



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.

| | | | Overall Length | | | | | |
|--|----------------|----------|---|---------------|---------------|---------------|---------------|---------------|
| Nominal Pipe Size | Overall Length | Item No. | Nominal Pipe Size | 2 in Item No. | 3 in Item No. | 4 in Item No. | 5 in Item No. | 6 in Item No. |
| Schedule 80 Fully Threaded Medium Pressure Nipples | | | Schedule 80 Threaded on Both Ends Medium Pressure Nipples | | | | | |
| ½ in | 1¼ in | 1CRK1 | ½ in | — | 1CRK6 | 1CRK5 | 1CRK4 | — |
| ¾ in | 1⅝ in | 1CRK7 | ¾ in | 1CRK8 | 1CRK3 | — | 1CRK1 | 1CRK9 |
| 1 in | 1⅞ in | 1CRK4 | 1 in | 1CRK5 | 1CRK9 | 1CLR8 | 1CLR7 | 1CLR6 |
| 1½ in | 1¾ in | 1CRN1 | 1½ in | 1CRN2 | 1CRN6 | 1CRN5 | 1CRN4 | 1CRN3 |
| 2 in | 2 in | 1CRP3 | 2 in | — | 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 salt, 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 | | | |
|  | ½ in | FNPT | 1CRE2 |
| | 1 in | FNPT | 1CRE4 |
| | 1½ in | FNPT | 1CRE5 |
| | 2 in | FNPT | 1CRE6 |
| 90° Thread Elbow | | | |
|  | ½ in | FNPT | 1CRF3 |
| | ¾ in | FNPT | 1CRF4 |
| | 1 in | FNPT | 1CRF5 |
| | 1½ in | FNPT | 1CRF6 |
| | 2 in | FNPT | 1CRF7 |
| Cap | | | |
|  | ½ in | FNPT | 1CRU9 |
| | ¾ in | FNPT | 1CRH2 |
| | 1 in | FNPT | 1CRV1 |
| | 1½ in | FNPT | 1CRH3 |
| | 2 in | FNPT | 1CRV2 |
| Coupling | | | |
|  | ½ in | FNPT | 1CRC5 |
| | ¾ in | FNPT | 1CRC6 |
| | 1 in | FNPT | 1CRC7 |
| | 1½ in | FNPT | 1CRC8 |
| | 2 in | FNPT | 1CRC9 |
| Hex Head Plug | | | |
|  | ½ in | MNPT | 1CRU6 |
| | ¾ in | MNPT | 1CRG9 |
| | 1 in | MNPT | 1CRU7 |
| | 1½ in | MNPT | 1CRH1 |
| Reducing Bushing | | | |
|  | ¾ in x ½ in | FNPT x MNPT | 1CRJ1 |
| | 1 in x ½ in | MNPT x FNPT | 1CRJ2 |
| | 1 in x ¾ in | MNPT x FNPT | 1CRJ3 |
| | 1½ in x 1 in | MNPT x FNPT | 1CRJ4 |
| | 2 in x 1 in | MNPT x FNPT | 1CRJ5 |
| | 2 in x 1½ in | MNPT x FNPT | 1CRJ6 |

| | Fitting Pipe Size | Pipe Fitting Connection Type | Item No. |
|---|--------------------------|------------------------------------|-------------|
| Tee | | | |
|  | ½ in | FNPT | 1CRG4 |
| | ¾ in | FNPT | 1CRG5 |
| | 1 in | FNPT | 1CRG6 |
| | 1½ in | FNPT | 1CRG7 |
| | 2 in | FNPT | 1CRG8 |
| Union | | | |
|  | ½ in | FNPT | 1CRP9 |
| | ¾ in | FNPT | 1CRR1 |
| | 1 in | FNPT | 1CRR2 |
| | 1½ in | FNPT | 1CRR3 |
| | 2 in | FNPT | 1CRR4 |
| Socket x Socket Pipe Fittings | | | |
| 45° Elbow | | | |
|  | ½ in | F Socket | 1CRD6 |
| | ¾ in | F Socket | 1CRD7 |
| | 1 in | F Socket | 1CRD8 |
| | 1½ in | F Socket | 1CRD9 |
| | 2 in | F Socket | 1CRE1 |
| 90° Elbow | | | |
|  | ½ in | F Socket | 1CRE7 |
| | ¾ in | F Socket | 1CRE8 |
| | 1 in | F Socket | 1CRE9 |
| | 2 in | F Socket | 1CRF2 |
| | Reducing Socket Coupling | | |
|  | ½ in | F Socket | 1CRB9 |
| | ¾ in | F Socket | 1CRC1 |
| | 1 in | F Socket | 1CRC2 |
| | 1½ in | F Socket | 1CRC3 |
| | 2 in | F Socket | 1CRC4 |
| Socket Union | | | |
|  | ½ in | F Socket | 1CRP4 |
| | ¾ in | F Socket | 1CRP5 |
| | 1 in | F Socket | 1CRP6 |

| | Fitting Pipe Size | Pipe Fitting Connection Type | Item No. | |
|--|-------------------------------|------------------------------------|-------------------------------|-------------|
| Tee | | | | |
|  | ½ in | F Socket | 1CRF8 | |
| | ¾ in | F Socket | 1CRF9 | |
| | 1 in | F Socket | 1CRG1 | |
| | 2 in | F Socket | 1CRG3 | |
| Socket x Threaded Pipe Fittings | | | | |
| Adapter Coupling | | | | |
|  | ½ in | FNPT x F Socket | 1CRD1 | |
| | 1½ in | FNPT x F Socket | 1CRD4 | |
| | 2 in | F Socket x FNPT | 1CRD5 | |
| Spigot x Socket Pipe Fittings | | | | |
| Reducing Bushing | | | | |
|  | ¾ in x ½ in | M Spigot x M Socket | 1CRH4 | |
| | 1 in x ½ in | F Socket x F Spigot | 1CRH5 | |
| | 1 in x ¾ in | F Socket x F Spigot | 1CRH6 | |
| | 1½ in x 1 in | M Spigot x F Socket | 1CRH7 | |
| | 2 in x 1 in | F Socket x F Spigot | 1CRH8 | |
| | 2 in x 1½ in | M Spigot x F Socket | 1CRH9 | |
| Description | Flange Outside Diameter | No. of Bolt Holes | Max. Operating Pressure | Item No. |
| Blind Flanges | | | | |
|  | 4¼ in | 4 | — | 1CRJ7 |
| | 5 in | 4 | — | 1CRJ8 |
| | 6 in | 4 | — | 1CRJ9 |
| Butt Weld Flanges | | | | |
|  | 3½ in | 4 | 1,360 psi @ 73 °F | 1CRR5 |
| | 3¾ in | 4 | 1,360 psi @ 73 °F | 1CRR6 |
| | 4¼ in | 4 | 1,360 psi @ 73 °F | 1CRR7 |
| | 5 in | 4 | 1,360 psi @ 73 °F | 1CRR8 |
| | 6 in | 4 | 150 psi | 1CRR9 |

| Connec. Type | Max. Pressure | Pipe Size | | | | | | |
|---------------------------------|---------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|
| | | ½ in Item No. | ¾ in Item No. | 1 in Item No. | 1 ½ in Item No. | 1 ¾ in Item No. | 2 in Item No. | 3 in Item No. |
| True-Bloc Ball Valves, CHEMTROL | | | | | | | | |
| 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 |