

Next Generation Excelsior™

3" Double Flanged Off-Set Internal Valves

Features

- Body outlet flange offset 2" from inlet flange
- Rotate valve body in either direction 1 bolt hole to reduce offset to 1-1/4"
- Standard with 3 gland ports for stem relocation (2 plugged)
- Each gland port can accept pneumatic or rotary type actuators
- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
- UL LISTED for LPG & NH₃ service
- Rulon™ bearings on stem and stub shafts

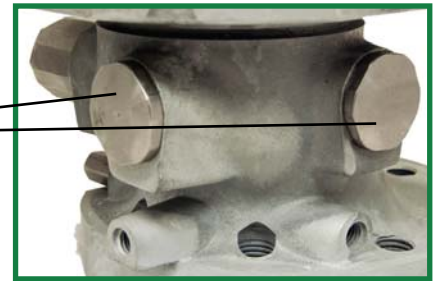
PATENT PENDING



ME990S-3DFO

Description

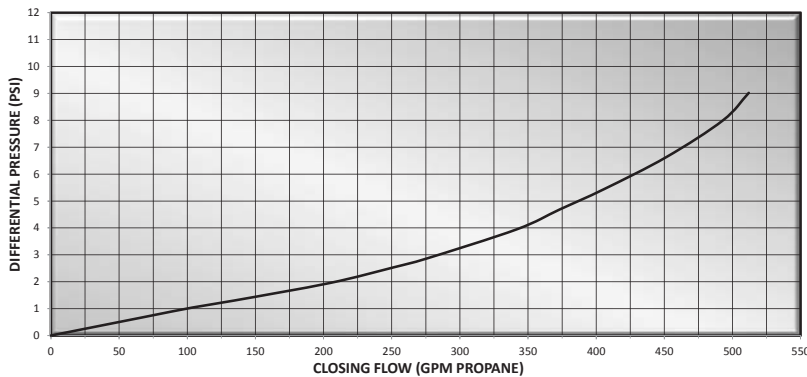
Intended for use on bobtail delivery trucks with 3" flanged connections in directional or bi-directional flow applications. The 2" offset outlet flange prevents pump installation interference with truck frame rails, cross members, PTO covers, drive shafts, and other common obstacles when remounting bobtail vessels onto new chassis. In order to reduce the amount of offset from the 2" maximum to 1-1/4", simply rotate the inlet flange connection by 1 bolt hole either direction. To eliminate the offset entirely, simply rotate 1 more bolt hole. The Excelsior™ offset is equipped standard with three separate packing gland locations to prevent interference while mounting the valve actuator no matter how you choose to mount the valve. Provides both manual shut-down and excess flow closing in the event of the valve being separated from the tank. Can be equipped with pneumatic or rotary actuator open/closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.



Alternate Gland Ports



3" Double Flange Offset Internal Valve Liquid LPG Closing Flow



"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

For NH₃ Multiply GPM by .90

MEC Excelsior™ 3" Double Flanged Offset Internal Valves	
Part No. *	Description
ME990S-3DFO-"X"	Excelsior™ 3" Double Flange Offset Bobtail Internal Valve - Only
ME990SA-3DFO-"X"	Excelsior™ 3" Double Flange Offset Bobtail Internal Valve - with Pneumatic Actuator
ME990SAR-3DFO-"X"	Excelsior™ 3" Double Flange Offset Bobtail Internal Valve - with Rotary Actuator

* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990S-3DFO-250 (250 GPM)
 To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME990SK-3DFO-300
 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME990SN-3DFO-300
 To order Viton® add "V" for Viton® after the prefix part number i.e. ME990SV-3DFO-300

PLEASE SEE BACK PAGE FOR SERVICE AND REPAIR KITS



For Your Local Marshall Excelsior Distributor Call 269-789-6700,
 Fax 269-781-8340 or E-mail: sales@marshallexcelsior.com
 www.marshallexcelsior.com



Made in the U.S.A

MEC Excelsator _{TM} 3" Internal Valve Model 3DFO - Accessories	
Part No.	Description
ME207	PowerStroke Actuator
ME227	PowerTorq Direct Drive Actuator

MEC Excelsator _{TM} 3" Offset Double Flange Internal Valve - Service Kits & Repair Parts	
Part No.	Description
ME990-24-VRK	Excelsator _{TM} 3", 3" DF, 3" DFM Internal Valve - Complete Rebuild Kit
ME990-24-SRK	Excelsator _{TM} 3", 3" DF, 3" DFM Internal Valve - Seal Repair Kit
ME990-PRK	Excelsator _{TM} 2" & 3" Internal Valve - Stem Packing Repair Kit
ME990-PGA	Excelsator _{TM} 2" & 3" Internal Valve Packing Gland Assy.
ME990-106-"X" *	Excelsator _{TM} 3" Internal Valve Excess Flow Spring
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves
ME990-140	Excelsator _{TM} 2" & 3" Manual Operating Lever - Standard
ME990-160	Universal Internal Valve Fusible Link - 212° F.
ME990-3DF-121	Excelsator _{TM} 3" Double Flange Self-Guiding Poppet Retaining Nut
ME990-3DF-122	Excelsator _{TM} 3" Double Flange Retaining Nut Roll Pin
ME990-3DF-138	Excelsator _{TM} 3" Double Flange Screen Mounting Post
ME990-3DF-144	Excelsator _{TM} 3" Double Flange Filter Screen Perforated Steel
ME990-3DF-145	Excelsator _{TM} 3" Double Flange Filter Cap Perforated Steel
ME990-3DF-146	Excelsator _{TM} 3" Double Flange Screen Mounting Post - Locknut
ME990-3DF-148	Excelsator _{TM} 3" Double Flange Stem Guide Bracket
ME930-244	Excelsator _{TM} 3" Double Flange Stem Guide Bracket Screw #10-32
ME904SK-01	3" Modified Single & Double Flange Internal Valve Tank Side Mount Stud 3" OAL - B7
ME990-151	3" Bobtail Double Flange Internal Valve Tank Side Mount Stud 3-1/2" OAL - B7
ME904SK-02	3" Internal Valve Mount Stud Standard Hex Nut 3/4 - 10 B8
ME990-3DF-153	Excelsator _{TM} 3" Double Flange Internal Valve Inlet Flange Gasket
ME904S-3F-027	Excelsator _{TM} 3" Double Flange Outlet / 3" Modified Inlet Flange Gasket
ME990-3DFO-102	Offset Stand-Off 1/2-13UNC-2A x 5/16-24UNF-2A x 1.67"OAL - SS
ME990-3DFO-103	Offset Gland Plug 1-3/8-12UNF-2A x 1-5/8"HX - SS

* Note: Indicate desired excess flow closing value when ordering - see chart for values
Example: ME990S-3DFO-250 (250 GPM)