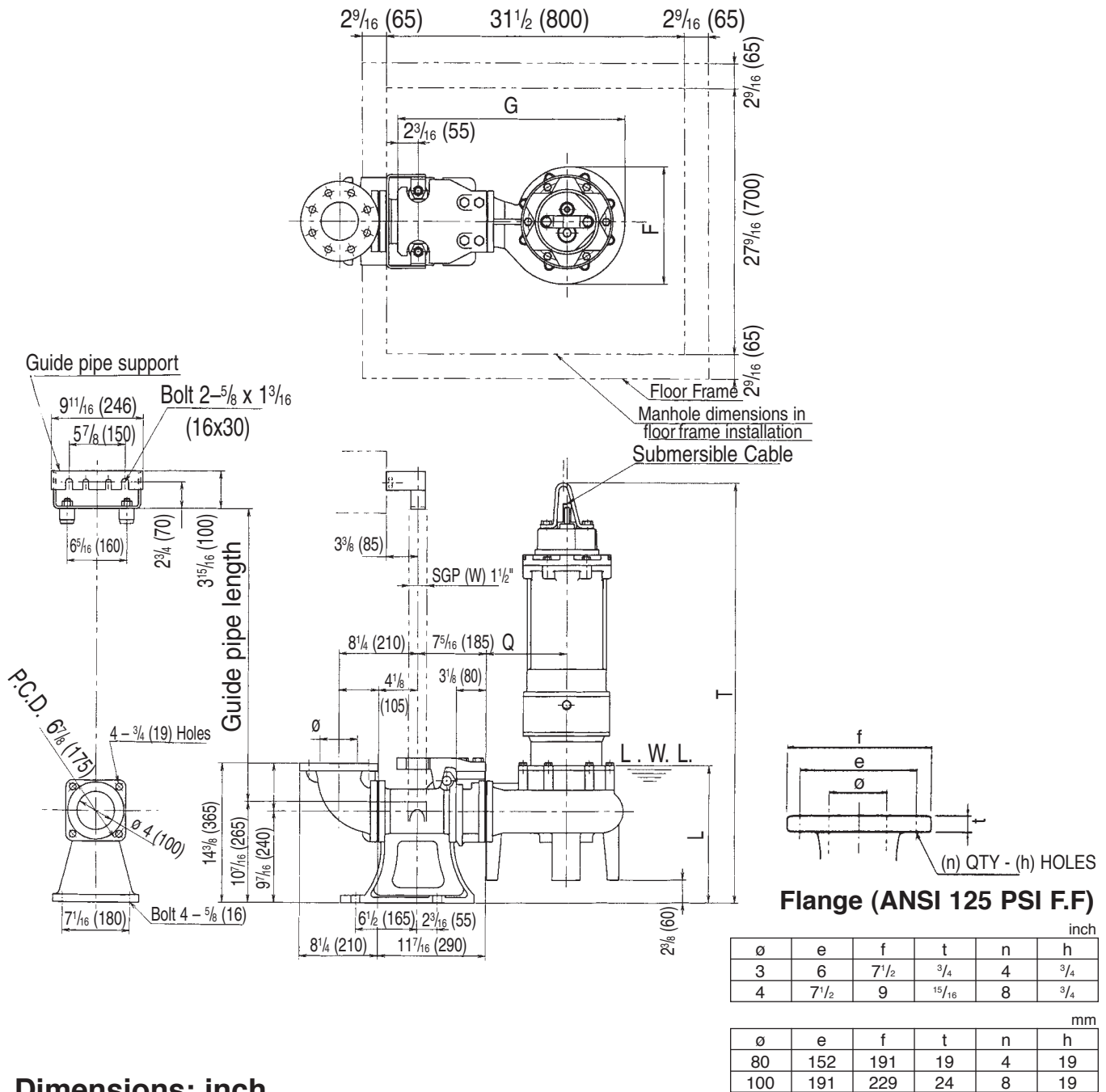
| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | | WEIGHT Lb | |
|-------|-----------|-------------|--------|----|-----------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------|---------------------------------|-----------|--------|
| | | | kW | HP | | F | G | L | Q | T | PUMP | Q.D.C. |
| THREE | 3/4 | 80CVBFU62.2 | 2.2 | 3 | LM80 | 9 ¹⁵ / ₁₆ | 18 ¹ / ₈ | 11 ⁷ / ₁₆ | 6 ⁷ / ₈ | 33 ¹ / ₂ | 176 | 37 |
| | | 80CVBFU63.7 | 3.7 | 5 | LM80 | 9 ¹⁵ / ₁₆ | 18 ¹ / ₈ | 11 ⁷ / ₁₆ | 6 ⁷ / ₈ | 35 ¹ / ₁₆ | 176 | 37 |

Dimensions: mm

| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | | WEIGHT kg | |
|-------|-----------|-------------|--------|----|-----------------|--------------|-----|-----|-----|-----|-----------|--------|
| | | | kW | HP | | F | G | L | Q | T | PUMP | Q.D.C. |
| THREE | 80/100 | 80CVBFU62.2 | 2.2 | 3 | LM80 | 252 | 460 | 290 | 175 | 851 | 80 | 17 |
| | | 80CVBFU63.7 | 3.7 | 5 | LM80 | 252 | 460 | 290 | 175 | 891 | 80 | 17 |

Dimensions

Model DVFU with Quick Discharge Connector 100CVFU 5HP

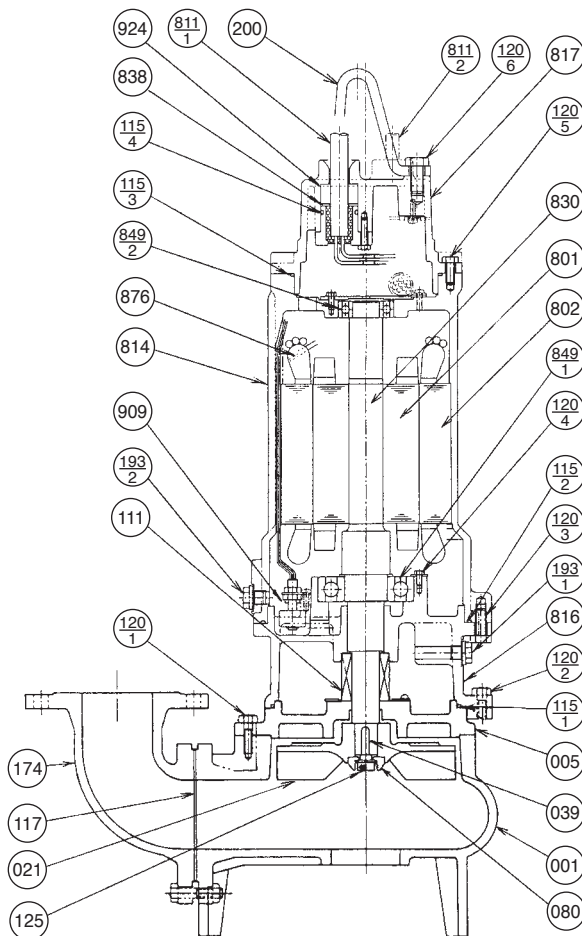


Dimensions: inch

| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | | WEIGHT Lb | |
|-------|-----------|-------------|--------|----|-----------------|--------------|----|--------|--------|---------|-----------|--------|
| | | | KW | HP | | F | G | L | Q | T | PUMP | Q.D.C. |
| THREE | 3/4 | 100CVFU63.7 | 3.7 | 5 | LL100 | 12 1/8 | 24 | 14 3/4 | 8 7/16 | 38 7/16 | 209 | 101 |

Dimensions: mm

| PHASE | SIZE ø | MODEL | OUTPUT | | Q.D.C. MODEL | PUMP & MOTOR | | | | | WEIGHT kg | |
|-------|-----------|-------------|--------|----|-----------------|--------------|-----|-----|-----|-----|-----------|--------|
| | | | KW | HP | | F | G | L | Q | T | PUMP | Q.D.C. |
| THREE | 80/100 | 100CVFU63.7 | 3.7 | 5 | LL100 | 308 | 609 | 375 | 215 | 976 | 95 | 46 |



| PART NO. | PART NAME | MATERIAL | ASTM, AISI CODE | NO. FOR 1 UNIT |
|----------|---------------------|---------------|-----------------|----------------|
| 001 | CASING | CAST IRON | A48 Class 30 | 1 |
| 005 | INTERMEDIATE CASING | CAST IRON | A48 Class 30 | 1 |
| †021 | IMPELLER | CAST IRON | A48 Class 30 | 1 |
| 039 | KEY | 420 STAINLESS | AISI420 | 1 |
| 080 | BUSHING | STEEL | A283 Grade D | 1 |
| †111 | MECHANICAL SEAL | — | | 1 SET |
| †115-1 | O-RING | RUBBER (NBR) | | 1 |
| †115-2 | O-RING | RUBBER (NBR) | | 1 |
| †115-3 | O-RING | RUBBER (NBR) | | 1 |
| †115-4 | O-RING | RUBBER (NBR) | | 2 |
| †117 | GASKET | | | 1 |
| 120-1 | BOLT | 304 STAINLESS | AISI304 | 4 |
| 120-2 | BOLT | 304 STAINLESS | AISI304 | 4 |
| 120-3 | BOLT | 304 STAINLESS | AISI304 | 4 |
| 120-4 | BOLT | 304 STAINLESS | AISI304 | 3 |
| 120-5 | BOLT | 304 STAINLESS | AISI304 | 4 |
| 120-6 | BOLT | 304 STAINLESS | AISI304 | 2 |
| 125 | BOLT | 304 STAINLESS | AISI304 | 1 |

| PART NO. | PART NAME | MATERIAL | ASTM, AISI CODE | NO. FOR 1 UNIT |
|----------|------------------|---------------|-----------------|----------------|
| 174 | DISCHARGE ELBOW | CAST IRON | A48 Class 30 | 1 |
| 193-1 | PLUG | 304 STAINLESS | AISI304 | 1 |
| 193-2 | PLUG | 304 STAINLESS | AISI304 | 1 |
| 200 | LIFTING HANGER | STEEL | A283 Grade D | 1 |
| 801 | ROTOR | — | | 1 |
| 802 | STATOR | — | | 1 |
| 811-1 | POWER CABLE | — | | 1 |
| 811-2 | CONTROL CABLE | — | | 1 |
| 814 | MOTOR COVER | CAST IRON | A48 Class 30 | 1 |
| 816 | BRACKET | CAST IRON | A48 Class 30 | 1 |
| 817 | BRACKET | CAST IRON | A48 Class 30 | 1 |
| 830 | SHAFT | 403 STAINLESS | AISI403 | 1 |
| 838 | WASHER | 304 STAINLESS | AISI304 | 2 |
| †849-1 | BALL BEARING | — | | 1 |
| †849-2 | BALL BEARING | — | | 1 |
| 876 | MOTOR PROTECTOR | — | | 3 |
| 909 | LEAKAGE DETECTOR | — | | 1 |
| 924 | PACKING | RUBBER (NBR) | | 2 |

Motors are purchased as a complete unit

†: Recommended spare parts

