

Improve Performance with Fisher's Dirty Service Trim

RESULTS

- Within two weeks both control valves were up and running with DST trim sets
- The customer was so satisfied with the performance, they converted three more valves to DST that same month
- All five valves have been running for 18 months with no problems

APPLICATION

HC Pump Bypass

CUSTOMER

An oil company's operating in Alberta converts bitumen to synthetic oil at an upgrading facility.

CHALLENGE

The company's operations group called Spartan about control valves that were plugging.

During start up of the Residue Stripping Unit (RSU), the flow through two valves with small passages dropped significantly for no obvious reason. The valves were pulled from the line and disassembled. The cages were plugged with catalyst that had carried over from an upstream reactor. Although not expected, Operations determined this "carry over condition" could occur during normal operations. Commissioning and start up of the RSU could not continue until this plugging problem was resolved. The customer needed a quick long-term solution.

PROCESS CONDITIONS

Fluid	Stripper LT Distillate
P1	19,100 kPag
P2	150 kPag
Temp	90°C
Pv	137 kPag



"The large passages in the DST allow particulate to flow easily through the valve."



Severe Service



SPARTAN CONTROLS

OILSANDS AND REFINING

SOLUTION

The application required an anti-cavitation style trim, but without small holes or passages that could trap catalyst fines.

Fisher's Dirty Service Trim (DST) is suited to the application requirements. DST prevents cavitation by staging the pressure drop. The large passages in the DST allow particulate to flow easily through the valve. The customer needed the valve trim in a week. Emerson's instrument and Valve Service Centre, location in Edmonton, manufactured the trim sets on time. Their trained technicians installed the trim sets in the existing valves.



“The customer was so satisfied with the performance, they converted three more valves to DST that same month.”

305 - 27 St SE 8401 - 51 Ave 11419 - 98 Ave 300B MacKenzie Blvd 475 Maxwell Cres 206B, 2750 Faithful Ave 104, 19329 Enterprise Way 10919 Alaska Road
Calgary, AB Edmonton, AB Grande Prairie, AB Ft. McMurray, AB Regina, SK Saskatoon, SK Surrey, BC Fort St. John, BC
(403) 207-0700 (780) 468-5463 (780) 539-1161 (780) 790-0440 (306) 721-6925 (306) 934-3484 (604) 539-7250 (250) 785-0285



For more information: www.spartancontrols.com
www.fishersevereservice.com



SPARTAN CONTROLS