INSTALLATION GUIDELINES (80% PORT PLUG VALVES)



When Eccentric Plug Valve is installed in a horizontal line, the preferred installation is with the plug rotating 90° upward to open. Utilizing this orientation can lessen the effect of solids preventing plug operation.

When installed in high pressure systems, it is recommended to have the plug seat on the outlet side of the valve.



In low pressure/low flow systems with solids present, install valve with flow against plug face.

Eccentric Plug Valves may be installed vertically; however, whenever possible, horizontal orientation is preferred.

When installed in a vertical line where solids exist, the seat is ideally positioned up, preventing solid build up in the valve body.



PUB-EPV80N-092117

FLOW



KENNEDY VALVE PLANT AND INDUSTRIAL GROUP

80% PORT ECCENTRIC **PLUG VALVES**

AWWA C517

- 3"-12" *175 PSI 14"-24" *150 PSI
- FLANGED AND MECHANICAL JOINT END CONNECTIONS AVAILABLE



For Generations Kennedy Valve Plant & Industrial, A Division of McWane, Inc.

THE KENNEDY VALVE 80% ECCENTRIC PLUG VALVE

WITH A PROVEN DESIGN, THE KENNEDY VALVE 80% PLUG VALVE HAS ESTABLISHED ITSELF IN THE MARKET PLACE AS A RELIABLE AND ENGINEERED PRODUCT. OVER MANY YEARS, THE DESIGN HAS PROVEN DEPENDABLE IN A VARIETY OF SERVICE APPLICATIONS.

APPLICATIONS

- Wastewater Service
- Lift Stations
- Heavy Solids
- <u>- Slurri</u>es/Grit
- Water Services
- Pump Service
- Throttling/Modulating/Control/Balancing
- Vertical Piping Applications
- Where Positive Shutoff Required



Manual valves available with 2" square operating nut.



Valves commonly supplied with gearing.

RECTANGULAR PORT DESIGN

The cylindrical plug and rectangular port provide a rotational alignment by the eccentric motion making a uniform and full contact with the welded in nickel seat. Unlike circular port designs that have a point-to-point seating where engagement and wear can be an issue, the rectangular port makes a uniform and full contact without the need for exact alignment of the plug in the body.

ACTUATION

Kennedy Valve has furnished valves with many assorted type of actuators to operate our valves. Our engineers have extensive experience with electric, pneumatic, and hydraulic actuators on our plug valves and regularly work with most major actuator suppliers.

80% PORT ECCENTRIC PLUG VALVE (FLOW DATA)

| Valve Size | C _V (Full Open) |
|------------|----------------------------|
| 3 | 335 |
| 4 | 565 |
| 6 | 1210 |
| 8 | 2050 |
| 10 | 3100 |
| 12 | 4170 |
| 14 | 5460 |
| 16 | 7420 |
| 18 | 9675 |
| 20 | 12920 |
| 24 | 17670 |

 $\begin{array}{ll} C_V = \frac{Q}{\sqrt{\Delta P}} & \Delta P = \text{Differential pressure (psi) between two points} \\ C_V = Flow \ coefficient \\ Q = \text{Rate of flow in GPM} \end{array}$

ACCESSORIES AND OPTIONS

A full line of accessories and options are available that include extension stems, extended bonnets, floor stands, valve boxes, operating nuts, hand wheels, levers, positioners, fully bi-directional rating, switches, and solenoid valves as well as speed control valves.

V-TYPE PACKING

Buna-N (NBR) V-type packing is field adjustable and replaceable under pressure.

STEM BEARINGS

Heavy-duty 316 Stainless Steel permanently lubricated bearings on upper and lower plug journals provide ease of operation even after long periods of inactivity.

HARDWARE

All fasteners are 304 Stainless Steel (316 SS available at time of order).



OPEN LIMIT Adjustable stop

CLOSE LIMIT Adjustable stop

GRIT SEALS

Grit Seals on upper & lower plug journals prevent debris from entering bearing areas.

THRUST BEARING

PTFE thrust bearings on plug journals reduce operating force and wear to the plug and body.

BODY/COVER

Cast iron conforming to ASTM A126 Class B

COVER SEAL

Body to Cover seal via mechanically retained O-ring

COATING

Internal/External cast surfaces are epoxy coated.

SEAT

Rectangular Port seat is 95% (minimum) pure nickel, welded and fully machined.



POSITION INDICATOR

Quarter-turn valves are equipped with a position indicator marked at 10° increments.

*Internal components different colors for illustration purposes only.