

Gas Probe <u>Inlet Deflectors</u> & <u>Porous Filters</u> ASI Model DFL/PFT Series

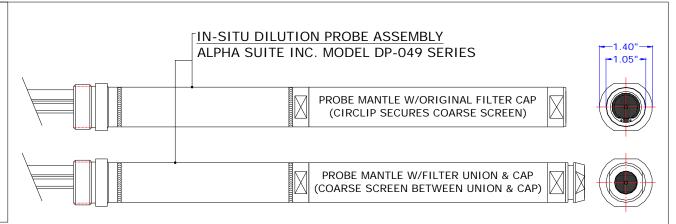


For your CEMS, RATA, and PROCESS GAS Sampling ...



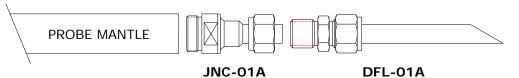
THE ASI PARTICULATE DEFLECTORS AND PARTICULATE FILTERS SHOWN ARE USED IN CONJUNCTION WITH ASI IN-SITU UNHEATED PROBES. A SPECIALLY DESIGNED "JOINER CAP" ASSEMBLY ("JNC") IS USED IN THIS SERIES.

THE EXAMPLES HEREIN SHOW THE "DFL-01A" DEFLECTOR ATTACHED. HOWEVER, ANY DEFLECTOR (DFL) OR POROUS TUBE (PFT) LISTED MAY BE ATTACHED TO THE JOINER (JNC).

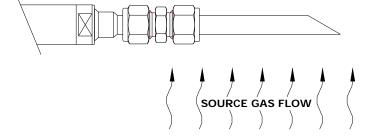


DEFLECTOR TUBE ASSEMBLY:

!! JOINER CAP USES A MODIFIED VERSION OF THE "ORIGINAL STYLE CAP"... NOTE: THE CIRCLIP AND COARSE SCREEN CANNOT BE USED HERE.

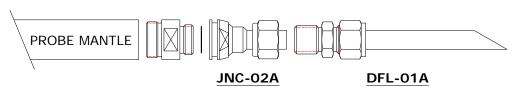


COMPLETED ASSEMBLY:

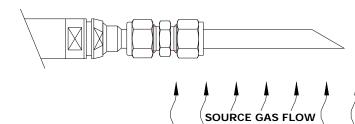


DEFLECTOR TUBE ASSEMBLY:

!! JOINER CAP USES A MODIFIED VERSION OF THE "NEWER STYLE CAP"... NOTE: THE UNION AND COARSE SCREEN ARE USED HERE.



COMPLETED ASSEMBLY:

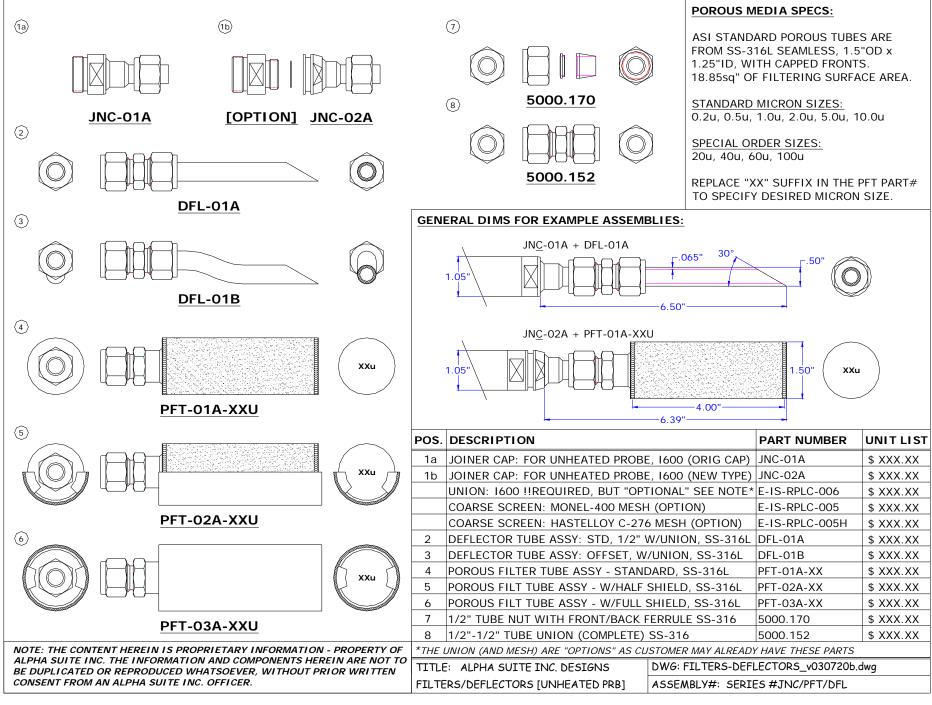


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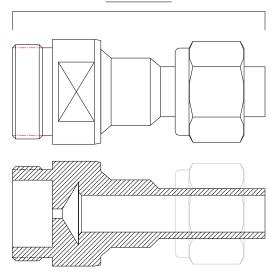
www.alphasuite.com

TITLE: ALPHA SUITE INC. DESIGNS FILTERS/DEFLECTORS [HEATED PROBES] | ASSEMBLY#: SERIES #JNF/PFT/DFL

DWG: FILTERS-DEFLECTORS v070919a.dwg



JNC-01A



NOTES:

- 1. THE <u>JNC-01A</u> IS A COMPLETE "JOINER" ASSEMBLY, READY TO ATTACH TO THE PROBE'S FRONT MANTLE.
- 2. THIS ASSEMBLY USES A MODIFIED ASI #E-IS-RPLC-015 FILTER CAP, BUT CAN NO LONGER USE THE COARSE SCREEN AND CIRCLIP WHICH WAS ORIGINALLY PART OF THAT ASSEMBLY.
- 3. THIS ASSEMBLY STILL MAINTAINS THE ORIGINAL "BARRIER HOLE" (AS SHOWN ON LEFT OF THE ASSEMBLY). THIS SMALL HOLE SEPARATES THE PROBE'S "SAMPLING CHAMBER" FROM THE SOURCE STREAM, AND THEREFORE ALLOWS LOW-FLOW CALIBRATION GAS TO EFFECTIVELY PRODUCE A "BARRIER" FROM SOURCE GAS ENTRY DURING CAL.
- 4. THE JNC-01A WAS DEVELOPED SPECIFICALLY FOR THE ASI UNHEATED IN-SITU GAS PROBES, BUT CAN (IN SOME CASES) BE USED IN CONJUNCTION WITH SOME OF THE OLD "KVB" TYPE PROBE HEATER ASSEMBLIES. CONTACT ASI FOR FURTHER DETAILS.
- 5. WITH A JOINER ASSEMBLY ATTACHED, VARIOUS TYPES OF ASI PARTICULATE DEFLECTORS ("DFL") OR POROUS FILTER TUBE ASSEMBLIES ("PFT") CAN THEN BE ATTACHED TO THE FRONT.

JNC-02A

NOTES:

- 1. THE <u>JNC-02A</u> REQUIRES A SPECIAL UNION (ASI #E-IS-RPLC-006, SHOWN ON THE LEFT) TO COMPLETE THE ASSEMBLY, WHICH CAN THEN BE ATTACHED TO THE PROBE'S FRONT MANTLE. IF THE CUSTOMER ALREADY USES THIS UNION, THE FRONT CAP IS SIMPLY CHANGED TO THE JNC-02A. OTHERWISE THE UNION ASI #E-IS-RPLC-006 CAN BE PURCHASED SEPARATELY.
- 2. THIS ASSEMBLY USES A MODIFIED ASI #E-IS-RPLC-004 FRONT CAP, WHICH CAN STILL USE THE COARSE SCREEN WHICH WAS ORIGINALLY PART OF THAT ASSEMBLY.
- 3. THIS ASSEMBLY (WITH UNION) STILL MAINTAINS THE ORIGINAL "BARRIER HOLE" (AS SHOWN ON LEFT OF THE ASSEMBLY). THIS SMALL HOLE SEPARATES THE PROBE'S "SAMPLING CHAMBER" FROM THE SOURCE STREAM, AND THEREFORE ALLOWS LOW-FLOW CALIBRATION GAS TO EFFECTIVELY PRODUCE A "BARRIER" FROM SOURCE GAS ENTRY DURING CAL.
- 4. THE JNC-02A WAS DEVELOPED SPECIFICALLY FOR THE ASI UNHEATED IN-SITU GAS PROBES, BUT CAN STILL BE USED IN CONJUNCTION WITH ANY OF THE ASI OR OLD EPM TYPE PROBE HEATER ASSEMBLIES. IF USING AN ASI PROBE HEATER, WE SUGGEST USING THE JNF-01A JOINER FLANGE ASSEMBLIES INSTEAD OF THE JNC-02A. THE JNF-01A ATTACHES TO HEATER TIP AND REDUCES HEAT TRANSFER/LOSS. CONTACT ASI FOR FURTHER DETAILS.

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TITLE: ALPHA SUITE INC. DESIGNS
JOINER CAP ASSEMBLIES ["JNC"]

DWG: JOINER-CAP-ASSEM-CS_v071819a.dwg
ASSEMBLY#: SERIES #JNC/PFT/DFL

THE ASI PARTICULATE DEFLECTORS AND PARTICULATE FILTERS SHOWN ARE USED IN CONJUNCTION WITH ASI IN-SITU HEATED PROBES. A SPECIALLY DESIGNED "JOINER FLANGE" ASSEMBLY ("JNF") IS USED IN THIS SERIES.

THE EXAMPLES HEREIN SHOW THE "DFL-01B" AND "PFT-02A" ATTACHED. HOWEVER, ANY DEFLECTOR (DFL) OR POROUS TUBE (PFT) LISTED MAY BE ATTACHED TO THE JOINER (JNF).

