1. **GENERAL**

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

1.1 RELATED SECTIONS

 .1 23 .. ..

1.2 REFERENCES

 .1 ASME – American Society of Mechanical Engineers.

 .2 CRN – Canadian Registration Number

 .3 ANSI – American National Standards Institute.

 .4 ISO – International Standards Organization

1.3 SUBMITTALS

 .1 Submit data cover sheet.

 .2 Dimensional print(s).

 .3 Pressure drop graphs.

 .4 Installation & Servicing manual.

1.4 ASSURANCE

.1 The product manufacturer shall be fully certified by the International Organization for Standardization 9001 – Quality Management Systems & ISO 14001 Environmental Management Systems

**Part 2 PRODUCTS**

2.1 MAGNETIC DIRT FILTERS

.1 Standard of acceptance: *ADEY® MagnaClean®* (model DRX 2”, 3”, & 4”).

 .2 The magnetic filter shall be designed, constructed, and stamped in accordance with Section VIII, Division I of the ASME Boiler and Pressure Vessel Code, and registered with the Canadian Registration Number.

 .3 The magnetic filter shall come with over 40 High Power, NdFeB, neodymium magnets

.4 The magnetic filter magnets should on a external spring-loaded clamp to facilitate routine cleaning/servicing

.5 The magnetic filter shall be rated for 145 psi (10 bar) maximum working pressure, or 232 PSI (16 bar) if AMSE is not a requirement

 .6 The magnetic filter shall have a maximum temperature rating of 212°F (100°C).

.7 The magnetic filter shall have versatile installation options: vertically and horizontally due to the configuration of the air vent and drain point

 .7 The magnetic filter body shall be made of 304L stainless steel

 .8 The magnetic filter shall be supplied with ASME B16.5 Class150 flanges

 .9 The magnetic filter shall be supplied with EPDM gaskets

 .11 The magnetic filter body shall be at least two times the nominal inlet/outlet pipe diameter

 .12 The magnetic filter shall include a threaded blow down connection to allow for magnetite and debris to be regularly cleaned out of the unit

 .13 The magnetic filter shall include a threaded air removal connection on top of the unit so the pressure can be released as part of servicing the unit

 .14 Flange end connections should be designed according to ANSI Standards

2.2 ACCESSORIES

 .1 Magnetic Dirt Filters Accessories

 .1 Thermal Jacket

**Part 3 EXECUTION**

3.1 INSTALLATION

 .1 Install magnetic filter in accordance with manufacturer’s instructions.