



PRICE LIST 2016

effective September 1, 2016



SENTINEL™ Back Pressure Valves
SENTINEL™ Pressure Relief Valves
SENTINEL™ Calibration Columns
SENTINEL™ Injection Quills

BLACOH™
INDUSTRIES

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Note for all Back Pressure Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- Diaphragm materials available: ** = PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)



Back Pressure Valves: NPT Connections or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP-025-*-**	1/4"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-038-*-**	3/8"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-049-*-**	1/2" mini	YES	YES	YES	YES	YES	YES	YES	YES
VBP-050-*-**	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-075-*-**	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-100-*-**	1"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-150-*-**	1.5"	YES	YES	YES	YES	YES	YES	YES	YES
VBP-200-*-**	2"	YES	YES	YES	YES	YES	YES	YES	YES

Back Pressure Valves: Flanged ANSI 150# Connections (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP-049-*-**-F	1/2" mini	YES	YES	YES	YES	YES	YES	CF	CF
VBP-050-*-**-F	1/2"	YES	YES	YES	YES	YES	YES	CF	CF
VBP-075-*-**-F	3/4"	YES	YES	YES	YES	YES	YES	CF	CF
VBP-100-*-**-F	1"	YES	YES	YES	YES	YES	YES	CF	CF
VBP-150-*-**-F	1.5"	YES	YES	CF	YES	NA	YES	CF	CF
VBP-200-*-**-F	2"	YES	YES	CF	YES	NA	YES	CF	CF

Back Pressure Valves: 3" & 4" Flanged Only (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP-300-*-**-F	3"	YES	YES	CF	CF	NA	YES	CF	CF
VBP-400-*-**-F	4"	YES	YES	CF	CF	NA	YES	CF	CF

CF= Consult Factory, NA= Not Available

Note for all Back Pressure Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- Diaphragm materials available: ** = PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)



Back Pressure Valves: Right Angle 90° NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP90-025-*-**	1/4"	YES	YES	YES	YES	YES	YES	YES	YES
VBP90-038-*-**	3/8"	YES	YES	YES	YES	YES	YES	YES	YES
VBP90-049-*-**	1/2" mini	YES	YES	YES	YES	YES	YES	YES	YES
VBP90-050-*-**	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VBP90-075-*-**	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VBP90-100-*-**	1"	YES	YES	YES	YES	YES	YES	YES	YES

Back Pressure Valves: Right Angle 90° #150 ANSI Flanged (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP90-049-*-**-F	1/2" mini	YES	YES	YES	YES	YES	YES	CF	CF
VBP90-050-*-**-F	1/2"	YES	YES	YES	YES	YES	YES	CF	CF
VBP90-075-*-**-F	3/4"	YES	YES	YES	YES	YES	YES	CF	CF
VBP90-100-*-**-F	1"	YES	YES	YES	YES	YES	YES	CF	CF

Back Pressure Valves: High Pressure 50-350 PSI, NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP-025-*-**-H	1/4"	NA	NA	NA	NA	NA	YES	YES	YES
VBP-038-*-**-H	3/8"	NA	NA	NA	NA	NA	YES	YES	YES
VBP-049-*-**-H	1/2" mini	NA	NA	NA	NA	NA	YES	YES	YES
VBP-050-*-**-H	1/2"	NA	NA	NA	NA	NA	YES	YES	YES
VBP-075-*-**-H	3/4"	NA	NA	NA	NA	NA	YES	YES	YES
VBP-100-*-**-H	1"	NA	NA	NA	NA	NA	YES	YES	YES

CF= Consult Factory, NA= Not Available

Note for all Back Pressure Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- Diaphragm materials available: ** = PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)

**Back Pressure Valves: High Flow NPT or Socket (-SW)**

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBPHF-050-*-*	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VBPHF-075-*-*	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VBPHF-100-*-*	1"	YES	YES	YES	YES	YES	YES	YES	YES

Back Pressure Valves: Unibody Series

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VB PUB-050-*-*	1/2"	YES	YES	CF	CF	NA	NA	NA	NA
VB PUB-075-*-*	3/4"	YES	YES	CF	CF	NA	NA	NA	NA
VB PUB-100-*-*	1"	YES	YES	CF	CF	NA	NA	NA	NA

Back Pressure Valves: Union Connections (-U)

Standard O-Ring is Viton

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VBP-049-*-*U	1/2" mini	YES	YES	CF	CF	NA	NA	NA	NA
VBP-050-*-*U	1/2"	YES	YES	CF	CF	NA	NA	NA	NA
VBP-075-*-*U	3/4"	YES	YES	CF	CF	NA	NA	NA	NA
VBP-100-*-*U	1"	YES	YES	CF	CF	NA	NA	NA	NA
VBP-150-*-*U	1.5"	YES	YES	CF	CF	NA	NA	NA	NA
VBP-200-*-*U	2"	YES	YES	CF	CF	NA	NA	NA	NA

CF= Consult Factory, NA= Not Available

Note for all Pressure Relief Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- All 1.5", 2", 3" & 4" Pressure Relief Valves are two port connections.
- Diaphragm materials available: **= PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)



Pressure Relief Valves: NPT Connections or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR-025-*-**	1/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-038-*-**	3/8"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-049-*-**	1/2" mini	YES	YES	YES	YES	YES	YES	YES	YES
VPR-050-*-**	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-075-*-**	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-100-*-**	1"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-150-*-**	1.5"	YES	YES	YES	YES	YES	YES	YES	YES
VPR-200-*-**	2"	YES	YES	YES	YES	YES	YES	YES	YES

Pressure Relief Valves: Flanged ANSI 150# Connections (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR-049-*-**-F	1/2" mini	YES	YES	YES	YES	YES	YES	CF	CF
VPR-050-*-**-F	1/2"	YES	YES	YES	YES	YES	YES	CF	CF
VPR-075-*-**-F	3/4"	YES	YES	YES	YES	YES	YES	CF	CF
VPR-100-*-**-F	1"	YES	YES	YES	YES	YES	YES	CF	CF
VPR-150-*-**-F	1.5"	YES	YES	CF	YES	NA	YES	CF	CF
VPR-200-*-**-F	2"	YES	YES	CF	YES	NA	YES	CF	CF

Pressure Relief Valves: 3" & 4" Flanged Only (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR-300-*-**-F	3"	YES	YES	CF	CF	NA	YES	CF	CF
VPR-400-*-**-F	4"	YES	YES	CF	CF	NA	YES	CF	CF

CF= Consult Factory, NA= Not Available

Note for all Pressure Relief Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- All 1.5", 2", 3" & 4" Pressure Relief Valves are two port connections.
- Diaphragm materials available: **= PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)



Pressure Relief Valves: Right Angle 90° NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR90-025-*-**	1/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-038-*-**	3/8"	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-049-*-**	1/2" mini	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-050-*-**	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-075-*-**	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-100-*-**	1"	YES	YES	YES	YES	YES	YES	YES	YES
VPR90-150-*-**	1.5"	CF	CF	CF	CF	CF	CF	CF	CF
VPR90-200-*-**	2"	CF	CF	CF	CF	CF	CF	CF	CF

Pressure Relief Valves: Right Angle 90° ANSI 150# Flanged (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR90-050-*-**F	1/2"	YES	YES	YES	YES	YES	YES	CF	CF
VPR90-075-*-**F	3/4"	YES	YES	YES	YES	YES	YES	CF	CF
VPR90-100-*-**F	1"	YES	YES	YES	YES	YES	YES	CF	CF
VPR90-150-*-**F	1.5"	CF	CF	CF	CF	CF	CF	CF	CF
VPR90-200-*-**F	2"	CF	CF	CF	CF	CF	CF	CF	CF

Pressure Relief Valves: High Flow 2-Port NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPRHF-025-*-**	1/2"	NA	NA	NA	NA	NA	NA	YES	YES
VPRHF-075-*-**	3/4"	NA	NA	NA	NA	NA	NA	YES	YES
VPRHF-100-*-**	1"	NA	NA	NA	NA	NA	NA	YES	YES

CF= Consult Factory, NA= Not Available

Note for all Pressure Relief Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- All 1.5", 2", 3" & 4" Pressure Relief Valves are two port connections.
- Diaphragm materials available: **= PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)



Pressure Relief Valves: High Pressure 50-350 PSI, NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR-025-*-**-H	1/4"	NA	NA	NA	NA	NA	YES	YES	YES
VPR-038-*-**-H	3/8"	NA	NA	NA	NA	NA	YES	YES	YES
VPR-049-*-**-H	1/2" mini	NA	NA	NA	NA	NA	YES	YES	YES
VPR-050-*-**-H	1/2"	NA	NA	NA	NA	NA	YES	YES	YES
VPR-075-*-**-H	3/4"	NA	NA	NA	NA	NA	YES	YES	YES
VPR-100-*-**-H	1"	NA	NA	NA	NA	NA	YES	YES	YES

Pressure Relief Valves: 2 Port NPT or Socket (-SW)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR2P-025-*-**	1/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR2P-038-*-**	3/8"	YES	YES	YES	YES	YES	YES	YES	YES
VPR2P-049-*-**	1/2" mini	YES	YES	YES	YES	YES	YES	YES	YES
VPR2P-050-*-**	1/2"	YES	YES	YES	YES	YES	YES	YES	YES
VPR2P-075-*-**	3/4"	YES	YES	YES	YES	YES	YES	YES	YES
VPR2P-100-*-**	1"	YES	YES	YES	YES	YES	YES	YES	YES

Pressure Relief Valves: 2 Port Flanged #150 ANSI (-F)

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR2P-049-*-**-F	1/2" mini	YES	YES	YES	YES	YES	YES	CF	CF
VPR2P-050-*-**-F	1/2"	YES	YES	YES	YES	YES	YES	CF	CF
VPR2P-075-*-**-F	3/4"	YES	YES	YES	YES	YES	YES	CF	CF
VPR2P-100-*-**-F	1"	YES	YES	YES	YES	YES	YES	CF	CF
VPR2P-150-*-**-F	1.5"	CF	CF	CF	CF	CF	CF	CF	CF
VPR2P-200-*-**-F	2"	CF	CF	CF	CF	CF	CF	CF	CF

CF= Consult Factory, NA= Not Available

Note for all Pressure Relief Valves:

- All valves come with PVC top. Stainless or CPVC also available upon request.
- All valves come with standard 5-150 PSI spring. If low pressure, 5-50 PSI (L) is required, add -L to end of part number. No price adder.
- BSP connections also available on select models (-BSP)
- All 1.5", 2", 3" & 4" Pressure Relief Valves are two port connections.
- Diaphragm materials available: **= PTFE (-T), Viton (-V), EPDM (-E)
- **Part Number: *-** = Body material followed by diaphragm material** (example: -PVC-T)

**Pressure Relief Valves: Union Connections (-U)**

Standard O-Ring is Viton

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR-049-*-**-U	1/2" mini	YES	YES	CF	CF	NA	NA	NA	NA
VPR-050-*-**-U	1/2"	YES	YES	CF	CF	NA	NA	NA	NA
VPR-075-*-**-U	3/4"	YES	YES	CF	CF	NA	NA	NA	NA
VPR-100-*-**-U	1"	YES	YES	CF	CF	NA	NA	NA	NA
VPR-150-*-**-U	1.5"	YES	YES	CF	CF	NA	NA	NA	NA
VPR-200-*-**-U	2"	YES	YES	CF	CF	NA	NA	NA	NA

Pressure Relief Valves: Right Angle 90° Union (-U)

Standard O-Ring is Viton

Part No.	Size	PVC (PVC)	CPVC (CPVC)	PP (PP)	PVDF (PVDF)	PTFE (PTFE)	316 SS (SS)	Alloy 20 (A20)	Hast C (H276)
VPR90-049-*-**-U	1/2" mini	YES	YES	CF	CF	NA	NA	NA	NA
VPR90-050-*-**-U	1/2"	YES	YES	CF	CF	NA	NA	NA	NA
VPR90-075-*-**-U	3/4"	YES	YES	CF	CF	NA	NA	NA	NA
VPR90-100-*-**-U	1"	YES	YES	CF	CF	NA	NA	NA	NA
VPR90-150-*-**-U	1.5"	YES	YES	CF	CF	NA	NA	NA	NA
VPR90-200-*-**-U	2"	YES	YES	CF	CF	NA	NA	NA	NA

CF= Consult Factory, NA= Not Available