Data sheet

## Condensing pressure regulator, type KVR Differential pressure valve, type NRD



## Features

- Accurate, adjustable pressure regulation
- Wide capacity and operating range
- Pulsation damping design
- Stainless steel bellows
- Compact angle design for easy installation in any position
- "Hermetic" brazed construction
- $1 / 4 \mathrm{in}$. Schrader valve for pressure gauge connection

The condensing pressure regulator, type KVR can be mounted in either the gas or liquid side of the condenser in refrigeration and air conditioning systems.
They are used to maintain a constant and sufficiently high condensing pressure with systems using air-cooled condensers.

They can also be used with valve types NRD or KVD to assure that adequate pressure is maintained on the receiver.

- Available with flare or ODF solder connections
- Can be used as a relief valve from high pressure to suction side
- KVR 12 - KVR 22: Compliant with ATEX hazard zone 2
- NRD: for use with HCFC, HFC and HC refrigerants

Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD
$\begin{array}{ll}\text { Approvals } & \begin{array}{l}\text { UL LISTED, file SA7200 } \\ \text { GOST AN30 }\end{array}\end{array}$

## Technical data

Metric conversions
$1 \mathrm{psi}=0.07$ bar
${ }^{5} / 9\left(\mathrm{t}_{1}{ }^{\circ} \mathrm{F}-32\right)=\mathrm{t}_{2}{ }^{\circ} \mathrm{C}$

| Refrigerants | HCFC, HFC and HC: KVR $12-$ KVR 22 |
| :--- | :--- |
|  | HCFC and non-flammable HFC: KVR $28-$ KVR 35 |
| Regulation range | Pe $=73.00-254.00$ psig |
|  | Factory setting $=145 \mathrm{psig}$ |
| Maximum working pressure | KVR: PS/MWP $=406 \mathrm{psig}$ |
|  | NRD: $\mathrm{PS} / \mathrm{MWP}=667 \mathrm{psig}$ |
| Maximum test pressure | KVR: Pe $=450 \mathrm{psig}$ |
|  | NRD: $\mathrm{Pe}=870 \mathrm{psig}$ |
| Medium temperature range | KVR: $-49-266^{\circ} \mathrm{F}$ |
| P band (full valve stroke) | KVR $12-$ KVR $22: 90 \mathrm{psi}$ |
|  | KVR $28-$ KVR $35: 72.5 \mathrm{psi}$ |
| Opening differential pressure for NRD | Start opening: $\Delta \mathrm{p}=20 \mathrm{psi}$ |
|  | Fully open: $\Delta \mathrm{p}=43 \mathrm{psi}$ |

Ordering


KVR 12, KVR 15, KVR 22, KVR 28, KVR 35, NRD

| Type | Rated liquid capacity ${ }^{1}$ ) <br> (Evaporator capacity) <br> [TR] |  |  |  | Rated hot gas ${ }^{1}$ ) (Evaporator capacity) [TR] |  |  |  | Flare connection ${ }^{2}$ ) <br> [in.] | Code no. | Solder connection <br> [in.] | Code no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | R22 | R134a | $\begin{aligned} & \text { R404A/ } \\ & \text { R507 } \end{aligned}$ | R407C | R22 | R134a | $\begin{aligned} & \text { R404A/ } \\ & \text { R507 } \end{aligned}$ | R407C |  |  |  |  |
| KVR 12 | 12.7 | 11.8 | 8.2 | 13.8 | 4.13 | 3.03 | 3.27 | 4.50 | 1/2 | 034L0091 | 1/2 | 034L0093 |
| KVR 15 | 12.7 | 11.8 | 8.2 | 13.8 | 4.13 | 3.03 | 3.27 | 4.50 | 5/8 | 034L0092 | 5/8 | 034L0097 |
| KVR 22 | 12.7 | 11.8 | 8.2 | 13.8 | 4.13 | 3.03 | 3.27 | 4.50 | - | - | 7/8 | 034L0094 |
| KVR 28 | 32.6 | 30.2 | 20.9 | 35.5 | 10.93 | 8.04 | 8.66 | 11.91 | - | - | $11 / 8$ | 034L0095 |
| KVR 35 | 32.6 | 30.2 | 20.9 | 35.5 | 10.93 | 8.04 | 8.66 | 11.91 | - | - | $13 / 8$ | 034L0100 |
| NRD | - | - | - | - | - | - | - | - | - | - | 1/2 | 020-1132 |

The connection dimensions chosen must not be too small, as gas velocities in excess of $130 \mathrm{ft} / \mathrm{s}$ at the inlet of the regulator can result in flow noise.
${ }^{1}$ ) Rated capacity is based on:

- evaporating temperature $\mathrm{t}_{\mathrm{e}}=40^{\circ} \mathrm{F}$
- condensing temperature $\mathrm{t}_{\mathrm{c}}=110^{\circ} \mathrm{F}$
- pressure drop across the valve
$\Delta p=3$ psi for liquid capacity $\Delta p=6 p s i$ for hot gas capacity
${ }^{2}$ ) KVR are delivered without flare nuts. Separate flare nuts can be delivered:
- $1 / 2$ in. code no. 011L1103
- $5 / 8$ in. code no. 011 L 1167

Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD

| Liquid capacity | Max. regulator capacity $\mathrm{Q}_{\mathrm{e}}{ }^{1}$ ) |  |  |  |  |  |  | Hot gas capacity [TR] (Evaporator capacity) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Type | Condensing temperature $\mathrm{t}_{\mathrm{c}}$ | Liquid capacity [TR] (Evaporator capacity) |  |  |  |  |  |  |  |  |  |
|  |  |  | Offset 45 psi |  |  |  |  | Offset 45 psi |  |  |  |  |
|  |  |  | Pressure drop $\Delta \mathrm{p}$ [psi] |  |  |  |  | Pressure drop $\Delta \mathrm{p}$ [psi] |  |  |  |  |
|  |  | [ $\left.{ }^{\circ} \mathrm{F}\right]$ | 1.5 | 3 | 6 | 10 | 25 | 1.5 | 3 | 6 | 10 | 25 |
|  |  |  |  |  |  |  | R22 |  |  |  |  | R22 |
|  | KVR 12 <br> KVR 15 <br> KVR 22 | 50 | 13.1 | 17.6 | 25.2 | 32.9 | 52.6 | 1.81 | 2.47 | 3.52 | 4.51 | 6.86 |
|  |  | 70 | 11.9 | 16.0 | 23.0 | 30.0 | 48.0 | 1.92 | 2.62 | 3.75 | 4.83 | 7.44 |
|  |  | 90 | 10.6 | 14.4 | 20.8 | 27.0 | 43.2 | 2.04 | 2.76 | 3.96 | 5.12 | 7.94 |
|  |  | 110 | 9.2 | 12.7 | 18.4 | 23.9 | 38.2 | 2.13 | 2.89 | 4.13 | 5.36 | 8.34 |
|  |  | 130 | 7.8 | 11.0 | 16.0 | 20.7 | 33.1 | 2.20 | 2.98 | 4.27 | 5.54 | 8.64 |
|  | KVR 28 <br> KVR 35 | 50 | 33.5 | 45.0 | 64.4 | 84.2 | 134.6 | 4.77 | 6.50 | 9.31 | 11.95 | 18.15 |
|  |  | 70 | 30.4 | 41.1 | 58.9 | 76.8 | 122.8 | 5.11 | 6.93 | 9.92 | 12.79 | 19.66 |
|  |  | 90 | 27.1 | 37.0 | 53.2 | 69.2 | 110.6 | 5.42 | 7.34 | 10.48 | 13.54 | 20.98 |
|  |  | 110 | 23.6 | 32.6 | 47.2 | 61.3 | 97.8 | 5.67 | 7.65 | 10.93 | 14.16 | 22.06 |
|  |  | 130 | 20.0 | 28.0 | 40.9 | 53.0 | 84.6 | 5.79 | 7.83 | 11.23 | 14.60 | 22.85 |
|  | R134a |  |  |  |  |  |  | R134a |  |  |  |  |
|  |  | 50 | 12.0 | 16.9 | 24.0 | 31.0 | 49.1 | 1.40 | 1.97 | 2.75 | 3.50 | 5.15 |
|  |  | 70 | 11.9 | 16.0 | 23.0 | 30.0 | 48.0 | 1.92 | 2.62 | 3.75 | 4.83 | 7.44 |
|  |  | 90 | 9.6 | 13.6 | 19.2 | 24.8 | 39.3 | 1.50 | 2.12 | 2.97 | 3.80 | 5.75 |
|  |  | 110 | 8.4 | 11.8 | 16.7 | 21.6 | 34.2 | 1.53 | 2.15 | 3.03 | 3.87 | 5.92 |
|  |  | 130 | 7.1 | 10.0 | 14.2 | 18.3 | 29.0 | 1.52 | 2.14 | 3.01 | 3.86 | 5.95 |
|  | KVR 28 <br> KVR 35 | 50 | 30.7 | 43.4 | 61.3 | 79.2 | 126.0 | 3.72 | 5.24 | 7.31 | 9.26 | 13.60 |
| Metric conversions $1 \mathrm{psi}=0.07 \mathrm{bar}$ ${ }^{5} / 9\left(\mathrm{t}_{1}{ }^{\circ} \mathrm{F}-32\right)=\mathrm{t}_{2}{ }^{\circ} \mathrm{C}$ $1 \mathrm{TR}=3.5 \mathrm{~kW}$ $1 \mathrm{in} .=25.4 \mathrm{~mm}$ |  | 70 | 27.6 | 39.1 | 55.3 | 71.4 | 113.0 | 3.87 | 5.44 | 7.63 | 9.71 | 14.49 |
|  |  | 90 | 24.5 | 34.7 | 49.1 | 63.4 | 100.0 | 3.99 | 5.62 | 7.89 | 10.07 | 15.22 |
|  |  | 110 | 21.4 | 30.2 | 42.8 | 55.3 | 87.5 | 4.06 | 5.71 | 8.04 | 10.28 | 15.69 |
|  |  | 130 | 18.1 | 25.6 | 36.3 | 46.9 | 74.2 | 4.03 | 5.68 | 8.00 | 10.25 | 15.77 |
|  | ${ }^{1}$ ) The cap <br> - Eva <br> - For | cities are based on orating temperatu ther evaporating | $\mathrm{t}_{\mathrm{e}}=4$ <br> mpera | res see | le below |  |  |  |  |  |  |  |

Correction factors for evaporating temperature $t_{e}$

| $\mathbf{t}_{\mathbf{e}}$ | $\mathbf{- 4 0}$ | $\mathbf{- 3 0}$ | $\mathbf{- 2 0}$ | $\mathbf{- 1 0}$ | $\mathbf{0}$ | $\mathbf{1 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $\left[{ }^{\circ} \mathrm{F}\right]$ | 1.12 | 1.09 | 1.05 | 1.03 | 1.0 | 0.98 |
| R22 | 1.22 | 1.16 | 1.10 | 1.04 | 1.0 | 0.96 |
| R134a |  |  |  |  |  |  |

[^0]Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD

Liquid capacity

Metric conversions
$1 \mathrm{psi}=0.07 \mathrm{bar}$
${ }^{5} / 9\left(\mathrm{t}_{1}{ }^{\circ} \mathrm{F}-32\right)=\mathrm{t}_{2}{ }^{\circ} \mathrm{C}$
$1 \mathrm{TR}=3.5 \mathrm{~kW}$
$1 \mathrm{in} .=25.4 \mathrm{~mm}$

| Max. regulator capacity $\mathrm{Q}_{\mathrm{e}}{ }^{1}$ ) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Condensing temperature $\mathrm{t}_{\mathrm{c}}$ | Liquid capacity [TR] <br> (Evaporator capacity) |  |  |  |  | Hot gas capacity [TR] (Evaporator capacity) |  |  |  |  |
|  |  | Offset 45 psi |  |  |  |  | Offset 45 psi |  |  |  |  |
|  |  | Pressure drop $\Delta \mathrm{p}$ [psi] |  |  |  |  | Pressure drop $\Delta \mathrm{p}$ [psi] |  |  |  |  |
|  | [ ${ }^{\mathrm{F}}$ ] | 1.5 | 3 | 6 | 10 | 25 | 1.5 | 3 | 6 | 10 | 25 |
| R404A/R507 |  |  |  |  |  |  | R404A/R507 |  |  |  |  |
| KVR 12 KVR 15 KVR 22 | 50 | 9.2 | 12.4 | 17.6 | 23.0 | 37.0 | 1.63 | 2.09 | 2.99 | 3.84 | 5.87 |
|  | 70 | 8.1 | 10.9 | 15.7 | 20.4 | 32.7 | 1.60 | 2.17 | 3.10 | 4.00 | 6.17 |
|  | 90 | 7.0 | 9.6 | 13.8 | 17.9 | 28.7 | 1.65 | 2.25 | 3.21 | 4.15 | 6.45 |
|  | 110 | 5.9 | 8.2 | 11.8 | 15.4 | 24.5 | 1.68 | 2.28 | 3.27 | 4.24 | 6.60 |
|  | 130 | 4.8 | 6.8 | 10.0 | 13.0 | 20.6 | 1.69 | 2.31 | 3.34 | 4.34 | 6.78 |
| KVR 28 KVR 35 | 50 | 23.6 | 31.7 | 45.2 | 59.0 | 94.5 | 4.06 | 5.52 | 7.89 | 10.15 | 15.48 |
|  | 70 | 20.8 | 27.9 | 40.1 | 52.2 | 83.6 | 4.24 | 5.74 | 8.20 | 10.58 | 16.32 |
|  | 90 | 17.9 | 24.5 | 35.2 | 45.9 | 73.4 | 4.41 | 5.96 | 8.50 | 10.99 | 17.06 |
|  | 110 | 15.1 | 20.9 | 30.3 | 39.3 | 62.7 | 4.88 | 6.06 | 8.66 | 11.22 | 17.49 |
|  | 130 | 12.3 | 17.4 | 25.7 | 33.1 | 52.7 | 4.49 | 6.12 | 8.82 | 11.45 | 17.92 |
| R407C |  |  |  |  |  |  | R407C |  |  |  |  |
| KVR 12 KVR 15 KVR 22 | 50 | 4.2 | 19.0 | 27.2 | 35.5 | 56.8 | 1.96 | 2.67 | 3.80 | 4.87 | 7.41 |
|  | 70 | 12.9 | 17.3 | 24.8 | 32.4 | 51.8 | 2.07 | 2.83 | 4.05 | 5.22 | 8.04 |
|  | 90 | 11.5 | 15.6 | 22.5 | 29.2 | 46.7 | 2.20 | 2.98 | 4.28 | 5.53 | 8.58 |
|  | 110 | 10.0 | 13.8 | 20.1 | 26.1 | 41.6 | 2.32 | 3.15 | 4.50 | 5.84 | 9.09 |
|  | 130 | 8.6 | 12.1 | 17.6 | 22.8 | 36.4 | 2.42 | 3.28 | 4.70 | 6.09 | 9.50 |
| KVR 28 KVR 35 | 50 | 36.2 | 48.6 | 69.6 | 90.9 | 145.4 | 5.15 | 7.02 | 10.06 | 12.91 | 19.60 |
|  | 70 | 32.8 | 44.4 | 63.6 | 82.9 | 132.6 | 5.52 | 7.48 | 10.71 | 13.81 | 21.23 |
|  | 90 | 29.3 | 40.0 | 57.5 | 74.7 | 119.5 | 5.85 | 7.93 | 11.32 | 16.62 | 22.66 |
|  | 110 | 25.7 | 35.5 | 51.5 | 66.8 | 106.6 | 6.18 | 8.34 | 11.91 | 15.43 | 24.05 |
|  | 130 | 22.0 | 30.8 | 45.0 | 58.3 | 93.1 | 6.37 | 8.61 | 12.35 | 16.06 | 25.14 |

${ }^{1}$ ) The capacities are based on:
Evaporating temperature $\mathrm{t}_{\mathrm{e}}=40^{\circ} \mathrm{F}$.
For other evaporating temperatures see table below.

Correction factors (evaporating temperature)

| $\mathbf{t}_{\mathbf{e}}$ | $\mathbf{- 4 0}$ | $\mathbf{- 2 0}$ | $\mathbf{0}$ | $\mathbf{2 0}$ | $\mathbf{4 0}$ | $\mathbf{5 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $\left[{ }^{\circ} \mathrm{F}\right]$ | 1.32 | 1.22 | 1.14 | 1.06 | 1.0 | 0.95 |
| R404A / R507 | 1.20 | 1.15 | 1.09 | 1.04 | 1.0 | 0.96 |
| R407C |  |  |  |  |  |  |

System capacity x correction factor $=$ table capacity.

| Sizing | For optimum performance, it is important to select a KVR valve according to system conditions and application. | - The following data must be used when sizing <br> - a KVR valve: <br> - Refrigerant: HCFC, HFC and HC: KVR 12 - KVR 22, HCFC and non-flammable HFC: KVR 28 - KVR 35 <br> - Evaporator capacity $\mathrm{Q}_{\mathrm{e}}$ in [TR] <br> - Evaporating temperature $t_{e}$ in [ $\left.{ }^{\circ} \mathrm{F}\right]$ <br> - Condensing temperature $\mathrm{t}_{\mathrm{c}}$ in [ $\left.{ }^{\circ} \mathrm{F}\right]$ <br> - Connection type: flare or solder <br> - Connection size in [in.] |
| :---: | :---: | :---: |
| Valve selection | Example <br> When selecting the appropriate valve it may be necessary to convert the actual evaporator capacity using a correction factors. This is required when your system conditions are different than the table conditions. <br> The selection is also dependant on the acceptable pressure drop across the valve. <br> The following example illustrates how this is done. | KVR in a liquid capacity application <br> - Refrigerant: R22 example <br> - Evaporator capacity: $\mathrm{Q}_{\mathrm{e}}=28.7$ TR <br> - Evaporating temperature: $\mathrm{t}_{\mathrm{e}}=-40^{\circ} \mathrm{F} \sim 21 \mathrm{psig}$ <br> - Condensing temperature: $\mathrm{t}_{\mathrm{c}}=90^{\circ} \mathrm{F} \sim 170 \mathrm{psig}$ <br> - Connection type: Solder <br> - Connection size: $5 / 8 \mathrm{in}$. |

Application example
Liquid capacity application


Application example
Hot gas capacity application


Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD

Valve selection (continued)

Step 1
Determine the correction factor for evaporating From the correction factors table an evaporating temperature $\mathrm{t}_{\mathrm{e}}$. temperature of $-40^{\circ} \mathrm{F}$, R22 corresponds to a factor of 1.12.
Correction factors

| $\mathrm{t}_{\mathrm{e}}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| [ ${ }^{\circ} \mathrm{F}$ ] |  |  |  |  | 0 | 10 |
| R22 | 1.12 | 1.09 | 1.05 | 1.03 | 1.0 | 0.98 |
| R134a | 1.22 | 1.16 | 1.10 | 1.04 | 1.0 | 0.96 |
| R404A, R507 | 1.32 | 1.22 | 1.14 | 1.06 | 1.0 | 0.95 |
| R407C | 1.20 | 1.15 | 1.09 | 1.04 | 1.0 | 0.96 |
| Plant capacity x correction factor $=$ table capacity |  |  |  |  |  |  |

Step 2
Corrected evaporator capacity is
$\mathrm{Q}_{\mathrm{e}}=28.7 \times 1.12=32.14 \mathrm{TR}$

Step 3
Now select the appropriate capacity table and choose the line for a condensing temperature $\mathrm{t}_{\mathrm{c}}=90^{\circ} \mathrm{F}$.
Using the corrected evaporator capacity, select a valve that provides an equivalent or greater capacity at an acceptable pressure drop.

Step 4
KVR 15, $5 / 8$ in. solder connection:
code no. 034L0097

Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD

## Design / Function

1. Seal cap
2. Gasket
3. Setting screw
4. Main spring
5. Valve body
6. Equalizing bellows
7. Valve plate
8. Valve seat
9. Damping device
10. Pressure gauge connection
11. Cap
12. Gasket
13. Insert
14. Piston
15. Valve plate
16. Piston guide
17. Valve body
18. Spring


The condensing pressure regulator, type KVR opens upon a rise in pressure on the inlet side, i.e. when the pressure in the condenser reaches the set value. KVR regulates on the inlet pressure only. Pressure variations on the outlet side of the regulator do not affect the degree of opening, as the valve is equipped with equalization bellows (6). The bellows has an effective area corresponding to that of the valve seat neutralizing any changes to the setting.

NRD


The valve is also equipped with a damping device (9) providing protection against pulsations which can normally arise in a refrigeration system.
The damping device helps to ensure long life for the regulator without impairing regulation accuracy.
Differential valve type NRD begins to open when the pressure drop in the valve is 20 psig, and is fully open when the pressure drop is 43 psig.
Differential valve type NRD begins to open when the pressure drop in the valve is 1.4 bar, and is fully open when the pressure drop is 3 bar.

Data sheet | Condensing pressure regulator, type KVR and differential pressure valve, type NRD

| P-band and Offset | Principle diagram |
| :---: | :---: |
| Metric conversions $1 \mathrm{psi}=0.07$ bar $5 / 9\left(\mathrm{t}_{1}{ }^{\circ} \mathrm{F}-32\right)=\mathrm{t}_{2}{ }^{\circ} \mathrm{C}$ |  |
|  | Proportional band <br> The proportional band or P -band is defined as the amount of pressure required to move the valve plate from closed (set point) to fully open position. <br> Example <br> If the valve is set to open at 120 psig and the valve $P$-band is 90 psi, the valve will give maximum capacity when the inlet pressure reaches 210 psig. <br> Offset <br> The offset is defined as the permissible pressure variation in condenser pressure (temperature). It is calculated as the difference between the required working pressure and the minimum allowable pressure. The offset is always a part of the P-band. <br> Example with R22 <br> A working temperature of $110^{\circ} \mathrm{F} \sim 230$ psig is required, and the temperature must not drop below $100^{\circ} \mathrm{C} \sim 200$ psig (set point). <br> The offset will then be 30 psi. |

## Dimensions and weights

KVR


NRD


Metric conversions
$1 \mathrm{in} .=25.4 \mathrm{~mm}$
$1 \mathrm{lb}=0.454 \mathrm{~kg}$

| Type | Connection |  | NV1 | $\mathrm{NV}_{2}$ | $\mathrm{H}_{1}$ | $\mathrm{H}_{2}$ | $\mathrm{H}_{3}$ | L | L1 | $\mathrm{B}_{1}$ | $B_{2}$ | C Solder | øD | Net weight [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Flare | Solder ODF |  |  |  |  |  |  |  |  |  |  |  |  |
| KVR 12 | 1/2 | 1/2 | 0.748 | 0.748 | 7.045 | 3.898 | 2.598 | - | - | 2.520 | 1.614 | 0.394 | 1.181 | 0.88 |
| KVR 15 | 5/8 | 5/8 | 0.945 | 0.945 | 7.045 | 3.898 | 2.598 | - | - | 2.520 | 1.614 | 0.472 | 1.181 | 0.88 |
| KVR 22 | - | 7/8 | - | - | 7.045 | 3.898 | 2.598 | - | - | 2.520 | 1.614 | 0.669 | 1.181 | 0.88 |
| KVR 28 | - | $11 / 8$ | - | - | 10.197 | 5.945 | 4.055 | - | - | 4.134 | 1.890 | 0.787 | 1.693 | 2.20 |
| KVR 35 | - | $13 / 8$ | - | - | 10.197 | 5.945 | 4.055 | - | - | 4.134 | 1.890 | 0.984 | 1.693 | 2.20 |
| NRD | - | 1/2 | - | - | - | - | - | 5.157 | 0.394 | - | - | - | 0.866 | 0.22 |

[^1]
[^0]:    System capacity x correction factor $=$ table capacity.

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