



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

ADGAS Desalination Facility Abu Dhabi, UAE	3-30" PS X 29" ID 150 ANSI Butterfly Valve, Reduced ID Carbon Steel Body lined with Ebonite, B148C95800 Aluminium Bronze Disc, Monel K500 Shafts. Manual gear operated 2-24" X 23" Same as Above 1-20" X 19" Same as Above 2-10" x 9" Same as Above
Desalination Facility	1-12" 150 ANSI Flanged Body Ebonite coated Cast Steel Body, Buna Seat Aluminium Bronze disc & Monel K500 Shaft, Buna-N packing on bubble tight packing glands Teflon bearings, Aluminium Bronze Cover plate Face to Face = 102mm, Lever Operator included 4- 10" Same as above 6- 8" Same as above 7- 6" Same as above 6- 4" Same as above 7- 3" Same as above 2- 2" Same as above
Desalination Facility	1-60" ID Frisch Butterfly Valve 150 ANSI FF FL Body, Flanges to API 605 Marine epoxy coated Carbon Steel Body, Buna-N Seat and body liner Aluminium Bronze disc & Monel K500 Shaft, Buna-N packing on bubble tight packing glands Teflon bearings 2- 18" Same as Above 2-14" Same as Above
Desalination Facility	1-20" X 19" ID 150 ANSI Butterfly Valve, Reduced ID Carbon Steel Body lined with Ebonite, B148C95800 Aluminium Bronze Disc, Monel K500 Shafts. Manual gear operated 7- 2" Same as above 8- 3" Same as above 12-4" Same as above 10- 6" Same as above 6- 8" Same as above
ADTECH SYSTEMS Wright Air Force Base, Oh. USA	1-42" ANSI 125 Wafer Body BFV 321 Stainless Construction. Incoloy 800HT Shaft With Auma Electric Actuator 1-42" ANSI 125 Wafer Body BFV 304 Stainless Construction With Auma Electric Actuator



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

AGRIUM AGRICULTURAL CHEMICALS Redwater, Alberta. Canada	1-24" Motor Gate Valve SO2 Gas @780F and 8 PSI 1-36" Manual BV Waste Heat Boiler Outlet @ 780 F and 8.9 PSI 3-72" Manual BV Waste Heat Boiler Outlet @ 840 F and 3.4 PSI 1-60" Manual BV Waste Heat Boiler Outlet @ 180 F and 8.5 PSI 1-36" Motor Operated Jug Valve Alloy 556 Waste Heat Boiler Bypass @ 2000 F and 10.5 PSI
BARIVEN SA. C/O PDVSA Services Houston, Tx. USA	1 - 32" X 17" Refractory Lined BFV with Alloy 556 Disc and and A297 GR HK Shafts With RCI Double Acting Pneumatic Actuator, Moore I/P Electro-Pneumatic Positioner and Westlock Limit Switches
BASF Palmyra, Mo. USA	1 - 24" 150 ANSI Triple Off-set Metal-Seated HPBF All 316 Stainless Wafer Body, 17-4PH Shaft
CAMECO Minerals Saskatoon, Sk. Canada	1 – 12" 20010 FF-AB-AB for 1300°F 12PSIG 1 – 15" 20010 FF-AB-AB for 1800°F 10PSIG 1 – 27" 20010 FF-AB-AB for 1300°F 10PSIG
CANCARB LTD (carbon black plant) Medicine Hat, Ab. Canada	1-18" 60010-RF-AB-AG Slide Gate for 1200F Gases at 15Psig Reaction Furnace discharge Isolation
CANADIAN FERTILIZERS Medicine Hat, Ab. Canada	1-1500 ANSI Globe Valve RTJ Flanged 316ELC Stainless construction
CHEMTRADE LOGISTICS Shreveport, LA. USA	1-60" Refractory lined Butterfly Valve with <i>Automax</i> Pneumatic Actuator and <i>PMV</i> 4-20mA Positioner With Supertherm Shafts and A297GRHK Disc 1-36" Pneumatic BFV <i>Automax</i> Pneumatic Actuator and <i>PMV</i> 4-20mA Positioner 1-24" Slide Gate Valve, A516 Body 316L Stainless Trim, with Pneumatic cylinder operator, Zero Leakage



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

COLGATE-PALMOLIVE CO. Cambridge, Ohio USA	2-12" 300ANSI Triple-Offset Metal Seated BFV All 316L Stainless for 1200F and 20Psig
EI DUPONT Laporte, TX. USA	2 - 60" 25010 Refractory Lined BFV 1 - 60" 20010 Pneumatic BFV 1 - 42" 20010 Pneumatic BFV 1 - 35 ½" 20010 316SST
ETHYL PETROLEUM Sauget, Il. USA	3 -12" 150 ANSI Triple Off-set Metal Seated HPBFV With Stellite® Seat and Disc Edge Hard Chromed Disc, With 17-4 Ph Shaft 2 – 10" 150 ANSI Triple Off-set Metal Seated HPBFV 2 – 8" 150 ANSI Triple Off-set Metal Seated HPBFV 5 – 6" 150 ANSI Triple Off-set Metal Seated HPBFV
GLM Tanks Nisku, Ab. Canada	3 – 60" Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle
HARCROSS PIGMENTS East St. Louis, Mo. USA	2- 72" X 24" Rectangular Damper Carbon Steel 2-32" Butterfly Damper Carbon Steel
HOLCIM CEMENT Trident, Mt. USA	1-28" (700mm) Knife Gate Valve Carbon Steel Body and 304 Stainless Trim with Stellite Seat. For coal discharge hopper isolation
INEOS ACRYLICS Millington, TN. USA	1-54" Slide Gate Valve A516 GR70 Body and Flanges, 304 Stainless Trim With Side Mounted Pneumatic Cylinder Operator.
INNOPHOS FOSFATADOS Complejo, Industrial, Pajaritos Coatzacoacos, Veracruz, Mexico	54" X 36" Refractory Lined BFV HR160 Disc & Shaft
KERR - MCGEE CHEMICAL Savannah, GA. USA	2 – 14" Butterfly Control Dampers 316 Stainless Flanges and Body with Ceramic (Nitrided SiC) shaft and Disc for abrasion resistance



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

<p>LAFARGE CONSTRUCTION Calgary, AB. Canada</p>	<p>1 – 60” Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle</p>
<p>MOSAIC (IMC PHOSPHATES) New Wales Facility Mulberry, Fl. USA</p>	<p>5-48” Rolling Slide Gate Valve All carbon steel body & flanges, Gate is hard chromed, Stellite® Seat With Top mounted D/A Pneumatic Cylinder operator Complete with Manual override and Limit Switches 2-42” 20010 316L BFV 3-72” Manual BV Outlet Waste Heat Boiler @ 800 F 3-84” Manual BV Outlet Waste Heat Boiler @ 815 F 3-42” Manual BV Bypass Waste Heat Boiler @ 1112F 3-54” Manual BV Bypass Heat Exchanger @ 800 F 3-36” Manual BV Bypass Heat Exchanger @ 590 F</p>
<p>MOSAIC FERTILIZERS Bartow & Riverview, Florida USA</p>	<p>1-67” 25010 Refractory BFV 10PSIG @ 2000°F 3-42” 20010 FF-AC-AZ for SO2 Gases 10PSIG 1100F 1-60” Manual BV All 316Stainless Body and Flanges 2-42” Manual Damper Converter Service @ 1000F</p>
<p>MOSAIC FERTILIZERS (formerly Mulberry Phos.) Mulberry, Fl. USA</p>	<p>1 – 24” Gas Tight Blind (Blank-off) for isolating Pre-Heat Ducts 1 – 63” 25010 Refractory BFV 10PSIG @ 2100°F With Supertherm Internals and Pneumatic actuator</p>



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

MOSAIC FERTILIZERS Uncle Sam, La. USA	2 -42" Butterfly Valves All 304L Stainless Construction With Rotork Pneumatic Actuators 2 -72" Butterfly Valves All 304L Stainless Construction With Rotork Pneumatic Actuators
MITSUMI ENGINEERING Rayong, Thailand	1-34" Rolling Slide Gate Valve ANSI 125 Flanged Gate, Seat and shaft 304 Stainless Steel With Cowan top-mounted pneumatic cylinder 16" Bore Complete with Air fail tank, solenoid valves, pressure switch, and limit switches. Cycle time 15 to 20 seconds 1-12" Same description as item 1 except 316L Body and Hastelloy C276 Trim
MONSANTO CHEMICALS Muscatine, IA. USA	4-12" Triple Off-set Butterfly Valve, ANSI 150 Body A351 CD4MCU ANSI Lugged style Body, Disc and Clamp Ring Hastelloy C276 Seat, Seal Stack & Shaft 2-10" Same as above 4-8" Same as above
Soda Springs, ID. USA	2-24" 150 ANSI Triple Off-set Metal Seated HPBFV A216WCB Body with 316L Stainless Seat and Disc 1-20" 150 ANSI Triple Off-set Metal Seated HPBFV
3-M COMPANY Springfield, Mo. USA	3 – 48" Refractory lined BFV Bypass on Thermal Oxidizer 2000°F @ 26" WC



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

<p>NIKKISO CRYOGENICS Las Vegas, Nevada. USA</p>	<p>2 – 30” 150ANSI Triple-off Set Metal Seated BFV All 316 Stainless Construction With 24” Stem Extension With D/A Pneumatic Actuator Model RCI5322 With Westlock K10XASH00, 4-20mA positioner Explosion proof NEMA 7 & 9 1 – 24” Same as above 1 – 14” 300 ANSI Triple-off Set Metal Seated BFV All 316 Stainless Construction With 24” Stem Extension With D/A Pneumatic Actuator Model RCI 288 With Westlock K10XASH00, 4-20mA positioner Explosion proof NEMA 7 & 9</p>
<p>NUWEST INDUSTRIES Soda Springs, ID. USA</p>	<p>1 – 48” 25005 Refractory lined BFV</p>
<p>PCS NITROGEN Aurora, NC. USA</p>	<p>1-48” Motorized Slide Gate Valve 1- 72” Rolling Slide Gate, With Cylinder operator & Fail Tank to fail valve closed A516 Gr70 Body With 316L Trim, Blower Isolation 1- 72” Motorized Jug Valve, 310 Internals 1- 42” Motorized Jug Valve, 304 Internals</p>
<p>PRATT & WHITNEY CANADA Montreal, Que. Canada</p>	<p>16” Control valve, Flanged Ends Alloy 230 Construction, Includes upstream & Down Steam Spool pieces to make assembly to Map Jet Engine compressor Exhaust Gases at 105 Psig & 1800F</p>
<p>PROCTOR & GAMBLE Cincinnati, Ohio. USA</p>	<p>15.5” Jug Control Valve, Alloy 556 Internals With Limitorque MXa Modulating Actuator With Device Net Module</p>



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

PVS CHEMICAL Chicago. IL. USA	1-30" X 17" Refractory Lined BFV With A297GRHK Disc and Supertherm Shafts 1-24" Butterfly Damper Flanged Ends A516Gr70 Body and Flanges with 316 Shaft
ROHM & HASS COMPANY Louisville, Ky. USA	1 – 48" Motor Operated BFV 26" WC @ 1450°F Thermal Oxidizer Outlet With RA330 Stainless Body and Supertherm Disc and Shaft
ROHN POULENC Hammond, Indiana. USA	1-36" 25010 Pneumatic Refractory BFV
SCM CHEMICAL Hampshire, England	4 - 4" 300# Pneumatic Gate Valve, 310 SST @ 1600 F for 10 PSI 3-8" x 6" x 4" Manual Diverter Incoloy 825, Ceramic Coated Internals
SPX COOLING TECH. Shawnee Mission, KS. USA	72" Butterfly Valve 125 ANSI Flanges 2 – 98" Butterfly Valves with Limatorque Operators Isolating Steam at 15 PSIG and 250 F
SIMPLOT, J.R. Pocatello, ID. USA	1 – 54" Jug Control Valve Alloy 556 internals, Motor operated With Sight Glass on top plate to view process Designed for 10 Psig, 2100F
SIMPLOT PHOSPHATES Rock Springs, WY. USA	1-66" Rolling Slide Gate Valve, Double Block & Bleed Design for Mansafe Blower Isolation With Cowan Pneumatic Cylinder Operator With Fail tank & manual Override



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

<p>TOHO TENAX AMERICA Rockwood, Tn. USA</p>	<p>2 - 42" Refractory Lined Butterfly Valve, 150 ANSI Flanged Ends With Refractory Step seat for 98% shutoff Carbon Steel Body & Flanges RA 330 Stainless Internals 310 Stainless Shaft Sleeves, Outboard Bearings Thermax High Temp Stem Packing, With RCI280SR Pneumatic Spring Return actuator With ASCO 24V Solenoid Valve, Westlock 120V NEMA 4X DPDT Limit Switches and Beacon Indicator, Fail Close 2 - 8" 150 ANSI Frisch Butterfly Valve Hot wall design with extended stuffing boxes All Alloy 330 Stainless Construction With Machined Seat for Class III shutoff With RCEL-15 Electric Motor Operator 120V NEMA 4X, With 4-20mA Servo controller and indicator Fail last position 2- 6" Same as above</p>
<p>USAF Arnold Air Force Base Tullahoma, TN. USA</p>	<p>4-36" Frisch Butterfly Damper, 125 ANSI LW Flat Face Flanged Ends, Carbon Steel Construction, 304 Stainless Steel Shaft, Outboard Thrust Bearings for vertical shaft orientation With Machined Metal Step Seat for ANS B16.104 Class II Shutoff With Rexroth Hydraulic Cylinder operator Cylinder has Integral Linear Transducer for position indication. With a load impedance range of 0 to 650 Ohms, 24V DC Power with DPDT Limit Switches, 120V NEMA 4, Cylinder is capable of stoking valve 90° in 1 Second with a hydraulic fluid supply flow rate of 10GPM @ 1800 PSIG 2-24" Same as above, 2-20" Same as above</p>



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

Volker Stevin Construction Calgary, Ab. Canada	1 – 60” Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle
WELLS CONSTRUCTION Edmonton, AB. Canada	1 – 60” Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle
WRIGHT CHEMICALS Riegelwood, NC. USA	1-46” 25010 Refractory Lined BFV 1-42” 25010 Refractory Lined BFV
WR GRACE Augusta, Georgia. USA	1 - 6” ANSI 900 Slide Gate Valve for 140 PSIG NOX Gases @ 1450°F