Prater-Sterling Rotary Airlock Valve Application Data Sheet Date _____ Company____ Project No Contact Lead Source Title RSM_____ Address _____ 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-Sterling 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? Is this a replacement Valve? ☐ Yes ☐ No AIRLOCK: Does not FEEDER: Controls flow FEEDER/ AIRLOCK: Unit MAKE: _____ control the flow of of material, no acts as an air seal (pressure If YES. What is the material. Acts as an air significant pressure differential) and controls flow. MODEL: valve MFG? seal only. differential. SFRIAL # 3. CONDITIONS ABOVE THE VALVE 1. PROCESS FLOW/ STACKUP 5. MATERIAL PROFILE Use the space below to describe/ sketch your process: Silo Mixer Hopper Product: Cyclone Screw Chem. Formula: ☐ Dryer Filter/ Receiver Bulk Density, Aerated: lbs/ cu ft Dust Collector Shredder/ Mill Bulk Density, Settled: lbs/ cu ft Particle Characteristics (check all that apply): Other (explain): Fibrous Powder Pressure Above the Valve Is: Sticky Packs Pos. Neg. Atmospheric Pellet Corrosive Lumps Hygroscopic Flake Explosive Temperature Above Valve: Granular Toxic- Fumes Will the valve operate under a head of material? Chips ☐ Yes ☐ No Heat Sensitive Pharmaceutical Curls 4. CONDITIONS BELOW THE VALVE Other (explain): Airslide Hopper Screw Max Particle Size: Belt Chute Mixer 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 Inlet Flange Req: Temperature Below Valve: Outlet Flange Req: Duty Cycle: Hrs/ Day Distance from Blower to Valve: Days/ Yr ☐ Yes ☐ No Outdoor Heat Exchanger Used: ΔT Across Blower/ Heat Exchgr: Freq./Voltage Req.: ☐ XP ☐ TEFC Blower HP/ Make/ Model: Motor Rating: 2. DISPLACEMENT 7. OTHER REQUIREMENTS Nominal Displacement per Hour-Tons Lbs Cu Ft Max Rate: Min Rate: