



|                 |              |                |
|-----------------|--------------|----------------|
| Document Number | Issue Date   | Rev. Date      |
| <b>F-2115</b>   | <b>06/86</b> | <b>5/17/21</b> |

**CX Series Centrifugal Fire Pump Performance Sheet**  
(Speed and Power Data)

| Impeller Diameter - 10.00 in. |           |       |     |                   |      |   |       |     |                    |                   |
|-------------------------------|-----------|-------|-----|-------------------|------|---|-------|-----|--------------------|-------------------|
| Pump Model                    | Pump Test |       |     |                   |      | Impeller Part No.                       |       |     | Performance Curves |                   |
|                               | Capacity  |       |     | Net Pump Pressure |      | 71888 or 71896<br>6.20 in. Diameter Eye |       |     |                    |                   |
|                               | GPM       | L/min | L/S | PSI               | bar  | Speed (RPM)                             | Power |     | Curve              | Impeller Part No. |
|                               |           |       |     |                   |      | HP                                      | kw    |     |                    |                   |
| CXN,<br>CXR,<br>CXS,<br>CXV   | 750       | 2839  | -   | 150               | 10   | 3400                                    | 97    | 72  | -                  | -                 |
|                               |           |       |     | 165               | 11   | 3535                                    | 108   | 81  | 810304             | 71888 or 71896    |
|                               | 525       | 1987  | -   | 200               | 14   | 3820                                    | 119   | 89  |                    |                   |
|                               | 375       | 1420  | -   | 250               | 17   | 4280                                    | 152   | 113 |                    |                   |
|                               | 1000      | 3785  | -   | 150               | 10   | 3510                                    | 117   | 87  |                    |                   |
|                               |           |       |     | 165               | 11   | 3650                                    | 130   | 96  |                    |                   |
|                               | 700       | 2650  | -   | 200               | 14   | 3880                                    | 131   | 97  |                    |                   |
|                               | 500       | 1893  | -   | 250               | 17   | 4290                                    | 160   | 119 |                    |                   |
|                               | 1250      | 4732  | -   | 150               | 10   | 3690                                    | 146   | 108 |                    |                   |
|                               |           |       |     | 165               | 11   | 3835                                    | 161   | 120 |                    |                   |
|                               | 875       | 3312  | -   | 200               | 14   | 3928                                    | 148   | 110 |                    |                   |
|                               | 625       | 2366  | -   | 250               | 17   | 4315                                    | 170   | 126 |                    |                   |
|                               | 1500      | 5678  | -   | 150               | 10   | 4000                                    | 185   | 138 |                    |                   |
|                               |           |       |     | 165               | 11   | 4100                                    | 200   | 149 |                    |                   |
|                               | 1050      | 3974  | -   | 200               | 14   | 4000                                    | 165   | 123 |                    |                   |
|                               | 750       | 2839  | -   | 250               | 17   | 4350                                    | 180   | 134 |                    |                   |
| 20                            | 76        |       | 80  | 6                 | 2368 | 22                                      | 16    |     |                    |                   |
| 100                           | 379       |       | 100 | 7                 | 2680 | 33                                      | 24    |     |                    |                   |

Table continued on following page.

**CX Series Centrifugal Fire Pump Performance Sheet (Cont'd)**  
**(Speed and Power Data)**

Impeller Diameter - 10.00 in.

| Pump Model | Pump Test |       |         |                   |     | Impeller Part No.                       |       |     | Performance Curves |                   |
|------------|-----------|-------|---------|-------------------|-----|---|-------|-----|--------------------|-------------------|
|            | Capacity  |       |         | Net Pump Pressure |     | 71888 or 71896<br>6.20 in. Diameter Eye |       |     |                    |                   |
|            | GPM       | L/min | L/S     | PSI               | bar | Speed (RPM)                             | Power |     | Curve              | Impeller Part No. |
|            |           |       |         |                   |     |   | HP    | kw  |                    |                   |
| CXV Only   | 1585      | -     | 100 L/S | 150               | 10  | 4050                                    | 206   | 153 |                    |                   |
|            | 1110      | -     | 70 L/S  | 189               | 13  | 3960                                    | 171   | 127 |                    |                   |
|            | 793       | -     | 50 L/S  | 150               | 10  | 3340                                    | 95    | 71  |                    |                   |

## CX Series Centrifugal Fire Pump Performance Sheet (Lift and Elevation Data)

| Pump Test                |                     | Intake Hose<br>Length: 20 Feet<br>(6 Meters) |                    | Pump Models CXN, CXR, CXS and CXV            |                           |   | Pump Model CXS Only                          |                           |   |
|--------------------------|---------------------|--|--------------------|--|---------------------------|---|--|---------------------------|---|
|                          |                     |  |                    | 71888 or 71896 Impeller                      |                           |   | 71888 or 71896 Impeller                      |                           |   |
| Capacity                 | Net Pump Pressure   | Diameter                                     | No of Intake Hoses | Maximum Allowance for Connection Piping (Hg) | Maximum Lift at Sea Level | Maximum Altitude 10 Foot (3 Meter) Lift | Maximum Allowance for Connection Piping (Hg) | Maximum Lift at Sea Level | Maximum Altitude 10 Foot (3 Meter) Lift |
| 750 GPM<br>(2839 L/min)  | 150 psi<br>(10 bar) | 4-1/2 in.<br>(114 mm)                        | 1                  | 3.5 in.<br>(8.9 mm)                          | 13 Feet* (3.9 Meters)     | 6000 Feet (1818 Meters)                 | -  | -                         | -                                       |
|                          | 150 psi<br>(10 bar) | 5 in.<br>(127 mm)                            | 1                  | -  | 16 Feet*<br>(4.8 Meters)  | 7290 Feet<br>(2209 Meters)              | -  | -                         | -                                       |
|                          | 150 psi<br>(10 bar) | 6 in.<br>(152 mm)                            | 1                  | -  | 19 Feet*<br>(5.8 Meters)  | 11500 Feet<br>(3485 Meters)             | -  | -                         | -                                       |
| 1000 GPM<br>(3785 L/min) | 150 psi<br>(10 bar) | 5 in.<br>(127 mm)                            | 1                  | 3 in.<br>(76 mm)                             | 14 Feet*<br>(4.2 Meters)  | 4000 Feet<br>(1219 Meters)              | -  | -                         | -                                       |
|                          | 150 psi<br>(10 bar) | 6 in.<br>(152 mm)                            | 1                  | -  | 19 Feet**<br>(6 Meters)   | 8000 Feet<br>(2114 Meters)              | 5.8 in.<br>(147 mm)                          | 19 Feet *<br>(5.8 Meters) | 8000 Feet<br>(2424 Meters)              |
| 1250 GPM<br>(4732 L/min) | 150 psi<br>(10 bar) | 6 in.<br>(152 mm)                            | 1                  | 1 in.<br>(25 mm)                             | 14 Feet*<br>(4 Meters)    | 6000 Feet<br>(1818 Meters)              | 2.5 in.<br>(63.5 mm)                         | 15 Feet *<br>(4.5 Meters) | 4600 Feet<br>(1394 Meters)              |
| 1500 GPM<br>(5678 L/min) | 150 psi<br>(10 bar) | 6 in.<br>(152 mm)                            | 2                  | 2 in.<br>(50 mm)                             | 15 Feet*<br>(4.5 Meters)  | 4000 Feet<br>(1219 Meters)              | 1.6 in.<br>(40.6 mm)                         | 14 Feet *<br>(4 Meters)   | 3600 Feet<br>(1097 Meters)              |

**NOTES:**

- \* 1. 20 feet of intake hose direct connected to pump intake.
- \*\* 2. 30 feet of intake hose direct connected to pump intake.
3. Data show is generally applicable. Performance for a specific configuration of pump may vary from that shown. See Form F-1096.
4. Friction loss in hose and strainer is based on data in NFPA Standard No. 1901, 1991 edition, Table 4-1.3.1(b).