



Premium Engineered
Equipment for Industrial Liquid,
Gas and Bulk Solid Applications

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 **DEFINOX**

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 **Safety is for life.™**

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Since 1912

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Premium Italian Valves

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Municipal, Industrial and
Commercial Valve Automation

VAC-U-MAX

 **WARREN**
CONTROLS



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Sales@ApexSolutionsMN.com



CONTENTS



Valves

GATE/GLOBE/CHECK



DFT Check Valve



Gate Globe Valve



Stafsjo Knife Gate Valve



DFT WLC Check



DFT ALC Check



DFT DSV Sanitary Valve



DFT SLC Silent Check



Titan Swing Door Check



Titan Double Door Check

QUARTER TURN



Electrically Actuated Ball Valve



Stainless, Carbon & Brass Ball Valves



Top Entry Ball Valve



Three Way Valve



Triple Offset Double Offset & Resilient Seated



Trunnion Valve



VSI Plug Valve

CONTROL VALVES



HVAC Valve Actuator



Electric Globe Valve



Pressure Reducing Valve



Process Control Valve



Sanitary Automated Valve



V-Ball



V Series Segmented Valve



Ceramic Valves

SPECIALTY VALVES



Balance Valve



Diaphragm Valve



Damper Louver



Safety Pressure Relief Valve



Metal Seated Valve



Pinch Valve



Solenoid Valve

Actuators



Capacitance Fail Safe



Compact, Failsafe, Modulating



Electro Hydraulic



Explosion Proof



Fast Acting Linear



Fast Acting Rotary



High Torque Output



HVAC



Light Industrial



Scotch Yoke



Spring return or double acting



Vane Actuator

Instruments

FLOW METERS



Coriolis Flow Meter



Mag Meter



Vortex MultiVariable Flow Meter



Insertion Mag Meter



Thermal Mass Flow Meter



Validation System TekValSys



Ultrasonic Flow Meter

LEVEL DETECTION



Mag Gauge



Guided Wave Radar



DP Level



Laser Level



Free Space Radar



Ultrasonic Level



Plumb Bob



Tuning Fork



Capacitance Level Switch



Paddle Wheel Switch



Boiler Level Controls

PRESSURE



DP Pressure Transmitter



Explosion Proof Pressure Transmitter



Sanitary Pressure Transmitter



Pressure Switch



Pressure Gauges

TEMPERATURE



Chart Recorder



Process Controllers



Remote LCD Display



Temperature Transmitter



Temperature Indicator



Thermometers

Steam & Condensate Components & Piping Products

STEAM/CONDENSATE



Industrial & Commercial
Boilers



Boiler Burner
Controls



Simplex, Duplex, Triplex & Quadraplex Systems

Condensate Recovery

Electric Condensate
Pump



Pressure Powered
Condensate Pump



Bucket Steam
Trap



Float & Thermostatic
Steam Trap



Universal Trap
Station



Disc Trap



Pumps



Fireeye Flame
Detection



Coils



Heat Exchanger



Tube Bundle
Replacement



Water Heaters

PIPING PRODUCTS



Cush Clamp



Copper Piping



Insulation
Blankets



Hammer
Unions



High Pressure
Fittings



High Pressure
Tube/Pipe Clamp



Industrial
Hose



Pipe Strainers



Shurjoint
Coupling



Stainless
Steel Tubing



Swagelok
Style Tube
Fittings



Thrush Air-Dirt
Separator



High Purity
Tubing



Switchover
Station

Sanitary/High Purity



Mix-proof Valve



Sanitary Valve



Sanitary Airlock



Sanitary Fittings



Sanitary Gauge



Sanitary Pump



USDA - 3A Certified
Sanitary Hose



Rupture
Disc

Helpful Tools

Steam Table

0psi = 212 Deg F
5psi = 228 Deg F
10psi = 240 Deg F
15psi = 250 Deg F
60psi = 308 Deg F
100psi = 338 Deg F
125psi = 353 Deg F
150psi = 365 Deg F
175psi = 378 Deg F
200psi = 388 Deg F
225psi = 397 Deg F
250psi = 407 Deg F
275psi = 414 Deg F
300psi = 420 Deg F

Newton Meters (Nm) to In/Lbs

1 = 8.85	200 = 1770
10 = 8.51	250 = 2213
20 = 177	300 = 2655
30 = 265	350 = 3098
40 = 355	400 = 3540
50 = 443	450 = 3983
60 = 532	500 = 4425
70 = 620	600 = 5310
80 = 709	700 = 6195
90 = 797	800 = 7080
100 = 886	900 = 7965
150 = 1328	1000 = 8850

Control Valve Sizing

Inlet Pressure
Flow Rate - PPH or GPM
(Triangle Shape) P or Delta P (Pressure Drop)
Outlet Pressure
Temperature
= CV Required

Rotary Valve Sizing

Flow Rate in Pounds Per Hour/ Bulk Density = Cubic Feet Per Hour
CFR (Cubic Feet Per Hour) / 60 = CFM (Cubic Feet Per Minute)
Cubic Feet Per Minute / Cubic Feet Per Rotation = RPM Required @ 100% Pocket Fill
RPM @ 100% Pocket Fill/ .7 (70% Fill Factor) = Actual Required RPM's

Dry Bulk Material Handling

VALVING



Rotary Air Lock



Double Flap Gate Valve



Ebro Cycle Lock



Ebro Impeller Valve



Ebro Vidos Valve



Slide Gate Valves

CONVEYING



Bulk Bag Unloaders



Bulk Bag Filler



Bag Dump Station



Flex Screw



Blower Packages



Pneumatic Conveying



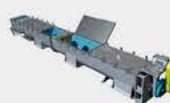
Bucket Elevator



Screw Pump



Mobile Pneumatic Conveying



Screw Conveyor



Vibratory Screener



Hammermill



Sanitary/Industrial Magnets

VOLUMETRIC & LOSS-IN-WEIGHT FEEDING



Loss-In-Weight Feeders



Bin Discharge Feeder



Belt Conveyor



Blender



High Capacity Loss-in-weight Feeder



Volumetric Feeder

CLEANING



Bulk Bag Bailers



Industrial Central Vacuum System



Continuous Bagging Vacuum



Explosion Proof Portable Industrial Vacuum



Industrial Vacuums



Dust Collectors



Filters

EXPLOSION PROTECTION



Rembe Flameless Vent



Rembe Explosion Panel



Rembe Targo Vent



Rembe Suppression System



Rembe Isolation Valve



Rembe Quench Valve



INDELAC CONTROLS, INC.
ELECTRIC ACTUATORS & CONTROLS

VAC-U-MAX



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Elite Valve



FlexFit
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VNE

VSI
Valve Solutions, Inc.
Municipal, Industrial and
Commercial Valve Automation





APEX

INDUSTRIAL
SOLUTIONS

About Apex

Founded in 2009, Apex Industrial Solutions is a manufacturers rep and distributor of globally recognized Valves, Actuators, Instruments, Piping Products and Dry Bulk Solid Equipment. We specialize in providing quality industrial components that make up your process.

Our focus on exceptional customer service and quality products means we maximize your efficiency and uptime. We make this happen by providing quality products, fast lead times, knowledgeable and resourceful staff and pricing that meets your budget.



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