Gravity Flow

ROTARY VANE DIVERTER VALVE

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STANDARD FEATURES:

- Fabricated carbon steel, or 300 series stainless steel
- Standard operating temperature up to 250 degrees F
- Standard internal pressure rating of 2 PSIG
- O-ring shaft seal
- Ball bearing supported diverter blade
- Manual, Pneumatic, or Electric actuation
- Machined blade and housing (no internal wipers or fasteners)
- No internal ledges
- Dust tight to exterior
- Round or Square Flanges

PRECISION MACHINED GRAVITY FLOW DIVERTER NO INTERNAL “HANG-UP” POINTS

Young Industries Rotary Vane Diverter Valve is designed for handling powders or granular products in gravity flow or low-pressure conditions. The Rotary Vane Diverter Valve is available in size 4” thru 12” as standard with larger sizes available. The valve has one inlet connection and two discharge connections and can be configured either symmetrical or asymmetrical. The symmetrical configuration connections can be either 30 degrees or 45 degrees offset from the vertical centerline of the inlet. The asymmetrical configuration has one leg vertical with the off-set leg at 30 degrees from the vertical leg.

The Rotary Vane Diverter Valve utilizes a heavy machined diverter blade/rotor and housing to provide tight internal clearances for sealing from leg to leg. The design is similar to a rotary valve, except the rotor for the Rotary Vane is a single diversion blade. The precision machined surfaces of the valve diverter blade eliminate internal wipers and fasteners that are common in most sheet metal style diverter valves. The Rotary Vane Diverter is an excellent choice for those applications where there can be no internal “hang-up” points for product to accumulate. This Diverter Valve has no internal wiper that can wear over time. The Rotary Vane Diverter Valve is virtually maintenance free!
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OPTIONAL FEATURES:
- Abrasion resistant interior coatings
- Access/ Inspection covers
- High temperature service
- Exterior painting and coatings to meet customer specifications
- Diverter blade can be supplied with flexible wipers
- Sanitary design needs no tools to remove and access the gate/rotor and internal surfaces

The diverter blade is supported by flange type ball bearings and utilizes an O-ring to seal the diverter shaft to the exterior. The Diverter Valve offers long service life with virtually no maintenance for low pressure and gravity flow conditions.

Young Industries Rotary Vane Diverter Valve is available with manual spring tensioned lever operator, chain wheel, rotary pneumatic actuator, or electric actuator.
NOTES:

1. VALVES ARE FABRICATED CONSTRUCTION. AVAILABLE IN STEEL, ALUMINUM AND STAINLESS STEEL.

2. VALVES ARE AVAILABLE WITH ROUND OR SQUARE FLANGED ENDS OR PLAIN ENDS.

3. LIMIT SWITCH BOX, SOLENOID VALVE, NAMUR MOUNT

4. PNEUMATIC ROTARY ACTUATOR

5. O'RING SHAFT SEAL

6. BEARING, 2-BOLT FLANGE TYPE

7. MACHINED DIVERTER BLADE/ROTOR

8. (NEMA 4, SPDT)

9. (NEMA 4, DPDT)

10. (NEMA 7 & 9, SPDT)

11. (NEMA 7 & 9, DPDT)

12. NOTE: ALLOW CLEARANCE FOR SWITCH COVER REMOVAL

13. END OF SHAFT PAINTED YELLOW TO INDICATE GATE POSITION

14. N I.D.

15. L O.D.

16. M B.C.

17. ROUND INLET & OUTLET FLANGE DETAIL

18. SIZES 4" THRU 8" ONLY

19. 150# ANSI DRILLING

20. P - NO. & SIZE OF THRU HOLES

21. ROUND OUTLET FLANGE DETAIL

22. SIZES 10" AND 12" ONLY

23. 150# ANSI DRILLING

24. P - NO. & SIZE OF THRU HOLES

25. SQUARE INLET & OUTLET FLANGE DETAIL

26. SQUARE INLET & OUTLET FLANGE DETAIL

27. ROUND INLET & OUTLET FLANGE DETAIL

28. 150# ANSI DRILLING

29. P - NO. & SIZE OF THRU HOLES

30. SQUARE FLANGED ENDS OF FLANGE.