

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	Body Type A = Adjustable, With Check, Straight-Through B = Adjustable, No Check, Straight-Through C = Non-Adjustable, With Check, Straight-Through D = Non-Adjustable, No Check, Straight-Through	Equalizer E = External Equalizer	Capacity (In Tons)	Refrigerant Code ZAA = R-410A	Connection Type ODF = Solder CHA = Chatleff	Bleed % (Omit for None)

Ordering Information

Adjustable, Straight-Through Body Style, Individually Packaged

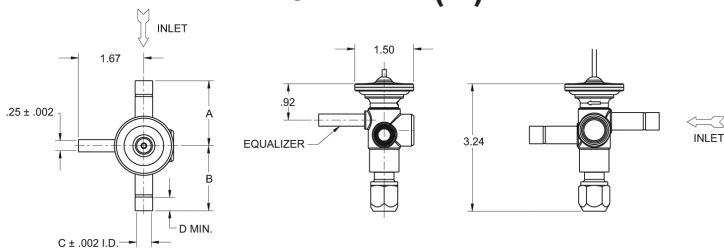
Refrigerant	Capacity (Tons)	Check Valve	Bleed	Inlet X Outlet	Bulb Cap Tube Length	External Equalizer	PCN
R-410A	1/2		-	3/8 ODF X 3/8 ODF	30"	30" With Angle Cut	095064
			15%	3/8 ODF X 3/8 ODF	30"	30" With Angle Cut	095065
	1	√	-	3/8 ODF X 1/2 ODF	5 ft	1/4" ODF	095066
		√	15%	3/8 ODF X 1/2 ODF	5 ft	1/4" 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

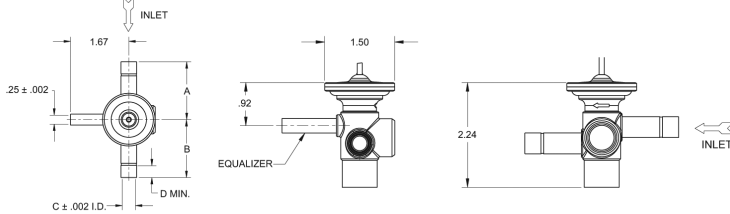
Adjustable, Straight-Through Body Style, Individually Packaged (continued)

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
	15		-	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	-	-