

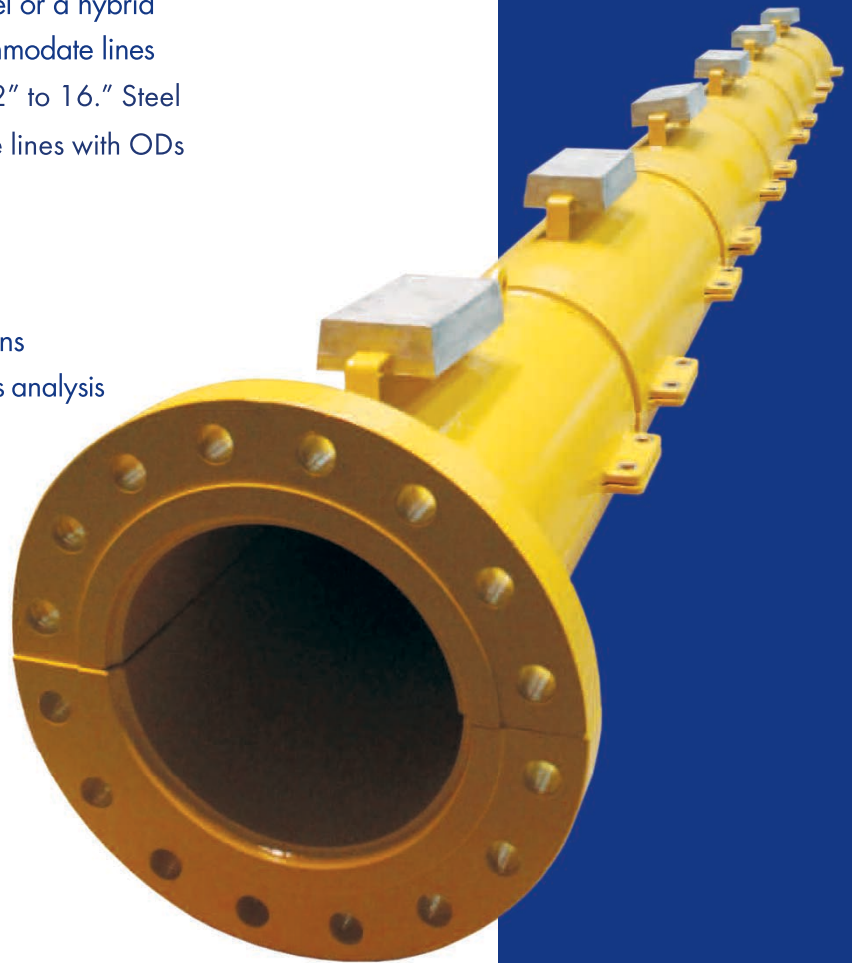
STEEL VERTEBRAE BEND RESTRICTORS



ABCOSubsea has manufactured and sold more than 1,200 Vertebrae Bend Restrictor (VBR) assemblies over the past 30 years. VBRs are available in polyurethane, steel or a hybrid combination of both materials, and can accommodate lines with outside diameters (OD) ranging from 1/2" to 16." Steel VBRs normally manufactured to accommodate lines with ODs ranging from 4-16".

Advantages:

- Custom designed for larger load conditions
- In-house design verification and FEA stress analysis
- Cathodic anodes available
- Unique cartilage joint design
- In-house load testing



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STEEL VERTEBRAE BEND RESTRICTORS

Technical Data



Material Specs:

Steel Strength	36 –70 ksi yield
Anode	Aluminum Alloy
Subsea Epoxy Coating	3-part
Stress Wafer	70 –D Ether-based Polyurethane

