

TECHNICAL SPECIFICATIONS

NOTE: All pressure ratings for BLACOH products are determined using gauge pressure gauges. This means that when the gauge needle reads zero it is at atmospheric pressure. BLACOH does not use absolute pressure gauges which would read approximately 14.7 psi at atmospheric pressure.

CAUTION: Stated max pressure is for ambient temperatures; max pressure not available on all models. Temperature ranges based on available materials. Consult BLACOH for specific ratings.

Plastic

Max Pressure:

100 - 200 psi (6.9 -17.2 bar)

Capacity:

4 cu in - 5 gal (.066 - 19L)

Materials:

Polypropylene

Conductive Polypropylene **PVC and CPVC** Conductive Acetal **PVDF** Machined PTFE

Metal

Max Pressure:

300 psi (20.7 bar)

Capacity:

4 cu in - 100 gal (.066 - 379L)

Materials:

Aluminum

Hastellov C Carbon Steel

316L Stainless Steel

Alloy 20

Epoxy, PVDF and PTFE Coated Steel

High Pressure

Max Pressure:

11,500 psi (793 bar)

Capacity:

8 - 24 cu in (.13 - .39L)

Materials:

Carbon Steel

316L Stainless Steel Hastelloy C

Alloy 20

Sanitary

Max Pressure:

1,000 psi (68.9 bar)

Capacity:

4 cu in - 10 gal (.066 - 38L)

Shell Materials:

30 or better RA Polished 316L Stainless Steel

Bead Blasted 316L Stainless Steel

CIP Sanitary Flow Through Dampener with USP Class VI Silicone Bladder

Max Pressure:

150 psi (10.3 bar)

Capacity:

275 cu in (4.5L)

Shell Materials:

30 or better RA Polished 316L Stainless Steel

Temperature:

-20°F to +250°F (-29°C to +121°C)

Inlet Ports:

Threaded: FNPT, BSP Flanged: ANSI, DIN, Socket

Temperature:

-60°F to +400°F (-51°C to +204°C)

Inlet Ports:

Threaded: FNPT, BSP Flanged: ANSI, DIN, Socket

Temperature:

-60°F to +225°F (-51°C to +107°C)

Inlet Ports:

Threaded: FNPT Flanged: ANSI (Custom ports available on request)

Temperature:

-20°F to +350°F (-29°C to +177°C)

Inlet Ports:

Tri-Clamp Sanitary Fitting

Temperature:

-20°F to +300°F (-29°C to +149°C)

Inlet Ports:

2.5" Tri-Clamp Sanitary Fitting

PTFE

Max Pressure:

100 psi (6.9 bar)

Capacity:

4 - 370 cu in (.07 - 6L)

Shell Materials: Machined PTFE

acity.

Temperature:

+40°F to +220°F (+4°C to +104°C)

Inlet Ports:

Threaded: FNPT, BSP

Flanged: ANSI, DIN, Metric Flare Type

Tef-Guard HP II Unique PTFE Diaphragm Design

Max Pressure:

2,000 psi (137.9 bar)

Capacity:

14 cu in (.23L)

Materials:

316L Stainless Steel Carbon Steel Alloy 20 Hastelloy C Temperature:

+40°F to +220°F (+4°C to +104°C)

Inlet Ports:

Threaded: FNPT Flanged: ANSI

Bladder Options

| Elastomers | Temperature Limits | Applications |
|--------------------------|-----------------------------------|--|
| Aflas | 0°F to +400°F (-18°C to +204°C) | High temperature, petroleum based chemicals, strong acids and bases. |
| Buna | +10°F to +180°F (-12°C to +82°C) | Good flex life; use with petroleum, solvents and oil-based fluids. |
| FDA Buna | +10°F to +180°F (-12°C to +82°C) | FDA-approved food grade; similar characteristics of regular Buna. |
| EPDM | -60°F to +280°F (-51°C to +138°C) | Use in extreme cold; good chemical resistance with ketones, caustics. |
| Hypalon | -20°F to +275°F (-29°C to +135°C) | Excellent abrasion resistance; good in aggressive acid applications. |
| Neoprene | 0°F to +200°F (-18°C to +93°C) | Good abrasion resistance and flex; use with moderate chemicals. |
| PTFE | +40°F to +220°F (+4°C to +104°C) | Bellows design; excellent flex life; use with highly aggressive fluids. |
| Santoprene | -20°F to +225°F (-29°C to +107°C) | Excellent choice as a low cost alternative for PTFE in many applications. |
| FDA Silicone | -20°F to +300°F (-29°C to +149°C) | FDA-approved food grade material; for use in food and pharmaceutical processing. |
| USP Class VI Silicone | -20°F to +300°F (-29°C to +149°C) | Pharmaceutical grade material; for use in food and pharmaceutical processing. |
| Viton [®] | -10°F to +350°F (-23°C to +177°C) | Use in hot and aggressive fluids; good with aromatics, solvents, acids and oils. |

Although BLACOH provides certain generic information concerning operating pressures in ambient temperatures (i.e. 72°F or 22°C) and certain generic information concerning chemical compatibility, the user is solely responsible for determining whether this generic information is correct and applicable for the customer's intended use of a dampener. Additional information can be found on BLACOH's website at http://blacoh.com/disclaimer.aspx.

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