



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

## Control Valve Case History

Industry: Oil Production  
 Application: Cryogenic Hydrocarbon Separator Dump

### Overview:

An Alberta based OEM was contracted to supply packaged separation units for an Alberta producer's gas production project. This control valve is a separator dump valve used on the bottom of the separator to control the liquid level. It would be controlling Hydrocarbon Liquid at a very cold temperature. They had requested a cryogenic valve suitable for  $-200$  Deg C (their operating temperature is  $-146.1$  Deg C).

### Process Conditions:

Fluid: Hydrocarbon Liquid

	Normal	Maximum
Inlet P KPag	5646.8	6895
Outlet P KPag	446.8	6895
Temp Deg C	- 146.1	- 146.1
Flow kg/hr	8273.5	8273.5

### Solution:

The customer requested a globe valve suitable for cryogenic service. We offered a 1 ½ " EZ-C 600# Fisher Control Valve, with suitable trim and body materials. This valve also included a Whisper 1 style cage. This valve is suitable for a lower Temperature range of  $- 146.1$  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 makes for easier maintenance of the packing.



SPARTAN CONTROLS

CH1 Cryogenic Separator Hydrocarbon Dump EZ-C.doc

