

Defender[®]

Pinch Valves PB, PBH

Heavy duty pinch valves engineered for the most challenging slurries.



Engineered by **B|E|A|V|E|R**

Defender Pinch Valves

PB, PBH

Heavy duty pinch valves engineered for the most challenging slurries.

Premium build quality, faster maintenance, and the longest lasting sleeve life of any pinch valve.

Defender pinch valves are engineered to control and stop the flow of challenging slurries. Two solid bars compress the sleeve at the centre line for bubble-tight isolation, preventing slurry leaks and ensuring unobstructed flow when open.



Longest Lasting Sleeve

Defender sleeves are custom made from Defender Grade-A rubber with multiple wear-resistant and structural support layers. This makes them more robust and longer lasting than any other pinch valve sleeve.

Faster Maintenance

Split frame design enables faster sleeve replacement than conventional pinch valves. Adjoining pipework fits directly to the sleeve's integral flange, no need for additional seals or gaskets.

Premium Build Quality

Engineered to be stronger and longer lasting than other pinch valves. A heavy duty reinforced frame built with higher-quality components makes it the most rugged valve on the market.

Custom Made to Fit

Defender pinch valves are manufactured as standard in Defender face to face sizing and EN778 to suit diaphragm replacement. For other size requirements, they can be custom made.

Thicker frame

Engineered to be the strongest pinch valve on the market. Built with heavy duty steel.

Customisable sleeve

To suit specific slurry conditions and precise flow coefficients.

Rugged support rods

Machined from solid stainless steel for unrivalled durability.

Straight-through design

No scale and seat build up and the lowest pressure drop of any control valve.

Split frame design

For fast and easy sleeve replacement and maintenance.

Single wearing component

The only component in contact with the slurry is the sleeve, which simplifies maintenance and extends valve life.

Anti-vacuum sleeve tabs

Prevents sleeve from collapsing due to vacuum pressure

External flanges

Forms a tight seal with adjoining pipework and eliminates the need for seals and gaskets.

Exotic material options

Available for specific chemical or process requirements.

High visibility pinch bar

Makes it easy to see valve position and creates a bubble-tight seal.



The best way to control tough slurry.

The only sleeve custom built for tough slurry.

Defender sleeves are the toughest, longest lasting pinch valve sleeves available. We manufacture them from premium materials in our mining hose factory. Each sleeve has a Defender Grade-A rubber wear liner for long wear life and structural support layers for flexibility and resilience.

The sleeves are custom bore matched to the adjoining pipework as standard, preventing turbulence, leading edge wear, and slurry buildup.

Other custom options include different bore configurations like full port, reduced port and cone sleeves in custom dimensions for precise control over the flow coefficient of the slurry.

We can customise the sleeve liner to suit high temperature, corrosive, or hydrocarbon-containing slurry.



Full port sleeves. Straight-through bore for smooth, unobstructed slurry flow. Matches the diameter of adjoining pipework.



Reduced port sleeves. Tapered in the middle to restrict flow. Used for precise flow control and throttling.

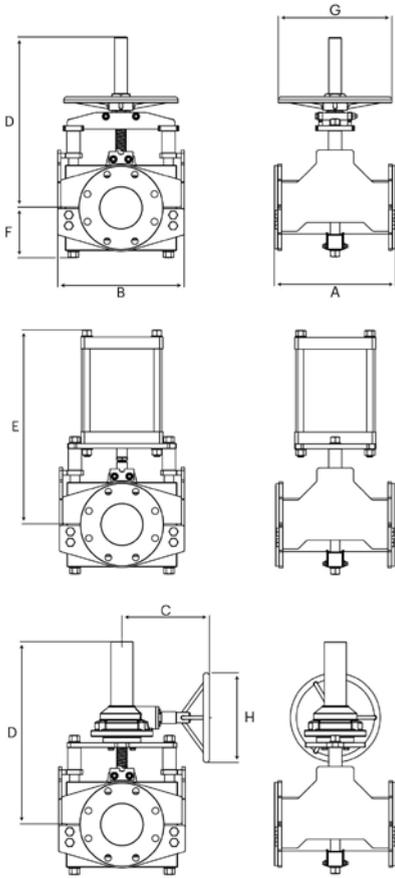


Cone sleeves. For more precise flow modulation than full bore designs, with less restriction than reduced port sleeves. Used to control flow rates, reduce velocity smoothly, and minimise turbulence.



PB-SERIES

The best valve for controlling tough slurry.



Technical Specifications

Function	Isolation (on/off), control (modulating)
Valve Size	DN50-600 (consult factory for larger)
Face-To-Face	Defender Standard, EN558 Series 7, EN558 Series 1, Custom
Working Pressure	10 bar (145psi) as standard (other on request)
End Connections	Flanged
Flange Drillings	AS2129, ASME, BS, SABS, JS, DIN, custom
Safety Factor	4:1 for sleeve minimum burst pressure as standard (consult factory for special requirements)
Temperature Rating	-30°C to +74°C as standard (consult factory for special requirements)
Operator	Manual (handwheel, gearbox), actuator (pneumatic, hydraulic, electric)
Options	Enclosed bellows, limit/proximity switches, positioners

Material Specifications

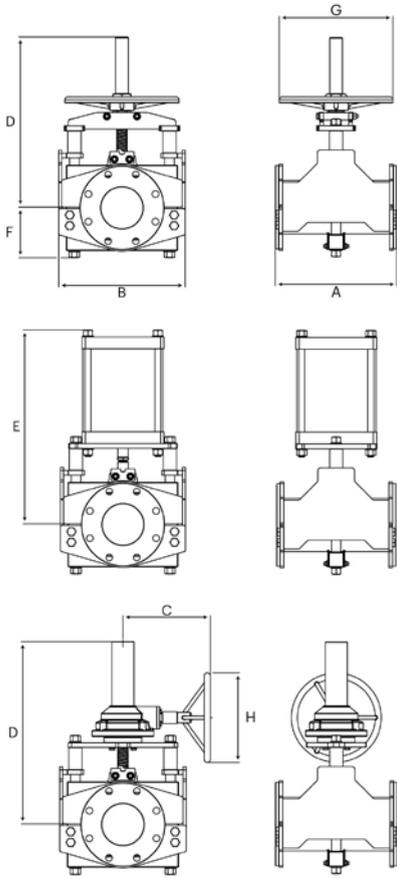
Sleeve Liner	Defender Grade-A-Rubber, proprietary compound for wear performance in abrasive slurries (consult factory for other speciality applications)
Sleeve Reinforcement	Synthetic fabric
Sleeve Cover	Proprietary rubber compound for UV, ozone and abrasion resistance
Body	Painted carbon steel (consult factory for speciality requirements)

Product Dimensions

Valve size	Face to Face (A)				Width (B)	Width - Centreline to Hand Wheel GB (C)	Centreline to Top (Open) Manual (D)	Centreline to Pneumatic (E)	Centreline to Bottom (F)	Handwheel Diameter (G)	Handwheel Diameter GB (H)
	Defender Standard	EN558 Series 7	EN558 Series 1	Custom							
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	165	190	230	To Clients Requirements	230	*	435	Consult Factory	105	225	*
65	165	216	290		230	*	455		110	225	*
80	200	254	310		290	*	480		120	325	*
100	250	305	350		378	*	540		140	325	*
125	310	356	400		420	295	595		156	*	300
150	375	406	480		420	295	697		170	*	300
200	500	521	600		452	345	725		190	*	300
250	625	635	730		642	521	1030		267	*	450
300	750	749	850		730	565	1112		278	*	450
350	875	980	980		857	579	1153		300	*	450
400	1000	*	*		951	626	1273		330	*	450
450	1125	*	*		1036	668	1381		357	*	450
500	1250	*	*		1120	710	1539		409	*	650
600	1500	*	*		1290	795	1755		463	*	650

PBH-SERIES

The best valve for controlling tough, high pressure slurry.



Technical Specifications

Function	Isolation (on/off), control (modulating)
Valve Size	DN50-600 (consult factory for larger)
Face-To-Face	Defender Standard, EN558 Series 7, EN558 Series 1, Custom
Working Pressure	20 bar (290psi) as standard (other on request)
End Connections	Flanged
Flange Drillings	AS2129, ASME, BS, SABS, JS, DIN, custom
Safety Factor	4:1 for sleeve minimum burst pressure as standard (consult factory for special requirements)
Temperature Rating	-30°C to +74°C as standard (consult factory for special requirements)
Operator	Manual (handwheel, gearbox), actuator (pneumatic, hydraulic, electric)
Options	Enclosed bellows, limit/proximity switches, positioners

Material Specifications

Sleeve Liner	Defender Grade-A-Rubber, proprietary compound for wear performance in abrasive slurries (consult factory for other speciality applications)
Sleeve Reinforcement	Synthetic fabric
Sleeve Cover	Proprietary rubber compound for UV, ozone and abrasion resistance
Body	Painted carbon steel (consult factory for specialty requirements)

Product Dimensions

Valve size	Face to Face (A)				Width (B)	Width - Centreline to Hand Wheel GB (C)	Centreline to Top (Open) Manual (D)	Centreline to Pneu- matic (E)	Centreline to Bottom (F)	Handwheel Diameter (G)	Handwheel Diameter GB (H)
	Defender Standard	EN558 Series 7	EN558 Series 1	Custom							
DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	190	190	230	To Clients Requirements	230	200	435	Consult Factory	105	325	*
65	190	216	290		230	200	455		110	325	*
80	200	254	310		290	230	480		120	*	300
100	250	305	350		378	289	540		140	*	300
125	310	356	400		420	295	595		156	*	300
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250	625	635	730		642	521	1030		267	*	450
300	750	749	850		730	565	1112		278	*	450
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500	1250	*	*		1120	710	1539		409	*	650
600	1500	*	*		1290	795	1755		463	*	650