

**ASSOCIATED PUMP ENGINEERS**

## **QW SUBMERSIBLE SEWAGE PUMP**





# QW Submersible Sewage Pump

## 1、Application

Raw water  
Municipal and industrial waste water  
Rain water  
Seawage works  
General industrial services  
Construction

## 2、Design

QW Submersible Sewage Pump are designed for economical and reliable pumping of sewage water from commercial communal and industrial sources.

They are suitable for clear and waste water containing solid and fibrous material.

Used in conjunction with the automatic coupling system the below ground level wet installation is a particularly economical solution which also does not damage the environment.

The pump are also suitable for quick portable applications.

a. Electric Motor standard be applied as

380V, three phase, 50hz or 60hz , IP68, CLASS F.

Voltage up to 10000V on request

2-4-6-8 pole from 18kw to 355kw

Start up: DOL or star delta

b. Liquid temperature

Standard temperature: 40 degree

Maximum: 85 degree on request

## 3、Materials

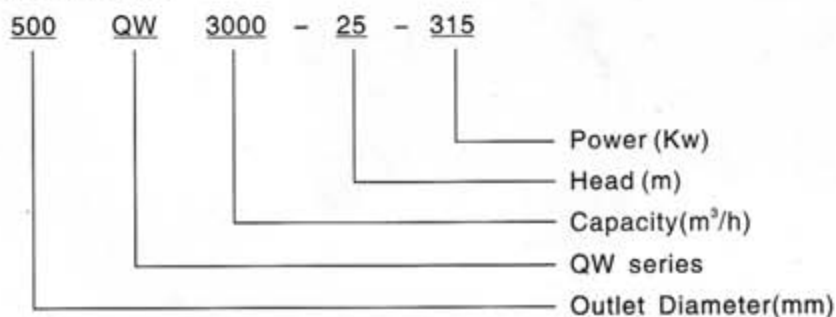
Casing—Cast iron FC 20

Shaft—Stainless steel SUS 304

Impeller—Cast iron FC 20

Fasteners—Stainless steel SUS 304

## 4、Model code



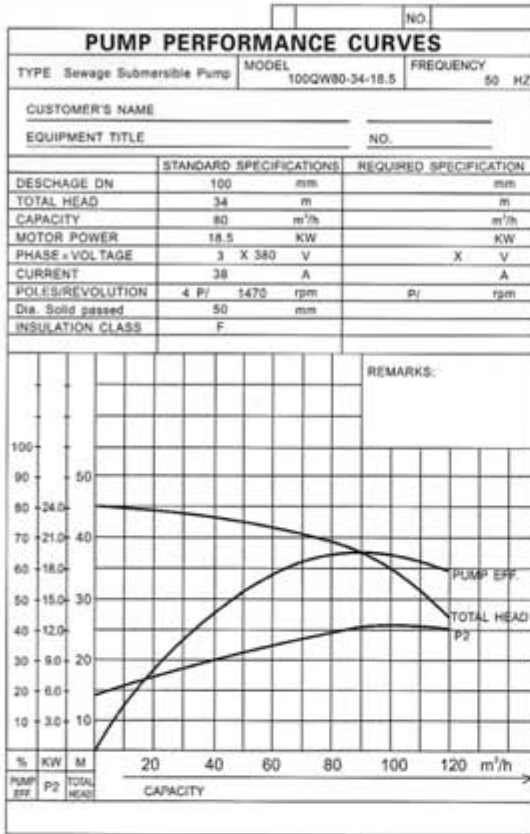
## QW SERIES SUBMERSIBLE SEWAGE PUMP SPECIFICATION

| Model            | Capacity          | Head | Efficiency | Power | Speed | Outlet | Solids Passed | Auto-coupling | NET Weight |
|------------------|-------------------|------|------------|-------|-------|--------|---------------|---------------|------------|
|                  | m <sup>3</sup> /h | m    | %          | kw    | rpm   | mm     | mm            |               | kg         |
| 100QW80-34-18.5  | 80                | 34   | 63.5       | 18.5  | 1470  | 100    | 50            | 100GAK        | 450        |
| 100QW80-38-22    | 80                | 38   | 63.5       | 22    | 1470  | 100    | 50            | 100GAK        | 500        |
| 100QW100-30-18.5 | 100               | 30   | 64.8       | 18.5  | 1470  | 100    | 50            | 100GAK        | 450        |
| 100QW100-35-22   | 100               | 35   | 64.8       | 22    | 1470  | 100    | 50            | 100GAK        | 500        |
| 150QW150-18-18.5 | 150               | 18   | 67         | 18.5  | 1470  | 150    | 70            | 150GAK        | 450        |
| 150QW150-22-22   | 150               | 22   | 67         | 22    | 1470  | 150    | 70            | 150GAK        | 500        |
| 150QW150-30-30   | 150               | 30   | 67         | 30    | 1470  | 150    | 70            | 150GAK        | 800        |
| 150QW150-35-37   | 150               | 35   | 67         | 37    | 1470  | 150    | 70            | 150GAK        | 800        |
| 150QW250-15-18.5 | 250               | 15   | 67         | 18.5  | 1470  | 150    | 70            | 150GAK        | 450        |
| 150QW250-17-22   | 250               | 17   | 70         | 22    | 1470  | 150    | 70            | 150GAK        | 500        |
| 150QW250-22-30   | 250               | 22   | 70         | 30    | 980   | 150    | 70            | 150GAK        | 800        |
| 150QW250-26-37   | 250               | 26   | 70         | 37    | 1470  | 150    | 70            | 150GAK        | 800        |
| 150QW250-30-45   | 250               | 30   | 70         | 45    | 1470  | 150    | 70            | 150GAK        | 800        |
| 200QW250-40-55   | 250               | 40   | 70         | 55    | 1470  | 200    | 70            | 200GAK        | 1200       |
| 150QW300-11-18.5 | 300               | 11   | 70.5       | 18.5  | 1470  | 150    | 70            | 150GAK        | 450        |
| 150QW300-13-22   | 300               | 13   | 70.5       | 22    | 1470  | 150    | 70            | 150GAK        | 500        |
| 150QW300-18-30   | 300               | 18   | 70.5       | 30    | 980   | 150    | 70            | 150GAK        | 800        |
| 150QW300-22-37   | 300               | 22   | 70.5       | 37    | 1470  | 150    | 70            | 150GAK        | 800        |
| 150QW300-27-45   | 300               | 27   | 70.5       | 45    | 1470  | 150    | 70            | 150GAK        | 800        |
| 200QW300-36-55   | 300               | 36   | 70.5       | 55    | 1470  | 200    | 70            | 200GAK        | 1200       |
| 200QW400-10-22   | 400               | 10   | 72         | 22    | 1470  | 200    | 100           | 200GAK        | 500        |
| 250QW400-13-30   | 400               | 13   | 72         | 30    | 980   | 250    | 100           | 250GAK        | 800        |
| 150QW400-16-37   | 400               | 16   | 70.5       | 37    | 1470  | 150    | 70            | 150GAK        | 800        |
| 150QW400-20-45   | 400               | 20   | 72         | 45    | 1470  | 150    | 70            | 150GAK        | 800        |
| 200QW400-26-55   | 400               | 26   | 72         | 55    | 1470  | 200    | 70            | 200GAK        | 1200       |
| 300QW400-30-75   | 400               | 30   | 63.5       | 75    | 1470  | 300    | 125           | 300GAK        | 1550       |
| 300QW400-40-90   | 400               | 40   | 63.5       | 90    | 1470  | 300    | 70            | 300GAK        | 1600       |
| 300QW500-75-200  | 500               | 75   | 70         | 200   | 1470  | 300    | 60            | 300GAK        | 3950       |
| 250QW600-9-30    | 600               | 9    | 74         | 30    | 980   | 250    | 100           | 250GAK        | 800        |
| 250QW600-12-37   | 600               | 12   | 74         | 37    | 1470  | 250    | 100           | 250GAK        | 800        |
| 250QW600-15-45   | 600               | 15   | 74         | 45    | 1470  | 250    | 100           | 250GAK        | 800        |
| 300QW600-20-55   | 600               | 20   | 74         | 55    | 980   | 300    | 100           | 300GAK        | 1500       |
| 300QW600-24-75   | 600               | 24   | 74         | 75    | 1470  | 300    | 125           | 300GAK        | 1550       |

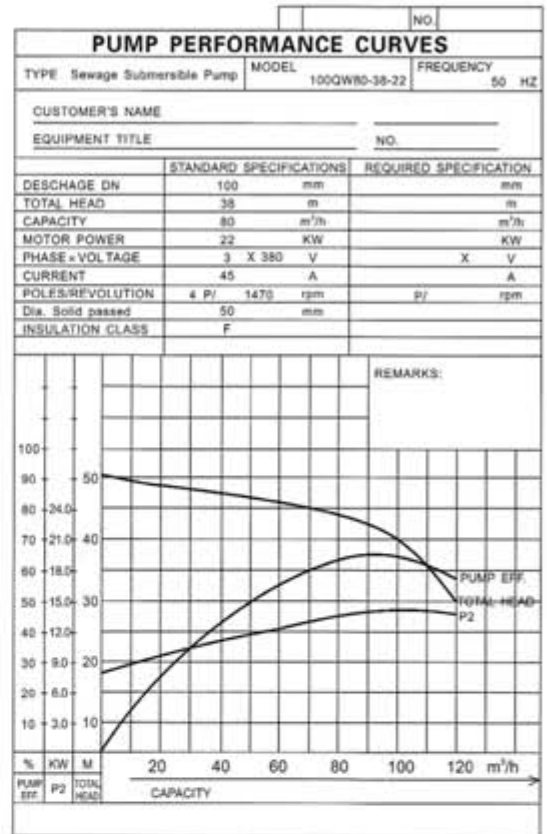
| Model            | Capacity          | Head | Efficiency | Power | Speed | Outlet | Solids Passed | Auto-coupling | NET Weight |
|------------------|-------------------|------|------------|-------|-------|--------|---------------|---------------|------------|
|                  | m <sup>3</sup> /h | m    | %          | kw    | rpm   | mm     | mm            |               | kg         |
| 300QW600-30-90   | 600               | 30   | 70         | 90    | 1470  | 300    | 70            | 300GAK        | 1600       |
| 300QW600-75-220  | 600               | 75   | 72         | 220   | 1470  | 300    | 60            | 300GAK        | 4200       |
| 300QW600-80-250  | 600               | 80   | 72         | 250   | 1470  | 300    | 60            | 300GAK        | 4250       |
| 300QW600-100-315 | 600               | 100  | 70         | 315   | 1470  | 300    | 60            | 300GAK        | 6500       |
| 250QW650-37-110  | 650               | 37   | 74.5       | 110   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 250QW650-45-132  | 650               | 45   | 74.5       | 132   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 250QW650-50-160  | 650               | 50   | 74.3       | 160   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 300QW650-100-355 | 650               | 100  | 70         | 355   | 1470  | 300    | 60            | 300GAK        | 6300       |
| 300QW700-60-200  | 700               | 60   | 74         | 200   | 1470  | 300    | 60            | 300GAK        | 3950       |
| 300QW700-80-280  | 700               | 80   | 72         | 280   | 1470  | 300    | 60            | 300GAK        | 5200       |
| 250QW800-7-30    | 800               | 7    | 75         | 30    | 980   | 250    | 100           | 250GAK        | 800        |
| 250QW800-10-37   | 800               | 10   | 75         | 37    | 1470  | 250    | 100           | 250GAK        | 800        |
| 250QW800-12-45   | 800               | 12   | 75         | 45    | 1470  | 250    | 100           | 250GAK        | 800        |
| 300QW800-16-55   | 800               | 16   | 76         | 55    | 980   | 300    | 100           | 300GAK        | 1500       |
| 300QW800-20-75   | 800               | 20   | 75         | 75    | 1470  | 300    | 125           | 300GAK        | 1550       |
| 300QW800-24-90   | 800               | 24   | 75         | 90    | 1470  | 300    | 125           | 300GAK        | 1600       |
| 250QW800-30-110  | 800               | 30   | 75         | 110   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 250QW800-38-132  | 800               | 38   | 75         | 132   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 250QW800-45-160  | 800               | 45   | 75         | 160   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 300QW800-60-220  | 800               | 60   | 74         | 220   | 1470  | 300    | 60            | 300GAK        | 4200       |
| 300QW800-65-250  | 800               | 65   | 74         | 250   | 1470  | 300    | 60            | 300GAK        | 4250       |
| 300QW800-80-315  | 800               | 80   | 75         | 315   | 1470  | 300    | 60            | 300GAK        | 6500       |
| 300QW900-80-355  | 900               | 80   | 75         | 355   | 1470  | 300    | 60            | 300GAK        | 6300       |
| 300QW1000-9.5-45 | 1000              | 9.5  | 76         | 45    | 980   | 300    | 150           | 300GAK        | 1200       |
| 300QW1000-13-55  | 1000              | 13   | 76         | 55    | 980   | 300    | 100           | 300GAK        | 1500       |
| 300QW1000-16-75  | 1000              | 16   | 76         | 75    | 1470  | 300    | 125           | 300GAK        | 1550       |
| 300QW1000-20-90  | 1000              | 20   | 76         | 90    | 1470  | 300    | 125           | 300GAK        | 1600       |
| 300QW1000-22-110 | 1000              | 22   | 76         | 110   | 1470  | 250    | 100           | 300GAK        | 2100       |
| 250QW1000-30-132 | 1000              | 30   | 76         | 132   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 250QW1000-35-160 | 1000              | 35   | 76         | 160   | 1470  | 250    | 100           | 250GAK        | 2100       |
| 400QW1000-40-185 | 1000              | 40   | 80         | 185   | 1470  | 400    | 125           | 400GAK        | 3900       |
| 300QW1000-44-200 | 1000              | 44   | 80         | 200   | 1470  | 300    | 125           | 300GAK        | 3950       |
| 300QW1000-46-220 | 1000              | 46   | 76         | 220   | 1470  | 300    | 125           | 300GAK        | 4200       |

| Model              | Capacity          | Head | Efficiency | Power | Speed | Outlet | Solids Passed | Auto-coupling | NET Weight |
|--------------------|-------------------|------|------------|-------|-------|--------|---------------|---------------|------------|
|                    | m <sup>3</sup> /h | m    | %          | kw    | rpm   | mm     | mm            |               | kg         |
| 300QW1000-52-250   | 1000              | 52   | 76         | 250   | 1470  | 300    | 125           | 300GAK        | 4250       |
| 400QW1000-65-280   | 1000              | 65   | 80         | 280   | 1470  | 400    | 125           | 400GAK        | 5200       |
| 400QW1300-10-55    | 1300              | 10   | 77.5       | 55    | 740   | 400    | 125           | 400GAK        | 2300       |
| 400QW1300-12-75    | 1300              | 12   | 77.5       | 75    | 740   | 400    | 125           | 400GAK        | 2300       |
| 400QW1300-16-90    | 1300              | 16   | 77.5       | 90    | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1300-20-110   | 1300              | 20   | 77.5       | 110   | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1300-24-132   | 1300              | 24   | 77.5       | 132   | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1300-26-160   | 1300              | 26   | 77.5       | 160   | 980   | 400    | 125           | 400GAK        | 3550       |
| 400QW1300-30-185   | 1300              | 30   | 77         | 185   | 980   | 400    | 125           | 400GAK        | 3900       |
| 400QW1300-32-200   | 1300              | 32   | 77         | 200   | 980   | 400    | 125           | 300GAK        | 3950       |
| 400QW1300-35-220   | 1300              | 35   | 77         | 220   | 980   | 400    | 125           | 400GAK        | 4200       |
| 400QW1300-40-250   | 1300              | 40   | 77         | 250   | 980   | 400    | 125           | 400GAK        | 4250       |
| 400QW1300-50-280   | 1300              | 50   | 81         | 280   | 980   | 400    | 125           | 400GAK        | 5200       |
| 400QW1300-65-315   | 1300              | 65   | 81         | 315   | 1470  | 400    | 125           | 400GAK        | 6300       |
| 400QW1400-65-355   | 1400              | 65   | 81         | 355   | 980   | 400    | 125           | 400GAK        | 6500       |
| 400QW1600-8-55     | 1600              | 8    | 78         | 55    | 740   | 400    | 125           | 400GAK        | 2300       |
| 400QW1600-10-75    | 1600              | 10   | 78         | 75    | 740   | 400    | 125           | 400GAK        | 2300       |
| 400QW1600-12-90    | 1600              | 12   | 78         | 90    | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1600-16-110   | 1600              | 16   | 78         | 110   | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1600-20-132   | 1600              | 20   | 78         | 132   | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW1600-22-160   | 1600              | 22   | 77.5       | 160   | 980   | 400    | 125           | 400GAK        | 3550       |
| 400QW1600-25-185   | 1600              | 25   | 79         | 185   | 980   | 400    | 125           | 400GAK        | 3900       |
| 400QW1600-27-200   | 1600              | 27   | 79         | 200   | 980   | 400    | 125           | 400GAK        | 3950       |
| 400QW1600-30-220   | 1600              | 30   | 79         | 220   | 980   | 400    | 125           | 400GAK        | 4200       |
| 400QW1600-35-250   | 1600              | 35   | 79         | 250   | 980   | 400    | 125           | 400GAK        | 4250       |
| 400QW1600-50-315   | 1600              | 50   | 80         | 315   | 980   | 400    | 125           | 400GAK        | 6500       |
| 500QW1700-40-280   | 1700              | 40   | 81         | 280   | 980   | 500    | 125           | 500GAK        | 5200       |
| 400QW1700-50-355   | 1700              | 50   | 80         | 355   | 980   | 400    | 125           | 400GAK        | 6500       |
| 500QW1800-44-315   | 1800              | 44   | 80         | 315   | 980   | 500    | 125           | 500GAK        | 6300       |
| 400QW2000-8-75     | 2000              | 8    | 79         | 75    | 740   | 400    | 125           | 400GAK        | 2300       |
| 400QW2000-10-90    | 2000              | 10   | 79         | 90    | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW2000-13.5-110 | 2000              | 13.5 | 79         | 110   | 980   | 400    | 125           | 400GAK        | 2300       |
| 400QW2000-16-132   | 2000              | 16   | 79         | 132   | 980   | 400    | 125           | 400GAK        | 2300       |

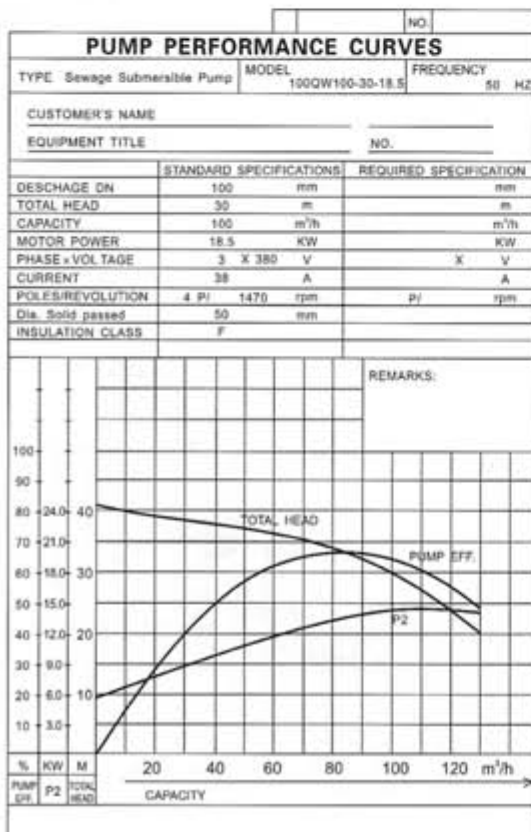
# 100QW80-34-18.5



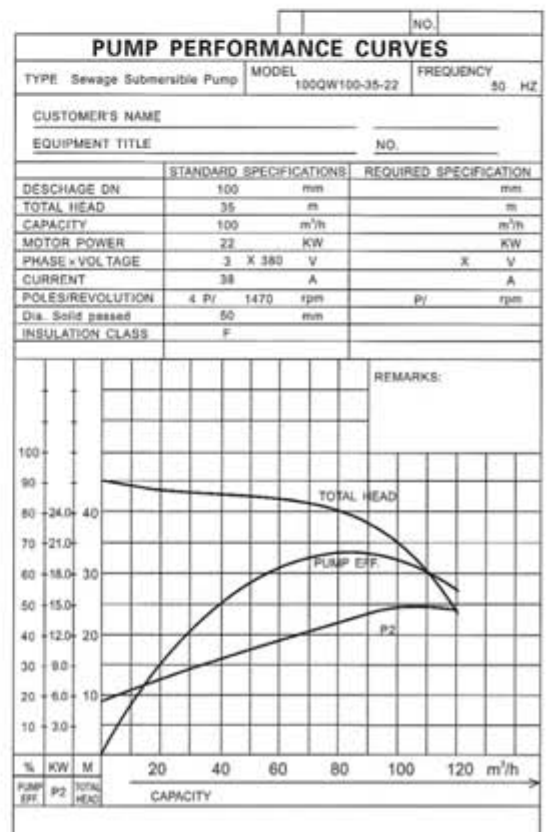
# 100QW80-38-22



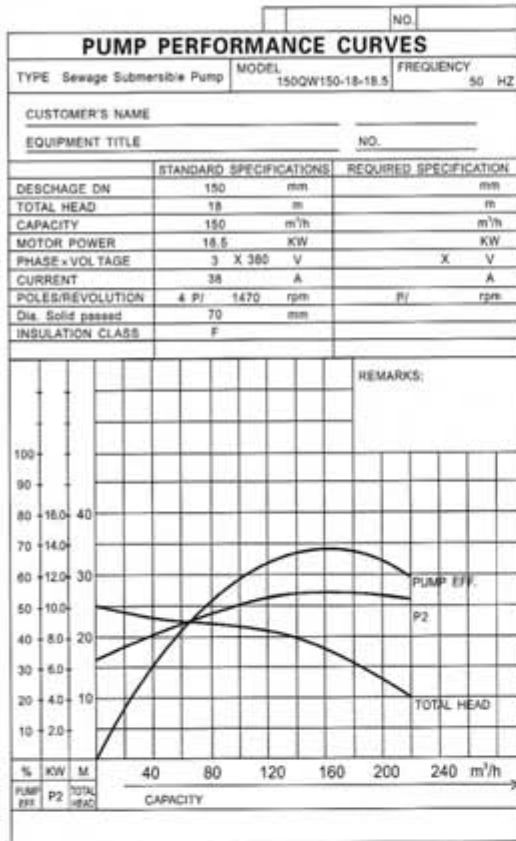
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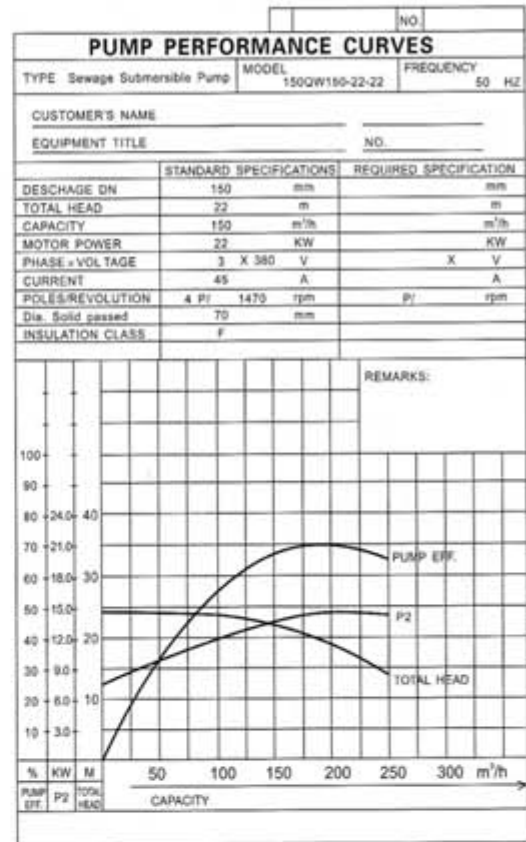
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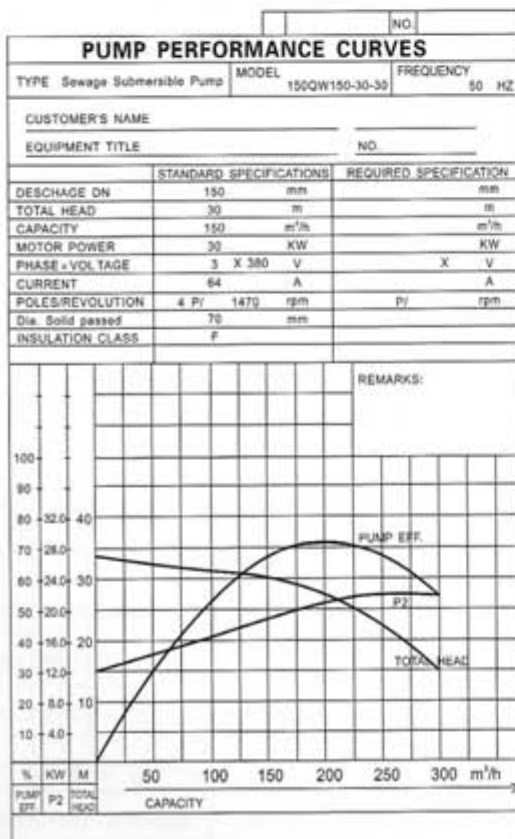
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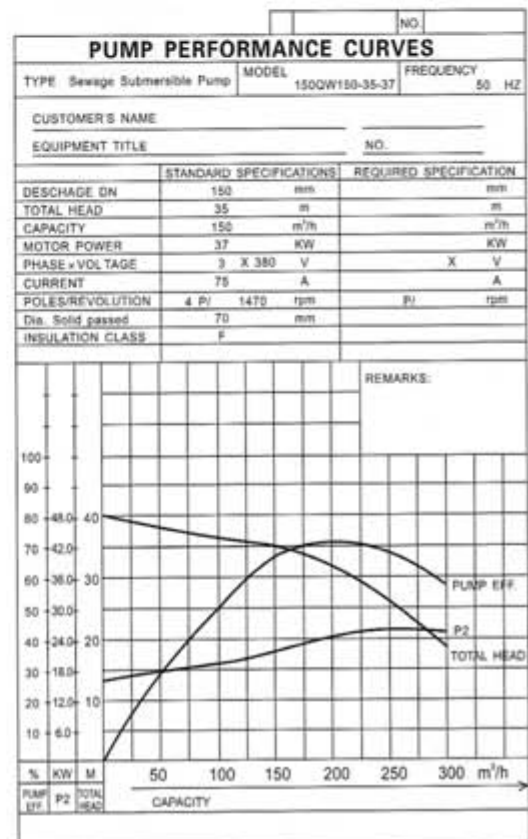
## 150QW150-22-22



## 150QW150-30-30

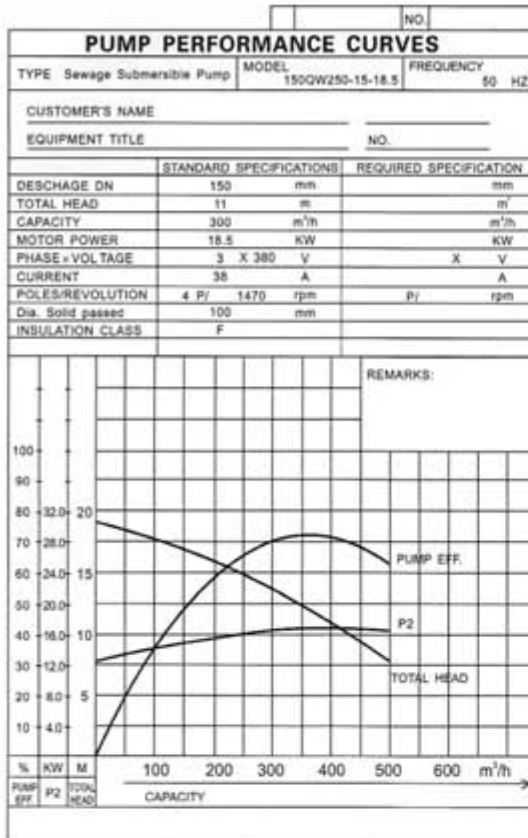


## 150QW150-35-37

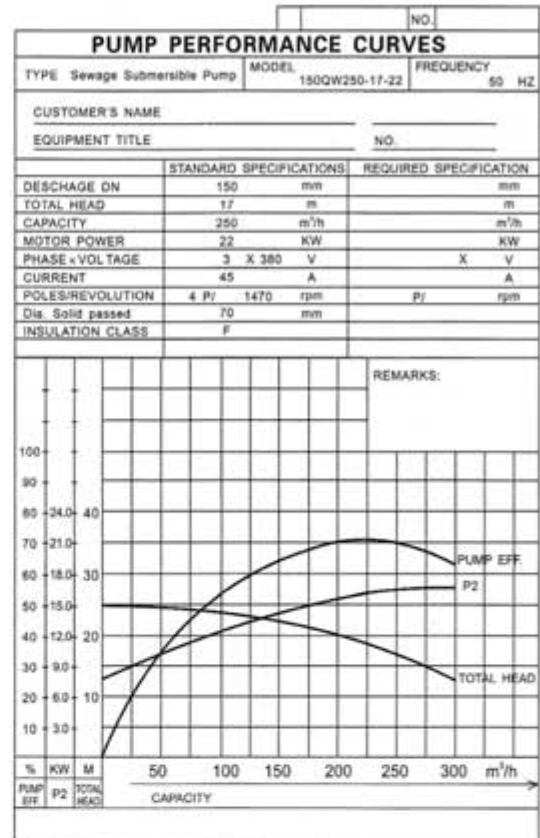




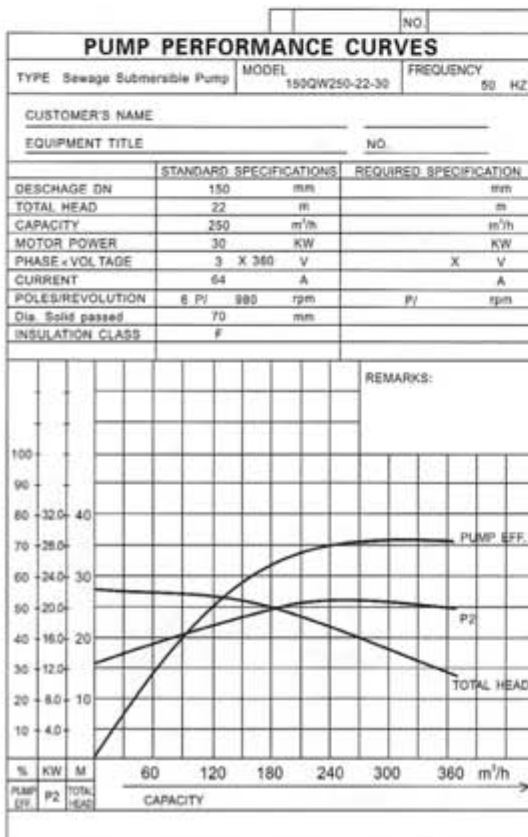
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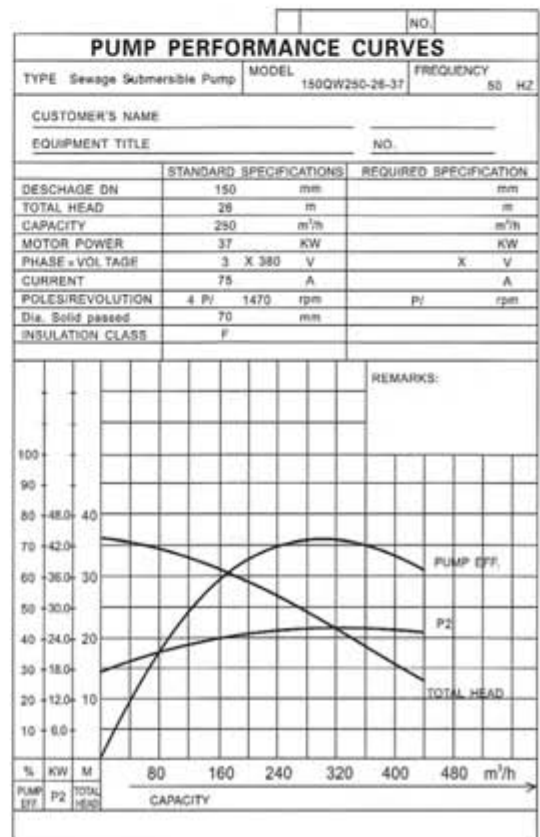
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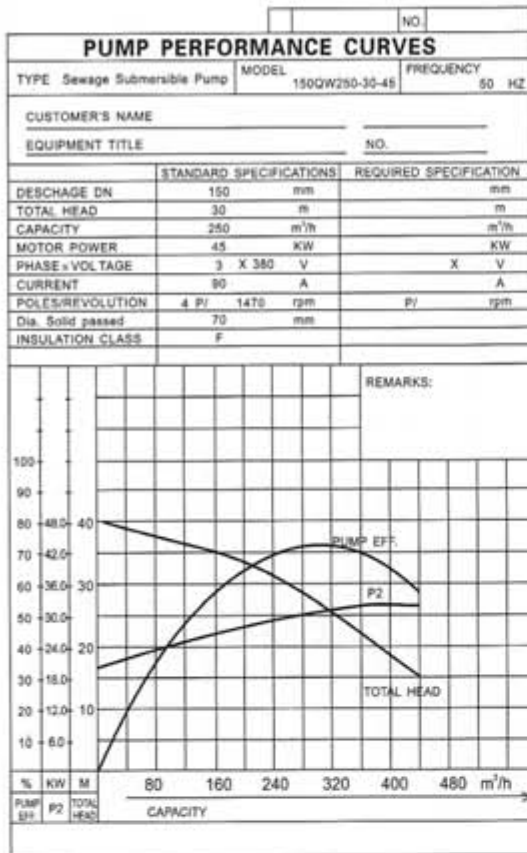
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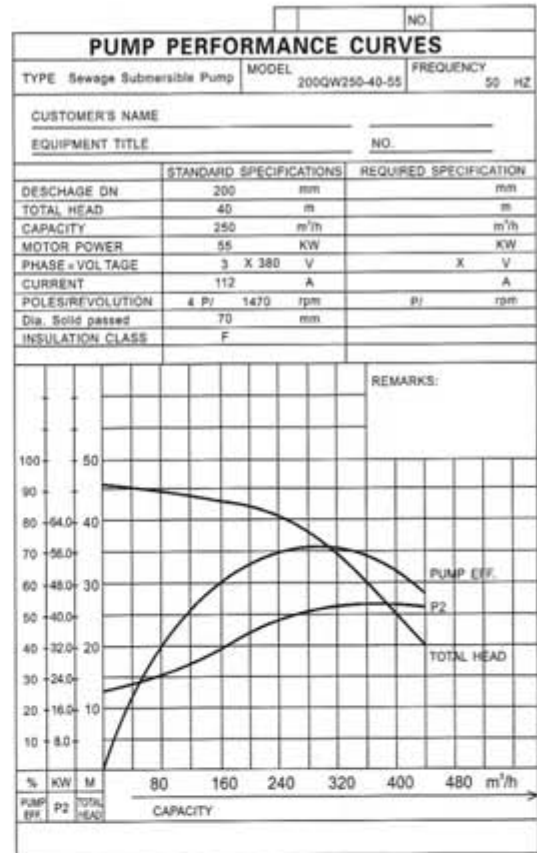
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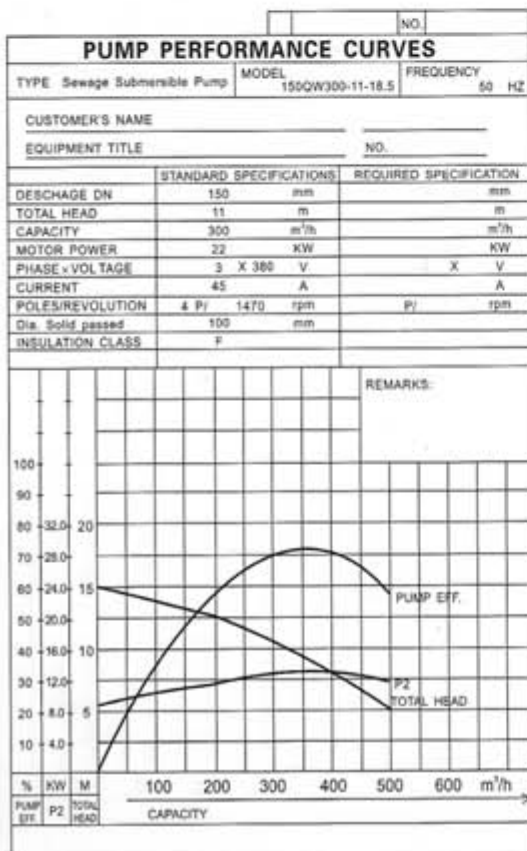
## 150QW250-30-45



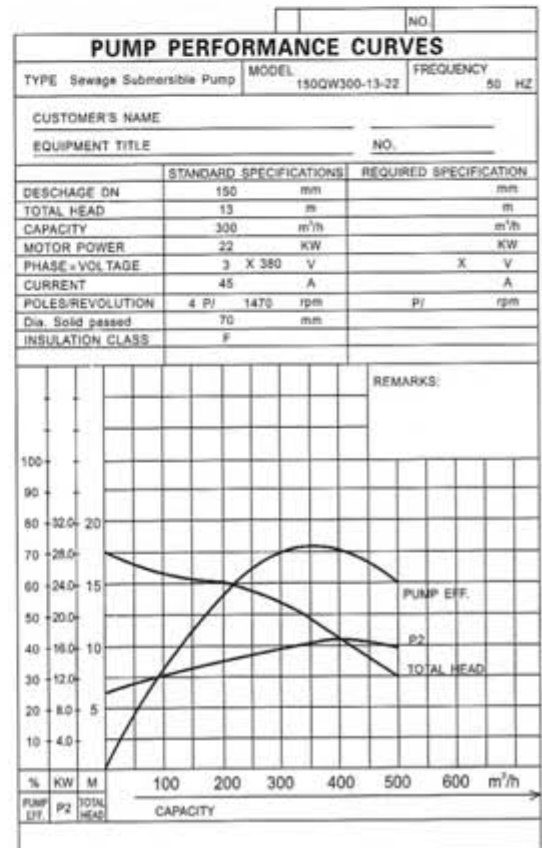
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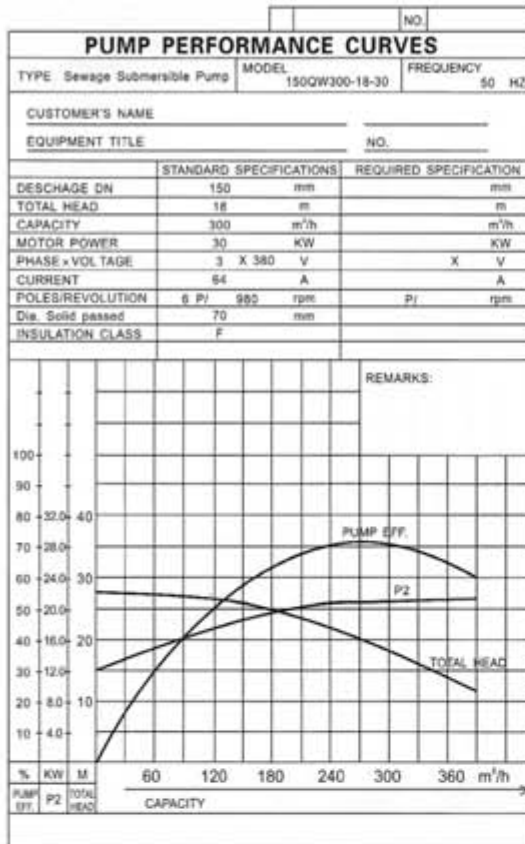
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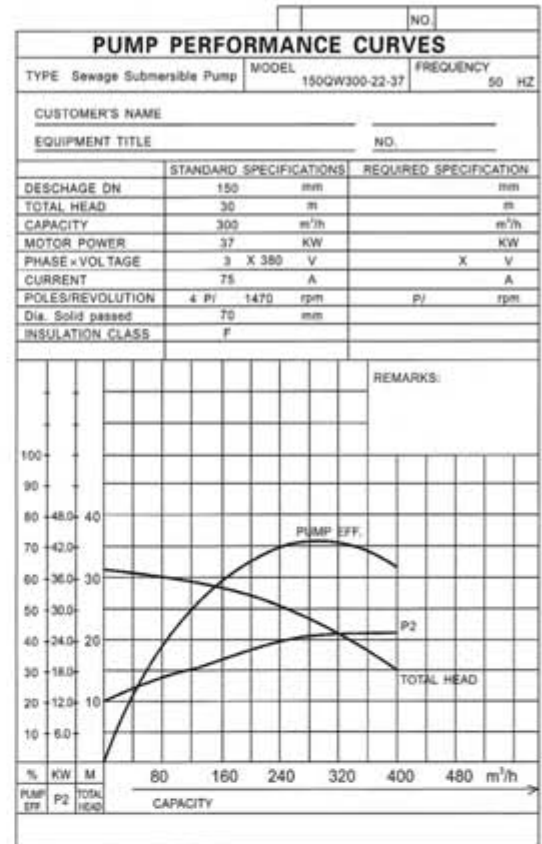
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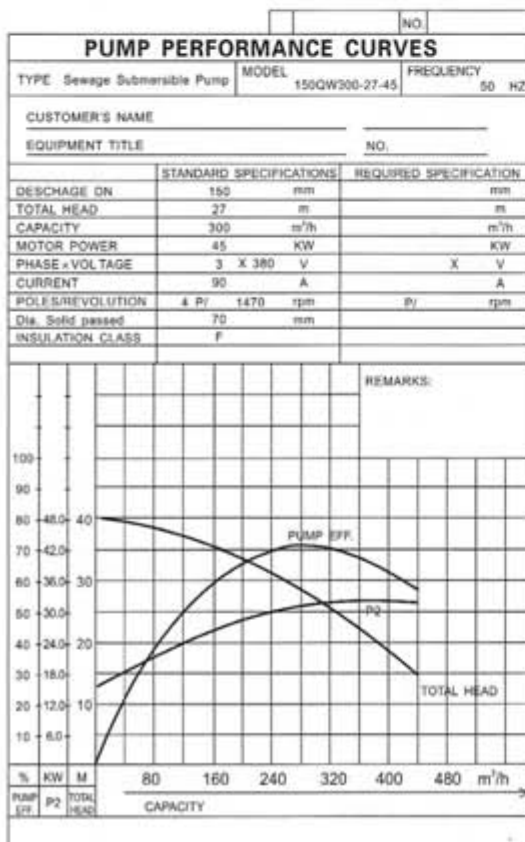
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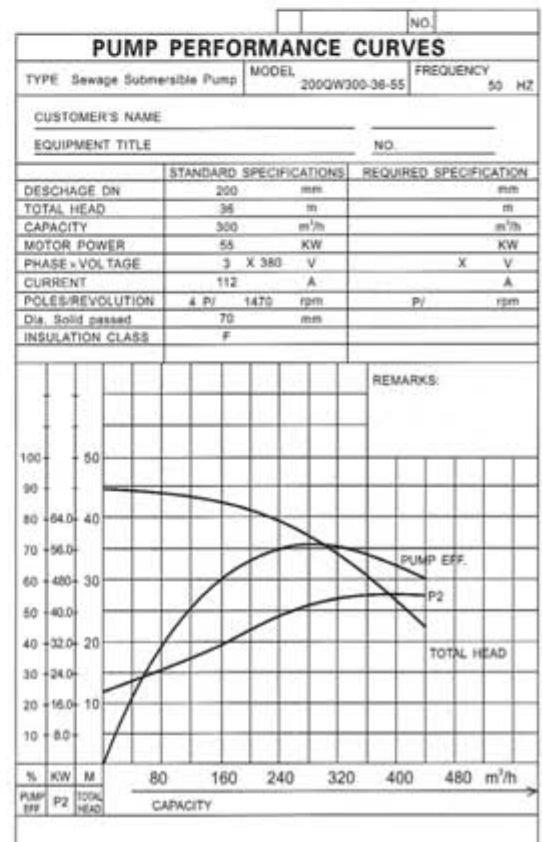
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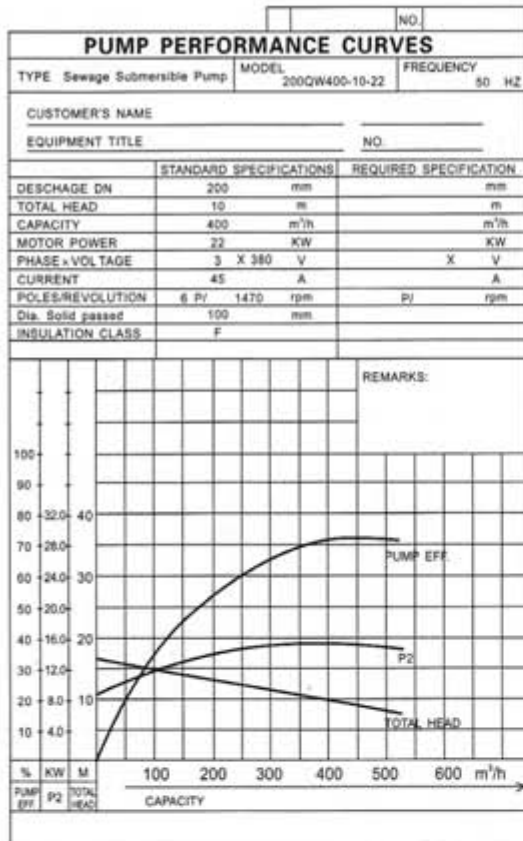
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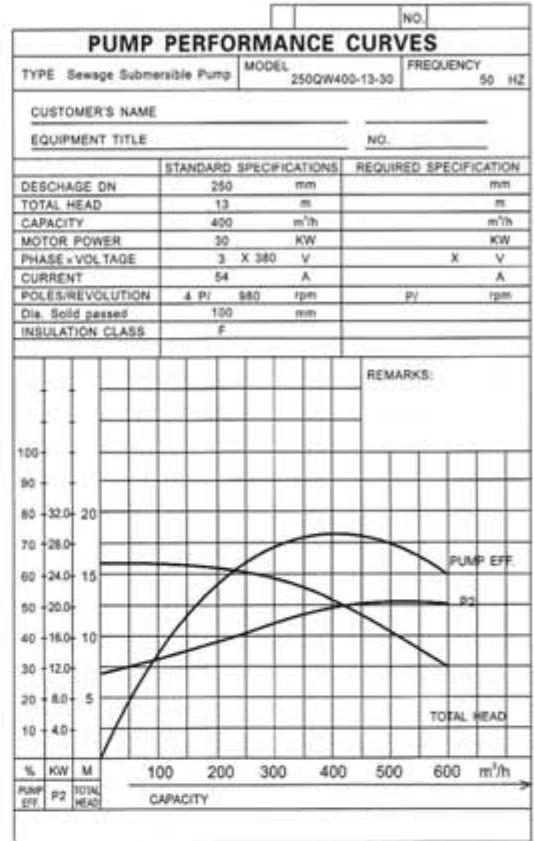
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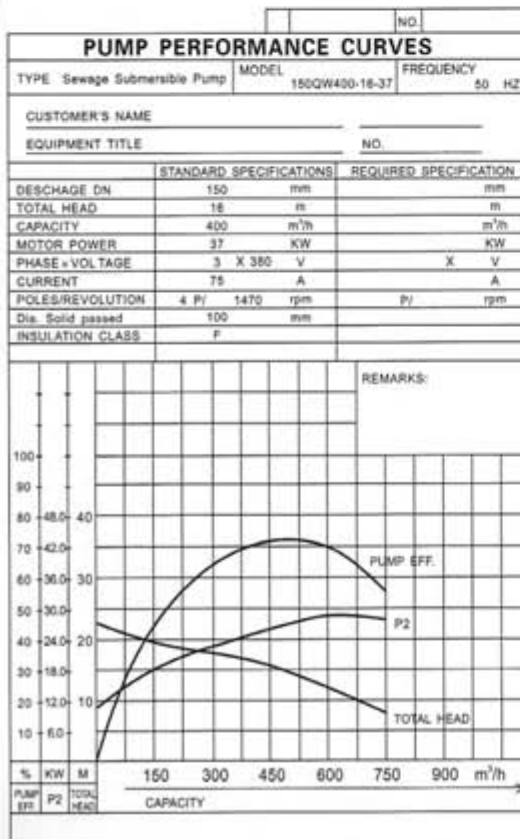
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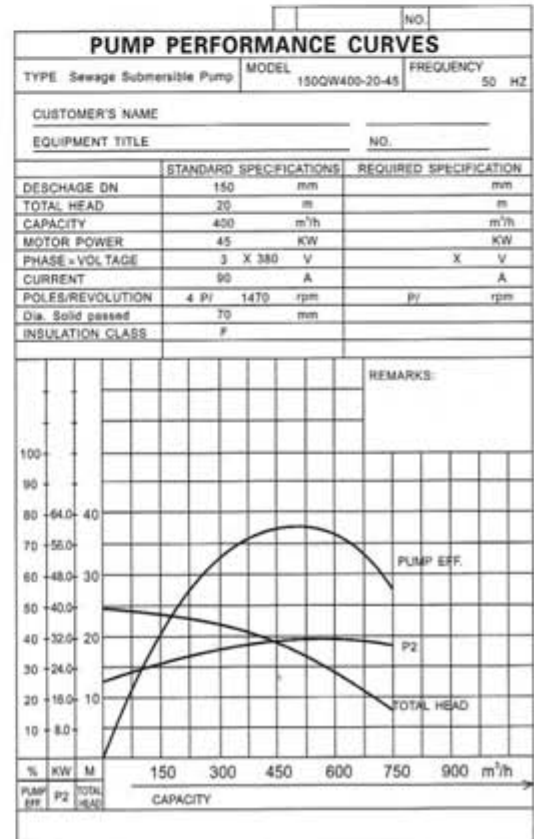
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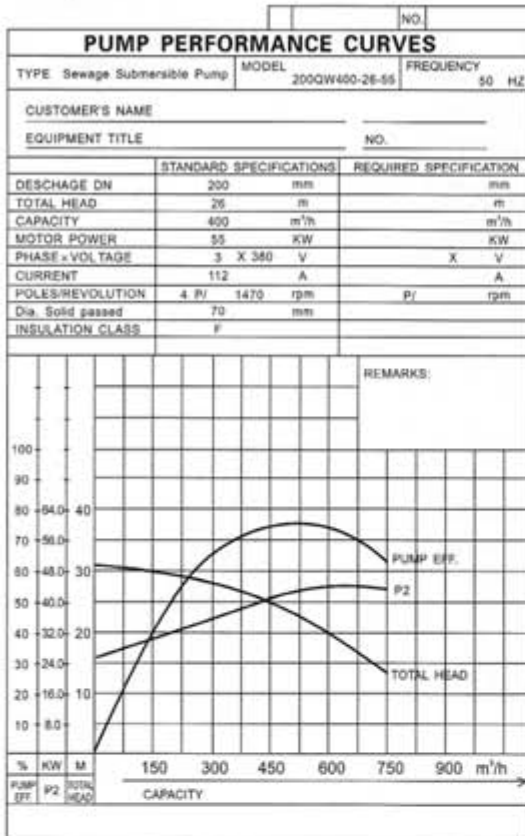
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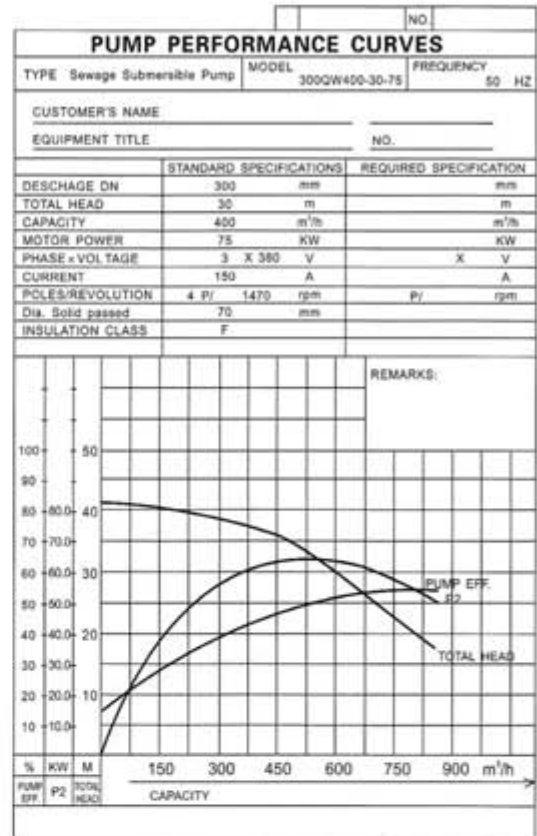
## 150QW400-20-45



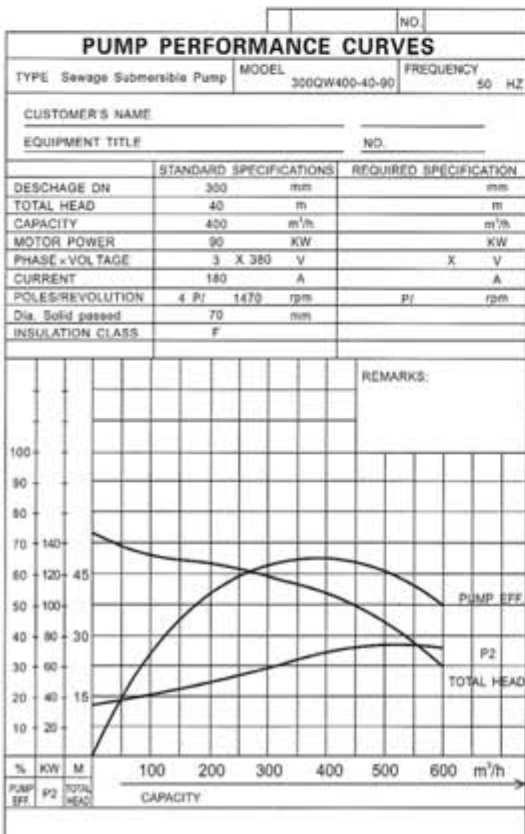
## 200QW400-26-55



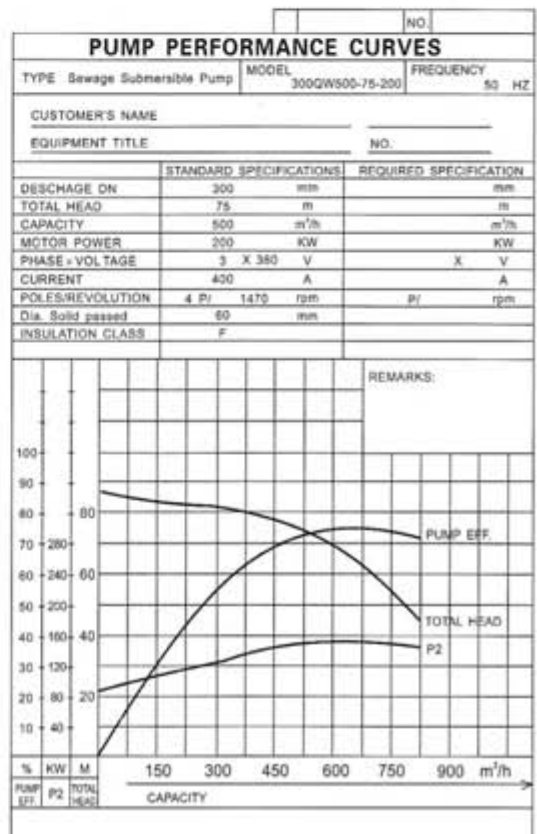
## 300QW400-30-75



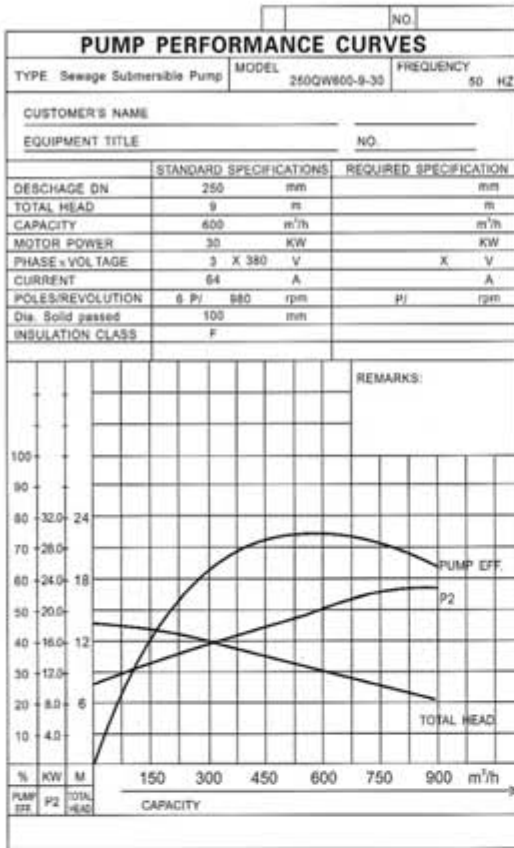
## 300QW400-40-90



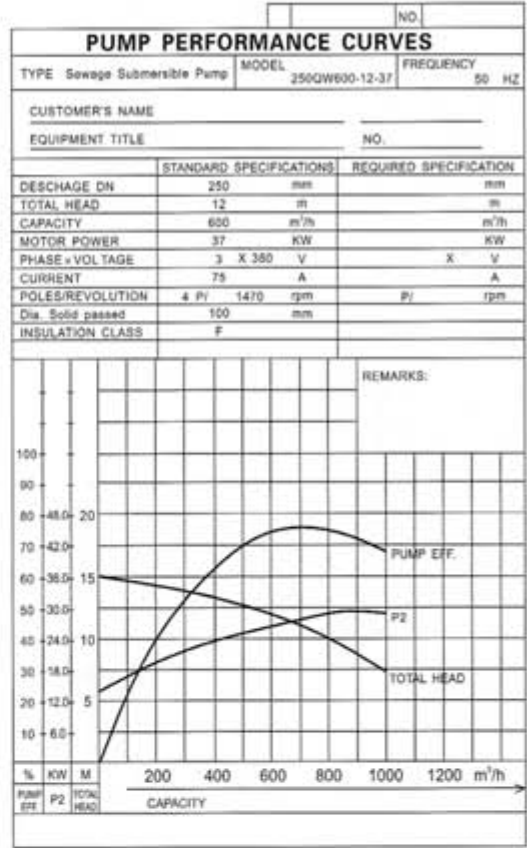
## 300QW300-75-200



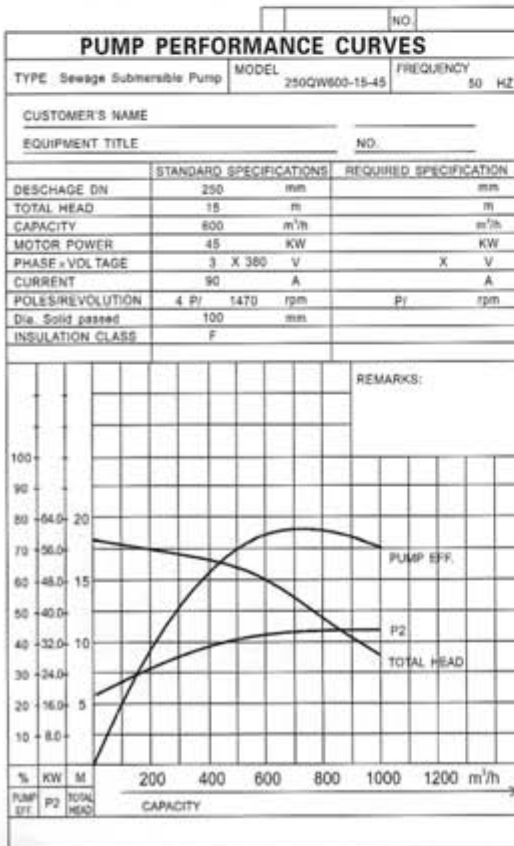
## 250QW600-9-30



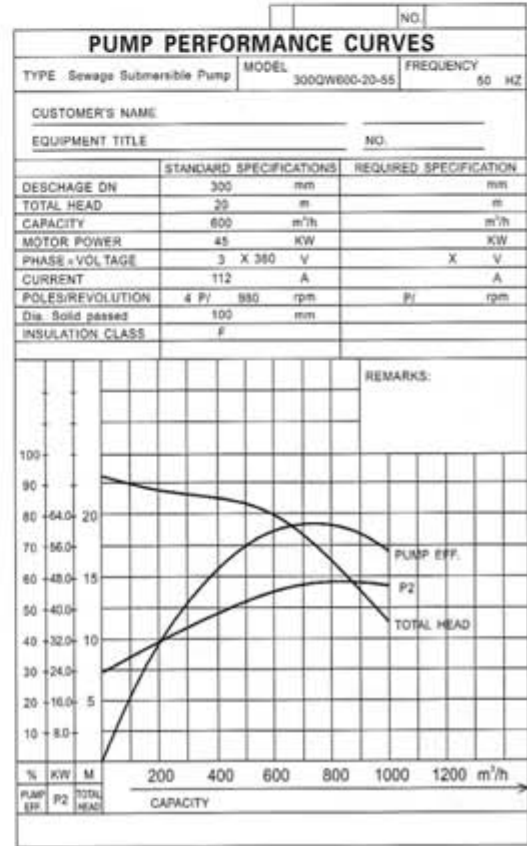
## 250QW600-12-37



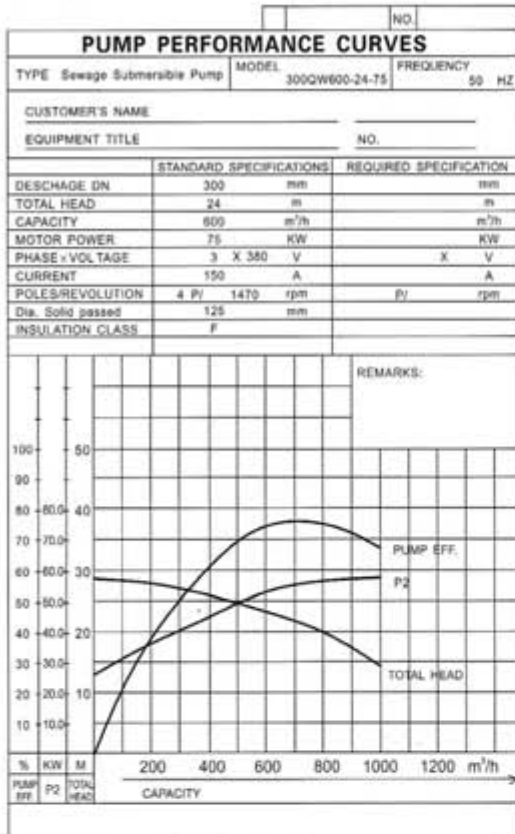
## 250QW600-15-45



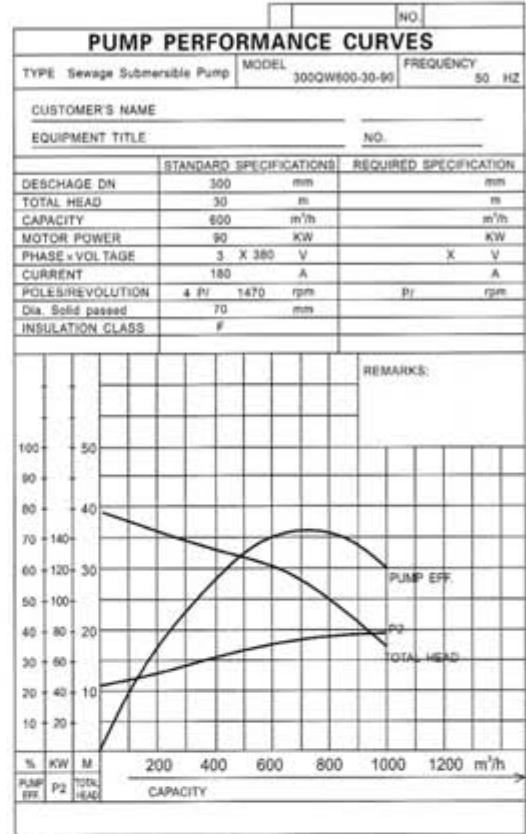
## 300QW600-20-55



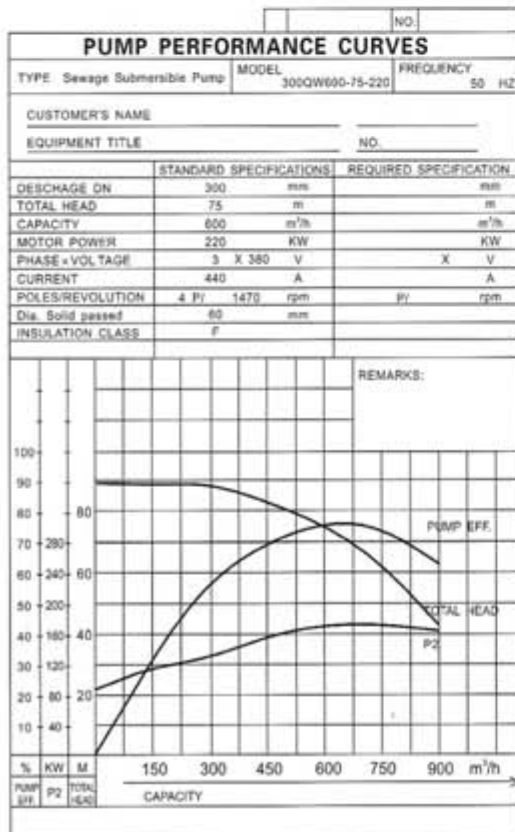
### 300QW600-24-75



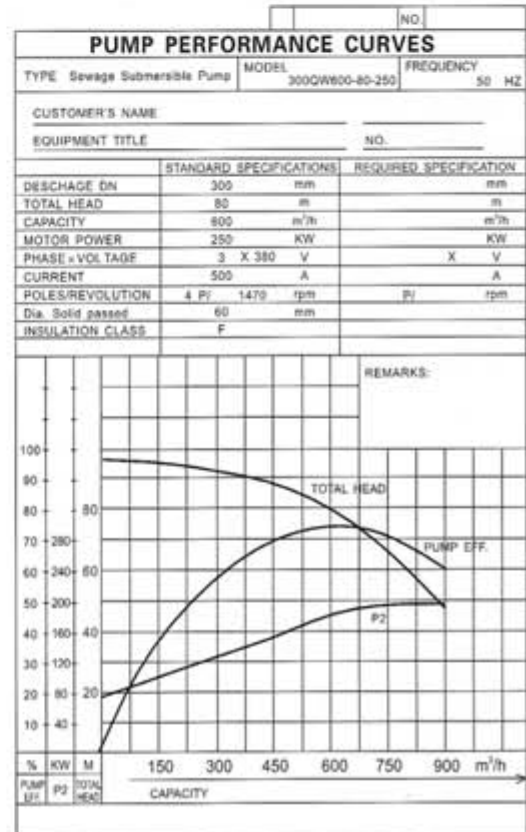
### 300QW600-30-90



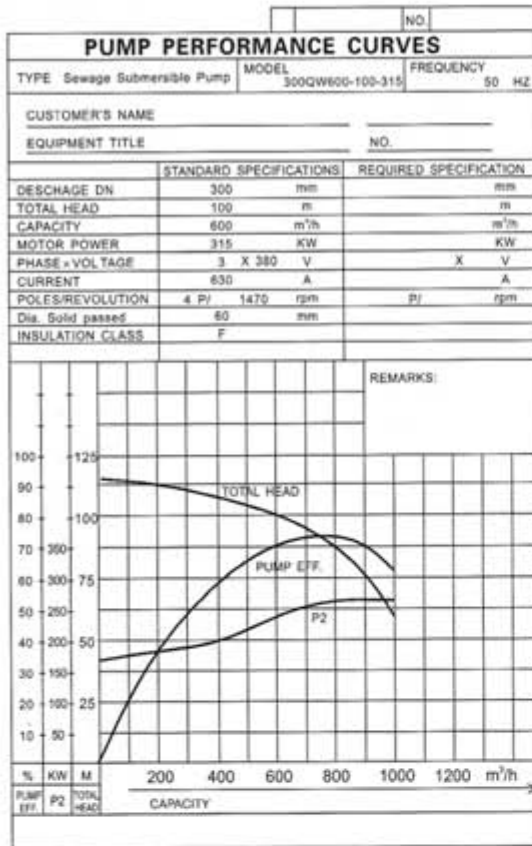
### 300QW600-75-220



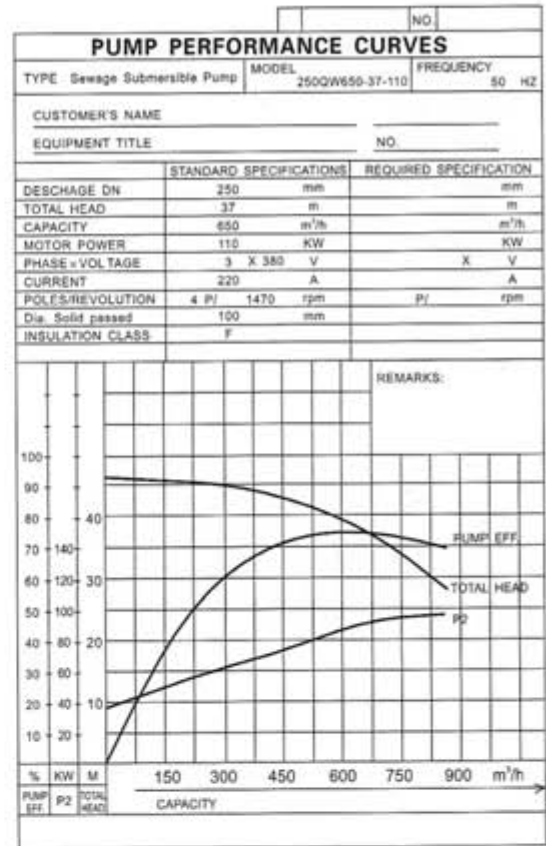
### 300QW600-80-250



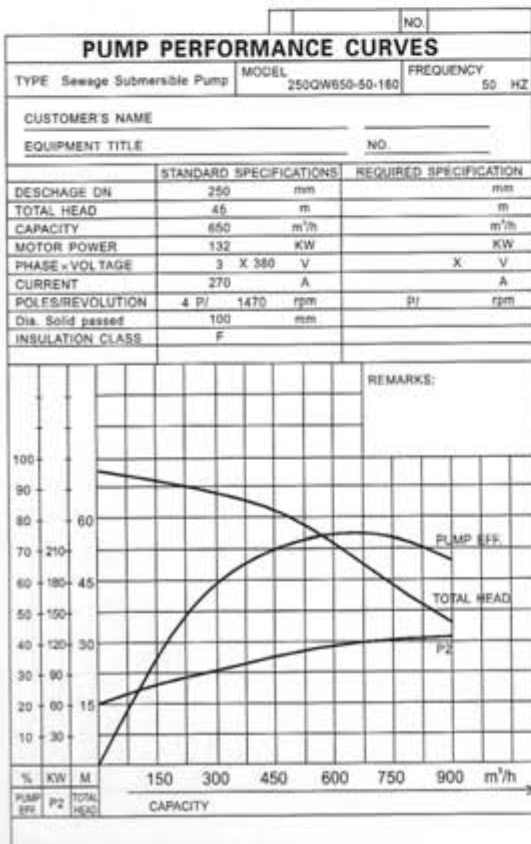
### 300QW600-100-315



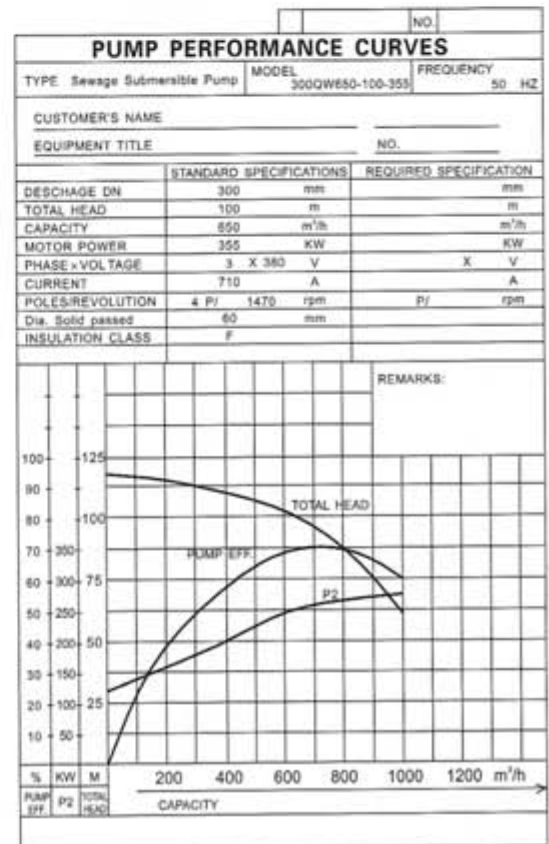
### 250QW650-37-110



### 250QW650-50-160

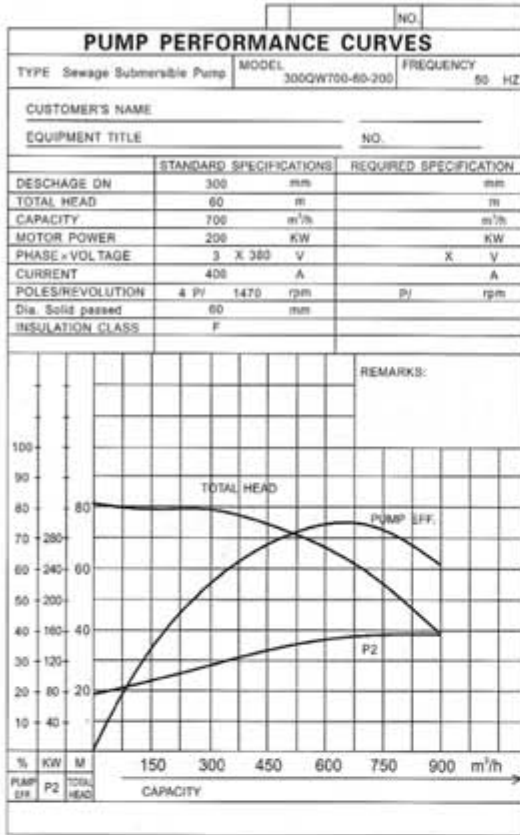


### 300QW650-100-355

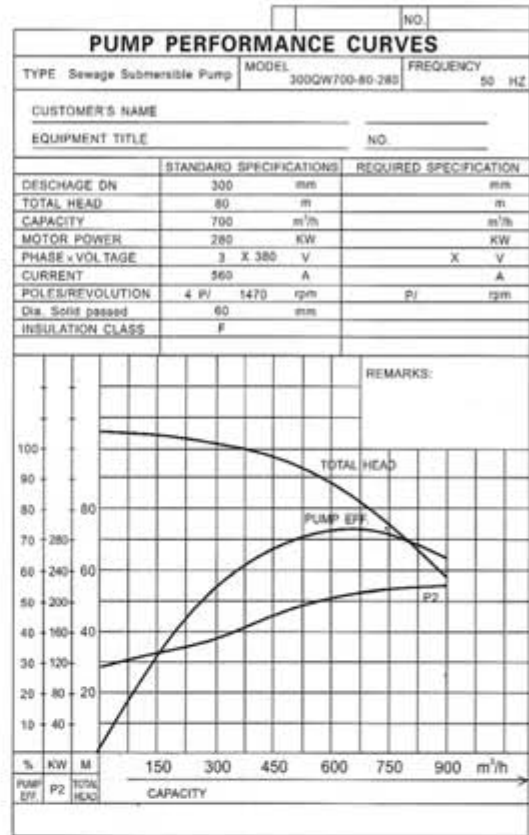




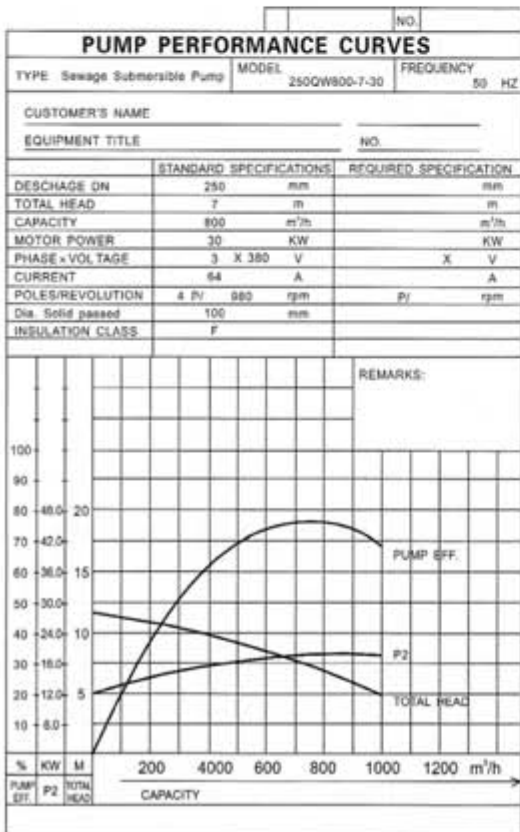
### 300QW700-60-200



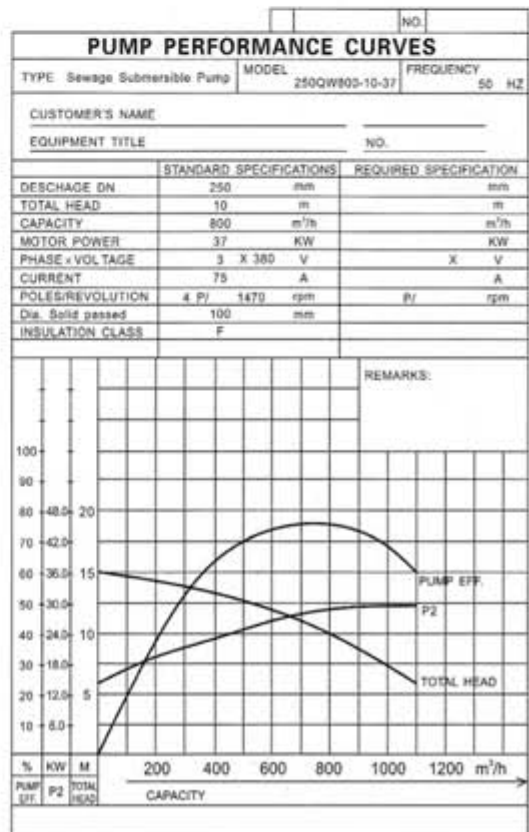
### 300QW700-80-280



### 250QW800-7-30

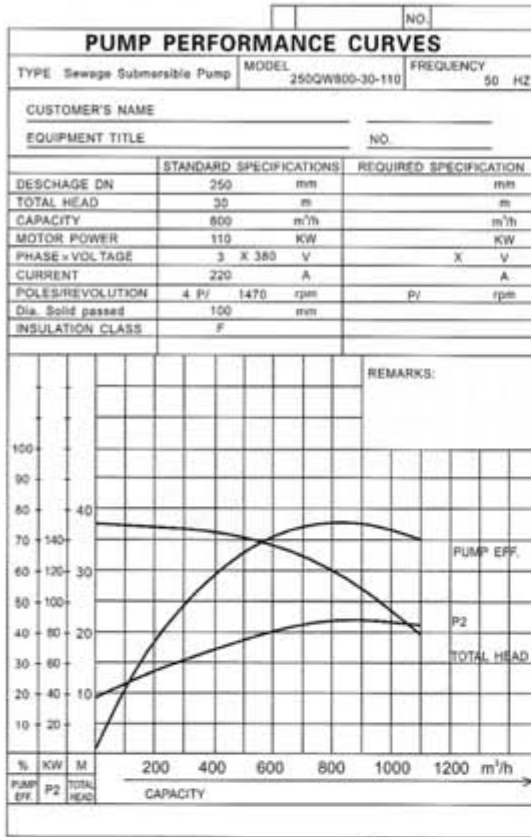


### 250QW800-10-37

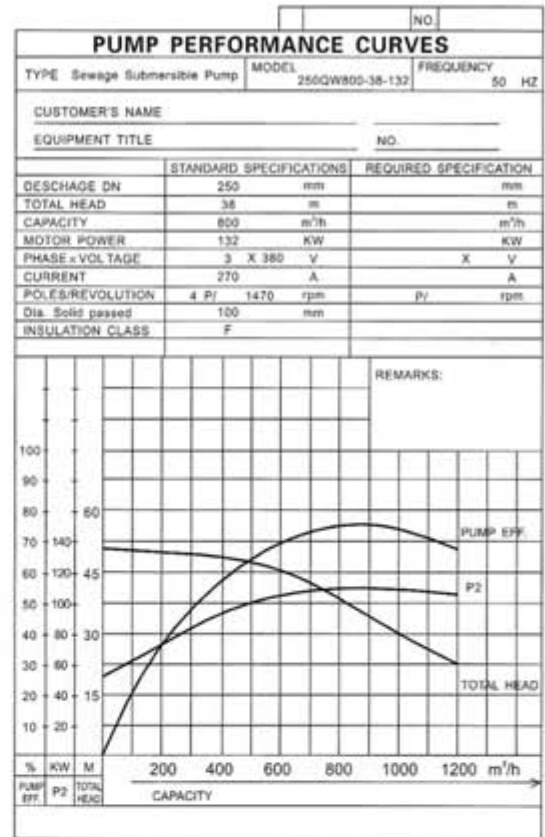




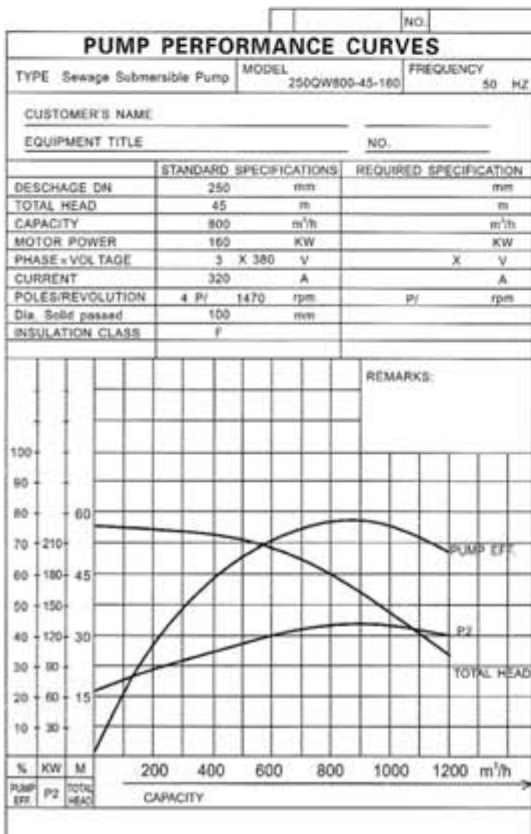
## 250QW800-30-110



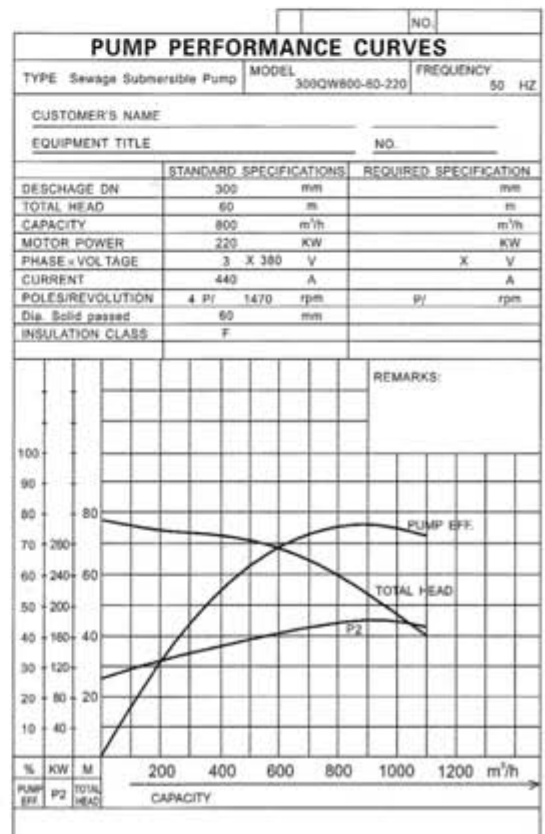
## 250QW800-38-132



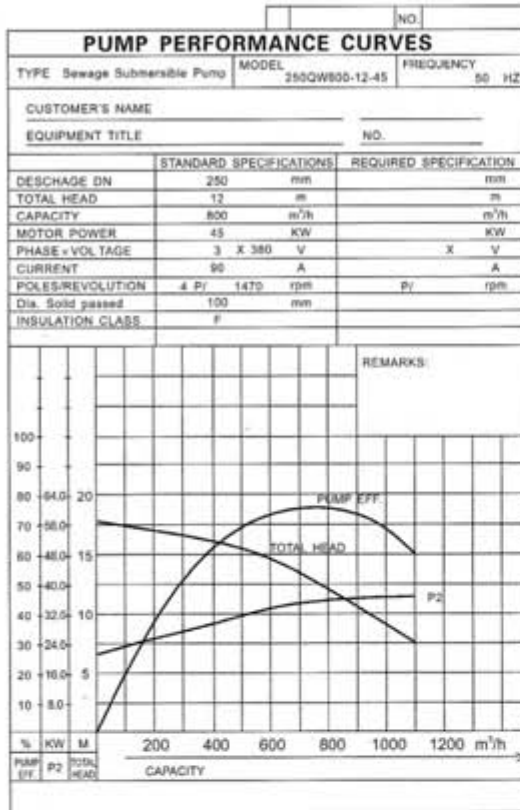
## 250QW800-45-160



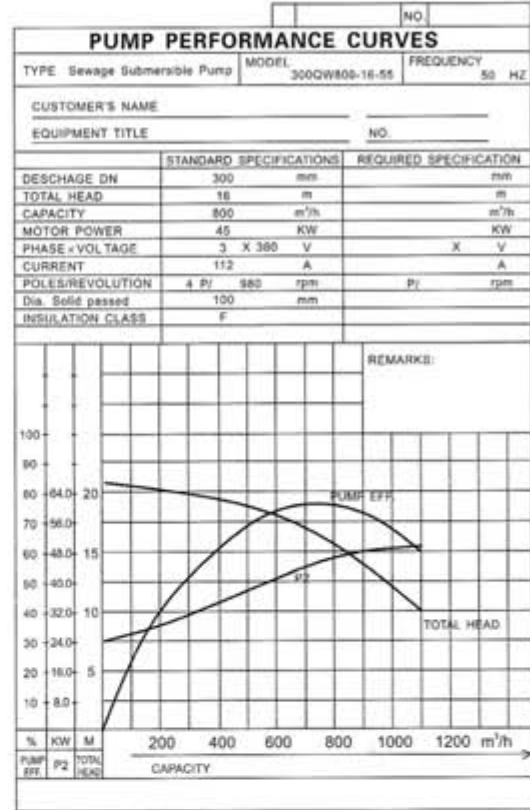
## 300QW800-60-220



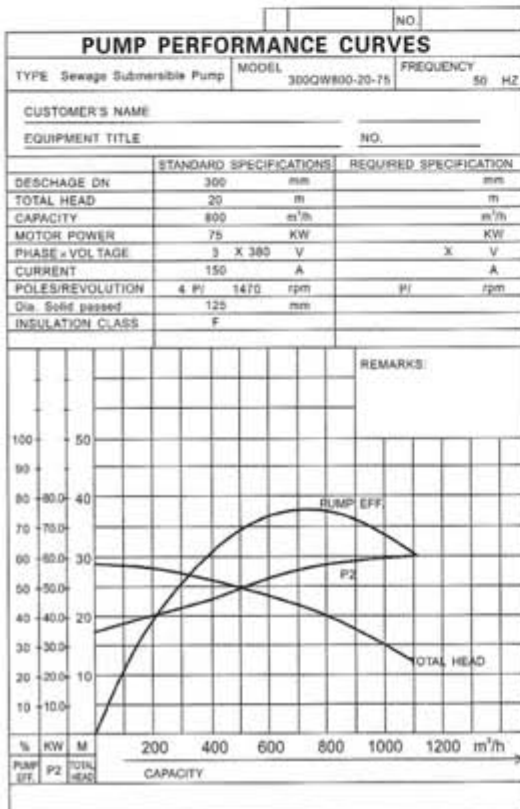
## 250QW800-12-45



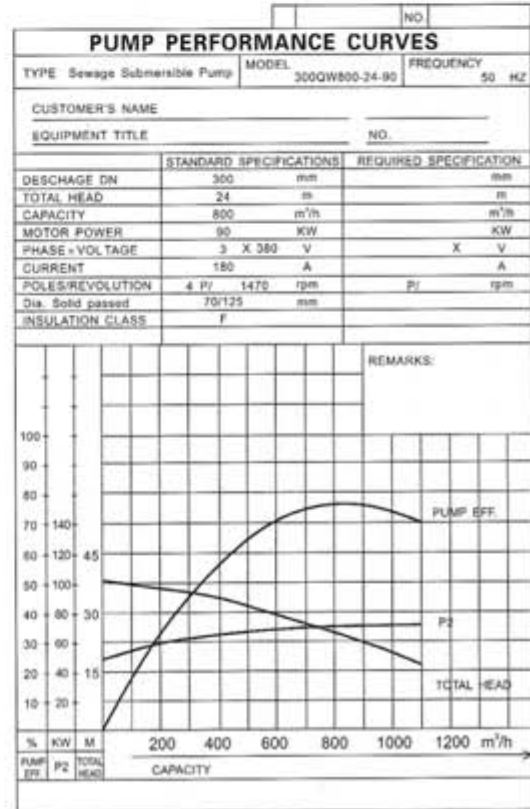
## 300QW800-16-55



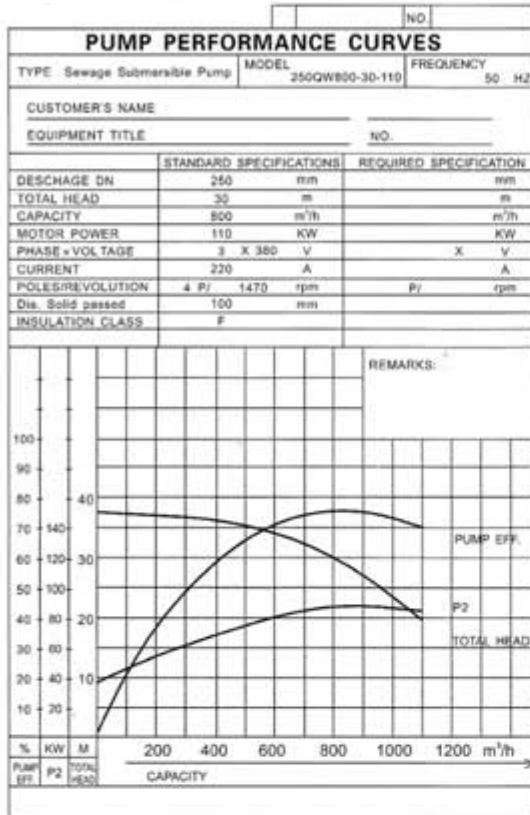
## 300QW800-20-75



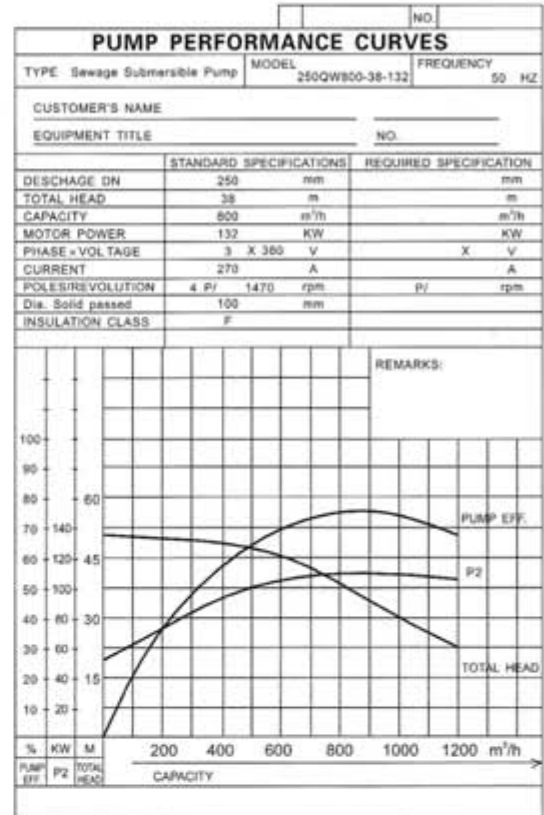
## 300QW800-24-90



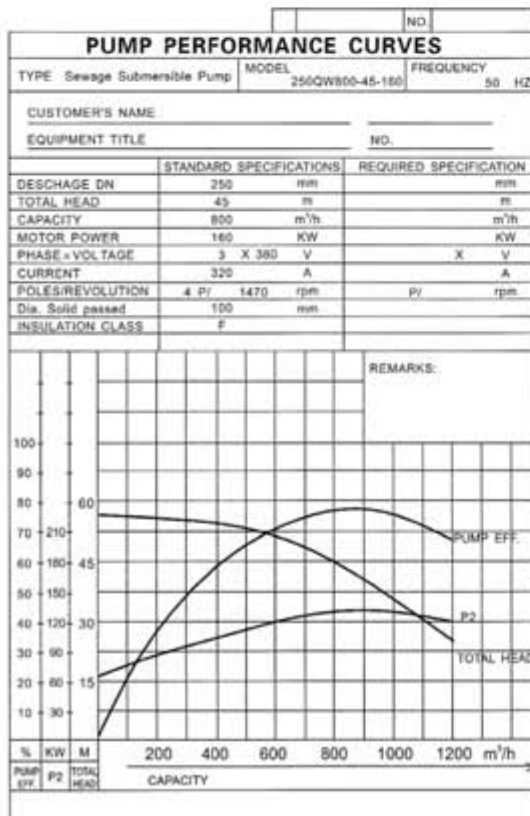
## 250QW800-30-110



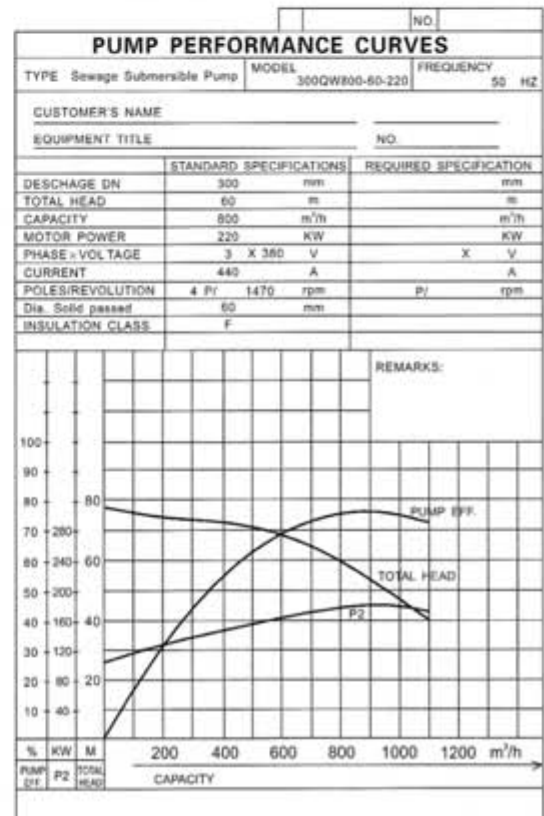
## 250QW800-38-132



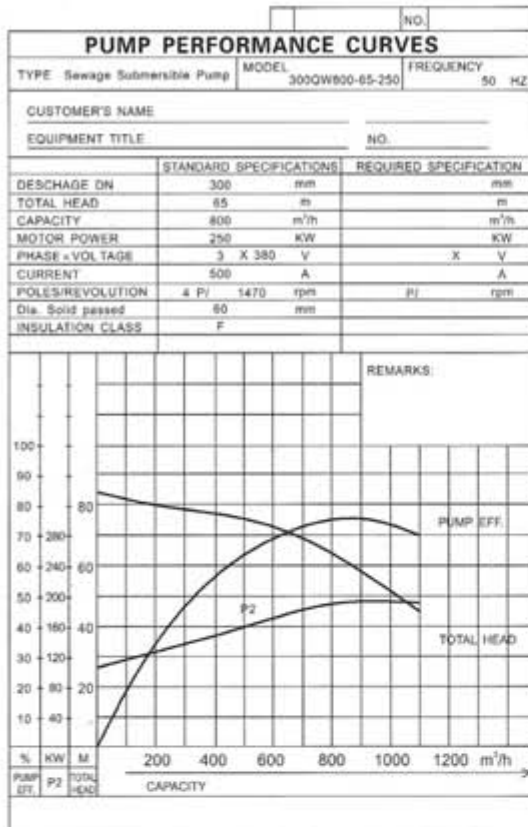
## 250QW800-45-160



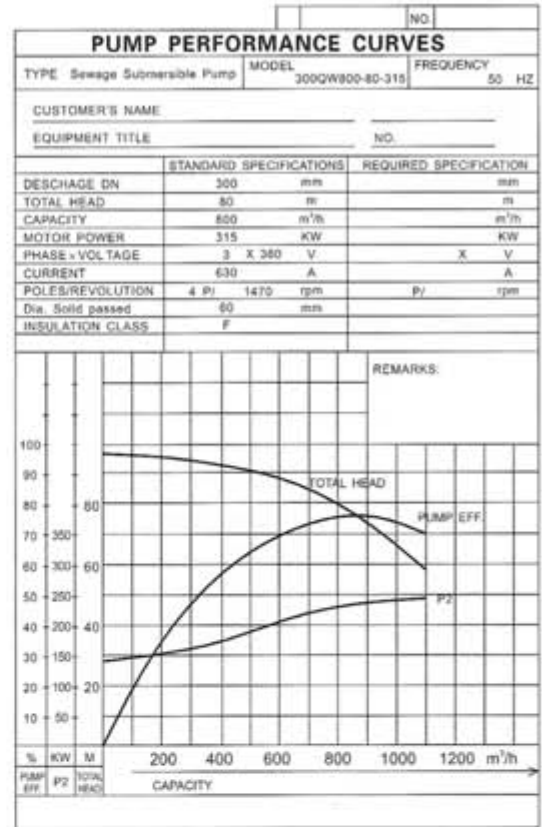
## 300QW800-60-220



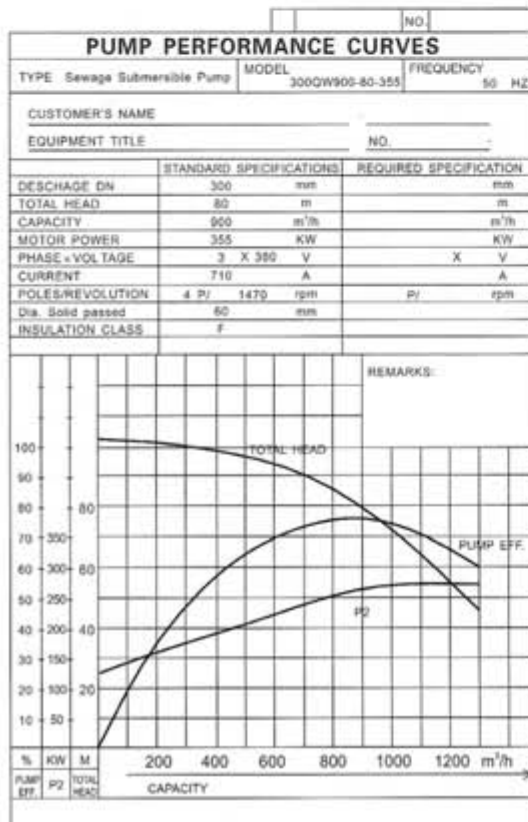
### 300QW800-65-250



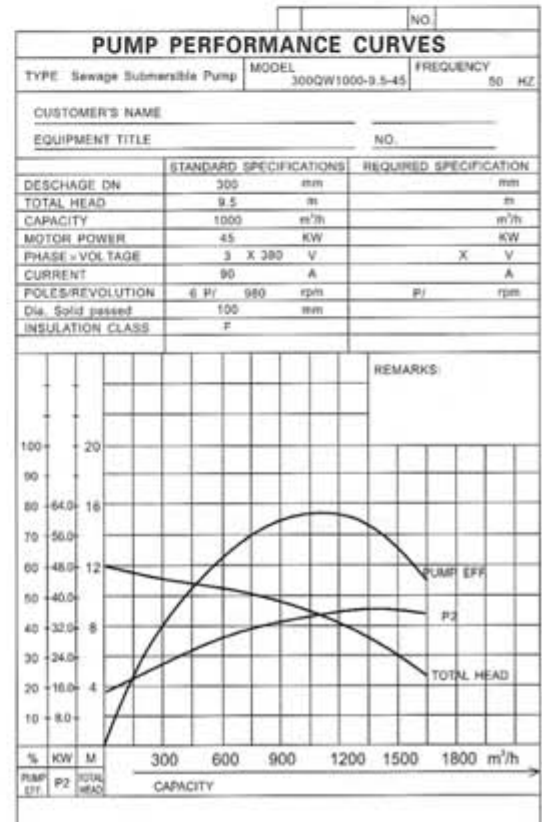
### 300QW800-80-315



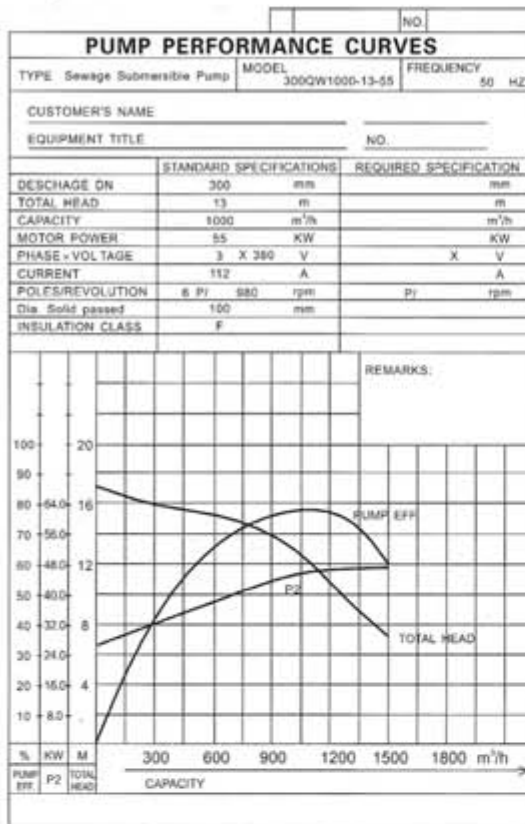
### 300QW900-80-355



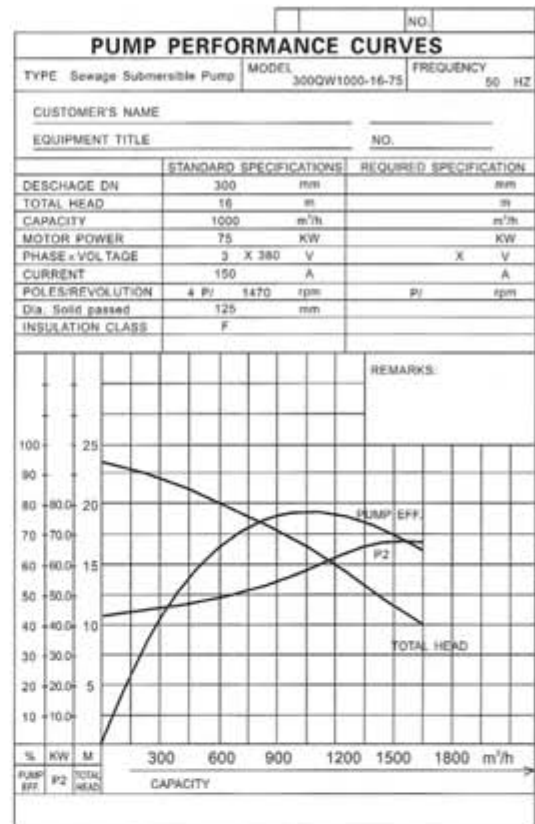
### 300QW1000-9.5-45



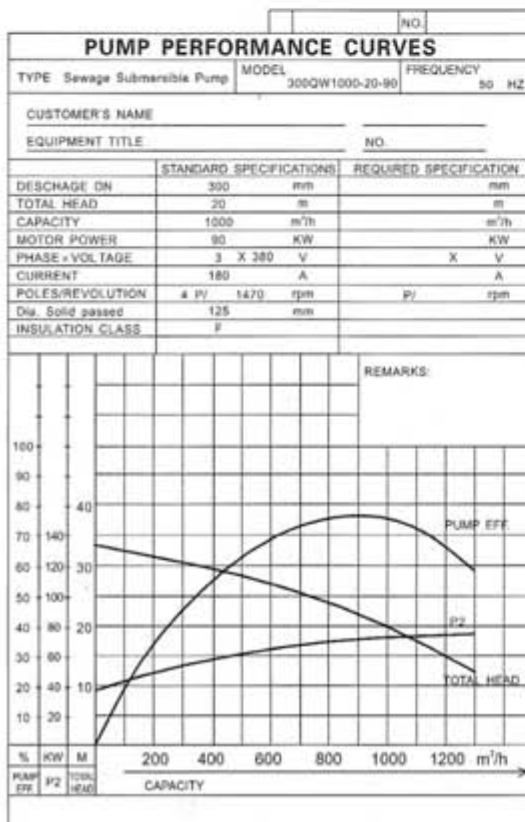
### 300QW1000-13-55



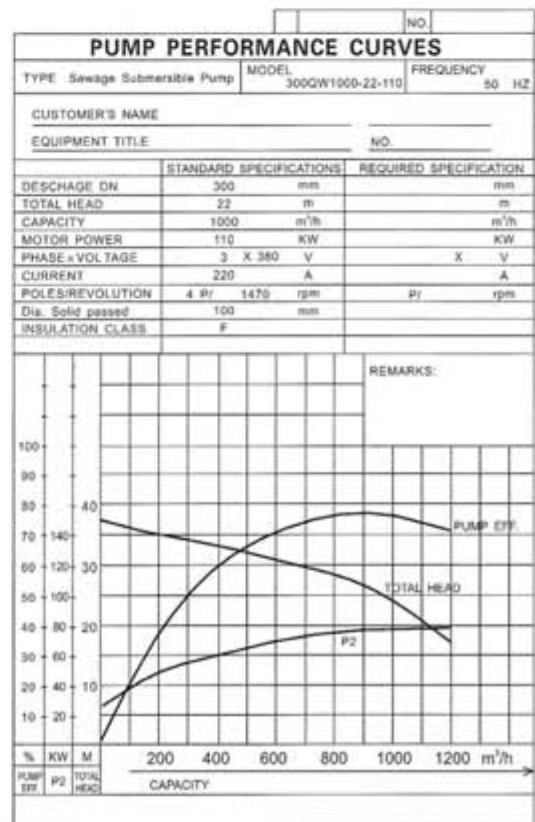
### 300QW1000-16-75



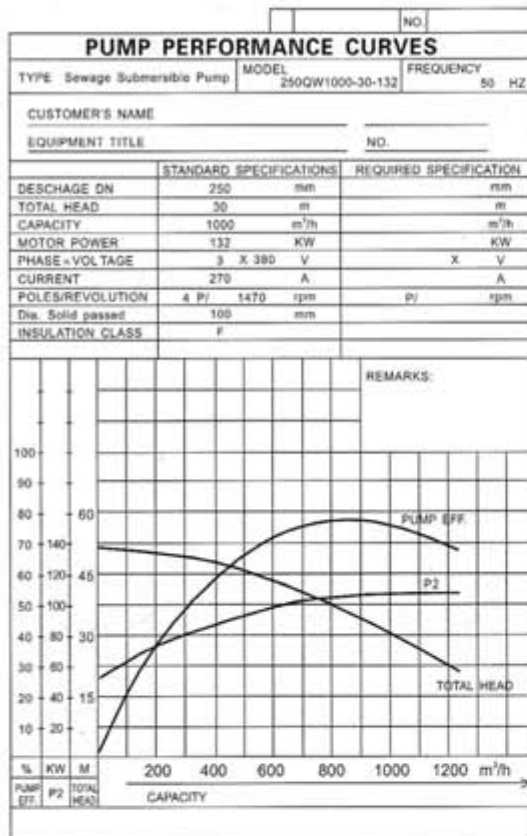
### 300QW1000-20-90



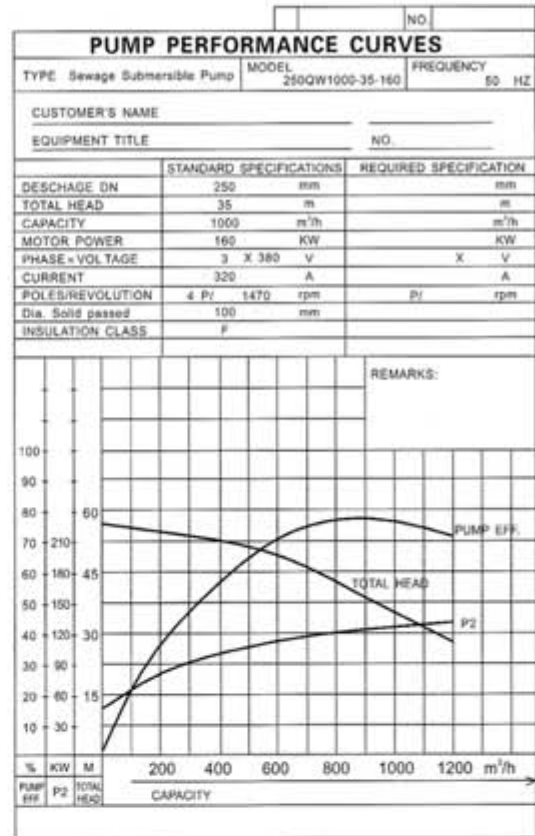
### 300QW1000-22-110



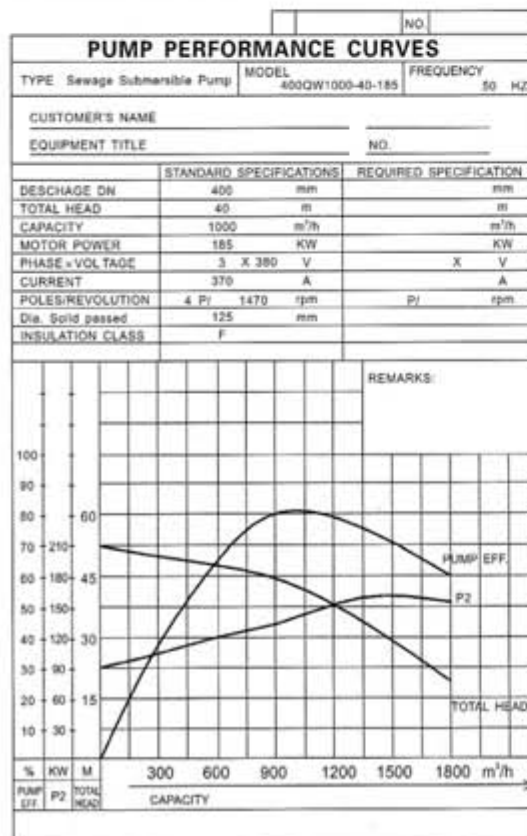
## 250QW1000-30-132



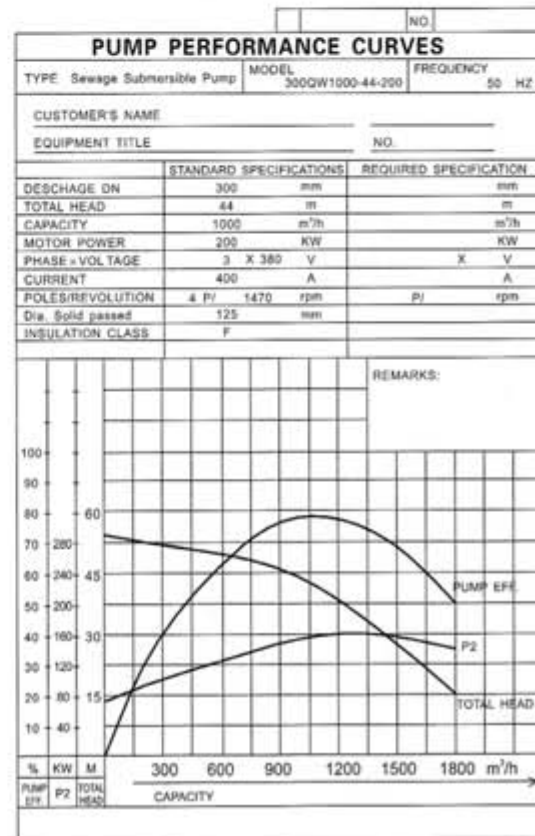
## 250QW1000-35-160



## 400QW1000-40-185

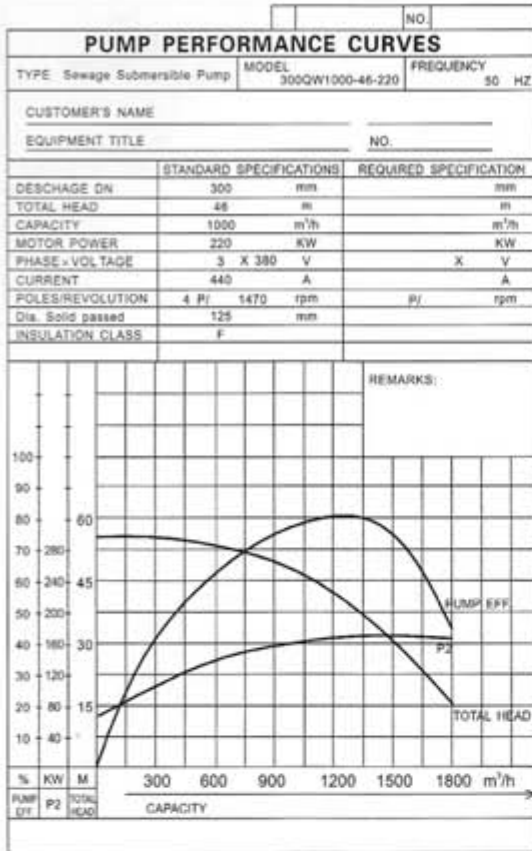


## 300QW1000-44-200

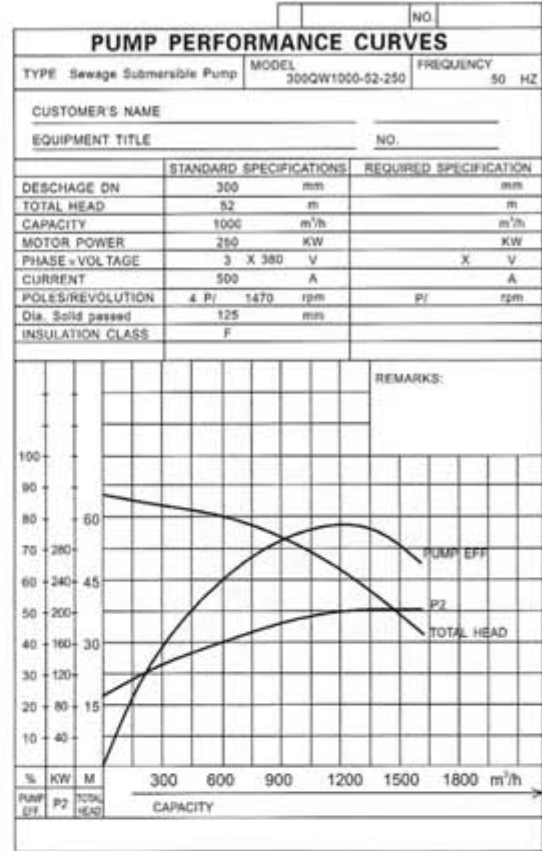




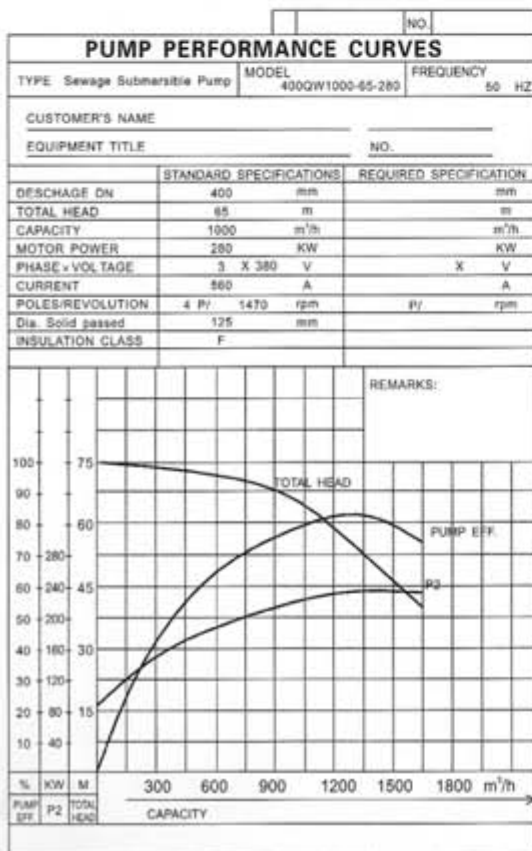
### 300QW1000-46-220



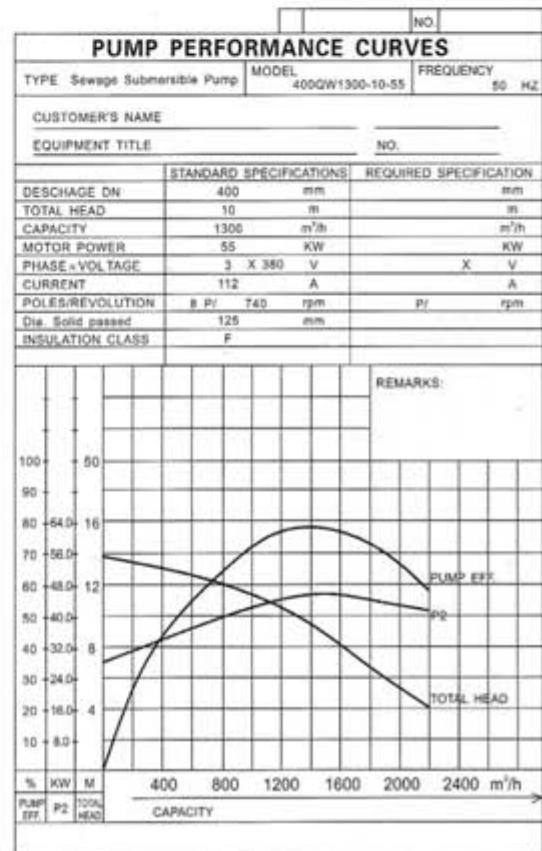
### 300QW1000-52-250



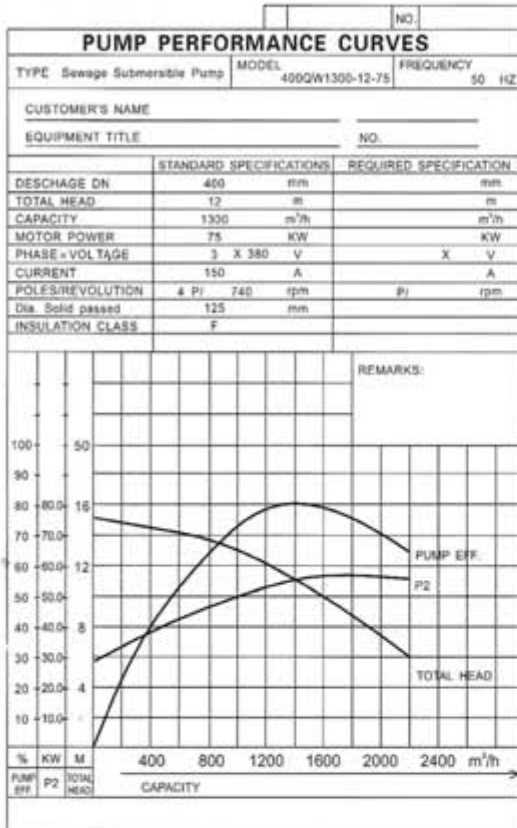
### 400QW1000-65-280



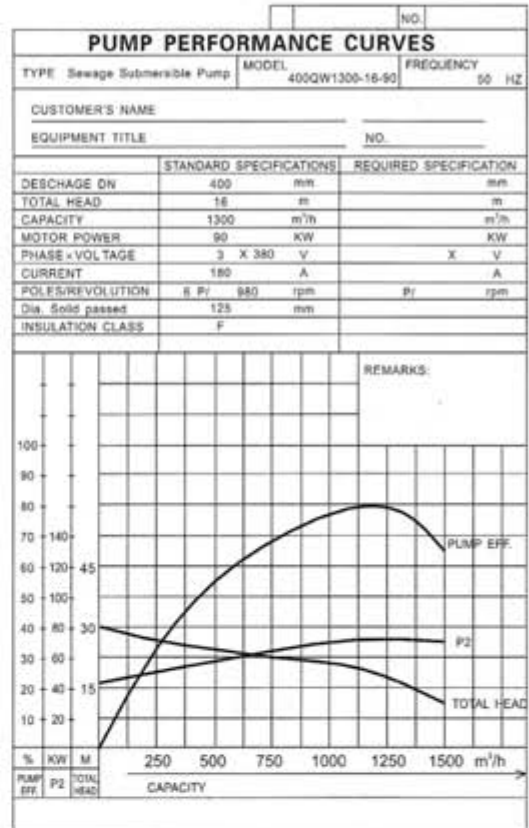
### 400QW1300-10-55



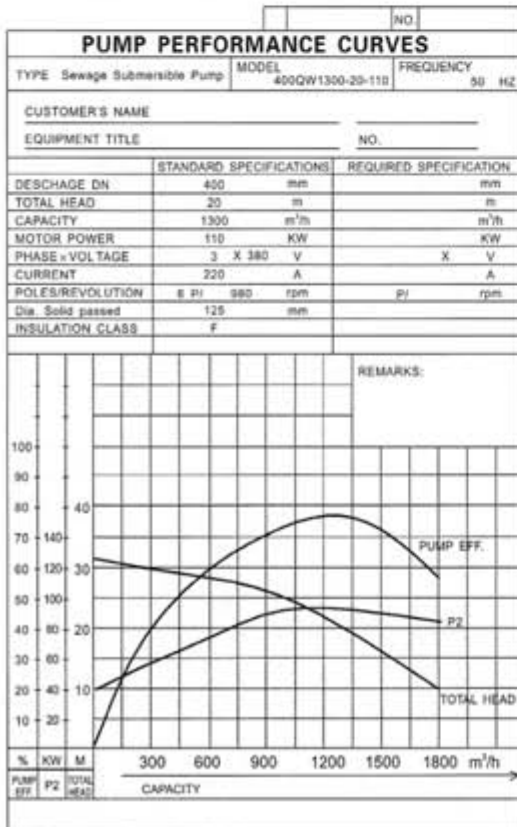
## 400QW1300-12-75



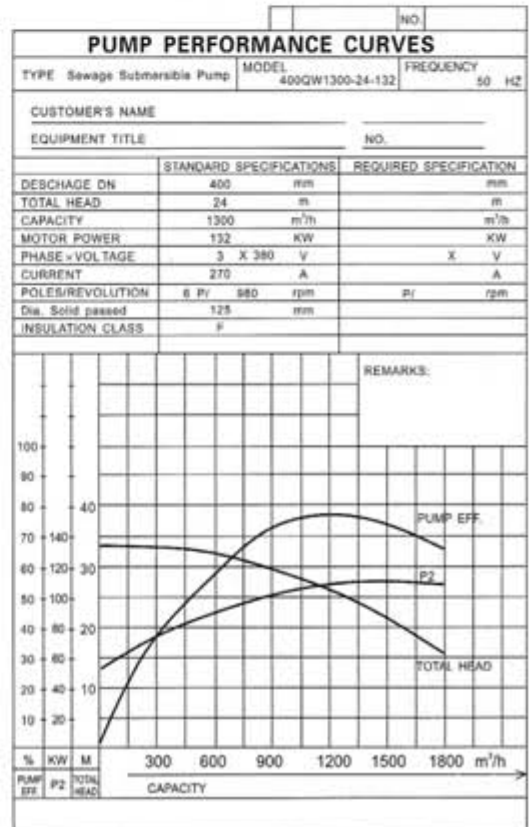
## 400QW1300-16-90



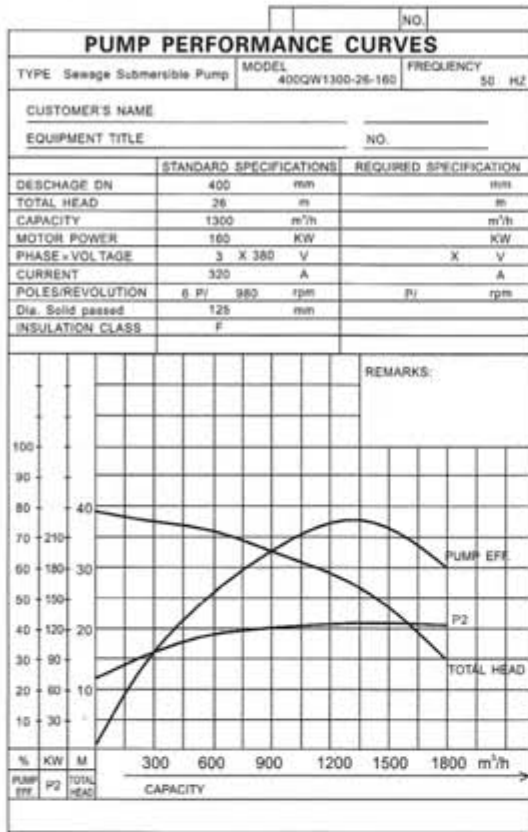
## 400QW1300-20-110



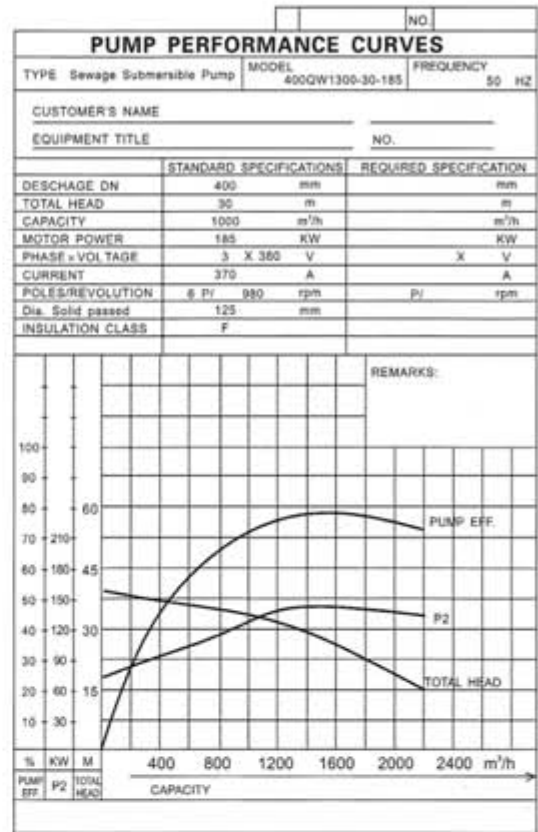
## 400QW1300-24-132



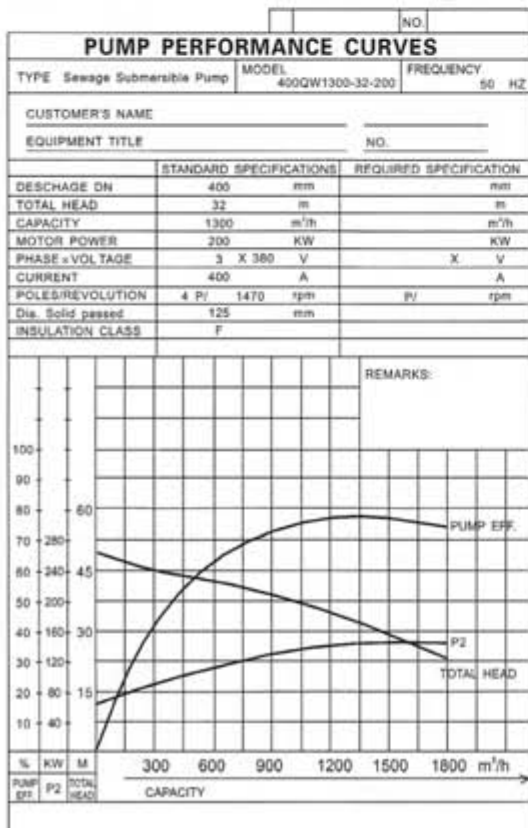
### 400QW1300-26-160



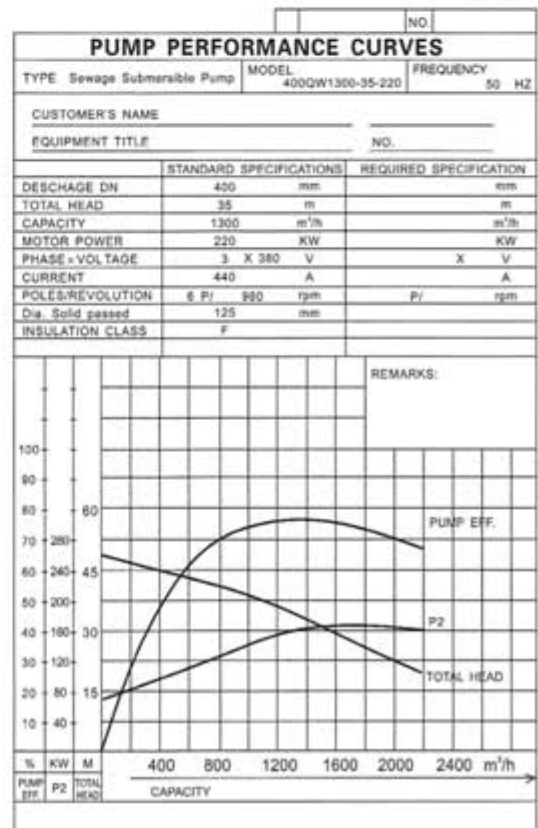
### 400QW1300-30-185



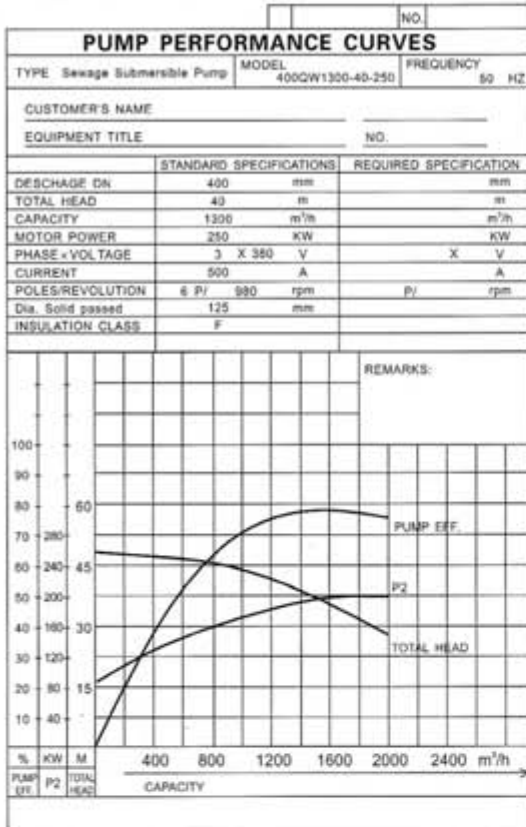
### 400QW1300-32-200



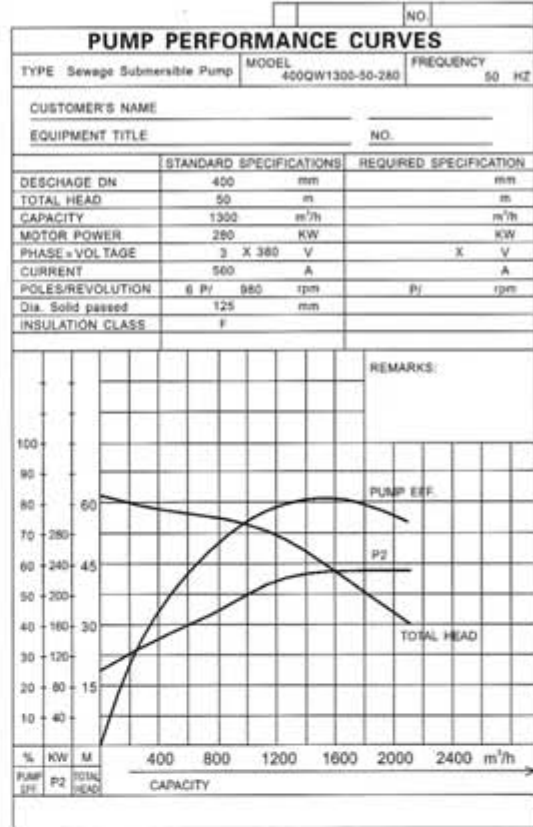
### 400QW1300-35-220



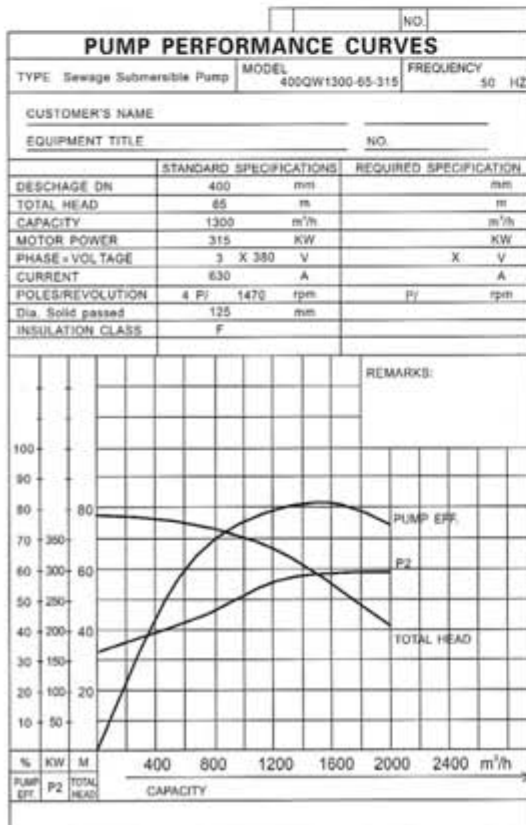
## 400QW1300-40-250



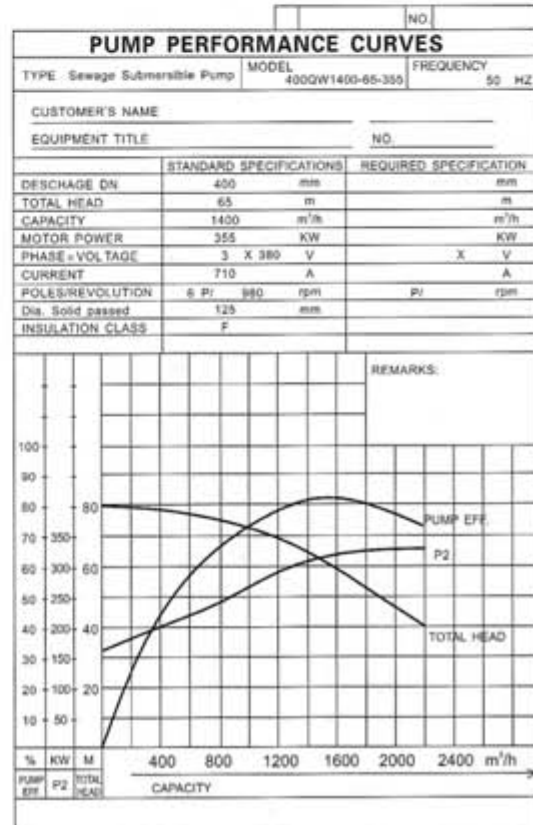
## 400QW1300-50-280



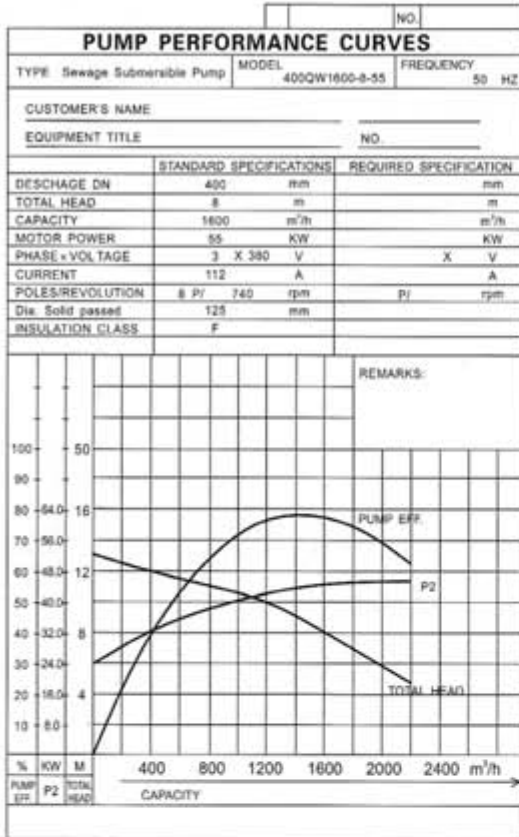
## 400QW1300-65-315



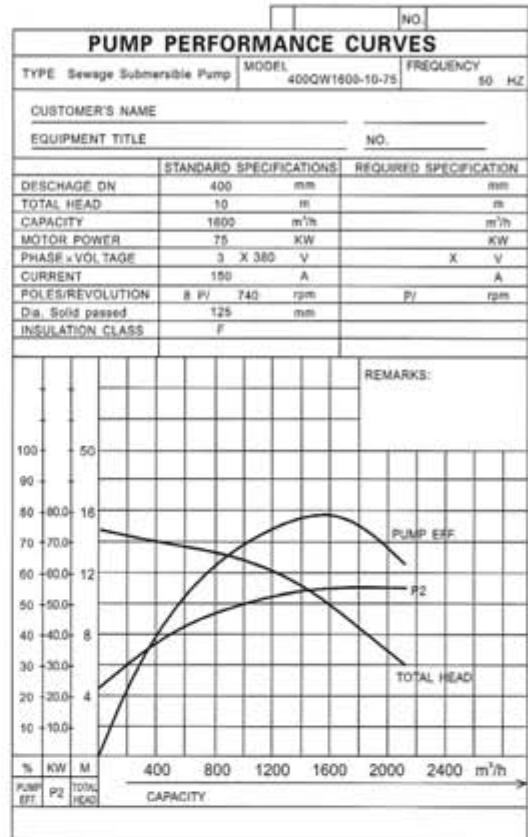
## 400QW1400-65-355



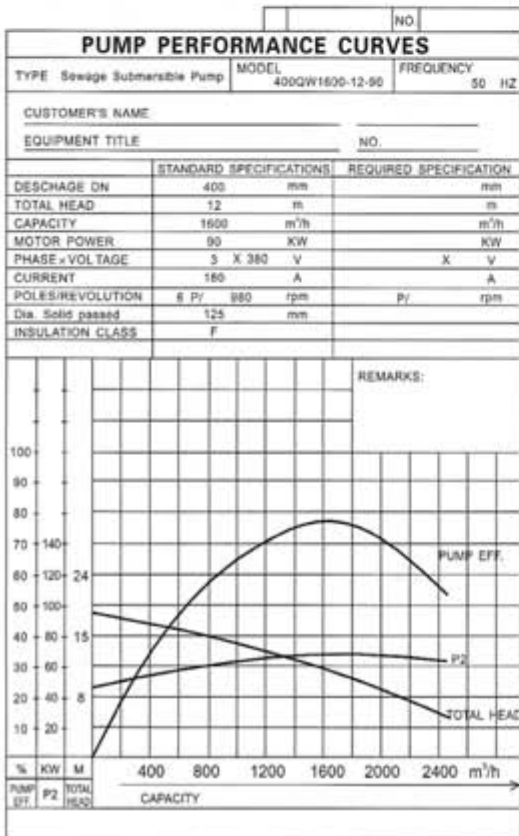
## 400QW1600-8-55



## 400QW1600-10-75



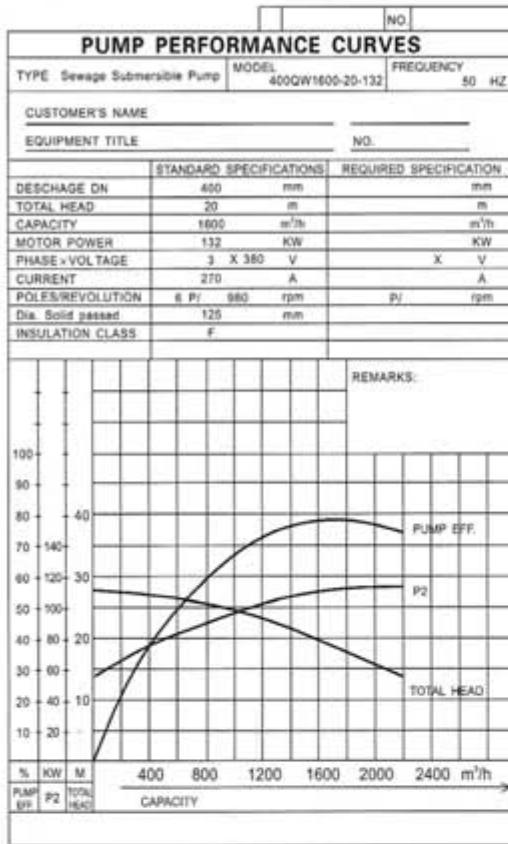
## 400QW1600-12-90



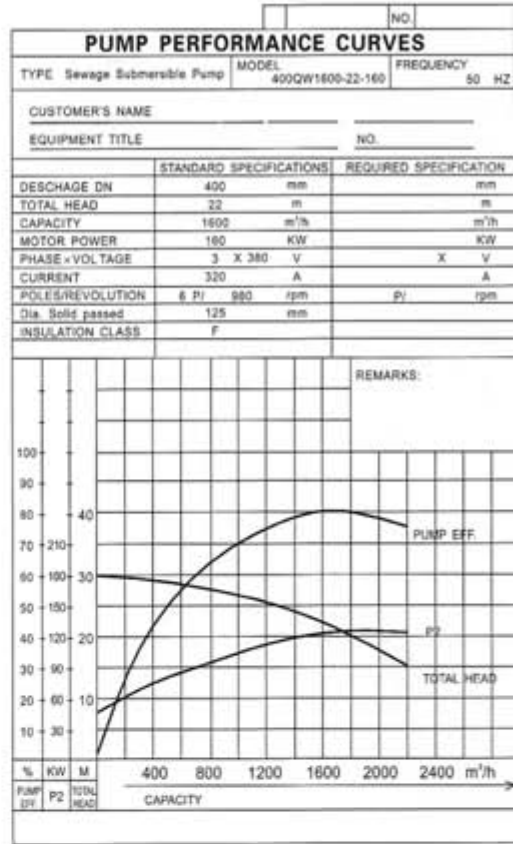
## 400QW1600-16-110



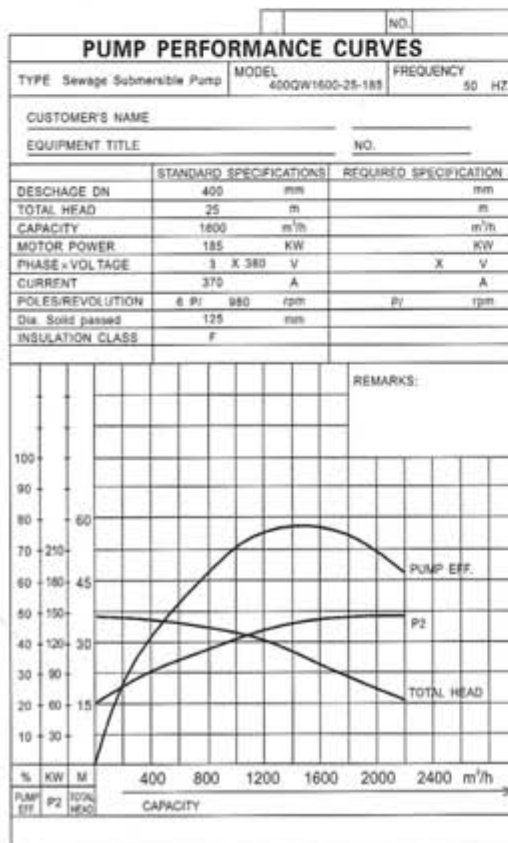
## 400QW1600-20-132



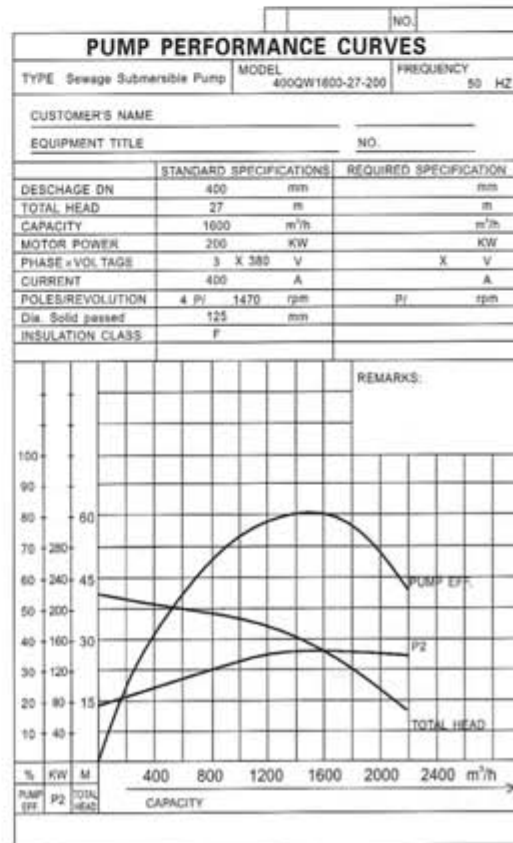
## 400QW1600-22-160



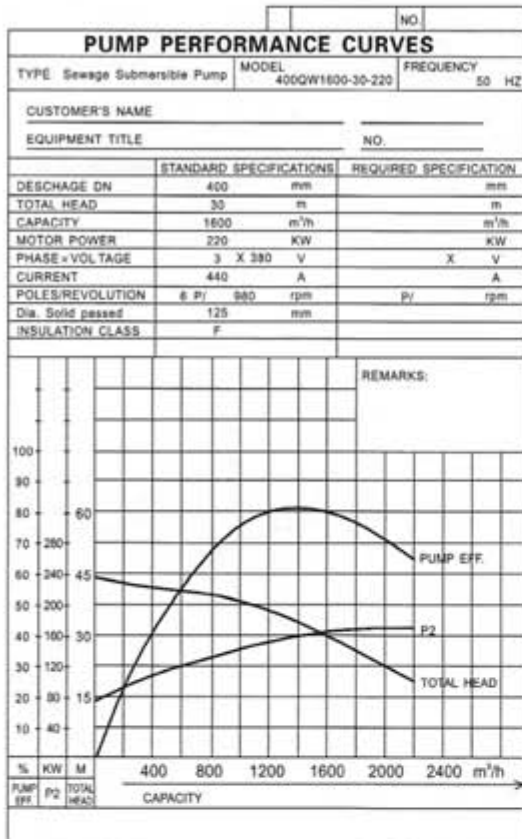
## 400QW1600-25-185



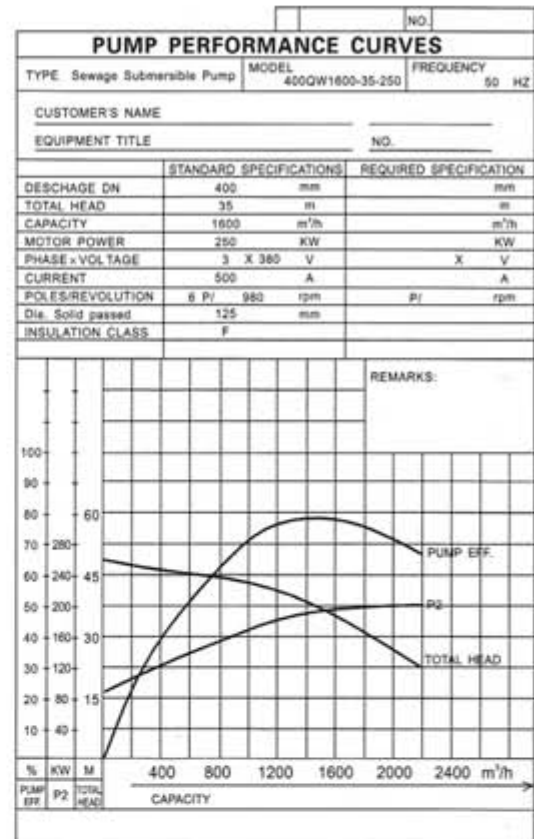
## 400QW1600-27-200



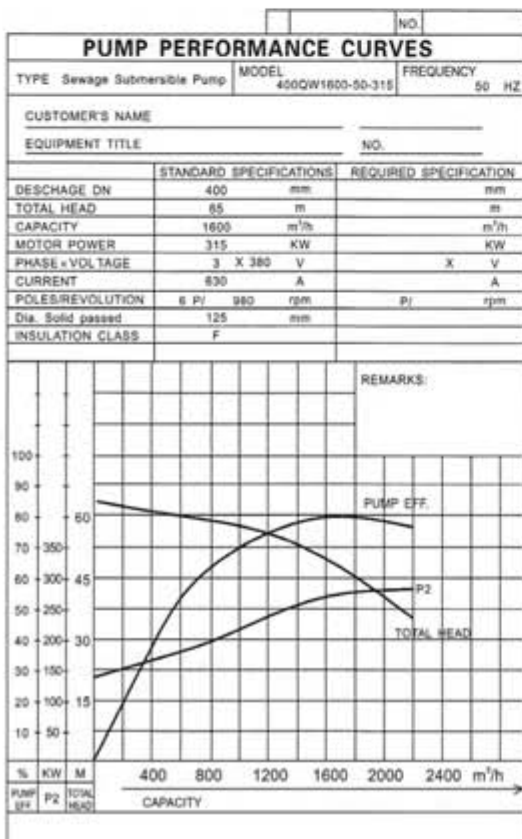
## 400QW1600-30-220



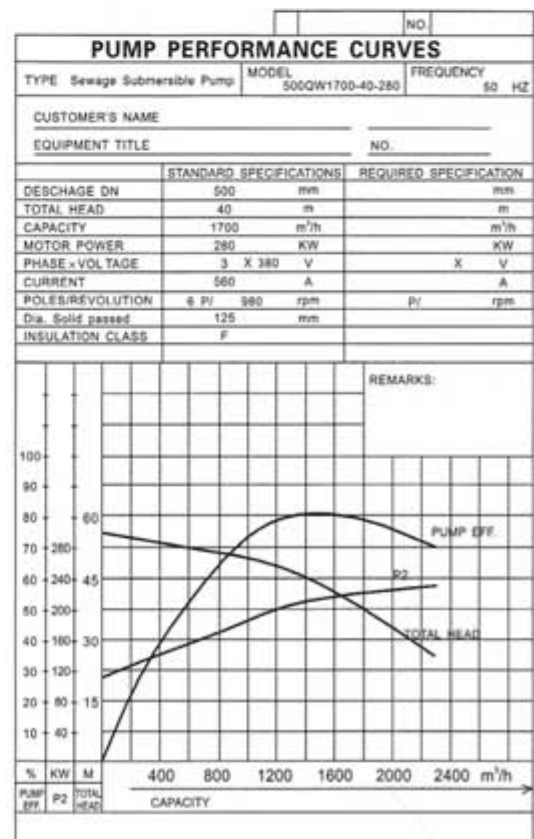
## 400QW1600-35-250



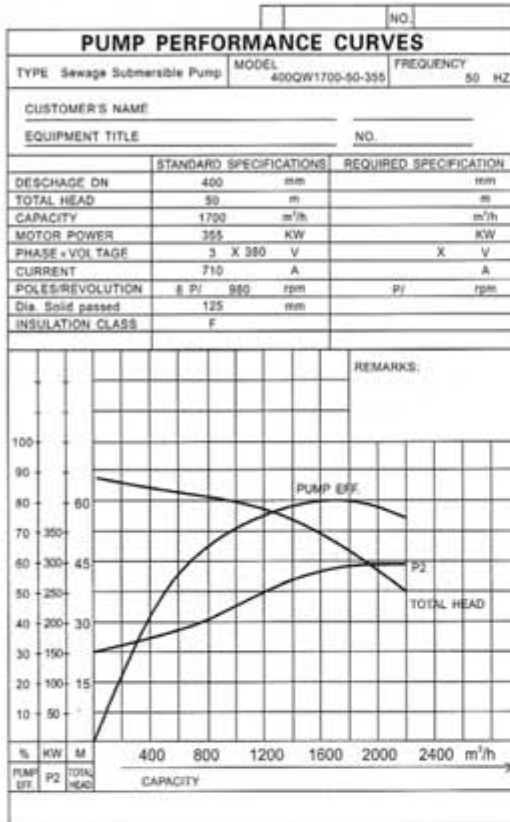
## 400QW1600-50-315



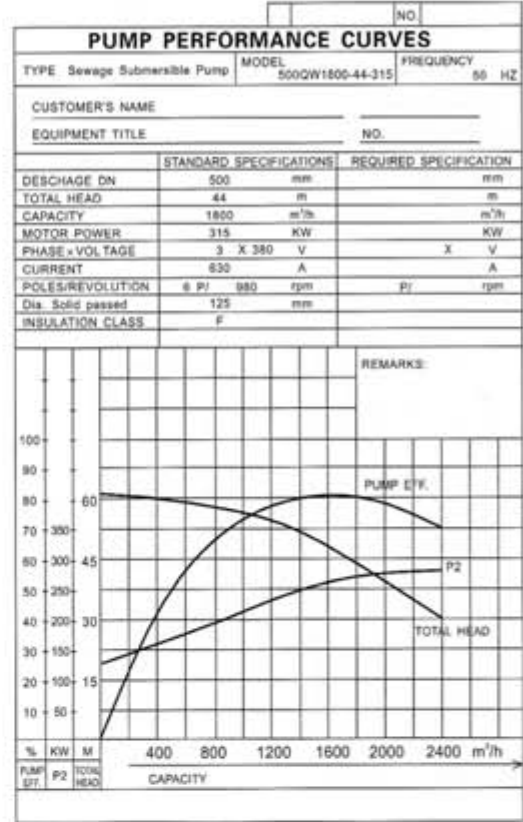
## 500QW1700-40-280



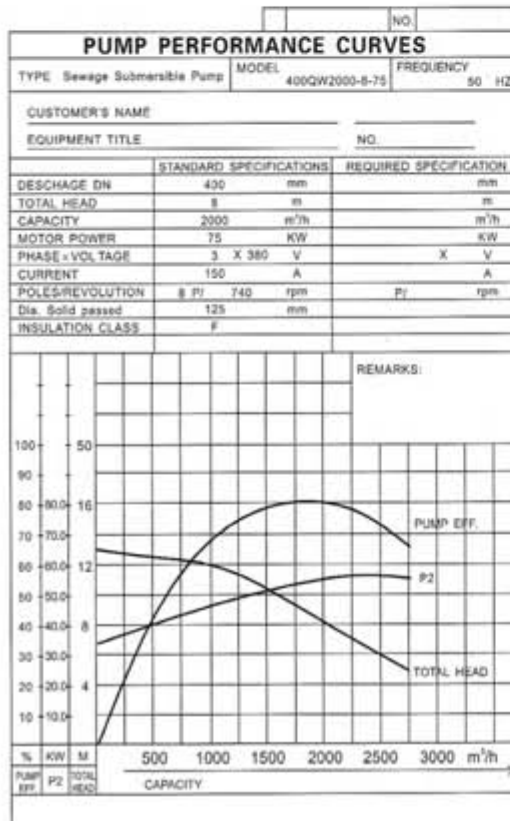
## 400QW1700-50-355



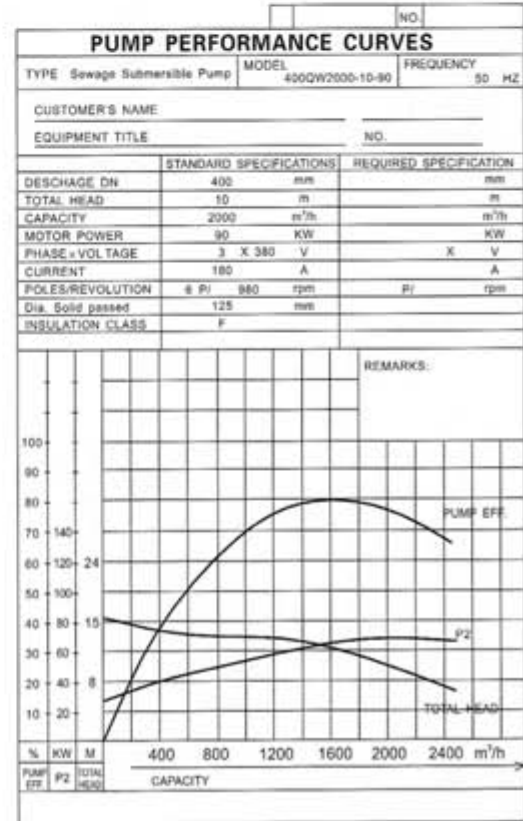
## 500QW1800-44-315



## 400QW2000-8-75

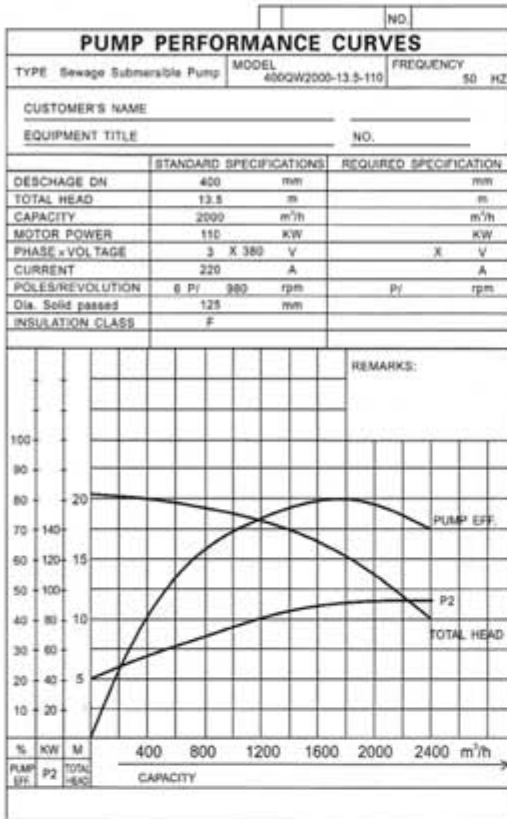


## 400QW2000-10-90

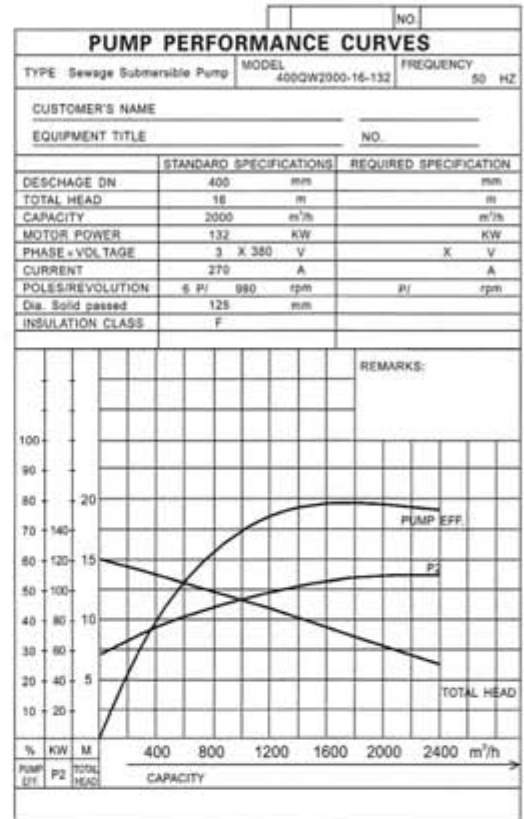




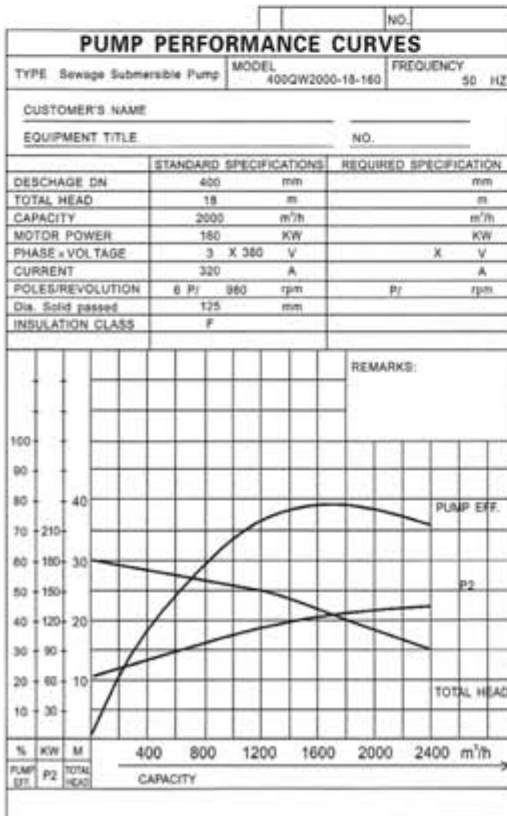
### 400QW2000-13.5-110



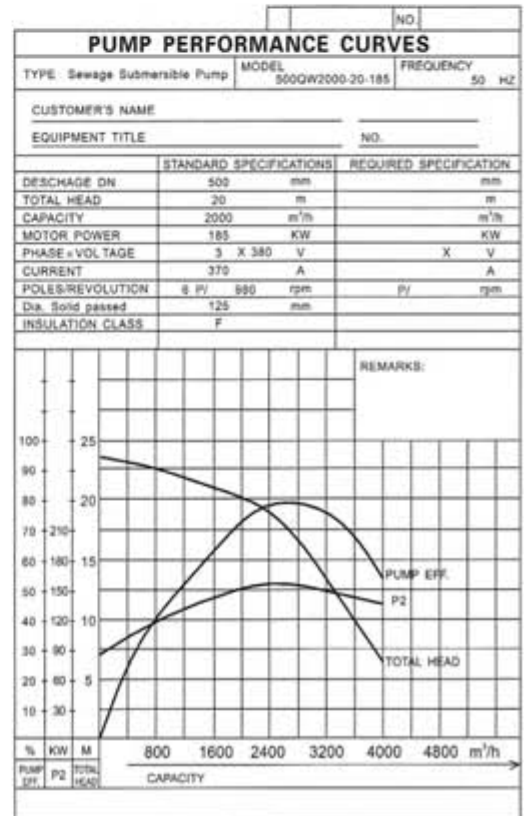
### 400QW1600-16-132



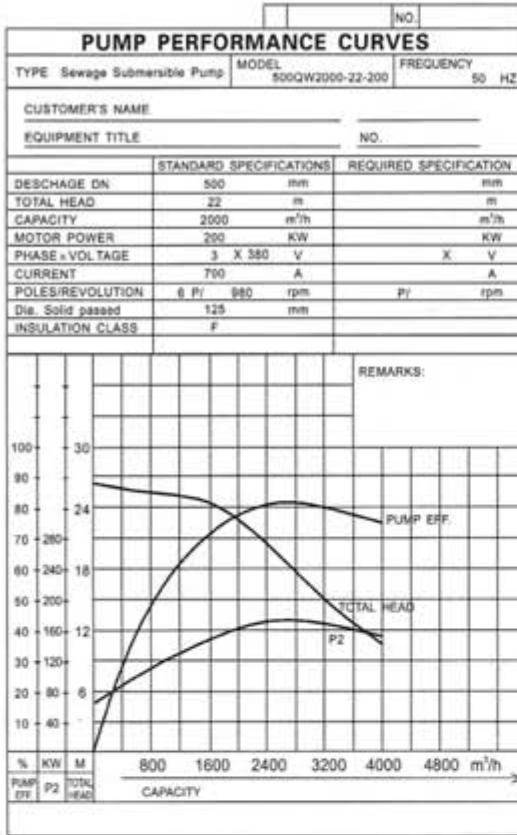
### 400QW2000-18-160



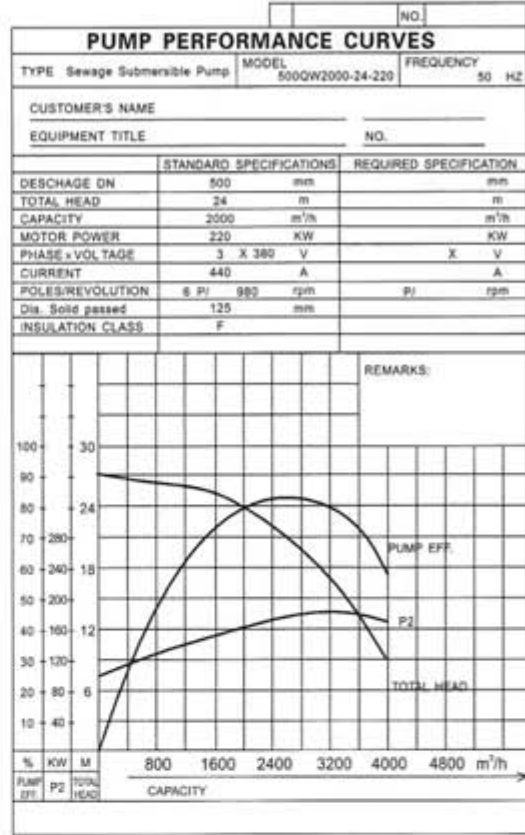
### 500QW2000-20-185



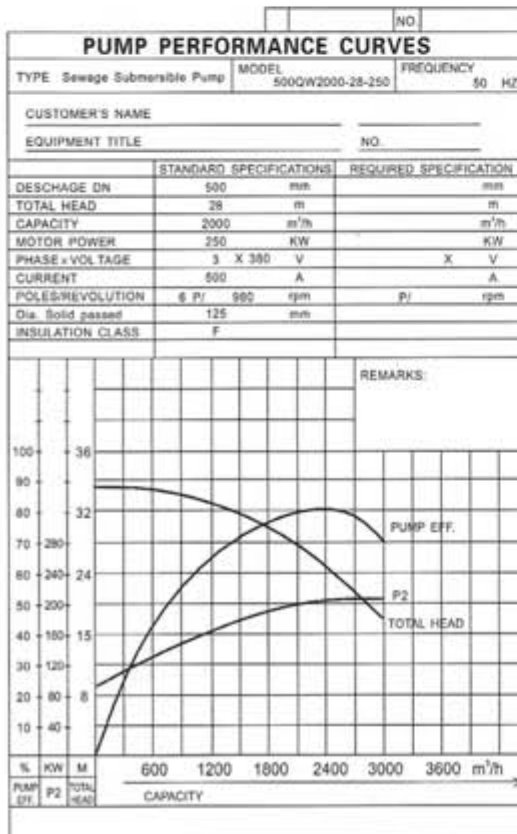
### 500QW2000-22-200



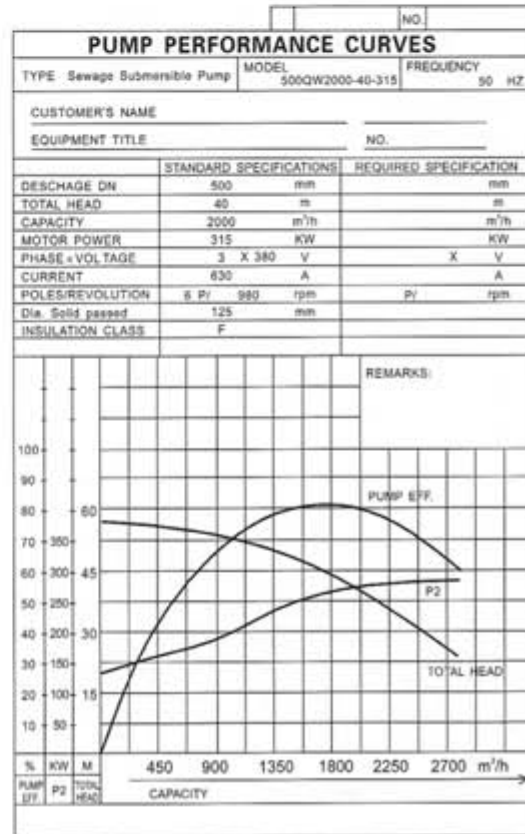
### 500QW2000-24-220



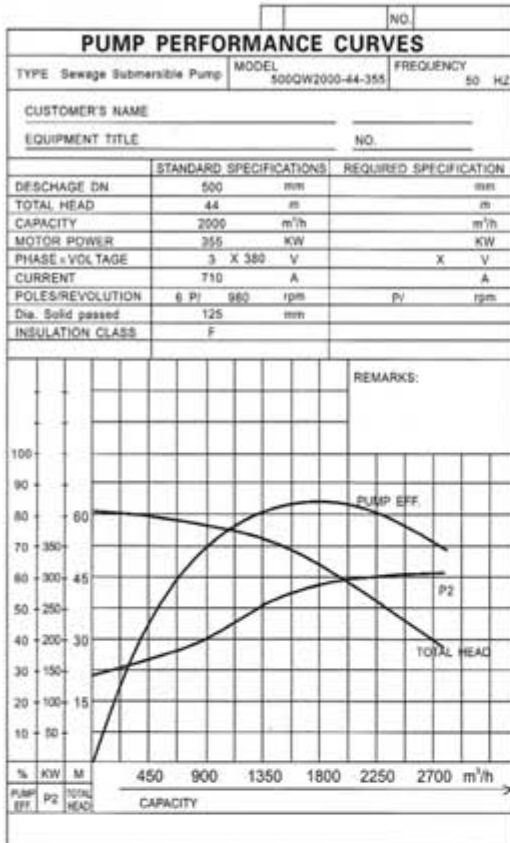
### 500QW2000-28-250



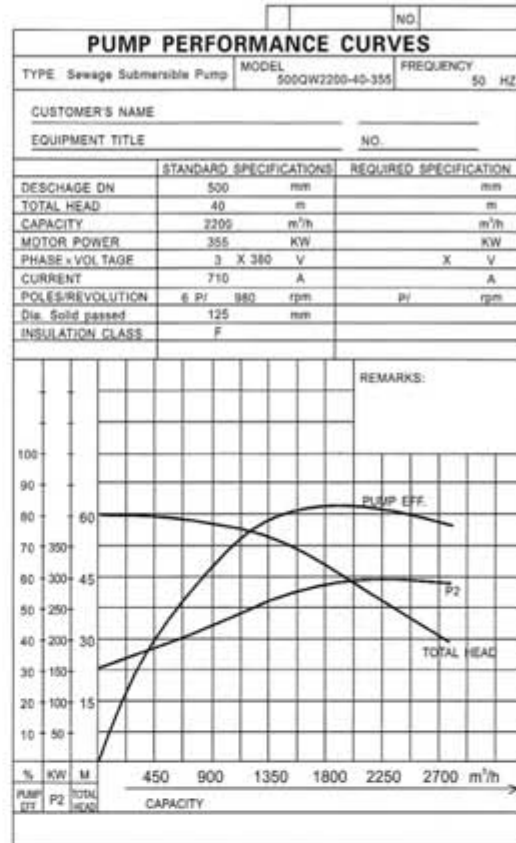
### 500QW2000-40-315



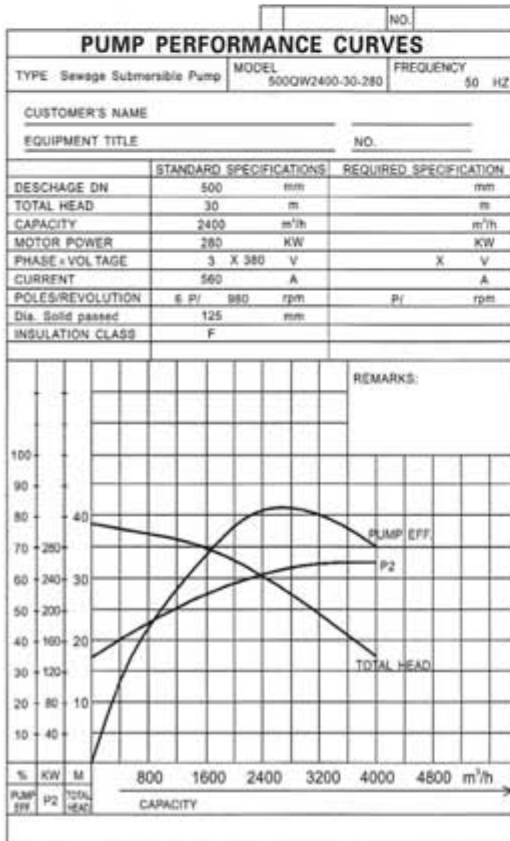
## 500QW2000-44-355



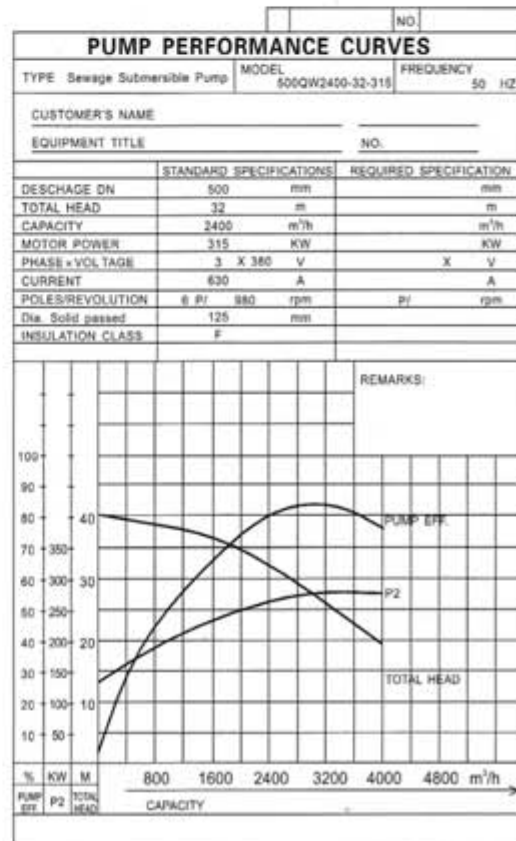
## 500QW2200-40-355



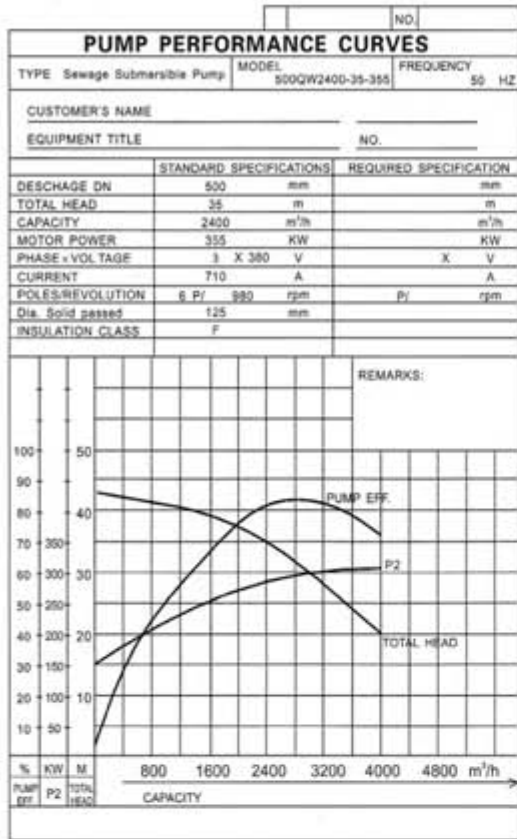
## 500QW2400-30-280



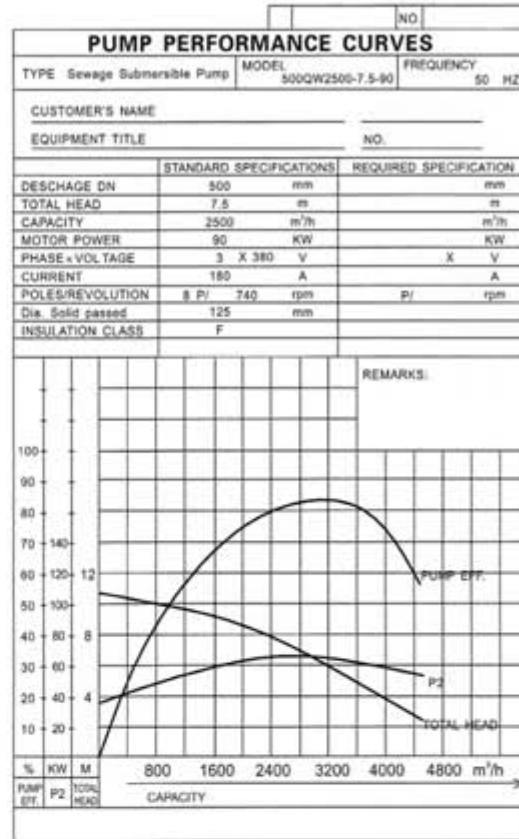
## 500QW2400-32-315



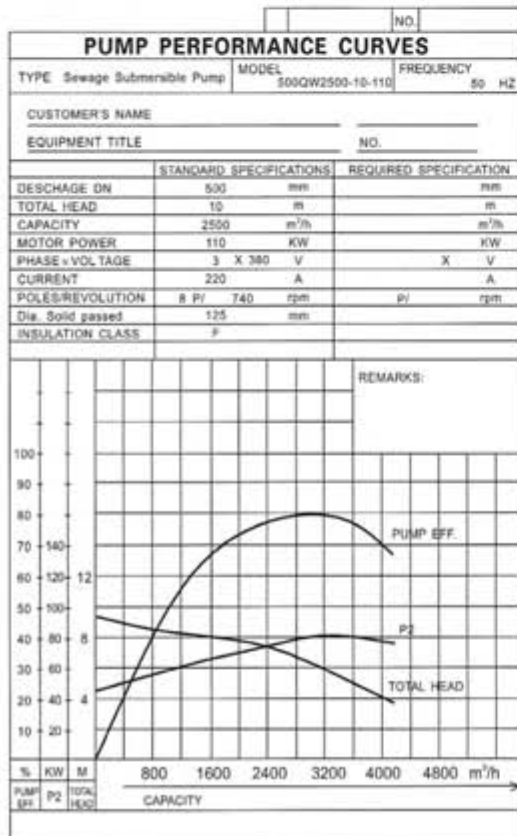
## 500QW2400-35-355



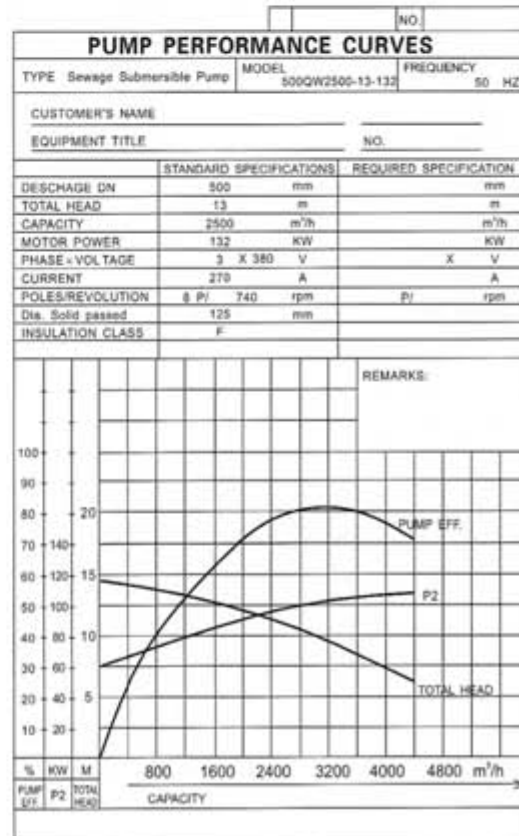
## 500QW2500-7.5-90



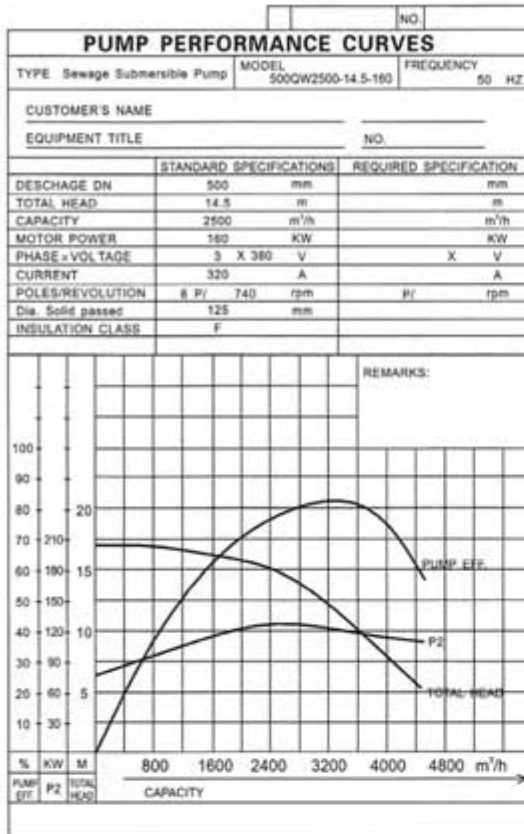
## 500QW2500-10-110



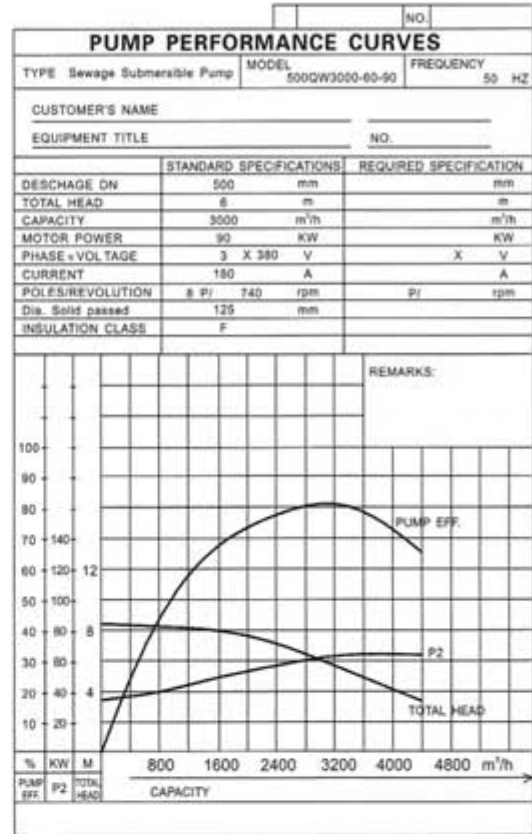
## 500QW2500-13-132



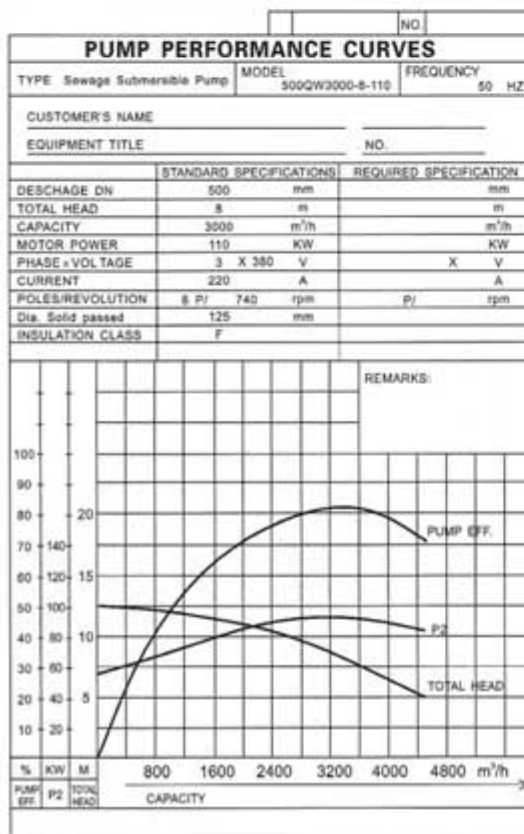
## 500QW2500-14.5-160



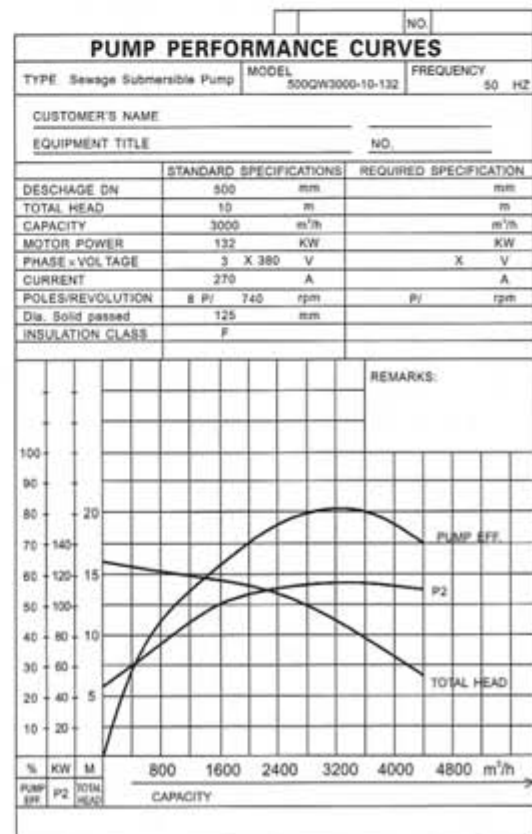
## 500QW3000-6-90



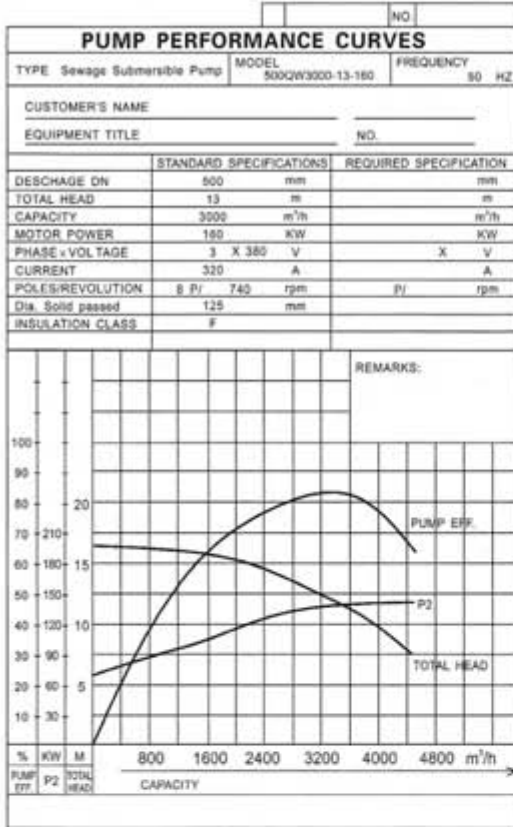
## 500QW3000-8-110



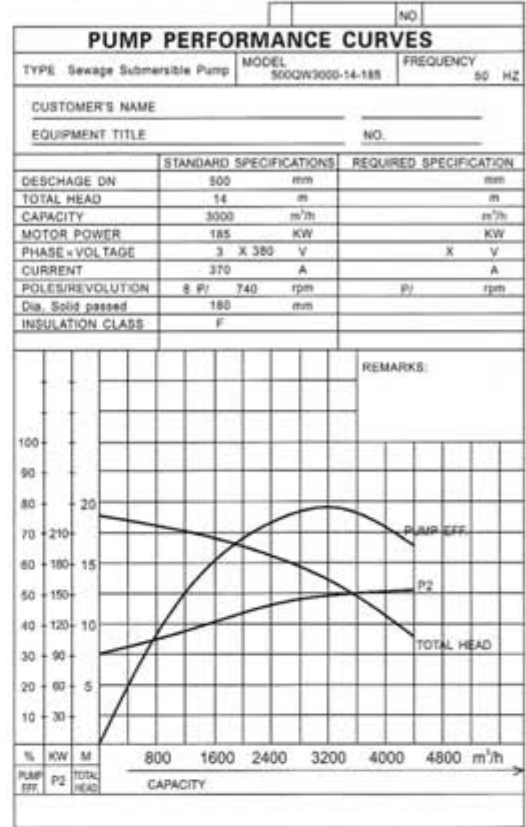
## 500QW3000-10-132



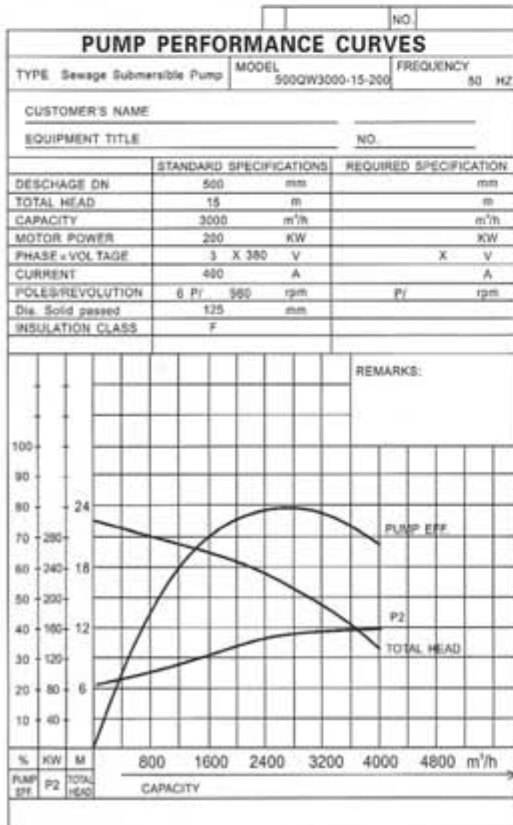
## 500QW3000-13-160



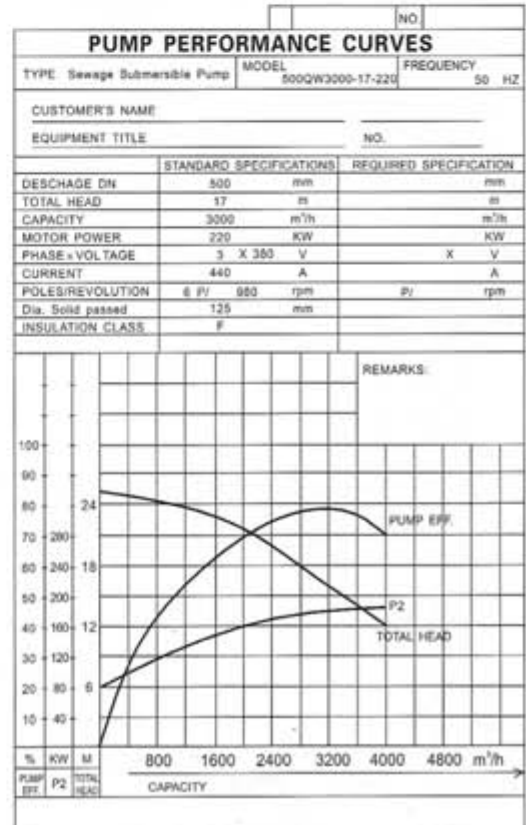
## 500QW3000-14-185



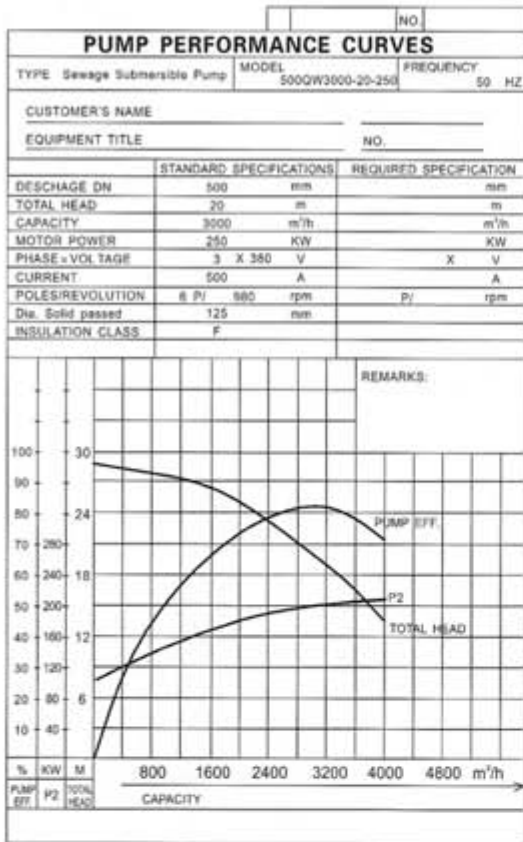
## 500QW3000-15-200



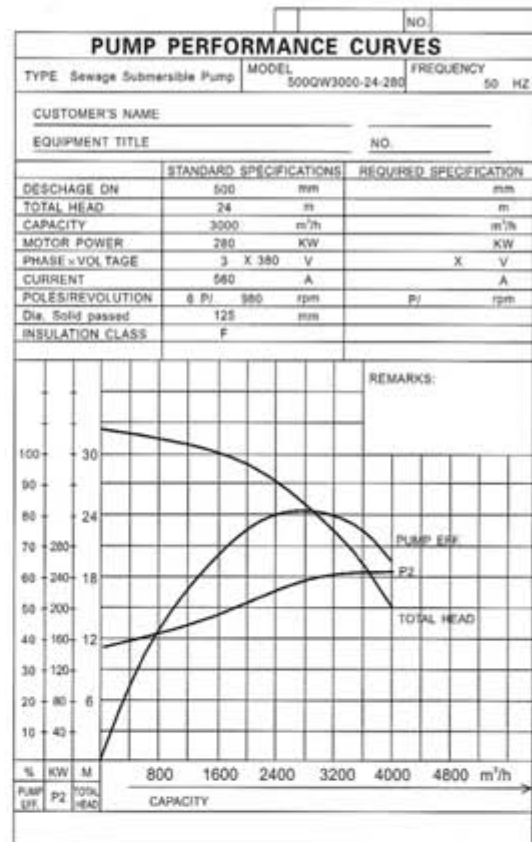
## 500QW3000-17-220



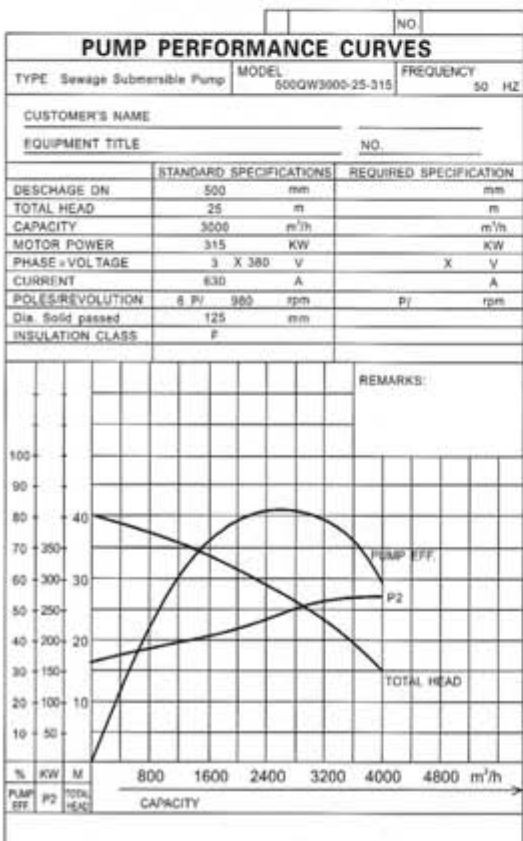
## 500QW3000-20-250



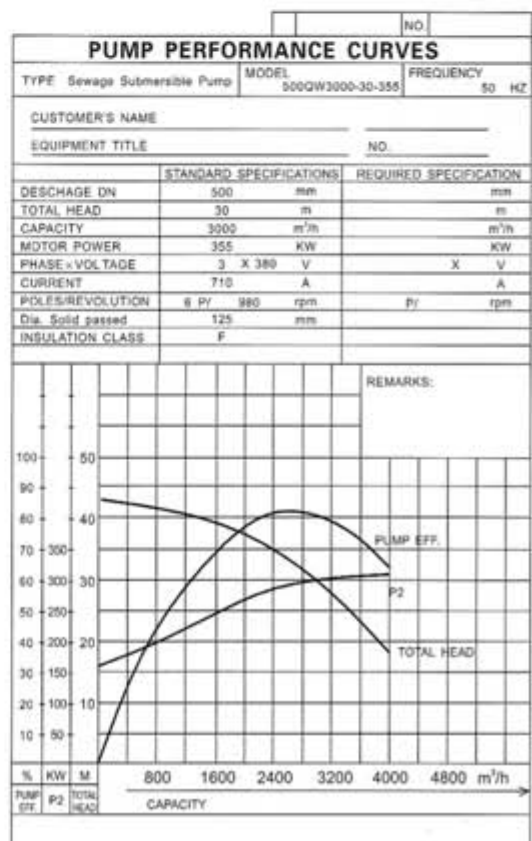
## 500QW3000-24-280



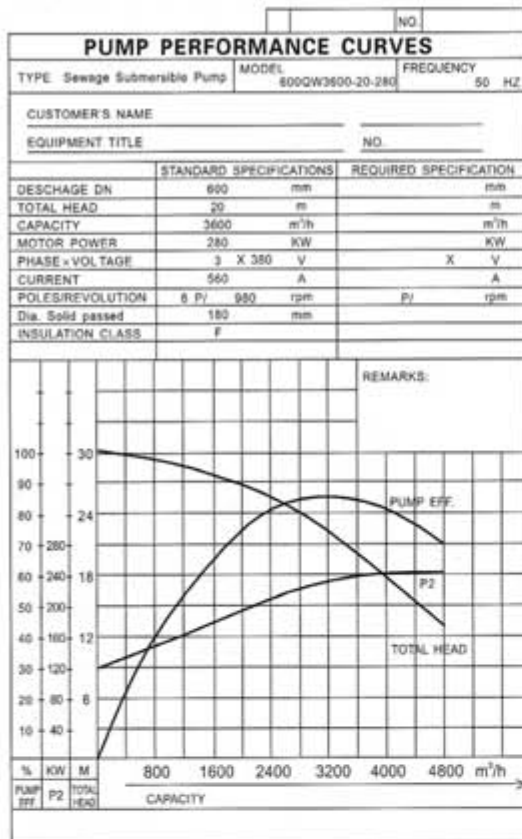
## 500QW3000-25-315



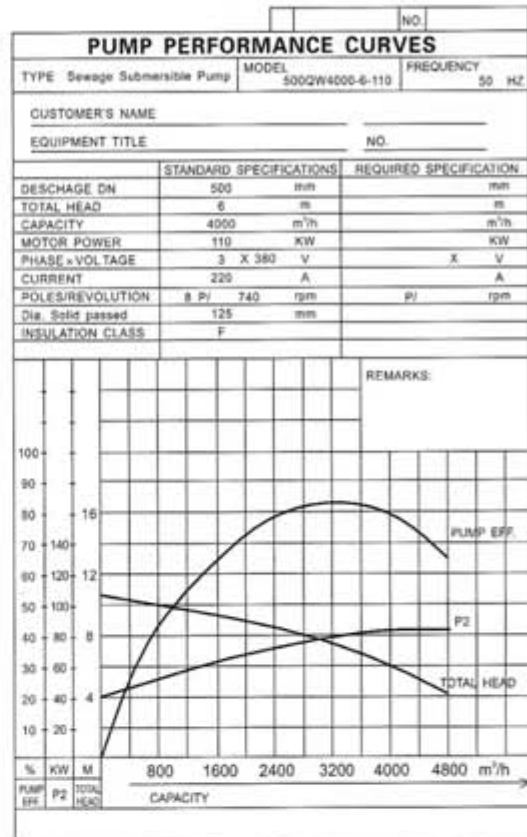
## 500QW3000-30-355



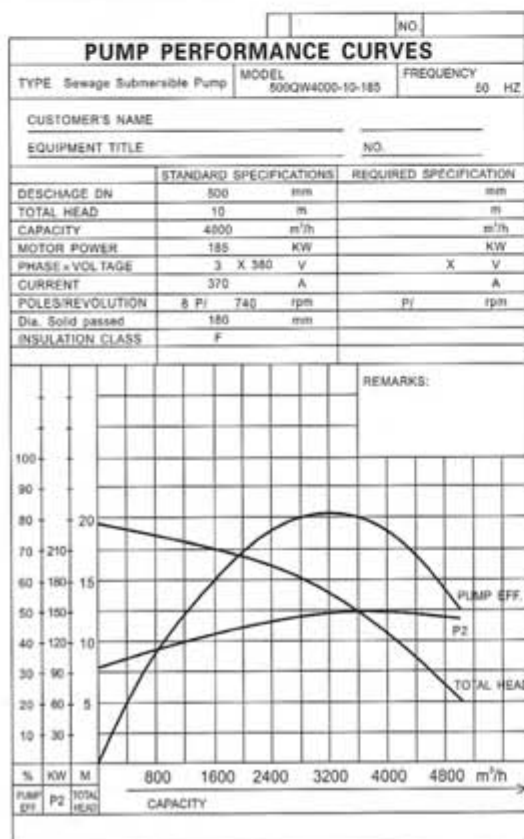
## 600QW3600-20-280



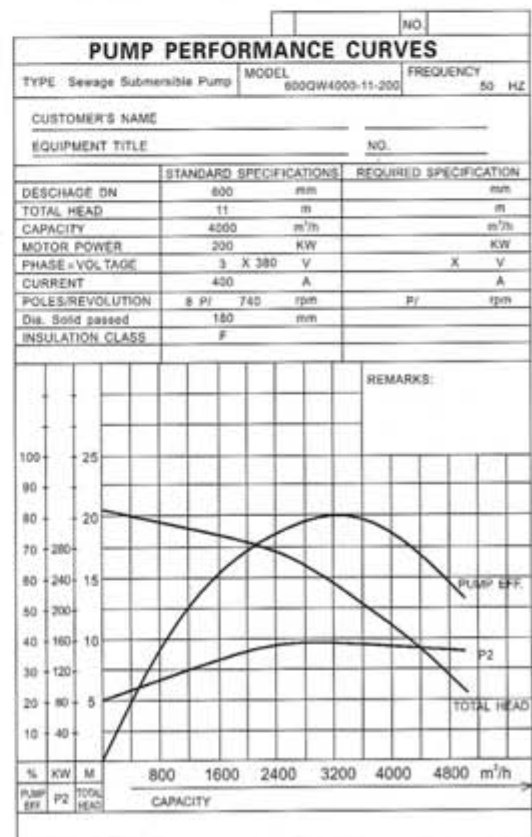
## 500QW4000-6-110



## 500QW4000-10-185

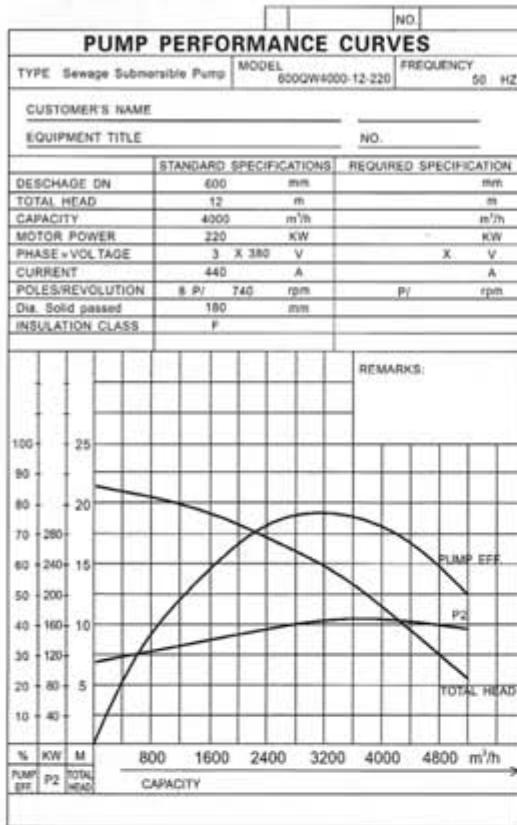


## 600QW4000-11-200

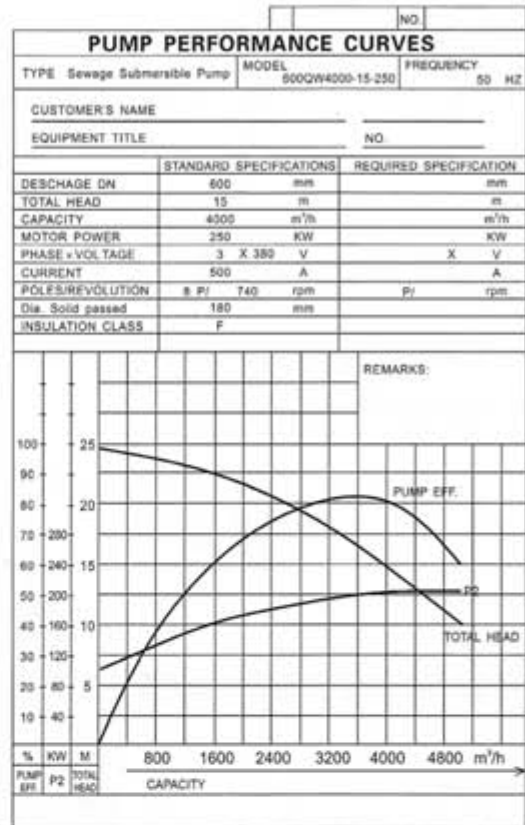




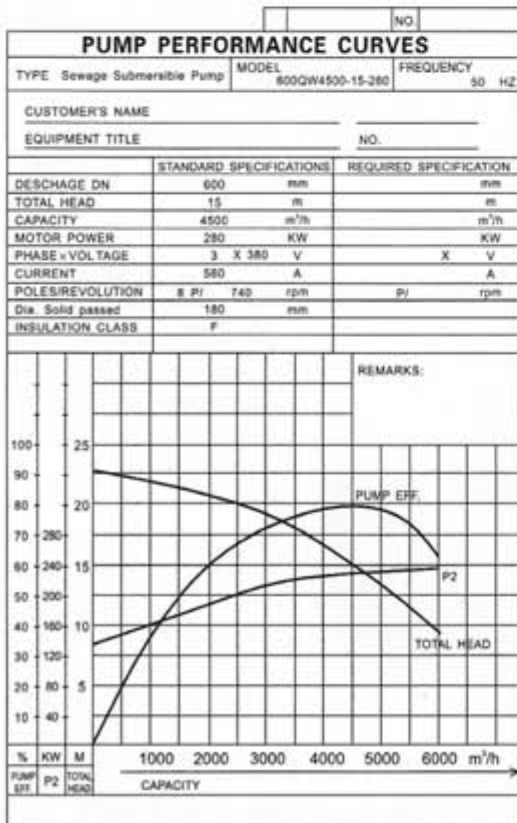
## 600QW4000-12-220



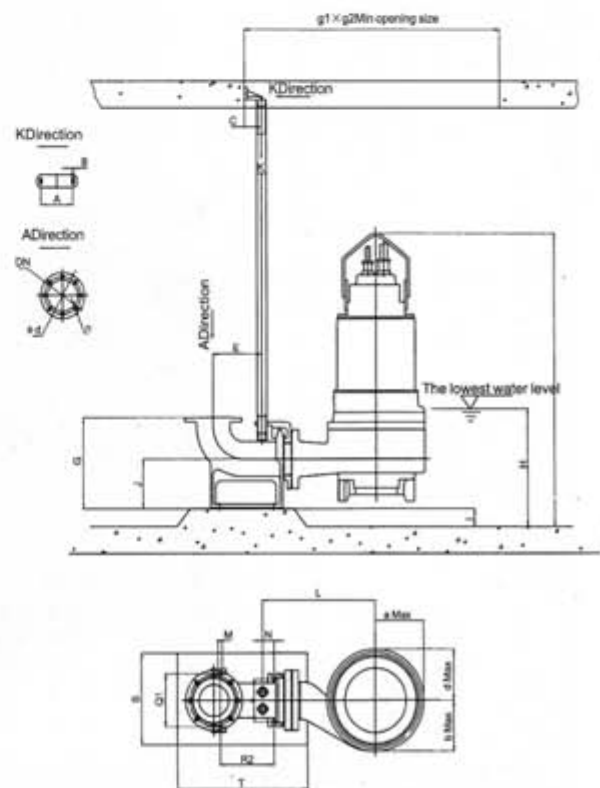
## 600QW4000-15-250



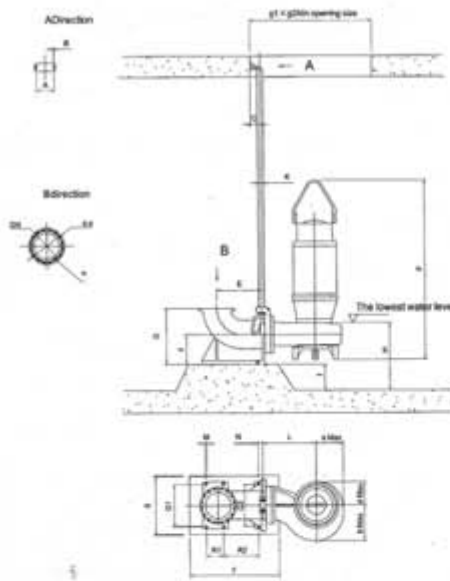
## 600QW4500-15-280



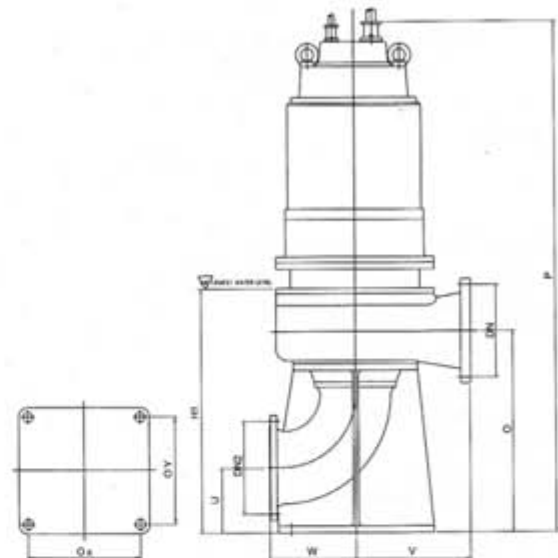
## 100GAK~250GAK fixed wet type mounting diagram



## Up 300GAK fixed wet type mounting diagram



## FIXED DRY TYPE MOUNTING



## QW SERIES SEWAGE SUBMERSIBLE PUMP

| OUTLET DIA                     | 100mm      |            | 150mm      |            | 200mm       |             | 250mm       |             |             |             | 300mm       |             | 400mm       |             | 500mm       |             | 600mm |
|--------------------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| BASE                           | M180       | M180       | M225       | M180       | M225        | M180        | M225        | M280        | M315        | M250        | M280        | M315        | M355        | M315        | M355        | M355        |       |
| Min opening size               | 1350 x 900 | 1350 x 900 | 1400 x 900 | 1300 x 950 | 1400 x 1000 | 1500 x 1150 | 1500 x 1150 | 1700 x 1300 | 1700 x 1300 | 1600 x 1250 | 1600 x 1250 | 1900 x 1400 | 2250 x 1700 | 2150 x 1700 | 2250 x 1700 | 3000 x 2500 |       |
| DN                             | 100        | 150        | 150        | 200        | 200         | 250         | 250         | 250         | 250         | 300         | 300         | 400         | 400         | 500         | 500         | 600         |       |
| A                              | 160        | 160        | 160        | 160        | 160         | 270         | 230         | 230         | 230         | 280         | 280         | 280         | 280         | 281         | 282         | 1755        |       |
| B                              | 2-12       | 2-12       | 2-12       | 2-12       | 2-12        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | 2-14        | —           |       |
| C                              | 80         | 80         | 80         | 80         | 80          | 155         | 125         | 125         | 125         | 155         | 155         | 155         | 155         | 155         | 155         | 200         |       |
| E                              | 215        | 245        | 245        | 275        | 275         | 400         | 385         | 385         | 385         | 552         | 552         | 700         | 700         | 739         | 739         | 755         |       |
| F (max)                        | 2100       | 2100       | 2550       | 2130       | 2500        | 2000        | 2550        | 3250        | 3800        | 3000        | 3150        | 3500        | 3920        | 3800        | 4500        | 4500        |       |
| L (max)                        | 580        | 580        | 580        | 570        | 715         | 680         | 680         | 760         | 760         | 654         | 654         | 864         | 1034        | 955         | 916         | 1269        |       |
| a (max)                        | 305        | 305        | 305        | 243        | 340         | 308         | 308         | 360         | 360         | 375         | 375         | 425         | 640         | 610         | 555         | 750         |       |
| b (max)                        | 305        | 305        | 305        | 247        | 355         | 355         | 355         | 430         | 430         | 420         | 420         | 555         | 705         | 690         | 630         | 900         |       |
| d (max)                        | 305        | 305        | 305        | 243        | 330         | 305         | 305         | 310         | 310         | 370         | 370         | 350         | 525         | 500         | 480         | 600         |       |
| G                              | 385        | 435        | 435        | 535        | 535         | 680         | 675         | 675         | 675         | 720         | 720         | 855         | 855         | 920         | 920         | 1620        |       |
| H                              | 680        | 680        | 690        | 865        | 1000        | 900         | 900         | 1300        | 1300        | 1000        | 1000        | 1200        | 1250        | 1300        | 1350        | 1500        |       |
| I                              | 230        | 230        | 240        | 180        | 240         | 230         | 230         | 400         | 400         | 250         | 250         | 400         | 450         | 450         | 500         | 500         |       |
| J                              | 205        | 235        | 235        | 305        | 305         | 357         | 352         | 352         | 352         | 388         | 388         | 455         | 455         | 455         | 455         | 640         |       |
| K                              | Φ48        | Φ48        | Φ48        | Φ48        | Φ48         | Φ76         | Φ60         | Φ60         | Φ60         | Φ89         | Φ89         | Φ89         | Φ89         | Φ89         | Φ89         | —           |       |
| M                              | 4-18       | 4-20       | 4-20       | 4-20       | 4-20        | 4-26        | 4-26        | 4-26        | 4-26        | 6-28        | 6-28        | 6-28        | 6-28        | 6-28        | 6-28        | —           |       |
| N                              | 47         | 57         | 57         | 42         | 42          | 22          | 22          | 22          | 22          | 58          | 58          | 67          | 67          | 94          | 94          | —           |       |
| Q1                             | 220        | 250        | 250        | 370        | 370         | 500         | 500         | 500         | 500         | 500         | 500         | 640         | 640         | 640         | 640         | —           |       |
| Q2                             | 190        | 200        | 200        | 330        | 330         | 500         | 500         | 500         | 500         | 500         | 500         | 640         | 640         | 640         | 640         | —           |       |
| R1                             | 0          | 0          | 0          | 0          | 0           | 470         | 470         | 470         | 470         | 180         | 180         | 285         | 265         | 265         | 265         | —           |       |
| R2                             | 237        | 270        | 270        | 330        | 330         | 0           | 0           | 0           | 0           | 420         | 420         | 550         | 550         | 550         | 550         | —           |       |
| S                              | 450        | 650        | 650        | 680        | 680         | 800         | 800         | 800         | 800         | 800         | 800         | 900         | 900         | 1000        | 1000        | 1700        |       |
| T                              | 550        | 850        | 850        | 900        | 900         | 1200        | 1200        | 1200        | 1200        | 1300        | 1300        | 1400        | 1400        | 1400        | 1400        | 1700        |       |
| n                              | 8-Φ18      | 8-Φ22      | 8-Φ22      | 8-Φ22      | 8-Φ22       | 12-Φ22      | 12-Φ22      | 12-Φ22      | 12-Φ22      | 12-Φ22      | 12-Φ22      | 16-Φ26      | 16-Φ26      | 20-Φ26      | 20-Φ26      | 20-Φ30      |       |
| Φd                             | Φ180       | Φ240       | Φ240       | Φ295       | Φ295        | Φ350        | Φ350        | Φ350        | Φ350        | Φ400        | Φ400        | Φ515        | Φ515        | Φ620        | Φ620        | Φ725        |       |
| <b>FIXED DRY TYPE MOUNTING</b> |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |       |
| O*                             | 643        | 643        | 643        | 679        | 200         | 762         | 762         | 853         | 853         | 879         | 879         | 1050        | 1100        | 1160        | 1160        | 1850        |       |
| HI*                            | 810        | 810        | 810        | 840        | 1000        | 1000        | 1000        | 1100        | 1100        | 1200        | 1200        | 1225        | 1350        | 1420        | 1420        | 2120        |       |
| P (max)*                       | 2200       | 2200       | 2200       | 2000       | 2200        | 1950        | 1950        | 3220        | 3220        | 2668        | 2668        | 3410        | 3680        | 3590        | 3590        | 4430        |       |
| U*                             | 200        | 200        | 200        | 230        | 230         | 245         | 245         | 295         | 295         | 295         | 295         | 350         | 450         | 450         | 450         | 450         |       |
| V (max)*                       | 418        | 418        | 418        | 402        | 550         | 445         | 445         | 523         | 523         | 525         | 525         | 700         | 870         | 800         | 750         | 900         |       |
| W*                             | 271        | 271        | 271        | 303        | 303         | 333         | 333         | 380         | 380         | 458         | 458         | 600         | 650         | 650         | 650         | 994         |       |
| □X*                            | 490        | 490        | 490        | 400        | 400         | 500         | 500         | 680         | 680         | 680         | 680         | 900         | 1200        | 1200        | 1200        | 1050        |       |
| r*                             | 0          | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 300         | 400         | 400         | 400         | 400         |       |
| □Y*                            | 490        | 490        | 490        | 500        | 500         | 600         | 600         | 800         | 800         | 800         | 800         | 1000        | 1400        | 1400        | 1400        | 1165        |       |
| e*                             | 4-Φ26      | 4-Φ26      | 4-Φ26      | 4-Φ26      | 4-Φ26       | 4-Φ28       | 4-Φ28       | 4-Φ32       | 4-Φ32       | 4-Φ32       | 4-Φ32       | 8-Φ32       | 8-Φ34       | 8-Φ34       | 8-Φ34       | 8-Φ38       |       |
| Dn2*                           | 100        | 150        | 150        | 200        | 200         | 250         | 250         | 250         | 250         | 300         | 300         | 350         | 500         | 500         | 500         | 600         |       |



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