Prater-Sterling Rotary Airlock Valve Application Data Sheet Date Company Project No _____ Contact ____ Title Lead Source Address RSM Rep City/State/Zip Phone Proposal Required By Fax Anticipated Close Date Email Many important factors determine the size, speed, horsepower, and design features of a Prater-Sterlng Rotary Airlock Valve. Please complete this questionaire and review it with your Prater-Sterling application engineer to assure the airlock will be a properly designed component of your system. WHICH FUNCTION BELOW BEST DESCRIBES THE PURPOSE OF THIS VALVE? ☐ Yes ☐ No Is this a replacement Valve? AIRLOCK: Does not FEEDER: Controls flow of FEEDER/ AIRLOCK: Unit acts MAKE: control the flow of material, no significant as an air seal (pressure If YES, What is the material. Acts as an air pressure differential. differential) and controls flow. MODEL: valve MFG? seal only. SERIAL #: 1. PROCESS FLOW/ STACKUP 3. CONDITIONS ABOVE THE VALVE 5. MATERIAL PROFILE Use the space below to describe/ sketch your process: Hopper Silo Mixer Product: ☐ Cyclone Screw Chem Formula: Filter/ Receiver Dryer Bulk Density, Aerated: lbs/ cu ft Dust Collector Shredder/ Mill Bulk Density, Settled: lbs/ cu ft Other (explain): Particle Characteristics (check all that apply): Pressure Above the Valve Is: Powder Fibrous Sticky Pos. Neg. Atmospheric Pellet Corrosive Packs "Hg "H2O PSI Lumps Hygroscopic Flake Explosive Temperature Above Valve: Granular ☐ Toxic- Fumes Will the valve operate under a head of material? Chips ☐ Heat Sensitive Yes No Curls Pharmaceutical 4. CONDITIONS BELOW THE VALVE Other (explain): Hopper Screw Airslide Max Particle Size: Mixer Belt Chute Angle of Repose: Tank Pneu. Conveying Line How abrasive is this product? Other (explain): Mild ☐ Moderate ☐ Extreme Mohs Hardness: Pressure Below the Valve Is: Pos. Neg. Atmospheric 6. MISCELLANEOUS "Hg "H2O Inlet Flange Req: Temperature Below Valve: Outlet Flange Req: Distance from Blower to Valve: Duty Cycle: Hrs/ Day Days/ Yr Heat Exchanger Used: Yes Location: ☐ In Plant Outdoor ΔT Across Blower/ Heat Exchar: Freq./Voltage Req.: Motor Rating: ☐ TEFC ☐ XP Blower HP/ Make/ Model: Material Contact CI/ CS SS NFPA 7. OTHER REQUIREMENTS 2. DISPLACEMENT Nominal Displacement per Hour-Tons _____Lbs __ Cu Ft Max Rate: Min Rate: Valve will be driven by VFD? ☐ Yes ☐ No