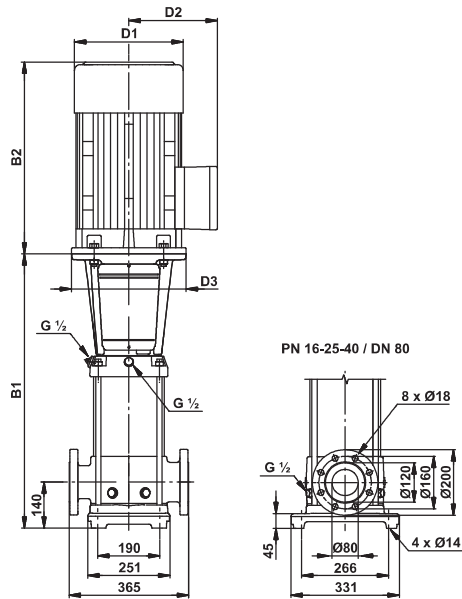


# Technical Data

## Vertical multistage centrifugal pumps

## LCRN 45

Performance Chart



| Pump Type    | H.P. | kW   | Q<br>l/min<br>m³/h | n = 2900 rpm |       |       |       |       |       |
|--------------|------|------|--------------------|--------------|-------|-------|-------|-------|-------|
|              |      |      |                    | 366.7        | 500.0 | 666.7 | 750.0 | 833.3 | 916.7 |
|              |      |      |                    | 22.0         | 30.0  | 40.0  | 45.0  | 50.0  | 55.0  |
| LCRN 45/1-1  | 4.00 | 3.00 | H<br>mts.          | 20           | 20    | 17    | 15    | 13    | 11    |
| LCRN 45/1    | 5.50 | 4.00 |                    | 25           | 24    | 21    | 20    | 18    | 16    |
| LCRN 45/2-2  | 7.50 | 5.50 |                    | 41           | 39    | 35    | 31    | 27    | 22    |
| LCRN 45/2    | 10.0 | 7.50 |                    | 50           | 48    | 43    | 40    | 36    | 32    |
| LCRN 45/3-2  | 15.0 | 11.0 |                    | 67           | 64    | 57    | 52    | 46    | 39    |
| LCRN 45/3    | 15.0 | 11.0 |                    | 76           | 72    | 65    | 60    | 54    | 48    |
| LCRN 45/4-2  | 20.0 | 15.0 |                    | 93           | 88    | 79    | 73    | 64    | 56    |
| LCRN 45/4    | 20.0 | 15.0 |                    | 100          | 95    | 86    | 80    | 72    | 64    |
| LCRN 45/5-2  | 25.0 | 18.5 |                    | 119          | 113   | 101   | 93    | 84    | 74    |
| LCRN 45/5    | 25.0 | 18.5 |                    | 126          | 120   | 108   | 101   | 91    | 80    |
| LCRN 45/6-2  | 30.0 | 22.0 |                    | 145          | 138   | 124   | 114   | 103   | 90    |
| LCRN 45/6    | 30.0 | 22.0 |                    | 152          | 145   | 130   | 120   | 108   | 97    |
| LCRN 45/7-2  | 40.0 | 30.0 |                    | 170          | 163   | 148   | 137   | 124   | 109   |
| LCRN 45/7    | 40.0 | 30.0 |                    | 178          | 171   | 155   | 145   | 132   | 117   |
| LCRN 45/8-2  | 40.0 | 30.0 |                    | 196          | 187   | 169   | 157   | 142   | 125   |
| LCRN 45/8    | 40.0 | 30.0 |                    | 203          | 194   | 175   | 164   | 150   | 133   |
| LCRN 45/9-2  | 40.0 | 30.0 |                    | 220          | 211   | 191   | 177   | 160   | 142   |
| LCRN 45/9    | 50.0 | 37.0 |                    | 229          | 220   | 199   | 185   | 168   | 150   |
| LCRN 45/10-2 | 50.0 | 37.0 |                    | 246          | 235   | 213   | 198   | 180   | 159   |
| LCRN 45/10   | 50.0 | 37.0 |                    | 254          | 242   | 220   | 206   | 188   | 167   |
| LCRN 45/11-2 | 60.0 | 45.0 |                    | 277          | 263   | 238   | 221   | 201   | 177   |
| LCRN 45/11   | 60.0 | 45.0 |                    | 285          | 272   | 247   | 230   | 210   | 187   |
| LCRN 45/12-2 | 60.0 | 45.0 |                    | 303          | 289   | 261   | 243   | 220   | 195   |
| LCRN 45/12   | 60.0 | 45.0 |                    | 313          | 297   | 269   | 251   | 229   | 204   |
| LCRN 45/13-2 | 60.0 | 45.0 |                    | 328          | 314   | 283   | 263   | 239   | 212   |

## Dimensions & Weights of LCRN Pump

| Pump type    | Dimensions [mm] |       |     |     |     | Net weight [kg] | Gross weight [kg] | Gross volume [m³] |
|--------------|-----------------|-------|-----|-----|-----|-----------------|-------------------|-------------------|
|              | DIN flange      |       | D1  | D2  | D3  |                 |                   |                   |
|              | B1              | B1+B2 |     |     |     |                 |                   |                   |
| LCRN 45/1-1  | 559             | 863   | 194 | 140 | -   | 80.0            | 138.0             | 0.3745            |
| LCRN 45/1    | 559             | 909   | 220 | 150 | 158 | 91.0            | 149.0             | 0.3745            |
| LCRN 45/2-2  | 639             | 1049  | 262 | 177 | 298 | 108.0           | 166.0             | 0.3745            |
| LCRN 45/2    | 639             | 1049  | 262 | 177 | 300 | 110.0           | 168.0             | 0.3745            |
| LCRN 45/3-2  | 829             | 1371  | 304 | 225 | 350 | 149.0           | 207.0             | 0.3745            |
| LCRN 45/3    | 829             | 1371  | 304 | 225 | 350 | 149.0           | 219.0             | 0.4495            |
| LCRN 45/4-2  | 909             | 1451  | 304 | 225 | 350 | 169.0           | 239.0             | 0.4495            |
| LCRN 45/4    | 909             | 1451  | 304 | 225 | 350 | 169.0           | 239.0             | 0.4495            |
| LCRN 45/5-2  | 989             | 1531  | 304 | 225 | 350 | 204.0           | 274.0             | 0.4495            |
| LCRN 45/5    | 989             | 1531  | 304 | 225 | 350 | 204.0           | 274.0             | 0.4495            |
| LCRN 45/6-2  | 1069            | 1679  | 363 | 262 | 350 | 240.0           | 310.0             | 0.4495            |
| LCRN 45/6    | 1069            | 1679  | 363 | 262 | 350 | 240.0           | 310.0             | 0.4495            |
| LCRN 45/7-2  | 1149            | 1795  | 415 | 300 | 400 | 321.0           | 404.0             | 0.5370            |
| LCRN 45/7    | 1149            | 1795  | 415 | 300 | 400 | 321.0           | 404.0             | 0.5370            |
| LCRN 45/8-2  | 1229            | 1875  | 415 | 300 | 400 | 336.0           | 419.0             | 0.5370            |
| LCRN 45/8    | 1229            | 1875  | 415 | 300 | 400 | 336.0           | 419.0             | 0.5370            |
| LCRN 45/9-2  | 1309            | 1955  | 415 | 300 | 400 | 341.0           | 424.0             | 0.5370            |
| LCRN 45/9    | 1309            | 2012  | 415 | 300 | 400 | 361.0           | 444.0             | 0.5370            |
| LCRN 45/10-2 | 1389            | 2092  | 415 | 300 | 400 | 366.0           | 463.0             | 0.6245            |
| LCRN 45/10   | 1389            | 2092  | 415 | 300 | 400 | 366.0           | 463.0             | 0.6245            |
| LCRN 45/11-2 | 1469            | 2178  | 442 | 325 | 450 | 478.0           | 575.0             | 0.6245            |
| LCRN 45/11   | 1469            | 2178  | 442 | 325 | 450 | 478.0           | 575.0             | 0.6245            |
| LCRN 45/12-2 | 1549            | 2258  | 442 | 325 | 450 | 483.0           | 580.0             | 0.6245            |
| LCRN 45/12   | 1549            | 2258  | 442 | 325 | 450 | 483.0           | 580.0             | 0.6245            |
| LCRN 45/13-2 | 1629            | 2338  | 442 | 325 | 450 | 488.0           | 585.0             | 0.6245            |

## Performance Curves

### Vertical multistage centrifugal pumps

**LCRN 45**

