



## Frisch Engineered Products Inc. Partial Users List - Oil Refineries

<b>ADGAS Desalination Facility</b>	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
<b>Desalination Facility</b>	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
<b>Desalination Facility</b>	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 2-16" Same as Above
<b>Desalination Facility</b>	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
<b>ALTONA (EXXON) PETROLEUM Australian Oil Refining Melbourne, Australia</b>	1 - 81" Cylinder Control BV For 1500°F Erosive Service 8" Refractory Lined, 316 SS Disc and Shaft with Stellite® 6B Hard Facing, RCC Gas service 1 - 66" Cylinder Control BV For 1500F Erosive Service 8" Refractory Lined, 316 SS Disc and Shaft with Stellite®



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	6B Hard Facing
<b>ASHLAND (MARATHON) PETROLEUM</b> Ashland, Kentucky. USA RCC Complex	1 - 75" Butterfly Valve for RCC Gases @ 1500F and 3.8 PSIG TAG 2-116-HVC-10 1 - 89" Butterfly Valve for MRS Gases @ 1600F and 3.8 PSIG TAG 2-116-HVC-11
<b>BP/AMOCO</b> Whiting, Indiana. USA	2 - 16" X10"ID Refractory Lined Butterfly Valve with Haynes <sup>®</sup> Alloy HR160 <sup>®</sup> Internals for acid gas service 14Psig @ 1400°F 2 - 12" X 6"ID Refractory Lined Butterfly Valve
<b>CHEVRON ENERGY</b> El Segundo, California	1 - 36" Manual BV Heat Exchanger Outlet @ 550F
<b>GLOBAL OCTANES</b> Deer Park, Texas. USA	1 - 54" 300 ANSI Butterfly Valve 347 Stainless Steel Construction For Flue Gas @ 1200F & 15 PSI Turbine Inlet Control Valve ANSI B16.104 CL IV Shut Off
<b>LG-CALTEX REFINING</b> Seoul, Korea	12", 16", 18" & 20" Butterfly Dampers All 304 Stainless With <i>Fisher</i> <sup>®</sup> 1052 Actuators with <i>Fisher</i> <sup>®</sup> DCV 6020 <i>Fieldvue</i> <sup>®</sup> Positioners.
<b>MARATHON OIL</b> Garyville, Louisiana, USA	1 - 42" CB100 BFV 2 - 96" GV105 Gate Valve Motorized 2 - 72" CB100 BFV
<b>MOBILE OIL</b> Chalmette, Louisiana, USA	20 - 4" Manual Slide Gate Valves For Soot Blower Isolation Service 5 PSI @ 1100F 5 - 4" Pneumatic Slide Gate Valves Soot Blower Isolation, 5 PSI @ 1100F



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<b>MOTIVA ENTERPRISES</b> <b>Port Arthur, Tx. USA</b>	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
<b>PETRONOR REFINERY</b> <b>c/San Martin</b> <b>5 Muskiz, Spain</b>	1- 60" Rolling slide gate valve 150 ANSI B16.47 Series B Flanged Ends All 347H Stainless Steel, Incoloy 800H Shaft 1- 42" Same as above, 304 Stainless Steel 2- 60" Butterfly Valves 150 ANSI B16.47 Series B Flanged Ends All 347H Stainless Steel, Incoloy 800H Shaft 1- 42" Butterfly Valve Flanged Ends 304 Stainless Construction Waste Heat Boiler Isolation Valves
<b>SHELL OIL</b> <b>Norco, Louisiana, USA</b>	1 - 20" RB102 BFV Refractory 347 SST internals Hot Gas Bypass on H <sub>2</sub> S Reaction Furnace For acid gases @ 1200F & 15 Psig
<b>SHELL REFINING</b> <b>Geelong, Australia</b>	1 - 54" 300 ANSI Butterfly Valve All 304H with Rotork Hydraulic Actuator Turbo Expander Inlet Control 65 PSI @ 1400F on FCCU 1 - 32" 300 ANSI BFV All 304H with Hard Faced body & disc with Rotork Hydraulic Actuator For Turbo Expander Bypass 65 PSI @ 1400F Flue gas w/catalyst Fines on FCCU
<b>SHELL REFINING</b> <b>Sarnia Refinery</b> <b>Sarnia , Canada</b>	1 – 78" Inlet X 125" X 70" Outlet Slide Gate Valve Stack Breeching Isolation Valve. Flanged Ends A516GR70 Construction, 700F at 5 Psig



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<p><b>SHELL REFINING</b>  <b>Montreal East Facility</b>  <b>Montreal, Que. Canada</b></p>	<p>2 – 64” Flanged Butterfly Valves  All 304H Stainless Construction  Machined Seat for Class III Shutoff  1500 F Service  With Bettis Pneumatic actuator</p>
<p><b>SHELL INTERNATIONAL</b>  <b>Na Kika Offshore Platform</b>  <b>Gulf of Mexico</b></p>	<p>5 – 48” 125 ANSI Flanged Butterfly Damper  All 304 Stainless Construction, With metal Step  Seat  With Morin Spring Return Pneumatic Actuator and  Fisher Fieldvue Smart Positioner  5 – 48” 125 ANSI Flanged Butterfly Damper  All 304 Stainless Construction, With Tadpole Step  Seat for FCI 70-2 Class III Shutoff  With Morin Spring Return Pneumatic Actuator and  Fisher Fieldvue Smart Positioner</p>
<p><b>TESORO GOLDEN EAGLE</b>  <b>REFINERY, Martinez , Ca. USA</b></p>	<p>75” x 67” Slide Gate Valve, Motor Operated  A387 GR11 Construction, 304 Stainless Trim,  Stellite Seat  For Stack Isolation for waste Heat Boiler 1100F at  2 Psig</p>
<p><b>TESORO REFINERY</b>  <b>Mandan, ND. USA</b></p>	<p>1 – 8” x 4” Refractory Lined BFV  Carbon Steel Body, 347H internals  For 15 Psig @ 1400F.</p>