

KVT KOENIG-expander[®] USPs compared to other sealing systems

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I. THE KVT KOENIG-expander® USP

1. 40 Years' Experience
2. Solutions engineered for sealing function exclusively
3. Global Engineering Resources
4. Global Manufacturing Footprint
5. Proprietary 6-Part QC Process
6. Economy of scale = Competitive
7. Lowest Installed Cost
8. Systems Solutions; Installation tools & Automation consulting
9. Liberal installation hole tolerances
10. Broad product line; Push & Pull style, various material options, various configurations
11. Single-piece assembly, easily integrated with automated system assembly
12. Application specific, custom solutions available upon request

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II. OTHER MISCELLANEOUS SEALING DEVICES



› Balls

Disadvantages:

- Exact hole tolerance necessary
- Very high radial force (stresses in base material)
- Not capable of high pressure
- No corrosion protection
- Additional operation often required to secure ball
- Contamination generated on installation
- Single point seal contact = high probability to leak
- More wall thickness to edge of application necessary
- Inconsistent process capability – variation in “press-in-force” related to hole tolerance
- Requires smooth installation hole surface
- Engineered for motion control, not sealing
- Liability assumed by customer
- Step and/or counter bore necessary to define exact position



› Threaded pipe plug, with or without sealing software

Disadvantages:

- Not leak proof
- Needs thread operation
- Requires defined torque level
- Contamination generated during thread production & assembly
- No corrosion protection
- Engineered for fastening, not sealing
- Liability assumed by customer

› Welding hole closed

Disadvantages:

- Requires expensive welding equipment
- Requires skilled labor
- Time consuming process
- Poor application aesthetics
- Post weld grinding & polishing required
- Liability assumed by customer
- Heat due to welding process can be problematic for the material & sealing

› DIN Plug 445 / 443

Disadvantages:

- process stability not guaranteed
- often used in combination with sealant
- exact hole tolerance necessary
- smooth bore surface required
- not suitable for high pressure application

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