





45NE80



Flanged for Potable Water 801UD4



Flanged for **High-Temperature Fluids** 2ZV75

Pipe Expansion







angular movement.





Flexible unions that connect sections of pipe in a system. Absorb expansion and contraction of the pipe system caused by temperature changes, as well as movement and misalignment caused by vibration and start-up surges from attached pumps and machinery.

Flanged—Bolt to the mating flange of a pipe section for ease of installation. Provide extra protection against misalignment and start-up surges in attached pumps and machinery.

Flanged Expansion Joints for Potable Water-Meet NSF standards for use in systems delivering potable (drinking) water. They bolt to

the mating flange of a pipe section for ease of installation, and provide extra protection against misalignment and start-up surges in attached pumps and machinery. Threaded-Connection—Withstand vibration and

suction in pipe systems. Threading of the socket

union absorbs and distributes vibration better than

slip-socket or telescoping connections. Flanged for High-Temperature Fluids—Bolt to the mating flange of a pipe section for ease of installation and are appropriate in systems that have guides and anchors to absorb axial and

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Connec. Material	Pipe Size	Flange Diameter	Expansion Joint Material	Compression Distance	Offset Distance	Maximum Off-Center Angle	Expansion Distance	Max. Operatin Pressure	g Te	mp. Range	Overall Length	Bolt Hole Threading	No. of Bolt Holes	Brand	Item No.
langed Ex		Joints													
ingle Bull	4 in	9 in	EPDM	1 3/4 in	3/4 in	25 °	3/4 in	150 psi	50	°F – 240 °F	6 in	Unthreaded	8		45NE61
Steel	6 in	11 in	EPDM	1 3/4 in	1 in	20°	3/4 in	150 psi	-50 -50	°F – 240 °F	6 in	Unthreaded	8		45NE63
	8 in	13½ in	EPDM	1 ¾ in	1 in	20°	3/4 in	150 psi		°F – 240 °F	6 in	Unthreaded	8	_	45NE64
	8 in	13½ in	Neoprene	1 ¾ in	1 in	20 °	3/4 in	150 psi		°F – 212.5 °F	6 in	Unthreaded	8		45NE7
	10 in	16 in	EPDM	1 ¾ in	1 in	15 °	3/4 in	150 psi		°F – 240 °F	8 in	Unthreaded	12		45NE6
	12 in	19 in	EPDM	1 3/4 in	1 in	15°	3/4 in	150 psi		°F – 240 °F	8 in	Unthreaded	12		45NE6
	1 in	4½ in	EPDM	5/8 in	½ in	15°	3% in	225 psi	-50	°F – 230 °F	6 in	Threaded	4		1CZD9
	1 ½ in	5 in	EPDM	½ in	½ in	15 °	3/8 in	225 psi	-50	°F – 230 °F	6 in	Threaded	4		1CZE1
	1 ½ in	5 in	Neoprene	½ in	½ in	15°	3% in	225 psi		°F – 230 °F	6 in	Threaded	4	_	1CZC9
	2 in	6 in	EPDM	1/2 in	½ in	15 °	3% in	225 psi		°F – 230 °F	6 in	Threaded	4	_	1CZE2
	2 in	6 in	Neoprene	½ in	½ in	15 °	3/8 in	225 psi		°F – 230 °F	6 in	Threaded	4		1CZD1
	2 ½ in	7 in	EPDM	1/2 in	½ in	15°	3% in	225 psi	-50	°F – 230 °F	6 in	Threaded	4	_	1CZE3
	2 ½ in	7 in	Neoprene	½ in	1/2 in	15°	3% in	225 psi	-50	°F – 230 °F	6 in	Threaded	4		1CZD:
	3 in	7½ in	EPDM	½ in	1/2 in	15 °	3% in	225 psi	-50	°F – 230 °F	6 in	Threaded	4	_	1CZE
	3 in	7½ in	Neoprene	½ in	½ in	15 °	3% in	225 psi		°F – 230 °F	6 in	Threaded	4		1CZD
inc-	4 in	9 in	EPDM	½ in	½ in	15 °	3/8 in	225 psi		°F – 230 °F	6 in	Threaded	8		1CZE
lated	4 in	9 in	Neoprene	5/8 in	1/2 in	15 °	3% in	225 psi		°F – 230 °F	6 in	Threaded	8		1CZD:
teel	5 in	10 in	EPDM	5/8 in	1/2 in	15°	3% in	225 psi	-50	°F – 230 °F	6 in	Threaded	8		1CZE
	5 in	10 in	Neoprene	5/8 in	1/2 in	15°	3% in	225 psi		°F – 230 °F	6 in	Threaded	8		1CZD
	6 in	11 in	EPDM	5% in	1/2 in	15°	3/8 in	225 psi	-50	°F – 230 °F	6 in	Threaded	8		1CZE
	6 in	11 in	Neoprene	5/8 in	½ in	15°	3/8 in	225 psi	-50	°F – 230 °F	6 in	Threaded	8		1CZD
	8 in	13½ in	EPDM	5/8 in	½ in	15°	3% in	225 psi		°F – 230 °F	6 in	Threaded	8		1CZE
	8 in	13½ in	Neoprene	5/8 in	½ in	15 °	3% in	225 psi		°F – 230 °F	6 in	Threaded	8		1CZD
	10 in	16 in	EPDM	63 in	3/4 in	15 °	½ in	214 psi		°F – 210 °F	8 in	Unthreaded	12		45RF7
	10 in	16 in	Neoprene	5% in	3/4 in	15 °	1/2 in	214 psi		°F – 170 °F	8 in	Unthreaded	12		45RF7
	12 in	19 in	EPDM	3/4 in	3/4 in	15 °	½ in	214 psi		°F – 210 °F	8 in	Unthreaded	12		45RF8
	12 in	19 in	Neoprene	3/4 in	3/4 in	15 °	½ in	214 psi		°F – 170 °F	8 in	Unthreaded	12		45RF7
uble Bul		13 111	Neopiciic	74 111	74 111	10	72 111	217 poi		1 170 1	0 111	Ontinicaded	12		401117
Jubic Dui	2 in	6 in	EPDM	2 in	1 ¾ in	35 °	1 1/8 in	225 psi	-50	°F – 230 °F	7 in	Threaded	4	_	1CZF
	2 in	6 in	Neoprene	2 in	1 3/4 in	35 °	1 1/8 in	225 psi	-50	°F – 230 °F	7 in	Unthreaded	4		1CZF
	2 ½ in	7 in	EPDM	2 in	1 ¾ in	35 °	1 1/8 in	225 psi		°F – 230 °F	7 in	Threaded	4		1CZG
	3 in	7½ in	EPDM	2 in	1 3/4 in	35 °	1 3% in	225 psi	-50	°F – 230 °F	7 in	Threaded	4		1CZG:
	3 in	7½ in	Neoprene	2 in	1 3/4 in	35 °	1 3% in	225 psi		°F – 230 °F	7 in	Threaded	4		10ZG
Zinc-	4 in	9 in	EPDM	2 in	1 9/16 in	35 °	1 3/8 in	225 psi		°F – 230 °F	9 in	Threaded	8		1CZG:
lated	4 in	9 in	Neoprene	2 in	1 9/16 in	35 °	1 3% in	225 psi	-50	°F – 230 °F	9 in	Threaded	8		1CZF4
Steel	5 in	10 in	EPDM	2 in	1 % in	30°	1 % in	225 psi	-50	°F – 230 °F	9 in	Threaded	8		1CZG
	6 in	11 in	EPDM	2 in	1 9/16 in	30°	1 3/8 in	225 psi	-50	°F – 230 °F	9 in	Threaded	8		1CZG:
	6 in	11 in	Neoprene	2 in	1 % in	30 °	1 3% in	225 psi	-50	°F – 230 °F	9 in	Threaded	8		1CZF
	8 in	13½ in	EPDM	2 % in	1 3/8 in	30 °	1 3/8 in	225 psi		°F – 230 °F	13 in	Threaded	8		1CZG
	8 in	13½ in	Neoprene	2 % in	1 3% in	30 °	1 3/8 in	225 psi		°F – 230 °F	13 in	Threaded	8		1CZF
	12 in	19 in	EPDM	2 % in	1 % in	20°	1 % in	214 psi		°F – 210 °F	13 in	Unthreaded	12		45RF9
annod Ev			otable Water		1 78 111	20	1 78 111	214 psi	14	F-210 F	13 111	Ullilleaueu	12		40NF
ngle Bull		JUINIS IUI F	otable water												
ilgic buil	1 in	41/4 in	EPDM	1 13/32 in	19/32 in	50.4 °	45/64 in	200 psi @ 170	E 20	°F – 250 °F	6 in	Unthreaded	4	Proco Products	801UD
	1 1/4 in	45% in	EPDM	1 13/32 in	19/32 in	43.1 °	45/64 in	200 psi @ 170 200 psi @ 170		°F – 250 °F	6 in	Unthreaded	4	Proco Products	801UD
	1 ½ in	5 in	EPDM	1 1932 III 1 13/32 in	19/32 III 19/32 in	38.1 °	45/64 in	200 psi @ 170 200 psi @ 170		°F – 250 °F	6 in	Unthreaded	4	Proco Products	801UE
	2 in	6 in	EPDM	1 19/32 III 1 13/32 in	19/32 III 19/32 in	34.2°	45/64 IN	200 psi @ 170 200 psi @ 170		°F – 250 °F	6 in	Unthreaded	4	Proco Products Proco Products	801UE
	2 ½ in		EPDM	1 13/32 in	19/32 III 19/32 in	27.6°	45/64 IN	200 psi @ 170 200 psi @ 170		°F – 250 °F			4	Proco Products Proco Products	801UI
PDM	3 in	7 in 7½ in	EPDM	1 19/32 III 1 13/32 in	19/32 III	27.0 23 °	45/64 in	200 psi @ 170 200 psi @ 170	-20 -20	°F – 250 °F	6 in	Unthreaded	4	Proco Products	801UI
	4 in	9 in	EPDM	1 19/32 III 1 13/32 in	19/32 III 19/32 in	18.8 °	45/64 IN	200 psi @ 170 200 psi @ 170	-20 -20	°F – 250 °F	6 in 6 in	Unthreaded Unthreaded	8	Proco Products Proco Products	801UI
			EPDM		45/64 in	15.8 °	51/64 in			°F – 250 °F				Proce Products	
	5 in	10 in		1 19/32 in				200 psi @ 170	r -20		6 in	Unthreaded	8	Proco Products	801UI
	6 in	11 in	EPDM	1 19/32 in 1 19/32 in	45/64 in 45/64 in	13 ° 9.7 °	51/64 in	200 psi @ 170	r -20	°F – 250 °F	6 in	Unthreaded	8	Proco Products	80101
onded t	8 in	13½ in	EPDM			9.7	51/64 in	200 psi @ 170	r -20	°F – 250 °F	6 in	Unthreaded	8	Proco Products	801U
		un expansio	ıı Juints tör '	Vibration & Suc	LIUII										
unic Dil	Ib Joint		EPDM	7 16 in	76 in	17.5 °	76 in	150 nc:	FO	°E 250 °F	0 in		0		45NE8
	1 ½ in			7 ½ in	7/8 in 7/6 in	17.5 °	7/8 in	150 psi		°F – 250 °F	8 in		0		
-	2 in 2 in		EPDM	7 1/8 in 7 1/8 in	⅓ in ⅓ in	13.3 °	⅓ in ⅓ in	150 psi	-50	°F – 250 °F °F – 250 °F	8 in				45NE
			Neoprene			13.3		150 psi			8 in		0		45NE
	3 in		EPDM	7 1/8 in	7∕8 in	8.9°	7/8 in	150 psi	-50	°F – 250 °F	9.6 in		0		45NE8
	_ 1 in		EPDM	7⁄8 in	7/8 in	25 °	1/4 in	150 psi	40	°F – 200 °F	7.75 in			Spears	4DMZ
PVC			EPDM	7⁄8 in	7⁄8 in ■	15°	1⁄4 in	150 psi		°F – 200 °F	9 in		. –	Spears	4DNA
	3 in				IV	lax. Operating	_	D	verall ength	Bolt Ho	le Threading	No. o Bolt Ho	I loc		Item No.
onnec. aterial inged Ex	Flang xpansion	ge Diameter Joints for H	Expar igh-Tempera	nsion Joint Mate ture Fluids	rial	Pressure	Temp.	Kange L	ongui	2011110	· · · · · · · · · · · · · · · · · · ·	Doit no	169	Brand	
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onnec. laterial anged Ex	Flang xpansion	Joints for H	igh-Tempera	ture Fluids Stainless Steel	erial	150 psi	850) °F	6 in	Unt	hreaded	4	163	Hose Master	
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PVC connec. laterial anged Ex involuted	Flang xpansion	2 in 2½ in 3 in 4 in 5 in	igh-Tempera	Stainless Steel Stainless Steel Steel Steel Stainless Steel Stainless Steel Stainless Steel	erial	150 psi 150 psi 150 psi 150 psi 130 psi 150 psi	850 850 850 800 850) °F) °F) °F) °F	6 in 6 in 6 in 7 in 7 in	Unt Unt Unt Unt Unt	hreaded hreaded hreaded hreaded hreaded	4 4 4 8 8	163	Hose Master Hose Master Hose Master Hose Master Hose Master Hose Master	2ZV7 2ZV7 2ZV7 2ZV7
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