



Frisch Engineered Products Inc. Partial Users List – Chemical Plants

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
AGRIUM AGRICULTURAL CHEMICALS Redwater, Alberta. Canada	1-24" Motor Gate Valve SO2 Gas @780F and 8 PSI 1-72" Manual BV Waste Heat Boiler Outlet @ 780 F and 8.9 PSI 2-72" Manual BV Waste Heat Boiler Outlet @ 840 F and 3.4 PSI 1-32" Manual Jug Waste Heat Boiler Outlet @ 1800 F and 8.5 PSI Alloy 556 Construction 1-36" Manual Jug Valve 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 (formerly American Cyanamid) Palmyra, Mo. USA	1 - 24" 150 ANSI Triple Off-set Metal-Seated HPBF All 316 Stainless Wafer Body, 17-4PH Shaft
BP/Amoco Whiting, Indiana. USA	2 – 16" X10"ID Refractory Lined Butterfly Valve with Haynes® Alloy HR160® Internals for acid gas service 14Psig @ 1400°F 2 – 12" X 6"ID Refractory Lined Butterfly Valve
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



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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
COLGATE-PALMOLIVE CO. Cambridge, Ohio USA	3-12" 300ANSI Triple-Offset Metal Seated BFV All 316L Stainless for 1200F and 20Psig 1-14" 300 Same as above
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



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INEOS ACRYLICS Millington, TN. USA	1-54" Slide Gate Valve A516 GR70 Body and Flanges, 304 Stainless Trim With Side Mounted Pneumatic Cylinder Operator.
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
KENNECOTT COPPER, Magna, Utah	1 – 42" Slide Gate Valve All 317L Body and Flanges With 316L internals, Motor Operated
LAFARGE CONSTRUCTION Calgary, AB. Canada	1 – 60" Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle
MARLEY COOLING TECH. Shaunee Mission, KS. USA	72" Butterfly Valve 125 ANSI Flanges 2 – 98" Butterfly Valves with Limitorque Operators Isolating Steam at 15 PSIG and 250 F
MITSUI 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



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<p>MOSAIC FERTILIZERS 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 3-54" Manual BV Bypass Heat Exchanger @ 800 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 5 – 63" 25010 Refractory BFV 10PSIG @ 2100°F With Supertherm Internals and Pneumatic actuator 1 – 63" 25010 Refractory Lined BFV With SiN Ceramic Disc and overlaid Supertherm Shaft</p>
<p>MOTIVA ENTERPRISES Port Arthur, Tx. USA</p>	<p>132" X 132" Refractory Lined Louver With 8 – Incoloy 800HT Parallel Blades With Remote Control Industries D/A Pneumatic Actuator Model RCI2886DA80, Complete with Fisher I/P Positioner. With Volume Tank and Accessories to fail louver open in case of plant air failure</p>
<p>3-M COMPANY Springfield, Mo. USA</p>	<p>3 – 48" Refractory lined BFV Bypass on Thermal Oxidizer 2000°F @ 26" WC</p>



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<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>PVS CHEMICAL Chicago. IL. USA</p>	<p>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</p>
<p>Peak Sulphur (Formerly Arch Chemical and Olin Corporation) Shreveport, LA. USA</p>	<p>2-60” 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” Knife Gate Valve all 316L Stainless with Pneumatic cylinder operator</p>
<p>ROHM & HASS COMPANY Louisville, Ky. USA</p>	<p>1 – 48” Motor Operated BFV 26” WC @ 1450°F Thermal Oxidizer Outlet With RA330 Stainless Body and Haynes® Alloy 230 Disc and Shaft</p>



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ROHN POULENC Hammond, Indiana. USA	1-36" 25010 Pneumatic Refractory BFV 1-30" X 17" Refractory Lined BFV With SiN Ceramic Disc and Shafts For 2200 F @ 10 Psig
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
SEARLES VALLEY MINERALS Trona, Ca.	2 – 8" T- Diverter Carbon Steel Body and Flanges 316L Stainless Disc and Seat
PCS NITROGEN Aurora, NC. USA	1-48" Motorized Slide Gate Valve
TWO LIONS CHEMICAL CO Zhangjiagang, China	1-1800mm Rolling Slide Gate Valve 125ANI Flanged Carbon Steel Body and Flanges with 316L Stainless internals With Parker Pneumatic Cylinder Operator and Controls Package to fail valve in closed position in 15 seconds. 1-2400mm Butterfly Damper With Flanged Ends all 304 Stainless Construction, Motor Operated 2-2100mm Butterfly Damper With Flanged Ends all 304 Stainless Construction, Motor Operated 1-2000mm Butterfly Damper With Flanged Ends all Carbon Steel Construction, Motor Operated 3-1400mm Butterfly Damper With Flanged Ends all 304 Stainless Construction, Motor Operated



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<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>
<p>Volker Stevin 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>WELLS CONSTRUCTION Edmonton, AB. Canada</p>	<p>1 – 60" Guillotine Slide Gate Valve Flanged one side only used to isolate asphalt tank heating bundle</p>
<p>WRIGHT CHEMICALS Riegelwood, NC. USA</p>	<p>1-46" 25010 Refractory Lined BFV 1-42" 25010 Refractory Lined BFV</p>