



Fully Threaded 1CRK1



Threaded on Both Ends 1CRK5

Polyvinylidene Pipe Nipples, Schedule 80

- MNPT connection
- Medium-pressure (300-999 psi)
- Red color

Polyvinylidene fluoride, or PVDF, is a high-purity thermoplastic that resists chemicals, abrasions, salts, and heat, and is ultraviolet (UV) stable for outdoor use. Pipe nipples connect with pipe fittings and

are frequently used in the semiconductor industry. Schedule 80 pipe nipples have thicker walls than Schedule 40, but not as thick as Schedule 160. Connections use PTFE tape to secure seal. Pipe nipples connect with fittings.

Nominal Pipe Size	Overall Length	Item No.	Nominal Pipe Size	Overall Length					
				2"	3"	4"	5"	6"	
Schedule 80 Fully Threaded Medium Pressure Nipples			Schedule 80 Threaded on Both Ends Medium Pressure Nipples						
1/2"	1 13/100"	1CRK1	1/2"	1CRK6	1CRK5	1CRK4	—	—	
3/4"	1 19/60"	1CRK7	3/4"	1CRK8	1CRK3	—	1CR11	1CRK9	
1"	1 1/2"	1CRL4	1"	1CRL5	1CRL9	1CRL8	1CRL7	1CRL6	
1 1/2"	1 3/4"	1CRN1	1 1/2"	1CRN2	1CRN6	1CRN5	1CRN4	1CRN3	
2"	2"	1CRP3	2"	—	1CRN7	1CRN8	1CRN9	1CRP1	

Polyvinylidene Pressure Pipe Fittings & Flanges, Schedule 80

- Temp. range: 73° to 280°F
- Fittings max. operating pressure: 1,360 psi @ 73° F

Polyvinylidene, or PVDF, fittings and flanges connect with pipe to divert, divide, or return the flow of liquids and chemicals in chemical plant, pharmaceutical, medical, and food processing applications. PVDF resists salts, strong acids, dilute bases, and organic solvents, and is ultraviolet (UV) stable for outdoor use.

Threaded x threaded—Connections use PTFE tape to secure seal.

Socket x socket—Fittings connect to pipe. Also called slip or hub fittings, include socket ends on all fitting connection ends. The socket ends fit over the end of an PVDF pipe and require glue or adhesive to secure the connection.

Socket x threaded—Include one socket (hub or slip) fitting end and one threaded end, and require adhesive to secure connection. Threaded connections use PTFE tape to secure seal.

Spigot x socket—Include a spigot (also known as street end) that fits inside a socket (hub or slip) end that fits over a pipe. The spigot end is necessary when a fitting connects to another fitting (not directly to a pipe). These fittings require adhesive to secure the connection.

Blind flanges—Also called blank flanges, seal the end of piping systems or pressure vessel openings. They are used for testing the flow of gas or liquid through a pipe or vessel by blocking off a section of the pipe that is not used.

Butt weld flanges—Also called welded neck flanges, attach by welding the pipe to the neck of the flange, transferring stress from both the flange and the hub's base to the pipe. The inside diameter of the flange matches the inside diameter of the pipe. Butt weld flanges typically have a RTJ (ring-type joint) face.

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
Threaded x Threaded Pipe Fittings			
45° Elbow			
	1/2"	FNPT	1CRE2
	1"	FNPT	1CRE4
	1 1/2"	FNPT	1CRE5
	2"	FNPT	1CRE6
90° Thread Elbow			
	1/2"	FNPT	1CRF3
	3/4"	FNPT	1CRF4
	1"	FNPT	1CRF5
	1 1/2"	FNPT	1CRF6
	2"	FNPT	1CRF7
Cap			
	1/2"	FNPT	1CRU9
	3/4"	FNPT	1CRH2
	1"	FNPT	1CRV1
	1 1/2"	FNPT	1CRH3
	2"	FNPT	1CRV2
Coupling			
	1/2"	FNPT	1CRC5
	3/4"	FNPT	1CRC6
	1"	FNPT	1CRC7
	1 1/2"	FNPT	1CRC8
	2"	FNPT	1CRC9
Hex Head Plug			
	1/2"	MNPT	1CRU6
	3/4"	MNPT	1CRG9
	1"	MNPT	1CRU7
	1 1/2"	MNPT	1CRH1
Reducing Bushing			
	3/4" x 1/2"	FNPT x MNPT	1CRJ1
	1" x 1/2"	MNPT x FNPT	1CRJ2
	1" x 3/4"	MNPT x FNPT	1CRJ3
	1 1/2" x 1"	MNPT x FNPT	1CRJ4
	2" x 1"	MNPT x FNPT	1CRJ5
	2" x 1 1/2"	MNPT x FNPT	1CRJ6

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
Tee			
	1/2"	FNPT	1CRG4
	3/4"	FNPT	1CRG5
	1"	FNPT	1CRG6
	1 1/2"	FNPT	1CRG7
	2"	FNPT	1CRG8
Union			
	1/2"	FNPT	1CRP9
	3/4"	FNPT	1CRR1
	1"	FNPT	1CRR2
	1 1/2"	FNPT	1CRR3
	2"	FNPT	1CRR4
Socket x Socket Pipe Fittings			
45° Elbow			
	1/2"	F Socket	1CRD6
	3/4"	F Socket	1CRD7
	1"	F Socket	1CRD8
	1 1/2"	F Socket	1CRD9
	2"	F Socket	1CRE1
90° Elbow			
	1/2"	F Socket	1CRE7
	3/4"	F Socket	1CRE8
	1"	F Socket	1CRE9
	2"	F Socket	1CRF2
Reducing Socket Coupling			
	1/2"	F Socket	1CRB9
	3/4"	F Socket	1CRC1
	1"	F Socket	1CRC2
	1 1/2"	F Socket	1CRC3
	2"	F Socket	1CRC4
Socket Union			
	1/2"	F Socket	1CRP4
	3/4"	F Socket	1CRP5
	1"	F Socket	1CRP6

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.	
Tee				
	1/2"	F Socket	1CRF8	
	3/4"	F Socket	1CRF9	
	1"	F Socket	1CRG1	
	2"	F Socket	1CRG3	
Socket x Threaded Pipe Fittings				
Adapter Coupling				
	1/2"	FNPT x F Socket	1CRD1	
	1 1/2"	FNPT x F Socket	1CRD4	
	2"	F Socket x FNPT	1CRD5	
Spigot x Socket Pipe Fittings				
Reducing Bushing				
	3/4" x 1/2"	M Spigot x M Socket	1CRH4	
	1" x 1/2"	F Socket x F Spigot	1CRH5	
	1" x 3/4"	F Socket x F Spigot	1CRH6	
	1 1/2" x 1"	M Spigot x F Socket	1CRH7	
	2" x 1"	F Socket x F Spigot	1CRH8	
	2" x 1 1/2"	M Spigot x F Socket	1CRH9	
Description	Flange Outside Diameter	No. of Bolt Holes	Max. Operating Pressure	Item No.
Blind Flanges				
	4 1/4"	4	—	1CRJ7
	5"	4	—	1CRJ8
	6"	4	—	1CRJ9
Butt Weld Flanges				
	3 1/2"	4	1,360 psi @ 73 °F	1CRR5
	3 3/4"	4	1,360 psi @ 73 °F	1CRR6
	4 1/4"	4	1,360 psi @ 73 °F	1CRR7
	5"	4	1,360 psi @ 73 °F	1CRR8
	6"	4	150 psi	1CRR9

Connec. Type	Max. Pressure	1/2 in Item No.	Pipe Size					
			3/4 in Item No.	1 in Item No.	1 1/2 in Item No.	2 in Item No.	3 in Item No.	
True-Bloc Ball Valves, CHEMTRON								
FNPT x FNPT	150 psi CWP	1CRU1	1CRU2	1CRU3	1CRU4	—	1CRU5	—
Socket x FNPT	150 psi CWP	38AP77	38AP78	38AP79	38AP81	38AP80	38AP82	—
Socket x Socket	150 psi CWP	1CRT4	1CRT5	1CRT6	—	—	—	38AP83