

PDC Product Applications

PDC is a USA manufacture of cast damper butterfly valves and a future check valve that are preliminary used in air management systems. Typical valve applications are used to control and modulate air systems. The valve design is to be used on low pressure and high temperature air systems. Typical customers are in the following fields: Blower & Compressors, Furnaces for Steel & Glass production, Engine Company Test Centers, Hot Air Combustion / Exhaust Lines for Fuel Cell Power Systems, Power Gen / Co-Generation Air Systems, HVAC Commercial Piping Systems, Boilers Systems, Air Pollution Environmental Manufactures, OEM Equipment Manufactures for Cement Plants.

The majority of our sales are to Original Equipment Manufacturers who use our valves as a part of their designed system. Our valves are used as a key component part of their systems and have been used worldwide.

Features & Benefits:

PDC's metal seat designs have low seating torques allowing for a less expensive automation package.

Features & Benefits for High Temperature applications:

The PDC Series 40 Excel valve is a relatively low cost alternative to a High Performance Butterfly Valve were a leakage of Class 3 (approaching Class 4) is acceptable.

Valve Offering by Model:

Series 09 Econotrol

Base construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges with 4 alignment holes.

Size range: 2-14 inch Max Temp: 450°F

The valve is used as a control valve to create a Delta P in a pipe line. It is an air control valve that is used in modulating applications typically Blowers and Compressors. It is only offered with a swing thru clearance seated design. The Non seat design allows for a high CV and a clear pathway for the media.

Series 01 Medium Duty

Base construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges with 4 alignment holes. Additionally, the Medium Duty Valve can be rated for up to 900°F with optional materials of construction and has optional seat designs (Swing, Angle, Step and Tadpole Step).

Size range: 2-24 inch Max Temp: 900°F

The Medium Duty valve is used as a control valve and also as a low leakage isolation valve with the optional Metal or Tadpole step seat. Major applications are for Furnace and Environmental Pollution Control Systems.

Series 40 Excel

Base construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges with 4 alignment holes. Additionally, the Series 40 Excel Valve can be rated for up to 1500°F with optional materials of construction and has optional seat designs (Swing, Angle, Step and Tadpole Step).

Size range: 2-60 inch Max Temp: 1500° F

The Excel valve is used in all low pressure / high temp applications up to 1500°F. Typical applications are for Furnace, Fuel Cell and Engine compressor exhaust bypass lines.

Series 07 Thread End

Base Construction: Body: Cast Iron / Disc: Carbon Steel / Shaft: 416 Stainless Steel, this design has NPT Threads on both ends.

Seat: Angle or Swing thru

Size: 1- 4 inch Max Temp: 300°F at 5 psi Delta P.

Used as a trim valve on low pressure gas & air lines. Furnaces and pneumatic conveyor systems are typical uses.

Series 39 Flanged End

Base Construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges.

Temp: Max 450° F

Typical applications are for blowers requiring the Flange x Flange design.

Series 15 Reduced Port

Base Construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges with 4 alignment holes. Additionally, the Reduced Port Valve can be rated for up to 900°F with optional materials of construction and has optional seat designs (Swing, Step & Tadpole Step).

Sizes: 3x2.5, 4x3, 5x4, 6x5, 8x6, 10x8, 12x10, 14x12 (inch x inch).

Temp Max: 900° F

Typical applications are for furnaces requiring a way to achieve a pressure drop in their process lines.

Series 22 Combustion Valve

Base Construction: Body & Disc: Cast Iron / Shaft: 416 Stainless Steel / Bushing: Graphited Bronze / Packing Nut: Stainless / Seat: Swing Thru / Wafer design based on 125/150lb ANSI flanges with 4 alignment holes.

Sizes: 2-12 inch Max Temp: 900° F

Is a Low Pressure Trim Valve.

Typical applications are for furnaces requiring a manual set and forget trim valve to balance their airline system.

Series 27 Elastomer Valve

Base Construction: Body: Ductile Iron / Disc: Stainless steel / Seat: EPDM / with Manual, Pneumatic or Electric Automation.

Size: 2"-24" Wafer or Lug Bodies / Class 150

Typical applications are for water and air applications requiring a tight shut off. HVAC & Blowers use this valve as an isolation valve.

Notes: PDC has a complete machine shop to build and automate all of our valves.

PDC offers all automation packages: manual, pneumatic & electric for all our valves.

PDC owns all of its patterns and sources all of our casting from domestic suppliers in the USA.

PDC has an excellent reputation in the market that started in the early 1970's.

PDC is ISO 9001-2015.

PDC generates all of its own engineering drawings.

Our customer base is made up of major leaders in the field of air management control.