

**ADVANCED SENSOR TECHNOLOGIES, INC.**  
**VALVE RETRACTION / SENSOR INSERTION BILL OF MATERIALS & PART NUMBERING GUIDE**  
**EFFECTIVE AUGUST 1ST, 2007**

**Fittings Component List - ASSY**

**316SS Full Port Ball Valve  
(Connected to Process)**

**1-1/4" for 3/4" NPT Sensors**

1-1/4" 316SS Full Port Ball Valve with Teflon Seats, Washers, Gaskets & Packing; Rated to 1000 psig

**1-1/2" for 3/4" & 1"\* NPT Sensors**

1-1/2" 316SS Full Port Ball Valve with Teflon Seats, Washers, Gaskets & Packing; Rated to 1000 psig

**2" for 3/4" & 1" NPT Sensors**

2" 316SS Full Port Ball Valve with Teflon Seats, Washers, Gaskets & Packing; Rated to 1000 psig

**1/2" Full Port Ball Valve  
For Vent & Purge Operation**

1/2" Full Port Ball Valve with close 316SS nipple connection for use as purge port and vent valve to support sensor insertion and removal

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1/2" Full Port Ball Valve with close 316SS nipple connection for use as purge port and vent valve to support sensor insertion and removal

**1" MNPT X 1.0" O.D.  
Compression Fitting  
For Insertion Tube Sealing**

1" MNPT X 1.0" O.D. 316SS Compression Fitting; Available with Teflon & Nylon Compression Ferrules  
SUPPORTS INSERTION TUBES FOR BOTH 3/4" & 1" MNPT SENSORS

1" MNPT X 1.0" O.D. 316SS Compression Fitting; Available with Teflon & Nylon Compression Ferrules  
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SUPPORTS INSERTION TUBES FOR BOTH 3/4" & 1" MNPT SENSORS

**Stock 316SS Parts List - ASSY**

**1-1/4" for 3/4" NPT Sensors**

Description of Part (1 each) 1-1/4" Thread X Thread Pipe Tee  
 Description of Part (1 each) 1-1/4" MNPT X 6" Long Nipple  
 Description of Part (2 each) 1-1/4" Close Nipple  
 Description of Part (1 each) 1-1/4" X 1/2" Reducer Bushing  
 Description of Part (1 each) 1-1/4" X 1" Reducer Coupling Bell  
 Description of Part (1 each) 1/2" Close Nipple

**1-1/2" for 3/4" & 1"\* NPT Sensors**

1-1/2" Thread X Thread Pipe Tee  
 1-1/2" MNPT X 6" Long Nipple  
 1-1/2" Close Nipple  
 1-1/2" X 1/2" Reducer Bushing  
 1-1/2" X 1" Reducer Coupling Bell  
 1/2" Close Nipple

**2" for 3/4" & 1" NPT Sensors**

2" Thread X Thread Pipe Tee  
 2" MNPT X 6" Long Nipple  
 2" Close Nipple  
 2" X 1/2" Reducer Bushing  
 2" X 1" Reducer Coupling Bell  
 1/2" Close Nipple

Valve Retraction Hardware with Teflon / Nylon Ferrules \*\*  
 Approximate Ship Weight

**HOTTAP-ASSY-1-1/4"-316SS-ZZZ\*\*\*\***  
 10 pounds each

**HOTTAP-ASSY-1-1/2"-316SS-ZZZ\*\*\*\***  
 15 pounds each

**HOTTAP-ASSY-2"-316SS-ZZZ\*\*\*\***  
 20 pounds each

1" Compression Fitting Assy Only \*\*\* with Teflon / Nylon Ferrules  
 Approximate Ship Weight

**HOTTAP-COMP-1"-316SS-ZZZ\*\*\*\***  
 2 pounds each

**HOTTAP-COMP-1"-316SS-ZZZ\*\*\*\***  
 2 pounds each

**HOTTAP-COMP-1"-316SS-ZZZ\*\*\*\***  
 2 pounds each

1.0" O.D. 36" 316SS Insertion Tube for 3/4" MNPT Sensors  
 Approximate Ship Weight

**HOTTAP-TUBE-3/4"NPT-316SS**  
 2 pounds each

1.0" O.D. 36" 316SS Insertion Tube for 1" MNPT Sensors

**HOTTAP-TUBE-1"NPT-316SS**  
 2 pounds each

\* 1" NPT Sensors not recommended for 1-1/2" Valve Assemblies except for low viscosity installations to avoid clogging during removal / insertion  
 \*\* 1" Insertion Tube for 3/4" & 1" NPT Sensors NOT Included in Valve Retraction Hardware Price  
 \*\*\* This compression fitting assembly is only intended as a replacement part for existing customers!  
 \*\*\*\* IF TEFLON FERRULES REQUIRED, ZZZ = TEFLON, IF NYLON FERRULES REQUIRED, ZZZ = NYLON