

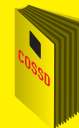
COSSD PRODUCT CATALOGUE

for

VALVEWORKS
CANADA OPERATIONS
WHEN PRESSURE DEMANDS QUALITY™

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Valveworks Canada Operations
37 Burnt Basin St. Bldg. A
Red Deer Alberta Canada
T4P 0J4

Phone: (403) 356-0070
Fax: (403) 356-0071
sales@vwusa.us

SERVICES

HARDFACING

Valveworks USA now offers Hardfacing services using HVOF products that produce the industry's most advanced coating solutions. Our systems are refined and optimized to produce the best coatings possible at exceptional production rates. By generating extremely high particle velocity, our equipment yields coatings recognized throughout the Thermal Spray industry for their density and superior performance. Valveworks USA has a complete system that delivers outstanding value!

COATING QUALITY IS #1

Nothing is more important in an HVOF system than the quality of the coating it produces. The JP-5000 system has been developed and refined to produce the absolute best coating quality. A basic rule of coating quality is: High Combustion Pressure = High Gas velocity = High Particle Velocity = High Coating Quality. The Model 5220 gun is the embodiment of this rule: it has an exceptionally high combustion pressure, so it delivers consistently high quality coatings. A key benefit to the high particle velocities generated by the model 5220 gun is the extremely high coating density and low oxide content. Low oxide content is simply due to the particles having less time in the atmosphere to oxidize. The high velocity also packs the particles more tightly reducing porosity and creating a denser coating. This is especially beneficial in corrosion resistance applications where a denser barrier is needed and when grinding, where high density coatings produce a finer finish. Independent laboratory tests have shown that HVOF coatings (Tungsten Carbide and Cobalt) have a superior wear resistance-in some cases one-third the wear of alternate coating methods.

In addition to outstanding coating quality, Valveworks hardfacing service delivers a significant productivity advantage, with spray rates up to two times higher than conventional gaseous-fueled HVOF systems. The ability to apply more coating in less time reduces coating costs and increases the range of competitive coating solutions.

Valveworks Hardfacing equipment produces coatings of the highest quality.

Coating benefits include:

- High and controllable coating density and hardness
- High bond strength (test adhesive fails before coating)
- Coating thickness up to 1/2" (12.7 mm)
- Smoother as-sprayed finish

SERVICES

INTRODUCTION

VWAMS provides reliable customer service, support, and repair & re-manufacture of OEM gate valves and gate valve repair parts on a wholesale economic platform, with exceptional turn-around time, and at a level of quality unparalleled in our industry.

VW AfterMarket Services, Inc. (VWAMS), a subsidiary of VALVEWORKS USA, located in Bossier City, Louisiana USA, is an integral support function of VALVEWORKS USA, the Original Equipment Manufacturer (OEM) of extremely high-quality API 6A gate valves, used in Wellhead and Christmas Tree applications, as well as choke and kill manifolds, drilling manifolds, flow-back manifolds, frac trees, and other applications where API 6A gate valves are required.

In the quickly evolving world of oil & gas exploration and production, oil & gas companies, service companies, and manufacturers are coming under heavy public scrutiny and liabilities are increasing at a very high rate. The demand for high-quality and reputable Original Equipment Manufacturer (OEM) repair and remanufacture of production and exploration equipment is increasing daily.

As a result of this increasing demand, VWAMS was created to add value to the VALVEWORKS USA gate valve product line. As the API 6A gate valve market becomes more competitive, customers need products that can be trusted. VWAMS complements the VALVEWORKS USA brand, and is the right choice when it comes to the service and support of your gate valve assets.

BUSINESS MODEL

VWAMS has strategically positioned assets to effectively perform API 6A qualified repair and remanufacture to OEM equipment to support your needs, whether it's for your rental fleet assets that require continuous valve repair and / or re-manufacture, or for your production valves that require only periodic maintenance and / or repair.

With Valveworks USA being the gate valve OEM, and VWAMS providing the repair and remanufacture services to the gate valves, there is a seamless connection between the two functions, and you can rest assured that your fleet is being managed in a controlled environment with engineering support, as well as quality controls in place to ensure you

meet your customer's strenuous demands for valve certification and compliance.

As low-cost countries continue to attempt to penetrate the marketplace with low-quality products and services, and attempt to pirate engineering and production processes that reputable companies have spent years developing and investing in, VWAMS works diligently to protect these processes in order to support its loyal customer base and routinely cooperates with those clients to develop valve maintenance programs, as well as perform valve repair & remanufacture to API 6A standards, which are becoming more stringent on a daily basis.

Valveworks USA began as a valve repair parts manufacturer & supplier over 20 years ago, so it is only natural for Valveworks USA to supply your valve repair components for the Valveworks USA models of gate valves from stock. We are dedicated to supporting you with quality-assured, readily available repair parts to ensure that your assets are repaired or re-manufactured in a timely fashion to maximize your bottom-line and keep your customer satisfied.

Valveworks USA also has a robust manufacturing capability and capacity for any special requirements that you may have, such as special product lines that are outside of the family of products offered by Valveworks USA. For customers that are strategically aligned with Valveworks USA, we can offer a wide variety of machining, coating, and other special processes that you may require. We have the engineering infrastructure to work with you on any special projects as well.

SERVICES

VWAMS ASSETS USED TO PERFORM HIGH-QUALITY, API 6A APPROVED VALVE REPAIR & REMANUFACTURE

- JP5000 HVOF TUNGSTEN CARBIDE APPLICATION SYSTEM FOR HARDFACING OF VALVE BORE SEALING MECHANISMS
- JP8000 HVOF TUNGSTEN CARBIDE APPLICATION SYSTEM FOR HARDFACING OF VALVE BORE SEALING MECHANISMS
- STATE OF THE ART GRINDING & LAPPING EQUIPMENT FOR PROCESSING VALVE BORE SEALING MECHANISMS
- SKILLED HARDFACE, GRINDING, AND LAPPING TECHNICIANS
- WET METHOD MAGNETIC PARTICLE EXAMINATION LAB
- LIQUID PENETRANT EXAMINATION LAB
- ANST LEVEL II INSPECTORS ON STAFF (W/ LEVEL III QUALIFIED SYSTEM)
- POSITIVE MATERIAL IDENTIFICATION (PMI) UNIT – NITON ANALYZER
- CALIBRATED / CERTIFIED BRINELL & ROCKWELL HARDNESS TESTING EQUIPMENT
- SUB-ARC WELDING EQUIPMENT FOR RING GROOVE INLAY AND FULL-CLAD WELDING OF GATE VALVE BODIES & BONNETS (INCONEL 625). FULL WELDING PROCESS QUALIFICATION (WPQ) ESTABLISHED & IMPLEMENTED.
- POST-WELD HEAT TREAT / STRESS RELIEF EQUIPMENT CALIBRATED & CERTIFIED TO ASME STANDARDS
- FULL CNC MACHINE SHOP FEATURING HORIZONTAL BORING BAR MACHINERY FOR EFFICIENT PROCESSING OF CLAD AND INLAID VALVE BODIES.
- MASTER MACHINISTS & WELD TECHNICIANS TO ENSURE QUALITY PROCESSING OF ALL REMANUFACTURE OF VALVE BODIES AND BONNETS
- IN-HOUSE XYLAN® COATING SYSTEM
- SKILLED VALVE REPAIR & VALVE TESTING TECHNICIANS
- SAP JOB TRACKING & ORDER PROCESSING SOFTWARE
- CALIBRATED / CERTIFIED TESTING EQUIPMENT (HYDROSTATIC & NITROGEN GAS)
- CALIBRATED / CERTIFIED HYDRAULIC & PNEUMATIC TORQUE WRENCHES
- FULL SUPPORT STAFF OF VALVEWORKS USA MECHANICAL ENGINEERS, QUALITY ENGINEERS, AND DRAFTING PERSONNEL

PRODUCTS

Valves and Valve Parts

- Valve Models
- **Model M**
 - Expanding Gate (MEG)
 - Slab Gate (MSG)
 - High Temp Class Y
 - Screwed End, Expanding Gate (MEG)
 - Screwed End, Slab Gate (MSG)
- **Model MRC Gate Valves (Forged Body)**
 - Expanding Gate (MRC-EG)
 - Slab Gate (MRC-SG)
- **Model FC Gate Valves**
 - Slab Gate
- **Model FM1**
 - Flanged Ball Screw (7 1/16" 10M)
 - Studded Ball Screw (7 1/16" 10M)
 - Studded Ball Screw (7 1/16" 15M)
 - Studded Ball Screw (7 1/16" 20M)
- **Model FM2**
 - FM2 4 1/16" 15M
- **Model FM3**
 - FM3 5 1/8" 10M, Ball Screw
 - FM3 5 1/8" 15M, Ball Screw
 - FM3 3 1/16" 15M, HWO
- **Model FM4**
 - FM4 7 1/16" 3-5M, HWO, Expanding Gate
 - FM4 7 1/16" 3-5M, HWO, Slab Gate
 - FM4 7 1/16" 3-5M, Ball Screw, Slab Gate
- **Diaphragm Pneumatic Gate Valves**
 - Model M
 - Model FC
- **Pneumatic Piston Actuator Gate Valves**
 - Model M
 - Model FC
- **Hydraulic Single Acting Valves**
 - Model M
 - Model FC
- **Wellhead Systems, Model M1 Valve Parts Only**
 - Tubing Head Adapter B1
 - Tubing Head Adapter B02
 - Companion Flange
 - Blind Flange
 - Casing Head C-22/C-29
 - Cross and Tee
 - Tubing Head Adapter B2P
 - Tubing Head Threaded Bottom
 - Tree Cap - Bottom Hole Test Adapter
- **Specialty Products**
 - Heavy Duty Ball Valves
 - Bearings
 - Ring Gaskets
- **Gate Valve Trim Chart**