

# Needle Valve Type 522



## General

- **Size:** ¼" – ½"
- **Material:** Glass-filled PP, PVDF Standard, PVDF-HP
- **Body:** Angle, globe
- **Connection:** Female NPT
- **Seat:** PTFE
- **Mounting Surface Thickness:** Panel ⅓" to ½"
- **Metering Thread:** 24 pitch

## Optional Features

- **Material:** PVC, CPVC

## Material Specification

PP valves shall meet ASTM D4101 Type 1 homopolymer standards. PVDF valves shall meet ASTM D3222 as pertaining to natural, unpigmented, virgin, noncompounded PVDF. Valves of all materials shall be tested in accordance to ASTM D638, ASTM D790 and be RoHS compliant.

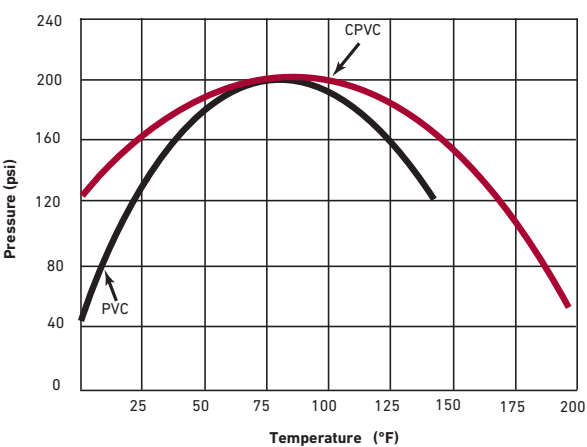
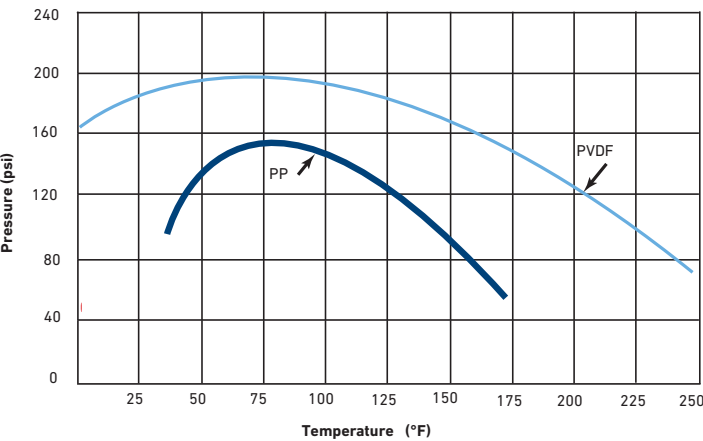
## Sample Specification

The Type 522 Needle Valve shall be available in sizes ¼", ⅜", or ½" with female NPT connections in accordance with ASTM D2464, ANSI B1.20. The body shall be of either angle or globe orientations with flow control being unidirectional but dual blocking capabilities. A embossed arrow shall indicate correct flow direction. Wetted thermoplastic components shall be of either PVDF or glass-filled PP material construction. High purity versions shall be cleaned and double bagged in Class 10,000 cleanroom environment. The seat material shall be PTFE. An integrated jam nut and threaded body shall provide a panel mount to a flat surface with a thickness of between ⅓" to ½". All valves shall be manufactured under ISO9001 for Quality and ISO14001 for Environmental Management.

# Technical Data

## Pressure Temperature Curves

The following graphs are based on a 25 year lifetime water or similar media application



## Dimensions

The following tables are shown in inches unless otherwise specified

Size (inch)	Angle Body					Globe Body			
	Inlet	Outlet	B	C	Cv	A	Inlet	Outlet	Cv
¼	0.25	0.187	1.10	1.10	0.426	2.28	0.187	0.187	0.310
⅜	0.25	0.187	1.22	1.22	0.426	2.33	0.187	0.187	0.310
½	0.25	0.218	1.28	1.28	0.780	2.59	0.218	0.218	0.620

