

the conveying system elbow

virtually eliminates
elbow wear

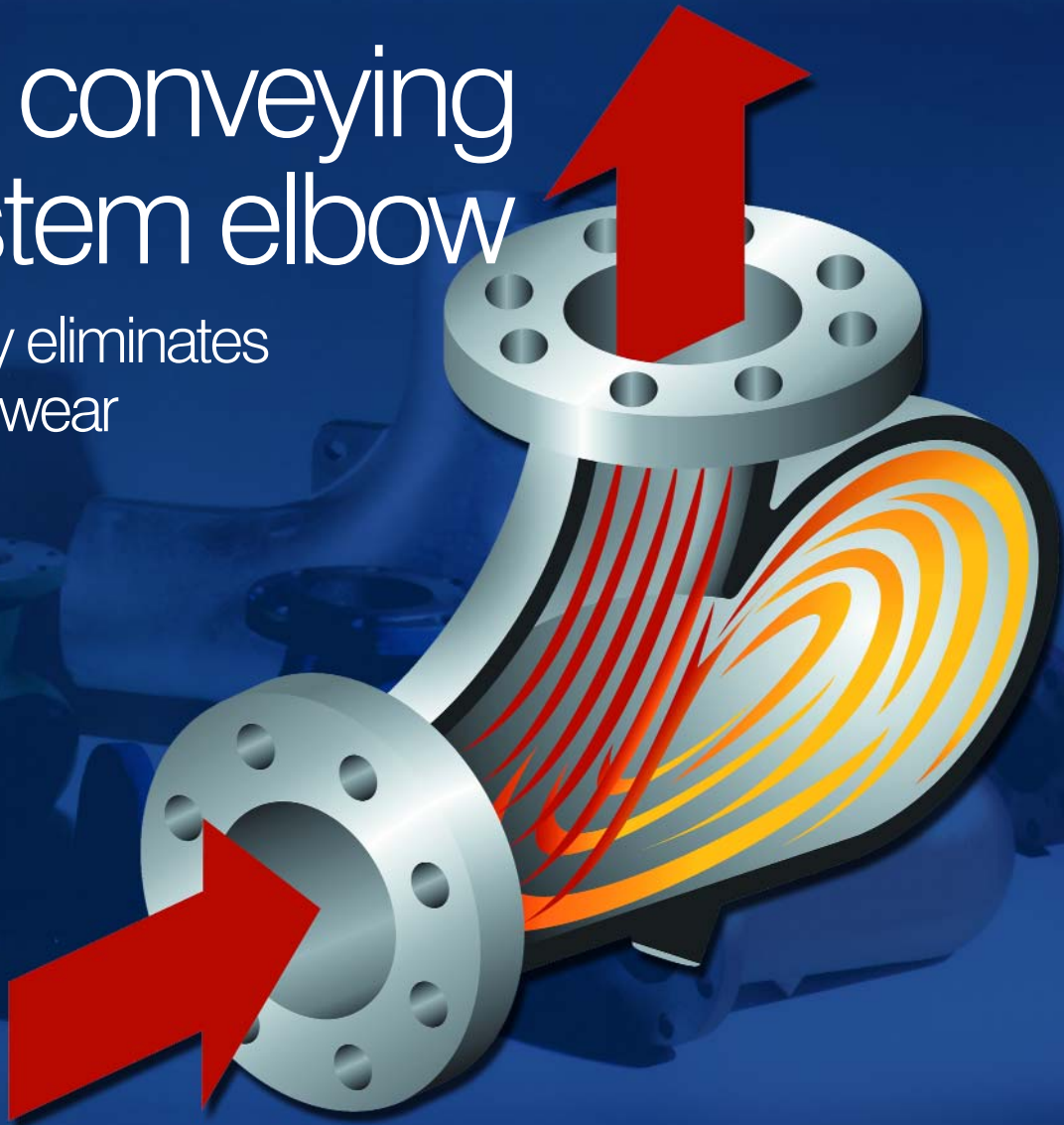


Illustration:
© Claudius Peters GmbH

Maintaining a smooth production flow is vital in terms of operational efficiency and delivering bottom-line profitability...

The **Vortex Elbow** is a proven design which has the ability to improve material flow, reduce wear and tear and save space while also virtually eliminating pressure drop and plugging or surging.

The principle of the Vortex Elbow's effectiveness is very simple: it has a protruding, almost spherical cavity that generates a slowly rotating ball of self-renewing

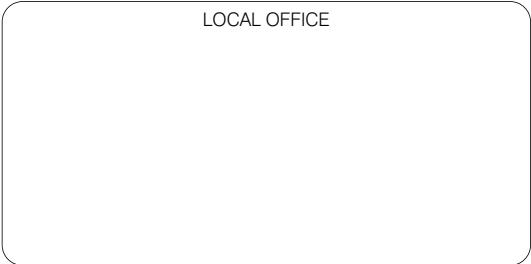
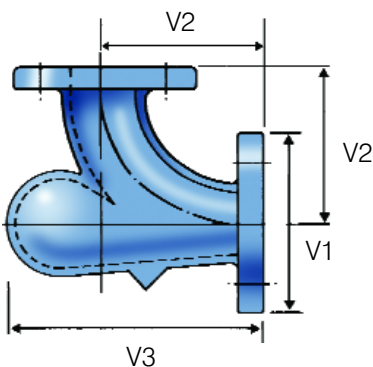
material which enables incoming material to flow smoothly round the pipe bend and exit evenly, thus **improving efficiency**. Because the flowing material is impacting on the ball rather than the outer wall of the pipe, it all but **eliminates wear and tear** from friction on the elbow, **maintains the product quality** of fragile materials and ensures **pressure is constant**.

The reduced friction means the Vortex Elbow can last up to four times longer than conventional elbows and is virtually **maintenance free**. When production does stop, **down time is reduced** by a self-clearing facility that clears any product, ensuring no plugging or surging when the operation re-starts.

The Vortex Elbow is available in a standard 90° size in diameters from 50 - 350mm with flanged connections. They are manufactured in cast iron or acicular iron, although bespoke manufacture in other materials such as stainless steel and carbon steel or aluminium is available on a per contract basis.

Table of Dimensions (mm)

Pipe Size	50	65	75	100	125	150	200	250	300	350
V1	165	185	200	245	280	310	340	395	445	505
V2	171	178	203	229	267	297	354	411	476	540
V3 (max.)	238	269	300	397	480	545	675	800	1046	1146
<i>Material</i>	Estimated Weights for Flange Fittings (kg)									
Cast Iron	11.0	17.5	23.0	40.0	60.0	80.0	135.0	162.0	368.0	470.0
Acicular Iron	11.0	17.5	23.0	40.0	60.0	80.0	135.0	162.0	368.0	470.0



HEAD OFFICE:
Claudius Peters Technologies GmbH
 Schanzenstraße 40, D-21614 Buxtehude, Germany
 Tel +49 4161 706-0 Fax: +49 4161 706-270
www.claudiuspeters.com