

The Emerson NXT Series is a balanced ported valve designed for high efficiency R-410A air conditioning and heat pump applications. NXT Series valves operate over a wide range of conditions and applications, while offering excellent performance, superior reliability, and unparalleled valve life.

### Features

- Precision superheat control optimized for R-410 A systems
- Enhanced power element design offers extended valve life
- Stainless steel power element eliminates corrosion and prevents valve failure
- Laser etched identification markings for permanent legibility
- Hermetic, leak-free construction of all joints
- Compact size allows installation in limited spaces
- Bi-Flow capability allows one valve to control the superheat in both cooling and heating modes for close-coupled or packaged heat pump applications
- Balanced port construction compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads
- External equalizer is standard
- Screens on ODF inlet connections

### Specifications

- Maximum working pressure (MWP): 700 psig
- R-410A operating range: -20°F to +50°F
- UR/CUR file number: SA 5312



Non-Adjustable

Adjustable

### Options

- High flow internal check valve (1-7 tons) allows reverse flow for heat pump applications, eliminating the need for external check valve and improving overall system efficiency
- Adjustable or non-adjustable superheat
- Bleed type pressure equalization available to accommodate PSC type compressors
- ODF connections are standard - Chatleff connections are available
- External equalizer (1/4" ODF) is a standard offering. Other configurations are available
- External equalizer 1/8" tube with 45° end cut is a standard offering - other terminations are available

### Nomenclature example: NAE 3 ZAA ODF B15%

| N          | A  | E  | 3                            | ZAA                                     | ODF  | B15%                              |
|------------|--|--|------------------------------|---|--|-----------------------------------|
| NXT Series | <b>Body Type</b><br>A = Adjustable, With Check, Straight-Through<br>B = Adjustable, No Check, Straight-Through<br>C = Non-Adjustable, With Check, Straight-Through<br>D = Non-Adjustable, No Check, Straight-Through | <b>Equalizer</b><br>E = External Equalizer | <b>Capacity</b><br>(In Tons) | <b>Refrigerant Code</b><br>ZAA = R-410A | <b>Connection Type</b><br>ODF = Solder<br>CHA = Chatleff | <b>Bleed %</b><br>(Omit for None) |

### Ordering Information

Adjustable, Straight-Through Body Style, Individually Packaged

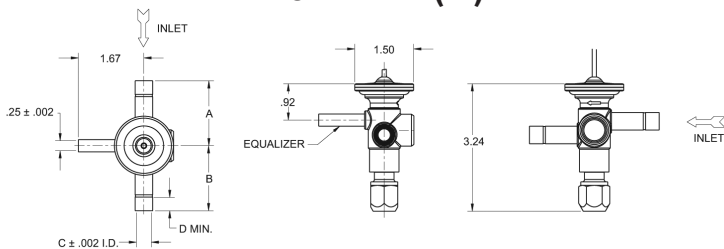
| Refrigerant | Capacity (Tons) | Check Valve | Bleed             | Inlet X Outlet      | Bulb Cap Tube Length | External Equalizer           | PCN    |
|-------------|-----------------|-------------|-------------------|---------------------|----------------------|------------------------------|--------|
| R-410A      | 1/2             |             | -                 | 3/8 ODF X 3/8 ODF   | 30"                  | 30" With Angle Cut           | 095064 |
|             |                 |             | 15%               | 3/8 ODF X 3/8 ODF   | 30"                  | 30" With Angle Cut           | 095065 |
|             | 1               | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095066 |
|             |                 | √           | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095000 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095002 |
|             |                 | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095003 |
|             |                 |             | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095004 |
|             |                 |             | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095005 |
|             | 1-1/2           | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095006 |
|             |                 | √           | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095007 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095008 |
|             |                 | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095009 |
|             |                 |             | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095010 |
|             |                 |             | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095011 |
|             | 2               | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095012 |
|             |                 | √           | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095013 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095014 |
|             |                 | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095015 |
|             |                 |             | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095016 |
|             |                 |             | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095017 |
|             | 3               | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095018 |
|             |                 | √           | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095019 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095020 |
|             |                 | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095021 |
|             |                 |             | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095022 |
|             |                 |             | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095023 |
|             | 4               | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095024 |
|             |                 | √           | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095025 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095026 |
|             |                 | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095027 |
|             |                 |             | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095028 |
|             |                 |             | 15%               | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095029 |
|             | 5               | √           | -                 | 3/8 ODF X 1/2 ODF   | 5 ft                 | 1/4" ODF                     | 095063 |
|             |                 | √           | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095030 |
|             |                 | √           | 15%               | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095031 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095032 |
|             |                 | √           | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095033 |
|             |                 |             | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095034 |
|             | 6               |             | 15%               | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095035 |
|             |                 | √           | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095036 |
|             |                 | √           | 15%               | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095037 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095038 |
|             |                 | √           | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095039 |
|             |                 |             | -                 | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095040 |
|             | 7               |             | 15%               | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF                     | 095041 |
|             |                 | √           | -                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF                     | 095042 |
|             |                 | √           | 15%               | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF                     | 095043 |
|             |                 | √           | -                 | Chatleff X Chatleff | 5 ft                 | 5 ft With 1/4" SAE Flare Nut | 095044 |
|             |                 | √           | -                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 5 ft With Angle Cut          | 095045 |
|             |                 |             | -                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF                     | 095046 |
|             |                 | 15%         | 5/8 ODF X 7/8 ODF | 5 ft                | 1/4" ODF             | 095047                       |        |

## Ordering Information

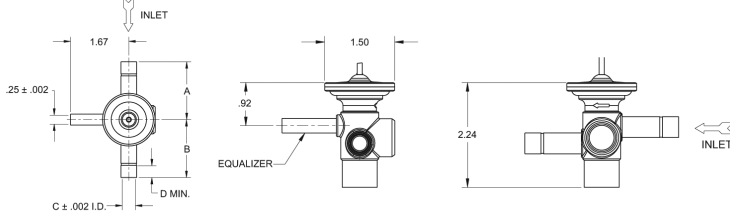
### Adjustable, Straight-Through Body Style, Individually Packaged (continued)

| Refrigerant | Capacity (Tons) | Check Valve | Bleed               | Inlet X Outlet      | Bulb Cap Tube Length | External Equalizer | PCN    |
|-------------|-----------------|-------------|---------------------|---------------------|----------------------|--------------------|--------|
| R-410A      | 8               |             | -                   | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095048 |
|             |                 |             | 15%                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095049 |
|             | 10              |             | -                   | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095050 |
|             |                 |             | 15%                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095051 |
|             | 12              |             | -                   | 1/2 ODF X 5/8 ODF   | 5 ft                 | 1/4" ODF           | 095060 |
|             |                 |             | -                   | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095052 |
|             |                 |             | 15%                 | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095053 |
|             |                 |             | -                   | 5/8 ODF X 1-1/8 ODF | 5 ft                 | 1/4" ODF           | 095054 |
|             |                 |             | -                   | 7/8 ODF X 1-1/8 ODF | 5 ft                 | 1/4" ODF           | 095055 |
|             |                 |             | -                   | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095056 |
|             | 15              |             | -                   | 5/8 ODF X 7/8 ODF   | 5 ft                 | 1/4" ODF           | 095057 |
|             |                 |             | -                   | 5/8 ODF X 1-1/8 ODF | 5 ft                 | 1/4" ODF           | 095058 |
|             |                 | -           | 7/8 ODF X 1-1/8 ODF | 5 ft                | 1/4" ODF             | 095059             |        |

## NXT Series Dimensional Data (in)



Adjustable - ODF Connections with 1/4 ODF Equalizer Shown



Non-Adjustable - ODF Connections with 1/4 ODF Equalizer Shown

| Connections | Dimension |      |       |      |
|-------------|-----------|------|-------|------|
|             | A         | B    | C     | D    |
| 3/8 ODF     | 1.65      | 1.65 | 0.379 | 0.34 |
| 1/2 ODF     | 1.65      | 1.65 | 0.504 | 0.48 |
| 5/8 ODF     | 2.15      | 2.15 | 0.629 | 0.75 |
| 7/8 ODF     | 2.15      | 2.15 | 0.879 | 0.75 |
| 1-1/8 ODF   | 2.40      | 2.40 | 1.129 | 0.91 |
| Chatleff    | 1.80      | 1.36 | -     | -    |