



*Outstanding wear resistance*

*Heavy duty*

*Rugged construction*

*High performance*

## **Rotary Valves**

**Aweld Australasia Pty Ltd**

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## Features of Awmeld Rotary Valves:

1. Diamond Ground Rotor O.D. For accurate clearances.
2. Eight vane rotors for efficient sealing.
3. Skewed vanes for efficient shearing action.
4. Top and bottom tool steel knife for efficient cutting of strips reducing bore wear due to drag through.
5. Over end sealing with Tungsten Carbide. Reduces wear between rotor end plate and stator bore.
6. Side sealing with spring loaded Tungsten Carbide on Tungsten Carbide seal ring. Zero maintenance as screws do not need tightening during service. Giving a zero clearance seal at the top of the side cavity for less by-pass.



Chain Drive Motor




Direct Drive Motor

7. Tungsten carbide coated packing gland journal. Allows use of hard or soft packing with no risk of wear again reducing maintenance and messy by-pass which can cause premature bearing failure.
8. Extremely Heavy Duty Fabrication of all components with optional Cast Steel body and end plates on some small Rotary Valves for easy rebuilding and overlaying.
9. Outrigged heavy duty bearings ensure accurate centralisation maintaining superior clearance through the life of the Rotary Valve.
10. Choice of right angle shaft mounted gearmotors, chain or belt drives.
11. All components are heat treat stress relieved, removing any residual stress created by the welding processes and greatly reducing the possibility of cracks developing even in the most extreme applications.

## Rotary Valve Repair & Refurbishment:

Avweld have been at the forefront of innovation in the repair of rotary valves for many years. Our improvements include reduced rotor to stator clearance, modified sweepers for reduced blocking on end plates, spring loaded seal rings and upgrading of hardfacing of both rotor vanes and stator bores. We can provide everything from a simple rebuild to complete redesign, in sizes from 100mm through to 2.5m. Not only do we repair our own valves on a rotatable valve service system, but we perform repairs of other manufacturers' valves, including both Bulk Materials Handling and Lisbon Engineering valves.



Stellite™ Tipped Vanes

## Other Available Options:

### 1. Wear Resistant Housing

- HVOF (Hyper Velocity Oxygen Fuel) applied AV100 Tungsten Carbide to the bore of the valve. Last 4-6 times the life of hardchrome coated bores.
- PTA Tungsten Carbide overlay bore to depth of 1.5-2mm. Gives maximum protection. Lasts up to 4 times longer than HVOF Tungsten Carbide.
- AV10 Arc Spray overlay to 1-1.5mm depth. Good for high hards content and surge overload situations with excess carryover.

### 2. Adjustable and Hardfaced Vane Edges

- Tungsten Carbide welded tips. Maximum wear resistance and medium impact resistance.
- Stellite™ 6 welded tips. Excellent wear resistance and very good impact resistance.
- Tool Steel welded tips. Good wear resistance and excellent impact resistance.

### 3. Adjustable or Hardfaced vane edges for long life and efficient shearing action.



Rotary Valve prior to repair



Fully refurbished Rotary Valve

## Industries in which Rotary Valves manufactured and re-built by Aweld have proven themselves:

- Timber
- Wood Chip
- Minerals Handling
- General Purpose
- Pulp & Paper
- MDF
- Food
- Ore Processing
- Cement
- Mining
- Pharmaceutical
- Manufacturing

## Other Services provided by Aweld:

- Thermal Spraying - Fully automatic Robotic Cell for HVOF, HVOF, Plasma, Arc Spray, Spray Fuse
- Specialised Welding - Cast Iron, Stellite™, MIG, TIG & PTA
- 9 axis Fully Automatic Robotic Welding System to deposit PTA, MIG, Pulse MIG, Subarc, Open-Arc, & TIG
- Hardfacing - chrome carbide, tungsten carbide etc
- Machining and Grinding (large capacity)
- Design and manufacture - including Vacuum Pumps
- Wear Plate - fabrication, rolling and forming



Full Vacuum Pump Re-build by Aweld



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