

Advanced Sensor Technologies, Inc.

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Safety Double 1¼" Ball Valve Assembly for 1.0" O.D. Valve Retractable Sensor (HOT TAP) Assemblies

Specification	Value	Supporting Lit. / Specification	Reference/ Value
Temperature Range	-30 to 150 Degrees Celsius (-22 to 302 Degrees Fahrenheit) NOTE: Do not use any sensor past its recommended Temp. Rating	Cross-Sectional Schematic	Double Ball Valve Cross Sectional Schematic
Pressure Range	1 to 100 psi (6.9 to 690 kPa absolute) NOTE: Do not use any sensor past its recommended Pressure Rating	Installation Procedure	See attached Double Ball Valve Installation and Operations Instructions
Operating pH range	-0.5 to 14.5 max range NOTE: Do not use any sensor past its recommended pH Rating	Valve Retractable pH, ORP, Ion Sensors for Ball Valve Assembly	Models 9X31 & 9X41
Dissolved Gasses Resistant	Chlorine, Chlorine Dioxide, NOx, Ozone, Hydrogen Sulfide, Hydrogen Cyanide (standard) Inquire about other gasses	Safety HOT TAP Mounted Sensors for Valve Retraction	Models 6X12, 6X32 & 6X42
Process Connection 1- ¼" Ball Valve (2 each)	316 SS: 1 ¼" MNPT X 2" Full Port 316 SS with Teflon Seats	Recommended Piping Installation	Safety HOT TAP Assembly; See attached Piping Drawing
Connecting Nipple with purge port and vent valve 1 ¼"-1" Reducer & 1" Compression Fitting	316 SS		
Compression Fitting Ferrule	Teflon Application Specific Ferrules available, Inquire to ASTI	Insertion Depth past Process Connection	14 inches (~ 35 cm) Inquire to ASTI for longer insertion depths, (up to 60 inches in clean solution)
Gas/Pressure Seal	O-Ring, Viton # 214 (standard) Application Specific O-Rings available, Inquire to ASTI	Overall Length of Double Ball Valve Assembly	17.5 inches (~44 cm)
Back End Blowout Protection	Wire Rope harness, to be threaded through ½" MNPT X 1½" SS Nipple or Safety HOT TAP Piping Assembly - 1.080" Diameter oversized lip on 1.0" 9X31 & 9X41 Valve Retractable Sensor, to stopout against 1-1/4" X 1" reducer;		
Front End Blowout Protection	- 1.160" Oversized Blowout Ring/Sensor Holder Coupling to stopout against reducer		

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