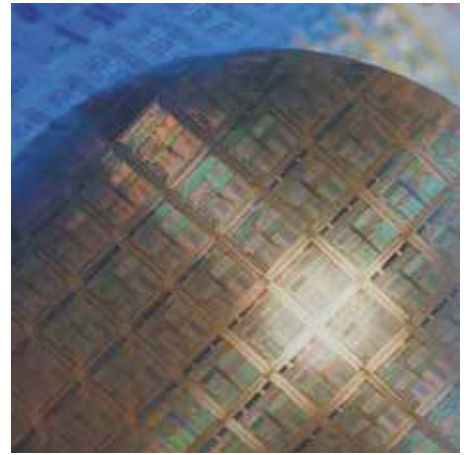


22 Series Valves

UHP Fluoropolymer Valves
1/4" and 3/8"



New! Ultra High Purity Fluoropolymer Valves

These new ultra clean 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.

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



Contact Information:

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Product Features:

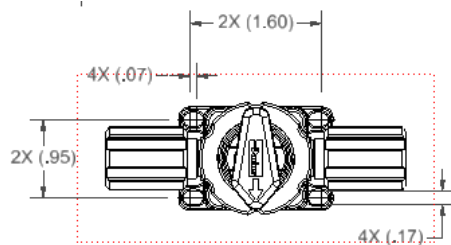
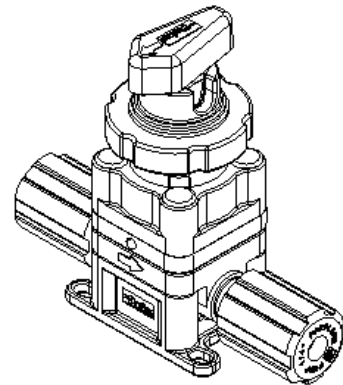
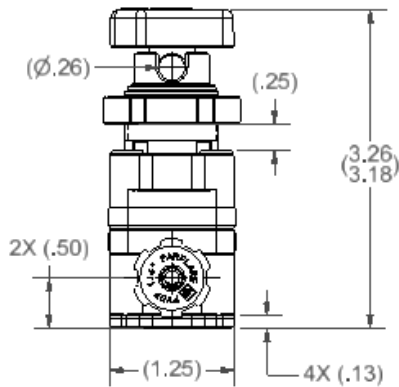
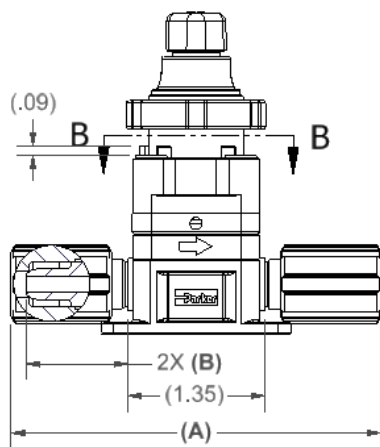
- Delivers high cycle life in acids and slurry with reduced maintenance
- Compact footprint
- Manual valve comes with a true lock-out, tag-out design
- Optimized slurry design for maximum cycle life
- Dual point seal for slurry (patent pending)
- Smooth bore, and fully swept path minimize particle entrapment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



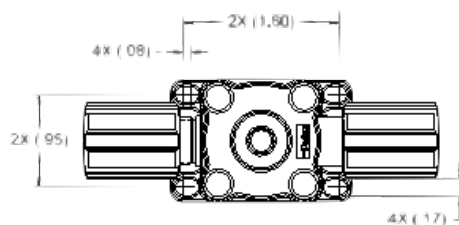
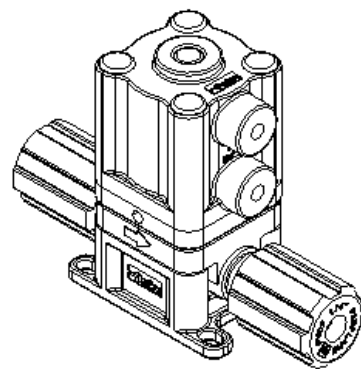
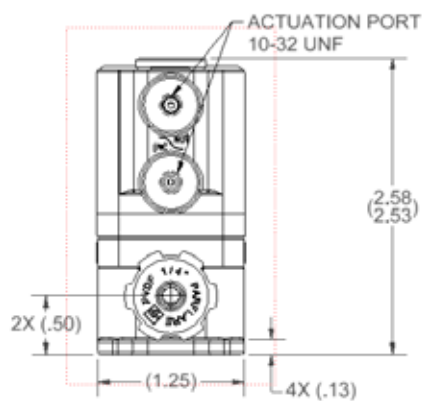
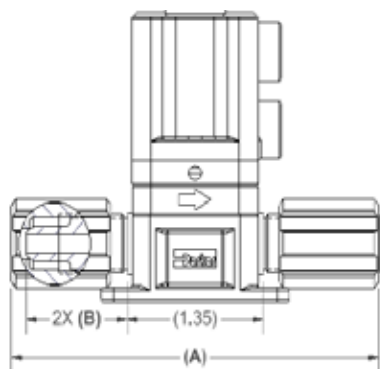
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22 Series Valves 1/4" and 3/8"

Dimensional Drawings



Connection	A	B
1/4" Flare	3.65	1.00
3/8" Flare	3.81	1.08



22 Series Valves 1/4" and 3/8"

Ordering Information

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

Sample:  **PV22**  **04**  **V**  **N**  **I**  **FL**  **04**  **FL**  **04**  **V** 



Base Model

PV22 = Pneumatic valve

MV22 = Manual valve



Valve Size

04 = 1/4"



Valve Trim Material

V = PVDF

PolyVinylidene-Fluoride



Valve Housing Actuator Style

N = Standard,
specific to each valve size

P = Pipe 1/8-27 FNPT,
specific to each valve size



Valve Style

0 = 2-way manual valve

1 = Normally Closed

2 = Normally Open



Inlet End Style

FL = Parflare



Inlet End Size

04 = 1/4"

06 = 3/8"



Outlet End Style

FL = Parflare



Outlet End Size

04 = 1/4"

06 = 3/8"



Nut Type

V = PVDF

T = PFA



Specials

01 = NPN Sensor

02 = PNP Sensor

**Panel mount nut sold separately
PN-2204 = 1/4" 22 panel mount nut*

Part Number	Nominal Valve Size	Valve Trim Material	Actuator Connection	Valve Type	Inlet End Style	Inlet Size	Outlet End Style	Outlet End Size	Nut Type
PV2204VN1FL04FL04T	1/4"	PVDF	10-32	Normally Closed	Flare	1/4"	Flare	1/4"	PFA
PV2204VN1FL04FL04V	1/4"	PVDF	10-32	Normally Closed	Flare	1/4"	Flare	1/4"	PVDF
PV2204VN1FL06FL06T	1/4"	PVDF	10-32	Normally Closed	Flare	3/8"	Flare	3/8"	PFA
PV2204VN1FL06FL06V	1/4"	PVDF	10-32	Normally Closed	Flare	3/8"	Flare	3/8"	PVDF
PV2204VN2FL04FL04T	1/4"	PVDF	10-32	Normally Open	Flare	1/4"	Flare	1/4"	PFA
PV2204VN2FL04FL04V	1/4"	PVDF	10-32	Normally Open	Flare	1/4"	Flare	1/4"	PVDF
PV2204VN2FL06FL06T	1/4"	PVDF	10-32	Normally Open	Flare	3/8"	Flare	3/8"	PFA
PV2204VN2FL06FL06V	1/4"	PVDF	10-32	Normally Open	Flare	3/8"	Flare	3/8"	PVDF

22 Series Valves 1/4" and 3/8"

Specifications

Materials of Construction		Functional Performance	
Wetted		Proof Pressure	120 psig
Body	PFA	Burst Pressure	200 psig
Diaphragm	Modified PTFE	Flow Capacity	
Non-wetted		1/4" Flare	0.33
Housing, Lever	PVDF	3/8" Flare	0.82
Spring	SS, Fluoropolymer coated	Leak Rate	
Screws	SS	Internal	No bubbles 30 sec, N2 gas
Operating Conditions (Operating limits based upon pressure applied at inlet port.)		External	Bubble tight
Maximum Pressure	80 psig		
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		

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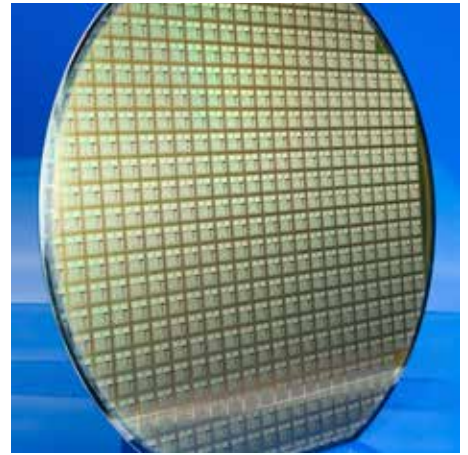
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22 Series Valves

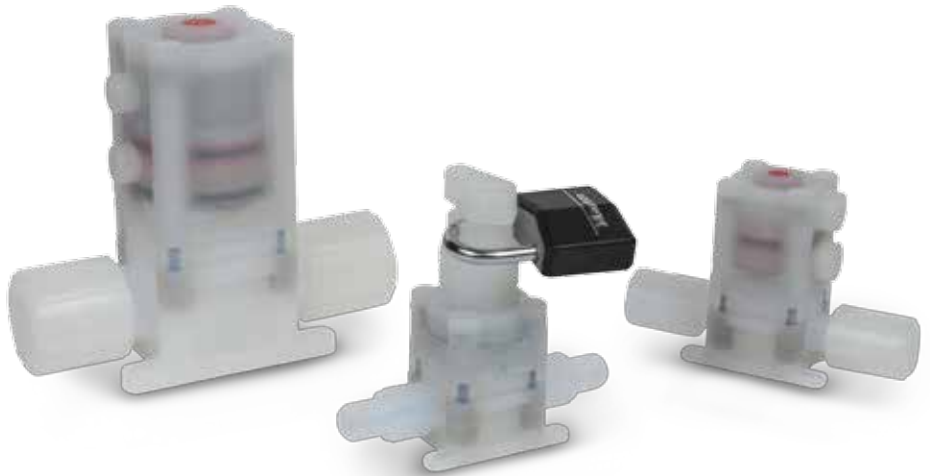
UHP Fluoropolymer Valves
1/2" and 3/4"



New! Ultra High Purity Fluoropolymer Valves

These new ultra clean 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.

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



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Product Features:

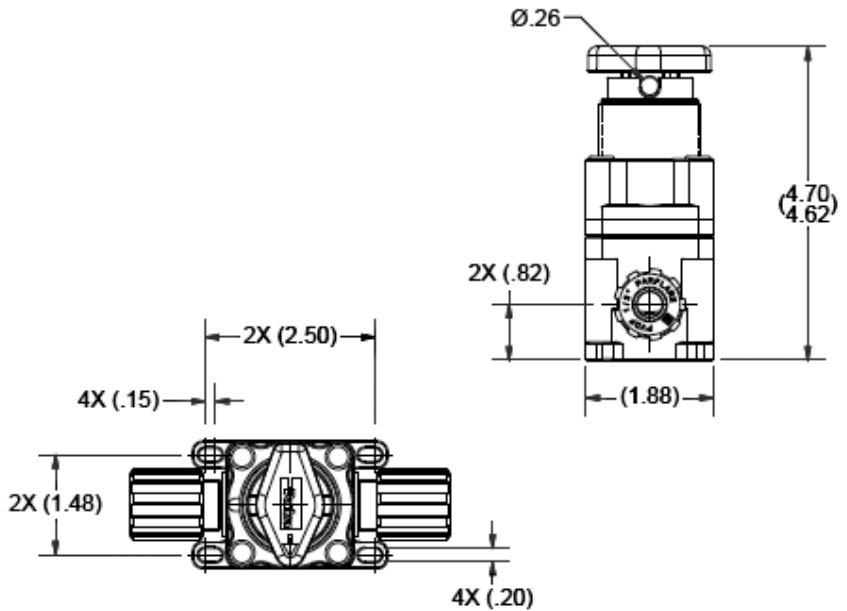
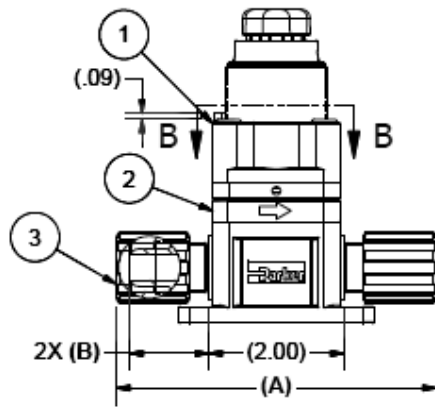
- Delivers high cycle life in acids and slurry with reduced maintenance
- Compact footprint
- Manual valve comes with a true lock-out, tag-out design
- Optimized slurry design for maximum cycle life
- Dual point seal for slurry (patent pending)
- Smooth bore, and fully swept path minimize particle entrapment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



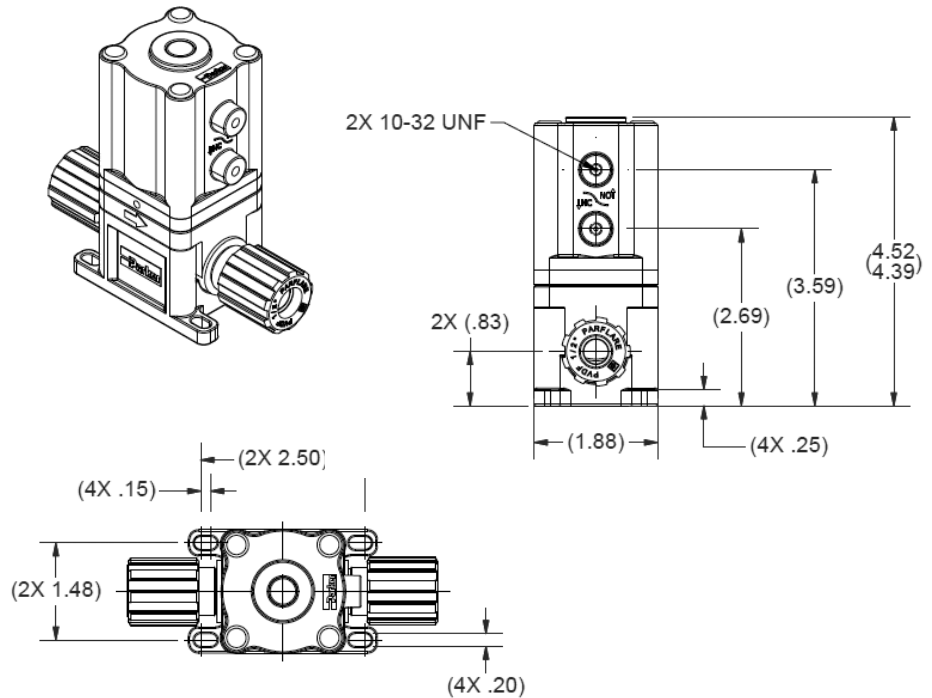
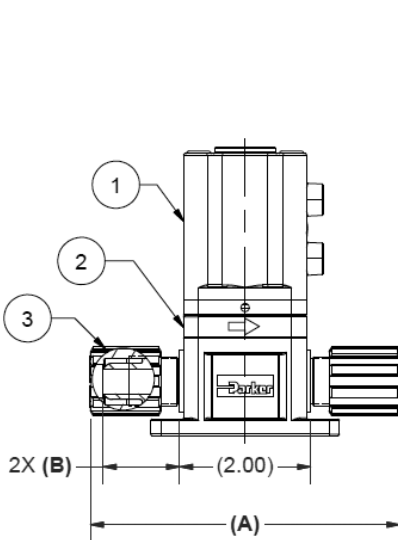
ENGINEERING YOUR SUCCESS.

22 Series Valves 1/2" and 3/4"

Dimensional Drawings



Connection	A	B
1/2" Flare	4.72	1.17
3/4" Flare	4.9	1.08



VIEW B

22 Series Valves 1/2" and 3/4"

Ordering Information

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

Sample:  **PV22**  **08**  **V**  **N**  **I**  **FL**  **08**  **FL**  **08**  **V** 



Base Model

PV22 = Pneumatic valve
MV22 = Manual valve



Valve Size

08 = 1/2"



Valve Trim Material

V = PVDF
PolyVinylidene-Fluoride



Valve Housing Actuator Style

N = Standard,
specific to each valve size
P = Pipe 1/8-27 FNPT,
specific to each valve size



Valve Style

0 = 2-way manual valve
1 = Normally Closed
2 = Normally Open



Inlet End Style

FL = Parflare



Inlet End Size

08 = 1/2"



Outlet End Style

FL = Parflare



Outlet End Size

08 = 1/2"



Nut Type

V = PVDF
T = PFA



Specials

**Panel mount nut sold separately
PN-2208 = 1/2" 22 series panel
mount nut*

Part Number	Nominal Valve Size	Valve Trim Material	Actuator Connection	Valve Type	Inlet End Style	Inlet Size	Outlet End Style	Outlet End Size	Nut Type
PV2208VN1FL08FL08T	1/2"	PVDF	10-32	Normally Closed	Flare	1/2"	Flare	1/2"	PFA
PV2208VN1FL08FL08V	1/2"	PVDF	10-32	Normally Closed	Flare	1/2"	Flare	1/2"	PVDF
PV2208VN1FL12FL12T	1/2"	PVDF	10-32	Normally Closed	Flare	3/4"	Flare	3/4"	PFA
PV2208VN1FL12FL12V	1/2"	PVDF	10-32	Normally Closed	Flare	3/4"	Flare	3/4"	PVDF
PV2208VN2FL08FL08T	1/2"	PVDF	10-32	Normally Open	Flare	1/2"	Flare	1/2"	PFA
PV2208VN2FL08FL08V	1/2"	PVDF	10-32	Normally Open	Flare	1/2"	Flare	1/2"	PVDF
PV2208VN2FL12FL12T	1/2"	PVDF	10-32	Normally Open	Flare	3/4"	Flare	3/4"	PFA
PV2208VN2FL12FL06V	1/2"	PVDF	10-32	Normally Open	Flare	3/4"	Flare	3/4"	PVDF

22 Series Valves 1/2" and 3/4"

Specifications

Materials of Construction	
Wetted	
Body	PFA
Diaphragm	Modified PTFE
Non-wetted	
Housing, Lever	PVDF
Spring	SS, Fluoropolymer coated
Screws	SS
Operating Conditions	
(Operating limits based upon pressure applied at inlet port.)	
Maximum Pressure	80 psig
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

Functional Performance	
Proof Pressure	120 psig
Burst Pressure	200 psig
Flow Capacity	
1/2" Flare	2.3
3/4" Flare	4.3
Leak Rate	
Internal	No bubbles 30 sec, N2 gas
External	Bubble tight

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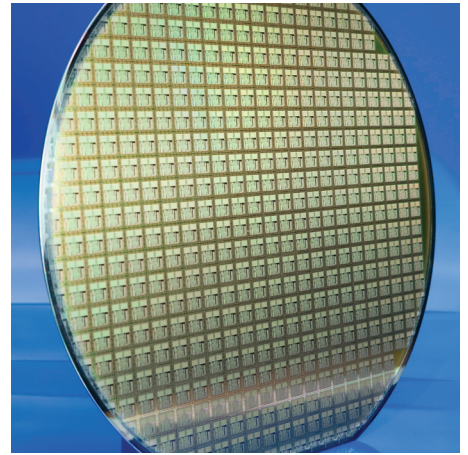
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22 Series Valves

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.



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Product Features:

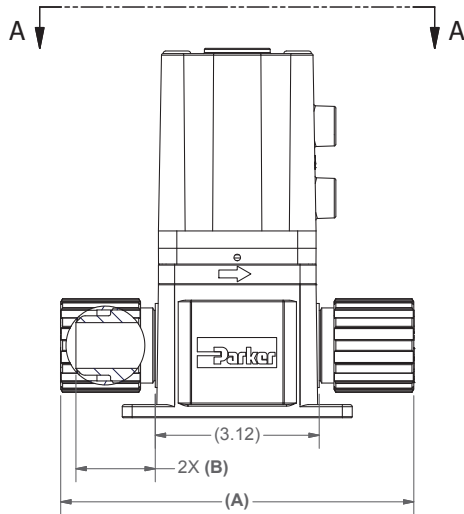
- Delivers high cycle life in acids and slurry with reduced maintenance
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- Dual point seal for slurry (patent pending)
- Smooth bore, and fully swept path minimize particle entrapment areas
- High flow in small package
- 100% leak tested
- Meets SEMI-F57-0301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



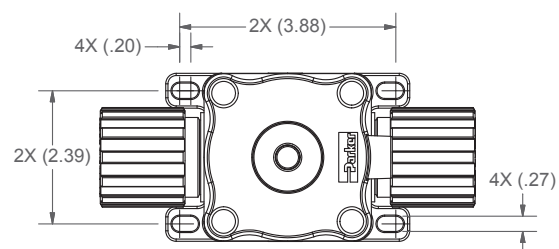
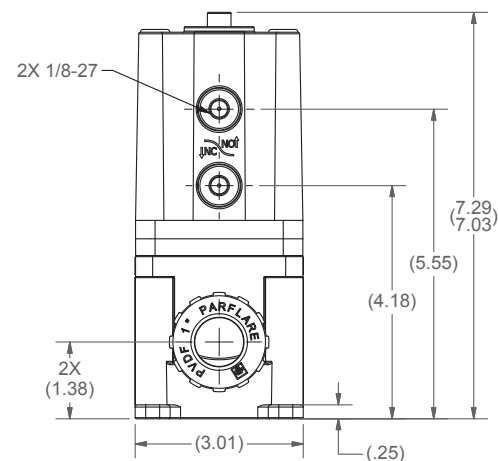
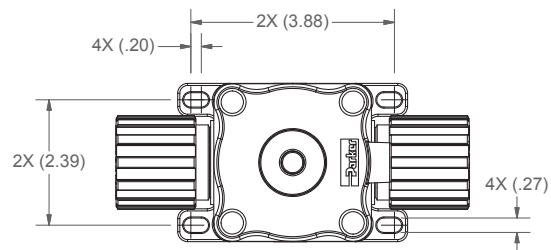
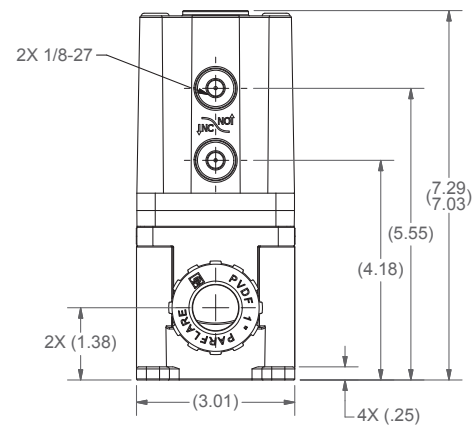
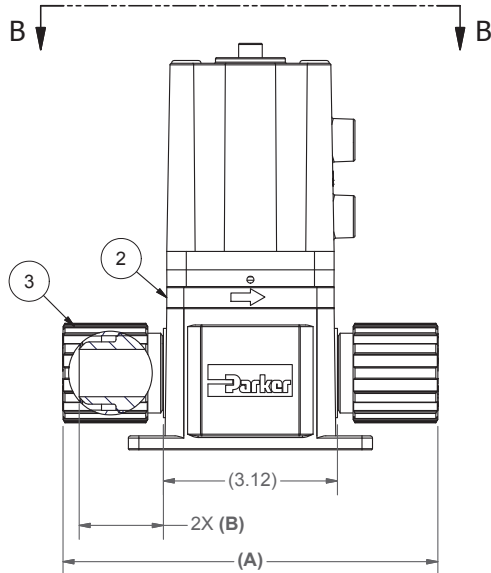
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22 Series Valves 1" and 1-1/4"

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									



Base Model

PV22 = Pneumatic valve
MV22 = Manual valve



Valve Size

16 = 1"



Valve Trim Material

V = PVDF
PolyVinylidene-Fluoride



Valve Housing Actuator Style

P = Pipe 1/8-27 FNPT
T = Multi-turn
S = Multi-turn panel nut



Valve Style

0 = 2-way manual valve
1 = Normally Closed
2 = Normally Open



Inlet End Style

B = Fusebond
FL = Parflare
SP = S300



Inlet End Size

16 = 1"
20 = 1-1/4"



Outlet End Style

B = Fusebond
FL = Parflare
SP = S300



Outlet End Size

16 = 1"
20 = 1-1/4"



Nut Material

V = PVDF
T = PFA
C = Clicker ring only for S300
S = S300

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

Specifications

Materials of Construction	
Wetted	
Body	PFA
Diaphragm	Modified PTFE
Non-wetted	
Housing, Lever	PVDF
Spring	SS, Fluoropolymer coated
Screws	SS
Operating Conditions	
(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

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

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