N2 gas switch for Fusion/Quantiva

Advancing Proteomics

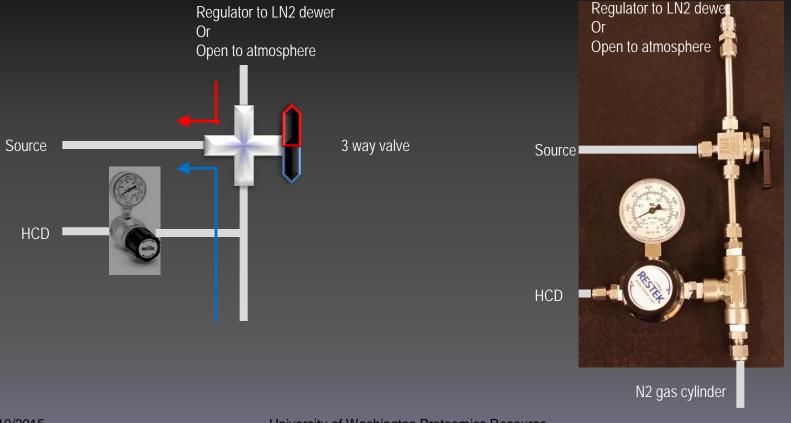
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• The Fusion and Quantiva use a lot of N2 gas for the HESI source, in standby the system will use a cylinder/day

• Since we are using the NSI source we don't that much N2 gas. So we developed a switch value to be able to switch from an LN2 dewer (or atmosphere) to N2 cylinders, below is a design we use on our Fusion

N2 gas switch for Fusion/Quantiva



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N2 gas switch for Fusion/Quantiva

Regulator to LN2 dewer

Open to atmosphere

Or

Source

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• Parts:

All parts are from Swagelok Except regulator

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22452 Ultra-High Purity Chrome-Plated Brass Line Gas Regulator, 1/4" female NPT ports, 0 to 150 psig (Restek)

SS-200-1-4 SS Swagelok Tube Fitting, Male Connector, 1/8 in. Tube OD x 1/4 in. Male NPT

> **SS-4-HN** Stainless Steel Pipe Fitting, Hex Nipple, 1/4 in. Male NPT

HCD

Connect to the LN2 dewer via a regulator, we use quick connects: SS-QC4-S-400 SS Instrumentation Quick-Connect Stem w/o Valve, 0.3 Cv, 1/4 in. Swagelok Tube Fitting SS-QC4-B-400 SS Instrumentation Quick-Connect Body, 0.2 Cv, 1/4 in. Swagelok Tube Fitting

¼ " ss tubing

SS-43GXLS4 SS 1-Piece 40G Series 3-Way Ball Valve, 0.90 Cv, 1/4 in. Swagelok Tube Fittings, L Flow Path

¼" ss tubing

SS-400-1-4 SS Swagelok Tube Fitting, Male Connector, 1/4 in. Tube OD x 1/4 in. Male NPT

SS-4-T Stainless Steel Pipe Fitting, Tee, 1/4 in. Female NPT

SS-400-1-4 SS Swagelok Tube Fitting, Male Connector, 1/4 in. Tube OD x 1/4 in. Male NPT

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N2 gas cylinder