



Flanged
1CZD1



Flanged for Potable Water
801UD4



Threaded-Connection
45NE80



Flanged for
High-Temperature Fluids
22V75

Pipe Expansion Joints

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 angular movement.



Connec. Material	Pipe Size	Flange Diameter	Expansion Joint Material	Compression Distance	Offset Distance	Maximum Off-Center Angle	Expansion Distance	Max. Operating Pressure	Temp. Range	Overall Length	Bolt Hole Threading	No. of Bolt Holes	Brand	Item No.
Flanged Expansion Joints														
Single Bulb Joint														
Steel	4 in	9 in	EPDM	1 ¾ in	¾ in	25 °	¾ in	150 psi	-50 °F – 240 °F	6 in	Unthreaded	8	—	45NE61
	6 in	11 in	EPDM	1 ¾ in	1 in	20 °	¾ in	150 psi	-50 °F – 240 °F	6 in	Unthreaded	8	—	45NE63
	8 in	13½ in	EPDM	1 ¾ in	1 in	20 °	¾ in	150 psi	-50 °F – 240 °F	6 in	Unthreaded	8	—	45NE64
	8 in	13½ in	Neoprene	1 ¾ in	1 in	20 °	¾ in	150 psi	-50 °F – 212.5 °F	6 in	Unthreaded	8	—	45NE73
	10 in	16 in	EPDM	1 ¾ in	1 in	15 °	¾ in	150 psi	-50 °F – 240 °F	8 in	Unthreaded	12	—	45NE65
	12 in	19 in	EPDM	1 ¾ in	1 in	15 °	¾ in	150 psi	-50 °F – 240 °F	8 in	Unthreaded	12	—	45NE66
	1 in	4¼ in	EPDM	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZD9
	1 ½ in	5 in	EPDM	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZE1
	1 ½ in	5 in	Neoprene	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZC9
	2 in	6 in	EPDM	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZE2
	2 in	6 in	Neoprene	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZD1
	2 ½ in	7 in	EPDM	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZE3
Zinc-Plated Steel	2 ½ in	7 in	Neoprene	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZD3
	3 in	7½ in	EPDM	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZE4
	3 in	7½ in	Neoprene	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	4	—	1CZD4
	4 in	9 in	EPDM	½ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZE5
	4 in	9 in	Neoprene	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZD5
	5 in	10 in	EPDM	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZE6
	5 in	10 in	Neoprene	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZD6
	6 in	11 in	EPDM	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZE7
	6 in	11 in	Neoprene	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZD7
	8 in	13½ in	EPDM	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZE8
	8 in	13½ in	Neoprene	¾ in	½ in	15 °	¾ in	225 psi	-50 °F – 230 °F	6 in	Threaded	8	—	1CZD8
	10 in	16 in	EPDM	63 in	¾ in	15 °	½ in	214 psi	14 °F – 210 °F	8 in	Unthreaded	12	—	45RF79
10 in	16 in	Neoprene	¾ in	¾ in	15 °	½ in	214 psi	14 °F – 170 °F	8 in	Unthreaded	12	—	45RF77	
12 in	19 in	EPDM	¾ in	¾ in	15 °	½ in	214 psi	14 °F – 210 °F	8 in	Unthreaded	12	—	45RF80	
12 in	19 in	Neoprene	¾ in	¾ in	15 °	½ in	214 psi	14 °F – 170 °F	8 in	Unthreaded	12	—	45RF78	
Double Bulb Joint														
Zinc-Plated Steel	2 in	6 in	EPDM	2 in	1 ¾ in	35 °	1 ½ in	225 psi	-50 °F – 230 °F	7 in	Threaded	4	—	1CZF9
	2 in	6 in	Neoprene	2 in	1 ¾ in	35 °	1 ½ in	225 psi	-50 °F – 230 °F	7 in	Unthreaded	4	—	1CZF1
	2 ½ in	7 in	EPDM	2 in	1 ¾ in	35 °	1 ½ in	225 psi	-50 °F – 230 °F	7 in	Threaded	4	—	1CZF1
	3 in	7½ in	EPDM	2 in	1 ¾ in	35 °	1 ¾ in	225 psi	-50 °F – 230 °F	7 in	Threaded	4	—	1CZF2
	3 in	7½ in	Neoprene	2 in	1 ¾ in	35 °	1 ¾ in	225 psi	-50 °F – 230 °F	7 in	Threaded	4	—	1CZF3
	4 in	9 in	EPDM	2 in	1 ⅞ in	35 °	1 ¾ in	225 psi	-50 °F – 230 °F	9 in	Threaded	8	—	1CZF3
	4 in	9 in	Neoprene	2 in	1 ⅞ in	35 °	1 ¾ in	225 psi	-50 °F – 230 °F	9 in	Threaded	8	—	1CZF4
	5 in	10 in	EPDM	2 in	1 ⅞ in	30 °	1 ¾ in	225 psi	-50 °F – 230 °F	9 in	Threaded	8	—	1CZF4
	6 in	11 in	EPDM	2 in	1 ⅞ in	30 °	1 ¾ in	225 psi	-50 °F – 230 °F	9 in	Threaded	8	—	1CZF5
	6 in	11 in	Neoprene	2 in	1 ⅞ in	30 °	1 ¾ in	225 psi	-50 °F – 230 °F	9 in	Threaded	8	—	1CZF6
	8 in	13½ in	EPDM	2 ¾ in	1 ¾ in	30 °	1 ¾ in	225 psi	-50 °F – 230 °F	13 in	Threaded	8	—	1CZF6
	8 in	13½ in	Neoprene	2 ¾ in	1 ¾ in	30 °	1 ¾ in	225 psi	-50 °F – 230 °F	13 in	Threaded	8	—	1CZF7
12 in	19 in	EPDM	2 ¾ in	1 ¾ in	20 °	1 ¾ in	214 psi	14 °F – 210 °F	13 in	Unthreaded	12	—	45RF90	
Flanged Expansion Joints for Potable Water														
Single Bulb Joint														
EPDM	1 in	4¼ in	EPDM	1 13/32 in	19/32 in	50.4 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UD4
	1 ¼ in	4 9/16 in	EPDM	1 13/32 in	19/32 in	43.1 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UD7
	1 ½ in	5 in	EPDM	1 13/32 in	19/32 in	38.1 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UE0
	2 in	6 in	EPDM	1 13/32 in	19/32 in	34.2 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UE3
	2 ½ in	7 in	EPDM	1 13/32 in	19/32 in	27.6 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UE6
	3 in	7½ in	EPDM	1 13/32 in	19/32 in	23 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	4	Proco Products	801UE9
	4 in	9 in	EPDM	1 13/32 in	19/32 in	18.8 °	45/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	8	Proco Products	801UF2
	5 in	10 in	EPDM	1 13/32 in	45/64 in	15.2 °	51/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	8	Proco Products	801UF5
6 in	11 in	EPDM	1 13/32 in	45/64 in	13 °	51/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	8	Proco Products	801UF8	
8 in	13½ in	EPDM	1 13/32 in	45/64 in	9.7 °	51/64 in	200 psi @ 170F	-20 °F – 250 °F	6 in	Unthreaded	8	Proco Products	801UG1	
Threaded-Connection Expansion Joints for Vibration & Suction														
Double Bulb Joint														
—	1 ½ in	—	EPDM	7 ⅞ in	7/8 in	17.5 °	7/8 in	150 psi	-50 °F – 250 °F	8 in	—	0	—	45NE80
	2 in	—	EPDM	7 ⅞ in	7/8 in	13.3 °	7/8 in	150 psi	-50 °F – 250 °F	8 in	—	0	—	45NE81
	2 in	—	Neoprene	7 ⅞ in	7/8 in	13.3 °	7/8 in	150 psi	-50 °F – 250 °F	8 in	—	0	—	45NE89
	3 in	—	EPDM	7 ⅞ in	7/8 in	8.9 °	7/8 in	150 psi	-50 °F – 250 °F	9.6 in	—	0	—	45NE83
	1 in	—	EPDM	7/8 in	7/8 in	25 °	¼ in	150 psi	40 °F – 200 °F	7.75 in	—	—	Spears	4DM27
	3 in	—	EPDM	7/8 in	7/8 in	15 °	¼ in	150 psi	40 °F – 200 °F	9 in	—	—	Spears	4DNA1
Connec. Material	Flange Diameter	Expansion Joint Material	Max. Operating Pressure	Temp. Range	Overall Length	Bolt Hole Threading	No. of Bolt Holes	Brand	Item No.					
Flanged Expansion Joints for High-Temperature Fluids														
Convuluted Joint														
Steel	2 in	Stainless Steel	150 psi	850 °F	6 in	Unthreaded	4	Hose Master	22V75					
	2½ in	Stainless Steel	150 psi	850 °F	6 in	Unthreaded	4	Hose Master	22V76					
	3 in	Steel	150 psi	850 °F	6 in	Unthreaded	4	Hose Master	22V77					
	4 in	Stainless Steel	130 psi	800 °F	7 in	Unthreaded	8	Hose Master	22V78					
	5 in	Stainless Steel	150 psi	850 °F	7 in	Unthreaded	8	Hose Master	22V79					
	6 in	Stainless Steel	150 psi	850 °F	6 in	Unthreaded	8	Hose Master	22V80					
8 in	Stainless Steel	150 psi	850 °F	6 in	Unthreaded	8	Hose Master	22V81						