



For *Severe Service* Control Solutions, Turn to Fisher Technology & Innovation

## Control Valve Case History

Industry: Gas Processing  
Application: Cryogenic C3<sup>+</sup> Separator Dump

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### Overview:

An Alberta based OEM was contracted to supply packaged separation units for an Alberta Gas producer. This control valve is a dump valve used on the bottom of the separator to control the condensate level. It was controlling Hydrocarbon Liquid at a very cold temperature. They had requested a cryogenic valve suitable for -200 Deg C (operating temperature is - 54 Deg C).

### Process Conditions:

Fluid: C3 + (propane)

	Normal	Maximum
Inlet P KPag	7446	6963
Outlet P KPag	5391	4874
Temp Deg C	- 54	- 54
Flow kg/hr	1200	1500

### Solution:

The customer requested a globe valve suitable for cryogenic service. Spartan offered a 1 " EZ-C 600# control valve with suitable trim and body materials including an extension bonnet. This valve is suitable for a lower Temperature range of - 200 Deg C.

### Customer Benefits:

The cold temperature design provided by Fisher and Spartan is suitable for - 200 Deg C. The extension bonnet removed the valve packing from the extreme cold process in the valve, and allowed easier maintenance of the packing.



SPARTAN CONTROLS

CH1 Cryogenic C3 Separator Dump EZ-C.doc

