

PUMPING PRINCIPLE

AODD VS. OTHERS

| | Kinetic Centrifugal | Positive Displacement | | | | | | EODD |
|--|---------------------|-----------------------|-------------|------|------|---------------------|--------------------|------|
| | | AODD | Centrifugal | Lobe | Gear | Progressive (Screw) | Peristaltic (Hose) | |
| Variable Flow & Head Control (inherently adjustable) | ✓ | ✓ | ! | ! | ! | ! | ! | ! |
| Deadheads Safely (at zero energy consumption) | ✓ | ! | ! | ! | ! | ! | ! | ! |
| Dry-Running | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ |
| Dry-Priming (lift installations) | ✓ | ✗ | ✗ | ✓ | ✗ | ✗ | ! | ! |
| No Installation Alignment Required | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| No Electrical Installation Required | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Portability | ✓ | ✓ | ! | ! | ! | ✓ | ! | ! |
| Submersible | ✓ | ! | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Sealless (no packing or mechanical seals) | ✓ | ! | ! | ! | ! | ✓ | ! | ✓ |
| No Slip (thin liquids) | ✓ | ✓ | ! | ! | ! | ✓ | ! | ✓ |
| Cavitation Tolerance (low NPSHa) | ✓ | ✗ | ! | ! | ✓ | ! | ! | ✓ |
| Low Shear & Degradation | ✓ | ✗ | ✓ | ✓ | ! | ! | ! | ✓ |

✓ = Suitable

! = Limitations

✗ = Not Recommended