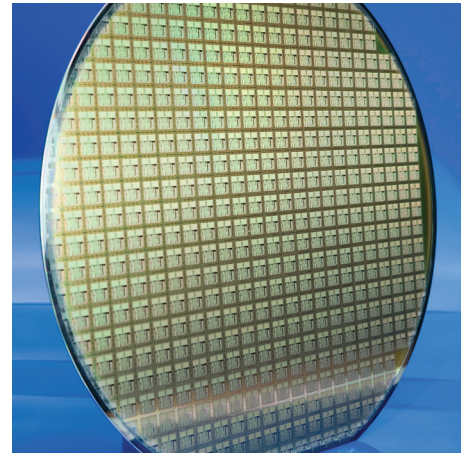


# 22 Series Valves

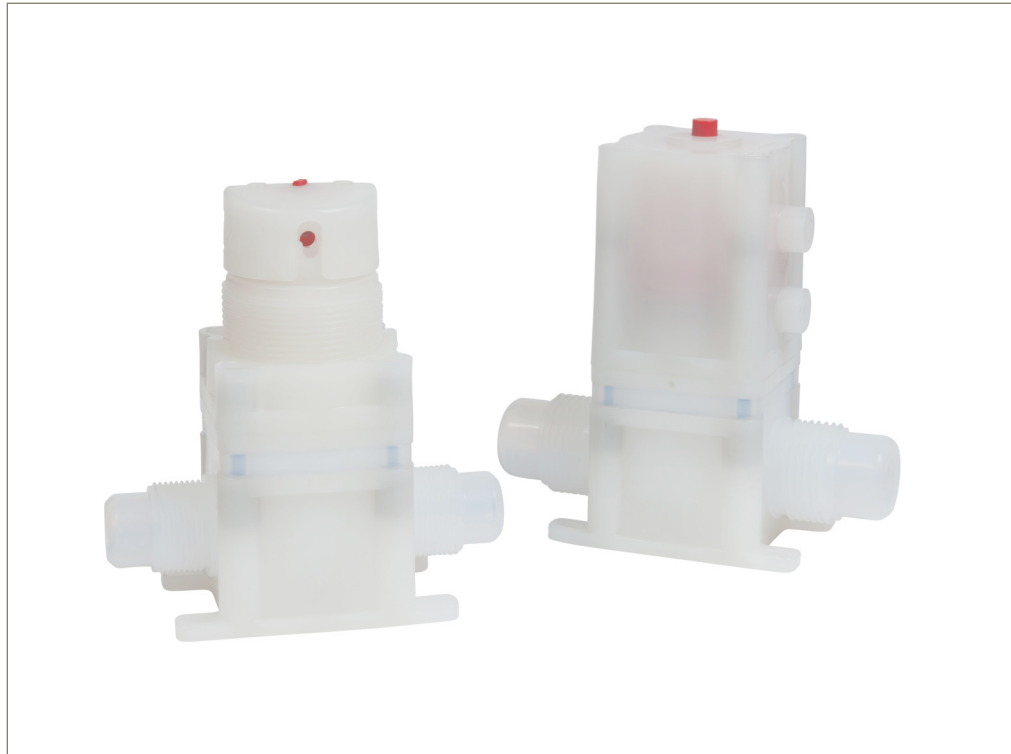
UHP Fluoropolymer Valves  
1" and 1-1/4"



## New! Ultra High Purity 22 Series Valves

These new ultra clean manual and pneumatic valves offer increased flow and provide better seat sealing for enhanced leak-free performance and greater safety. They are designed to deliver the highest flow in the smallest package available.

Computational Fluid Dynamics software was utilized to maximize the flow through these valves. The 22 Series Valve is best suited for UHP chemicals, acids, plating, and slurry.



## Contact Information:

Parker Hannifin Corporation  
**Veriflo Division**  
250 Canal Blvd  
Richmond, California 94804

phone 510 235 9590  
fax 510 232 7396  
veriflo.sales@parker.com

www.parker.com/veriflo  
Mobile App: m.parker.com/veriflo

## Product Features:

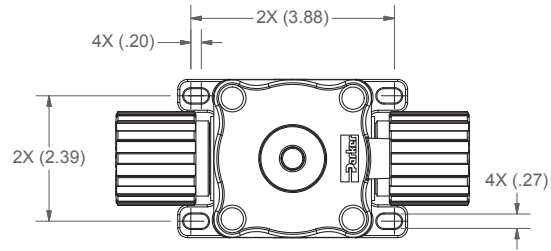
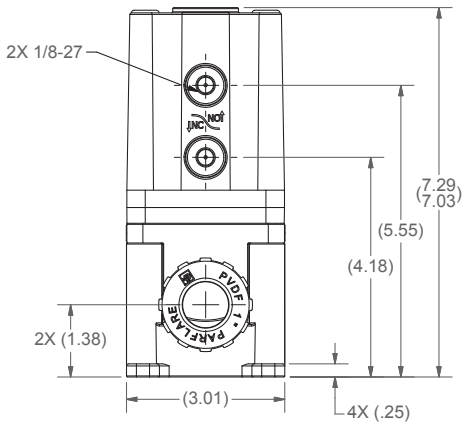
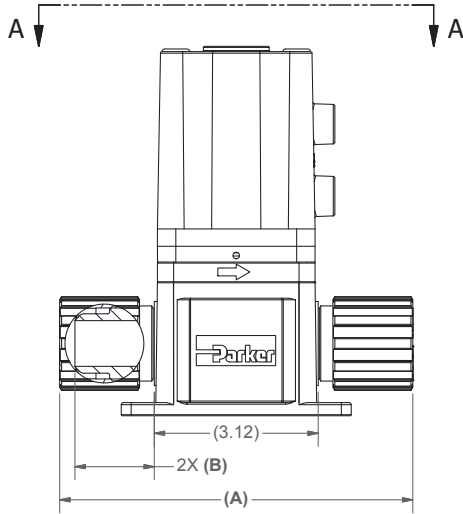
- Delivers high cycle life in acids and slurry with reduced maintenance
- Compact footprint with a true lock-out, tag-out design
- Optimized slurry design for maximum cycle life
- Dual point seal for slurry (patent pending)
- Smooth bore, and fully swept path minimize particle entrapment areas
- High flow in small package
- 100% leak tested
- Meets SEMI-F57-0301 standards



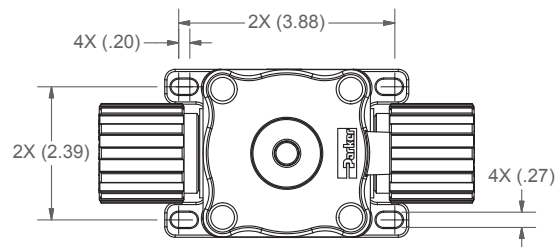
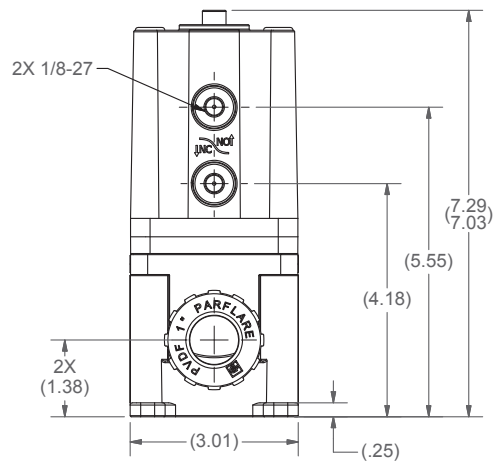
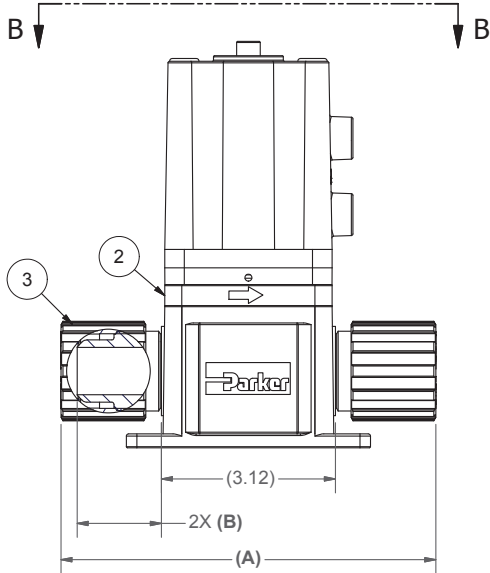
ENGINEERING YOUR SUCCESS.

# 22 Series Valves 1" and 1-1/4"

## Dimensional Drawings



Connection	A	B
1" Flare	6.72	1.51
1 1/4" Flare	7.44	1.87
1" S300	6.50	1.06
1 1/4" S300	8.02	1.50



# 22 Series Valves 1" and 1-1/4"

## Ordering Information

Build a 22 Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Sample: **PV22 16 V P 1 FL 16 FL 16 V**  
Finished: **PV2216VP1FL16FL16V**

**1 Base Model**  
PV22 = Pneumatic valve  
MV22 = Manual valve

**2 Valve Size**  
16 = 1"

**3 Valve Trim Material**  
V = PVDF  
PolyVinylidene-Fluoride

**4 Valve Housing Actuator Style**  
P = Pipe 1/8-27 FNPT  
T = Multi-turn  
S = Multi-turn panel nut

**5 Valve Style**  
0 = 2-way manual valve  
1 = Normally Closed  
2 = Normally Open

**6 Inlet End Style**  
B = Fusebond  
FL = Parflare  
SP = S300

**7 Inlet End Size**  
16 = 1"  
20 = 1-1/4"

**8 Outlet End Style**  
B = Fusebond  
FL = Parflare  
SP = S300

**9 Outlet End Size**  
16 = 1"  
20 = 1-1/4"

**10 Nut Material**  
V = PVDF  
T = PFA  
C = Clicker ring only for S300  
S = S300

# 22 Series Valves 1" and 1-1/4"

## Specifications

<b>Materials of Construction</b>	
<b>Wetted</b>	
Body	PFA
Diaphragm	Modified PTFE
<b>Non-wetted</b>	
Housing, Lever	PVDF
Spring	SS, Fluoropolymer coated
Screws	SS
<b>Operating Conditions</b>	
(Operating limits based upon pressure applied at inlet port.)	
Maximum Pressure	100 psig forward / 80 psig backward
Minimum Pressure	Vacuum
Actuation Pressure	60 to 100 psig
Media Temperature	0° to 100°C/32° to 212°F
Storage Temperature	-40° to 65°C/-40° to 150°F
Environment Temp	0°F to 120°F

<b>Functional Performance</b>	
Proof Pressure	120 psig
Burst Pressure	200 psig
<b>Flow Capacity</b>	
1" Flare	11.8
1-1/4" Flare	12.9
<b>Leak Rate</b>	
Internal	No bubbles 30 sec, N <sub>2</sub> gas
External	Bubble tight

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