



NXT SERIES THERMOSTATIC EXPANSION VALVES

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 offering excellent performance, superior reliability, and unparalleled valve life.

FEATURES

- Precision superheat control optimized for R-410A systems
- Stainless steel sensing bulb and capillary tubing prevents corrosion and provides durability
- Enhanced power element design offers extended life
- Laser etched identification markings for permanent legibility
- Hermetic leak-free construction of all joints
- Internal check models provide bi-directional capability for heat pump applications
- Balanced port construction
- External equalizer is standard, other configurations available
- Optional screens on ODF inlet connections
- Available in adjustable or non-adjustable superheat

SPECIFICATIONS

Maximum Working Pressure..... 700 psig (48 bar)
 R-410A Operating Range.....-20°F to +50°F (-29° to 10°C)
 UR/CUR File Number SA5312
 Canadian CRN 0C20308.5C

MODEL NUMBER NOMENCLATURE - Example: NAE 3ZAA-17

SERIES	BODY TYPE	EQUALIZER	CAPACITY	SYSTEM REFRIGERANT CODE	CHARGE CODE	SEQUENTIAL IDENTIFIER	CUSTOMER SPECIAL	PACK TYPE
N	A	E	3	Z	AA	-17		
NXT Series Balanced Port	A = Adjustable Superheat, With Check, Straight-Thru B = Adjustable Superheat, No Check, Straight-Thru C = Non-Adjustable Superheat, With Check, Straight-Thru D = Non-Adjustable Superheat, No Check, Straight-Thru	E = External Equalizer	Nominal Rating in Tons	Z = R-410A	AA = Wide Range	-01 Thru -999	G = Cust. Special (Omit for Standard)	B1 = Bulk Pack (Omit for Individual Pack)

NXT SERIES THERMOSTATIC EXPANSION VALVES (Body Style Straight Thru)

SYSTEM REFRIGERANT CODE	CAPACITY (NOMINAL TONNAGE)	CHARGE CODE	INLET X OUTLET CONNECTION	ADJUSTABLE SUPERHEAT	INTERNAL CHECK	EQUALIZER	BLEED	CAP LENGTH	MODEL NUMBER	ITEM NUMBER
Z(R-410A)	1/2	AA (Wide Range)	3/8" X 3/8" ODF	Yes	No	30" With Angle Cut	15%	30 In.	NBE 1/2ZAA-05	091065
	1/2	AA (Wide Range)	3/8" X 3/8" ODF	Yes	No	1/8" Cap	No	30 In.	NBE 1/2ZAA-04	091064
	1/2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	30 In.	NBE 1/2ZAA-06	091066
	1	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 1ZAA-07	091002
	1	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 1ZAA-06	091001
	1	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 1ZAA-09	091005
	1	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 1ZAA-05	091000
	1	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 1ZAA-08	091004
	1-1/2	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 1-1/2ZAA-11	091008
	1-1/2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 1-1/2ZAA-10	091007
	1-1/2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 1-1/2ZAA-13	091011
	1-1/2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 1-1/2ZAA-09	091006
	1-1/2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 1-1/2ZAA-12	091010
	2	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 2ZAA-12	091014
	2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 2ZAA-11	091013

NXT SERIES THERMOSTATIC EXPANSION VALVES (CONTINUED)

SYSTEM REFRIGERANT CODE	CAPACITY (NOMINAL TONNAGE)	CHARGE CODE	INLET X OUTLET CONNECTION	ADJUSTABLE SUPERHEAT	INTERNAL CHECK	EQUALIZER	BLEED	CAP LENGTH	MODEL NUMBER	ITEM NUMBER
Z(R-410A)	2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 2ZAA-05	091017
	2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 2ZAA-10	091012
	2	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 2ZAA-04	091016
	3	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 3ZAA-17	091020
	3	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 3ZAA-16	091019
	3	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 3ZAA-12	091023
	3	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 3ZAA-15	091018
	3	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 3ZAA-11	091022
	4	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 4ZAA-19	091026
	4	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 4ZAA-18	091025
	4	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 4ZAA-09	091029
	4	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 4ZAA-17	091024
	4	AA (Wide Range)	3/8" X 1/2" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 4ZAA-08	091028
	5	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 5ZAA-31	091032
	5	AA (Wide Range)	3/8" X 1/2" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 5ZAA-33	091063
	5	AA (Wide Range)	1/2" X 5/8" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 5ZAA-30	091031
	5	AA (Wide Range)	1/2" X 5/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 5ZAA-12	091035
	5	AA (Wide Range)	1/2" X 5/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 5ZAA-11	091034
	6	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 6ZAA-07	091038
	6	AA (Wide Range)	1/2" X 5/8" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 6ZAA-06	091037
	6	AA (Wide Range)	1/2" X 5/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 6ZAA-09	091041
	6	AA (Wide Range)	1/2" X 5/8" ODF	Yes	Yes	1/4" ODF	No	5 Ft.	NAE 6ZAA-05	091036
	6	AA (Wide Range)	1/2" X 5/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 6ZAA-08	091040
	7	AA (Wide Range)	Chatleff	Yes	Yes	5 Ft.*	No	5 Ft.	NAE 7ZAA-09	091044
	7	AA (Wide Range)	5/8" X 7/8" ODF	Yes	Yes	1/4" ODF	15%	5 Ft.	NAE 7ZAA-08	091043
	7	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 7ZAA-08	091047
	7	AA (Wide Range)	5/8" X 7/8" ODF	Yes	Yes	1/8" Cap	No	5 Ft.	NAE 7ZAA-10	091045
	7	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 7ZAA-07	091046
	8	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 8ZAA-03	091049
	8	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 8ZAA-02	091048
	10	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 10ZAA-04	091051
	10	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 10ZAA-03	091050
	12	AA (Wide Range)	1/2" X 5/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 12ZAA-09	091060
	12	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	15%	5 Ft.	NBE 12ZAA-06	091053
	12	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 12ZAA-05	091052
	12	AA (Wide Range)	5/8" X 1-1/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 12ZAA-07	091054
	12	AA (Wide Range)	7/8" X 1-1/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 12ZAA-08	091055
	15	AA (Wide Range)	5/8" X 7/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 15ZAA-06	091056
	15	AA (Wide Range)	5/8" X 1-1/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 15ZAA-08	091058
	15	AA (Wide Range)	7/8" X 1-1/8" ODF	Yes	No	1/4" ODF	No	5 Ft.	NBE 15ZAA-09	091059

* External equalizer has a stainless steel tube and copper flare with 1/4" SAE flare nut