ANDERSON GREENWOOD LARGE BORE INTELLIMOUNT™ SYSTEM

Large bore direct mount 2, 3 or 5 valve manifold system with renewable block valve metal or soft seats and graphite or PTFE stem packings that reduces potential leakpoints

FEATURES

- Close coupled straight through ⅜" (10 mm) bore to transmitter reduces gauge line error and enhances transmitter performance.
- Provides required spacing for installation via Sr. orifice changers with no need for spacer flanges or manifolds.
- Optional rating to Fire-Safe API 607.
- Two-piece modular Coplanar™ flange (Rosemount 305) elimination system provides permanent diaphragm protection during maintenance.
- No additional brackets or pipe support required.
- Direct mount system eliminates impulse lines and conventional root block valve block system.
- Post installation instrument retrofit capability.
- Mounts all manufacturers' field instruments.
- Modular design enables system hydrotest and certification without instrument. Total installation, including transmitter, ships in one package to the field.

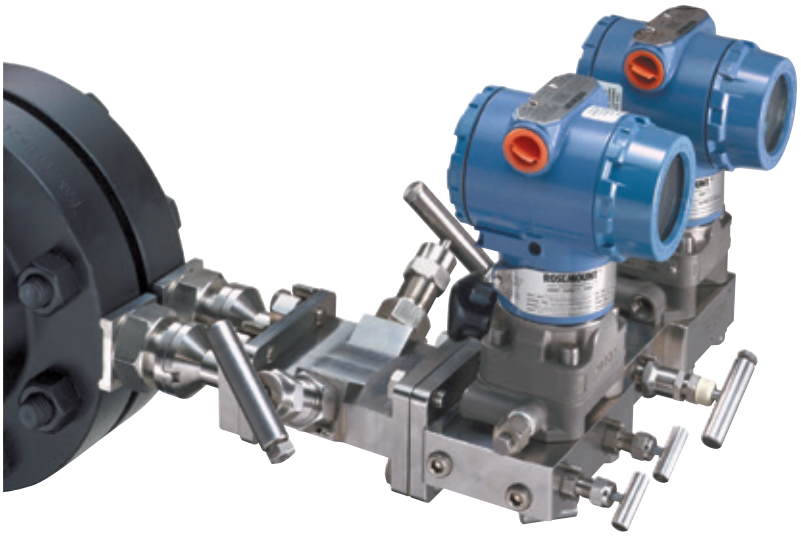
GENERAL APPLICATION

The Intellimount system is designed for close-coupling DP transmitters to senior and junior orifice changers and/or orifice-flange unions in natural gas, liquid or steam measurement applications.

TECHNICAL DATA

Materials:	CS, SS, Monel, Hastelloy®, Duplex
Seats:	Metal or soft
Connections:	Pipe or flanged Inlets
Instrument:	Flanged
Process:	Flanged or ½" pipe
Orifice sizes:	3/16" (4.7 mm), ¼" (6.4 mm), ⅜" (10 mm)
Pressure (max.):	6000 psig (414 barg)
Temperature (max.):	1000°F (538°C)

LEAK POINT AND WEIGHT COMPARISON

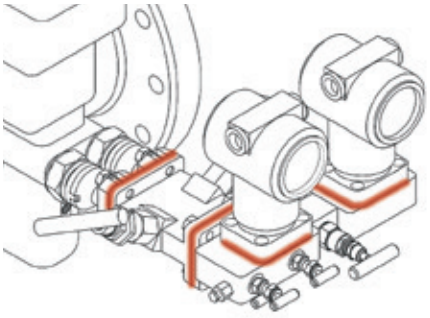


AF/5GDB dual installation of differential and gauge pressure Coplanar™ transmitters

Leak points comparison

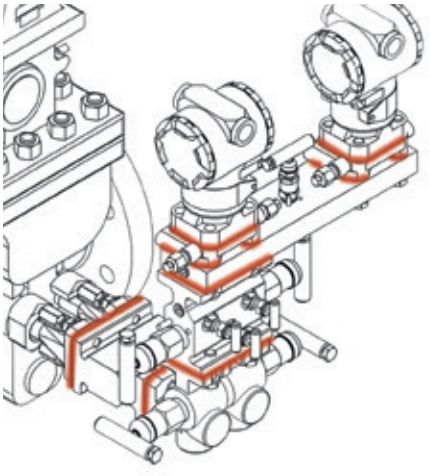
- Reduction of leak points by 50%
- Weight reduction of 60%
- Installation space requirements reduced by 40%
- Easier installation

Large bore IntelliMount:



= Potential leak points

Conventional direct mount:



= Potential leak points

MATERIALS

TECHNICAL DATA

Standard material traceability
Standard material traceability to EN10204-3.1, 50049-3.1, instrument and isolation/block modules bodies only.

Valve packings and flange seals
PTFE (standard)

- Maximum pressure: 6000 psig (414 barg)
- Maximum temperature: 500°F (260°C)

Grafoil® (optional)

- Maximum pressure: 6000 psig (414 barg)
- Maximum temperature: 1000°F (538°C)

Seat temperatures

Delrin®	200°F (93°C) maximum
PTFE	500°F (260°C) maximum
PEEK	400°F (204°C) maximum

STANDARD

SS valve	
Body	316 SS
Bonnet	316 SS
Stem	316 SS
Non-wetted parts	Austenitic SS

CS valve	
Body	A105 CS
Bonnet	316 SS
Stem	316 SS
Non-wetted parts	Austenitic SS

SPECIAL

For severe service, manifolds are available in the following exotic materials:
Monel® Alloy 400
Duplex S31803
Hastelloy® C276

BOLTING

All IntelliMount™ assemblies are supplied with high tensile steel bolts as standard. Optional stainless steel bolts (B8M Class 2) are available; please specify when ordering.

NOTES

1. Coplanar™ is a trademark of Rosemount, Inc.
2. Delrin® is registered trademark of E.I. duPont de Nemours and Company.
3. Grafoil® is a registered trademark of Graftech International Inc.
4. Hastelloy® is a registered trademark of Haynes International.
5. Monel® is a registered trademark of Special Metals Corporation.

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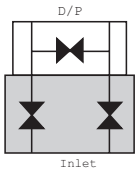
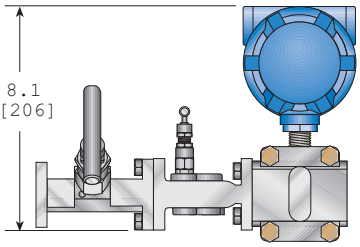
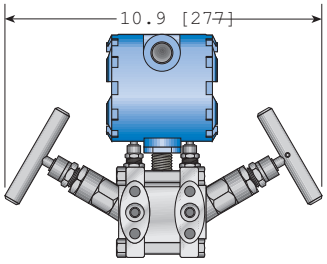
DIMENSIONS, INCHES (mm) - Horizontal shown

AF/3B Style

Single block for use with biplanar transmitters.

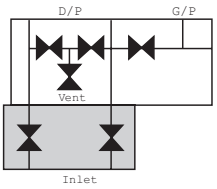


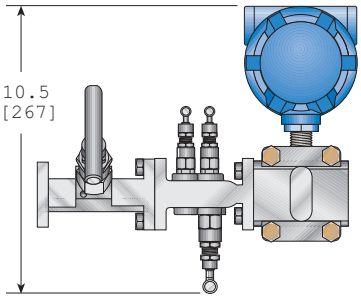


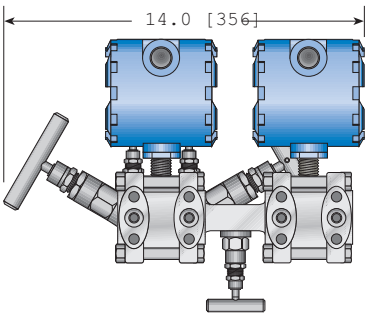


AF/5GDB Style

Single block for dual mounted biplanar transmitters.

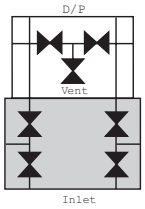


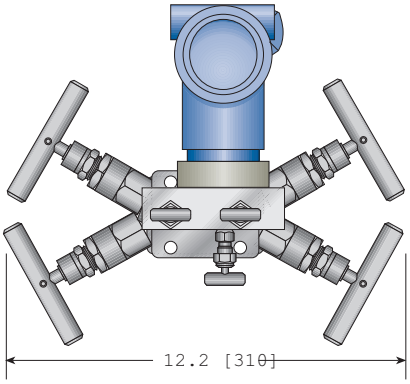


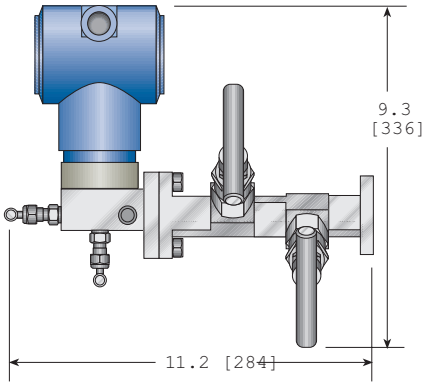


AFD/5GC Style

Double block for Coplanar transmitters.

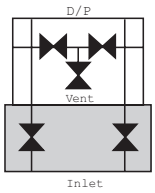


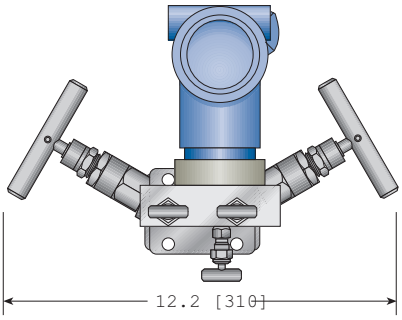


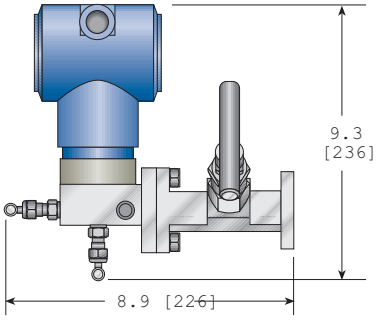


AFS/5GC Style

Single block for Coplanar transmitter.

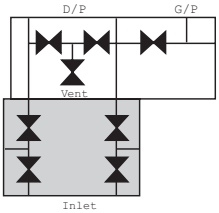


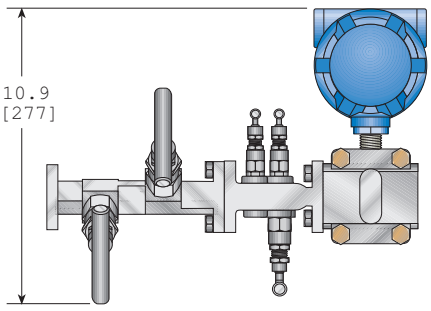


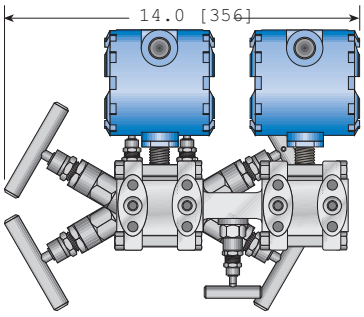


AFD/5GDB Style

Double block for dual mounted biplanar transmitters.







Standard configuration
Block configuration

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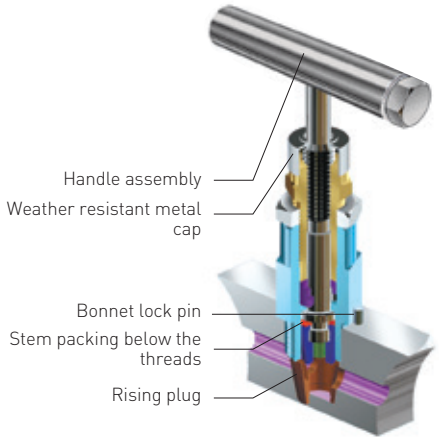
BONNET TECHNOLOGY

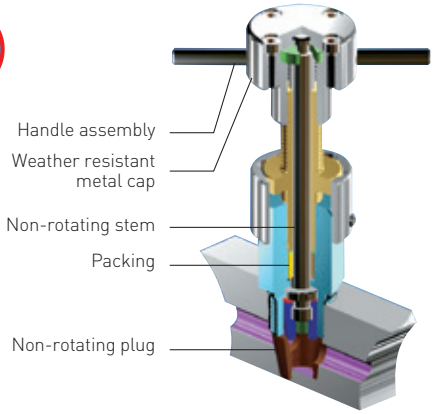
H bonnet for isolation service

- Rising plug valve
- ⅜" (10 mm) bore
- Rotating stem and plug
- Soft or metal seats
- 6000 psig (414 barg)
- Soft seat - Delrin®, PTFE, PEEK
- Hard seat - 316/316L SS



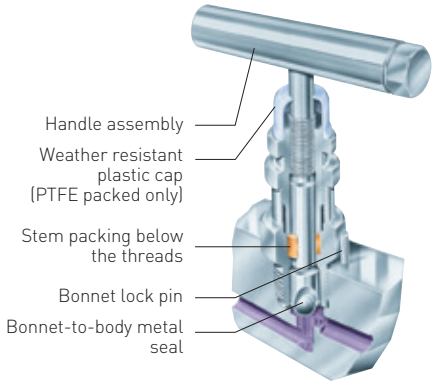
P bonnet for Fire-Safe service

- API 607 Fire-Safe
- Rising (non-rotating stem) plug valve
- ⅜" (10 mm) bore
- 6000 psig (414 barg)
- Hard seat - 316/316L SS



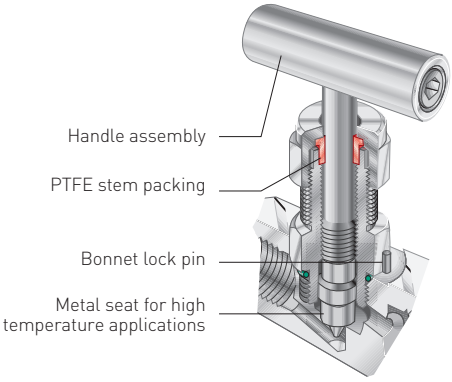
H7 bonnet for venting and equalize service

- Needle/globe valve
- 0.2" (5.0 mm) bore
- Free swivel ball end stem
- 6000 psig (414 barg)
- -71°F to 1000°F (-57°C to 538°C)



H5 bonnet for venting and equalize service

- Needle valve
- 0.14" (3.5 mm) bore
- Rotating stem and plug
- Soft or metal seats
- 6000 psig (414 barg)
- Soft seat - Delrin®, PTFE, PEEK
- Hard seat - 316/316L SS



VALVE TECHNICAL SPECIFICATIONS

The IntelliMount™ features high performance valves for reliable bubble-tight performance. Isolation is achieved with the 'H' series plug valve or the optional Fire-Safe 'P' (use FS designation for Fire-Safe service) non-rotating stem bonnet assembly. Venting and equalizing are achieved with the H7/H5 needle/globe valve.

Features and benefits

- Body to bonnet pressure seals below threads prevent process from corroding bonnet retention threads which are loaded in compression for additional strength.
- Back seat design provides secondary stem seating and prevents stem blowout.
- Adjustable gland follower allows easy access to adjust the packing gland.
- Stem threads are located above the stem packing and are completely isolated from the process.
- Stem packing with Grafoil® or PTFE for bubble-tight sealing.
- Optional Fire-Safe block valves to AP1 607.

SELECTION GUIDE (patent pending) - IMS

Example:				IMS	AF	5GC	H	V	I	S	4	FS
Style												
AF	Direct mount (flange x flange) ⅜" (10 mm) full bore											
TF	Remote mount (pipe x flange) ⅜" (10 mm) full bore											
AFD	Direct mount, double block and bleed (flange x flange) ⅜" (10 mm)											
TFD	Remote mount, double block and bleed (pipe x flange) ⅜" (10 mm)											
Type												
2	2-valve gauge pressure Rosemount 305											
2B	2-valve gauge pressure Biplanar											
2C	2-valve gauge pressure Rosemount 305 with no Coplanar flange											
3	3-valve Rosemount 305											
3B	3-valve Biplanar											
3C	3-valve Rosemount 305 with no Coplanar flange											
5G	5-valve (gas) Rosemount 305											
5GC	5-valve (gas) Rosemount 305 with no Coplanar flange											
5GB	5-valve (gas) Biplanar											
5GD	5-valve, dual mount DP and gauge pressure Rosemount 305											
5GDC	5-valve, dual mount DP and gauge pressure Rosemount 305, with no Coplanar flange											
5GDB	5-valve, dual mount DP and gauge gas Biplanar											
5P	5-valve (power) Rosemount 305											
5PB	5-valve (power) Biplanar											
5PC	5-valve (power) Rosemount 305, with no Coplanar flange											
Tap orientation												
H	Horizontal	**V**	Vertical									
Packing												
V	PTFE	**E**	Low emissions graphite									
H	Grafoil®											
Seat												
IS	316 SS seat on block and integral on instrument module	**TI**	PTFE, block module only									
DI	Delrin®, block module only	**EI**	PEEK, block module only									
Material												
S	316 SS/316SSL											
M	Monel®											
C	CS											
End connection (IMSTF or IMSTFD only)												
4	½" female NPT x female vent ports											
Options												
-AM	AGCO Mount kit for 2-inch pipe stand mounting of manifold											
-AMS	316 SS AGCO Mount kit for 2-inch pipe stand mounting of manifold											
-BL	Bonnet lock device (patent protected)											
-FS	Fire-Safe to API 607											
-CL00	Cleaned for chlorine service											
-OC00	Cleaned for oxygen service											
-SSA [1]	SS flange bolt (grade 18-8) - maximum pressure rating 4500 psi (310 barg)											
-SSB	316 SS flange bolt (B8M Class 2) - will provide full pressure rating											
-SSC [1]	316 flange bolt (B8M) - maximum pressure rating 4500 psi (310 barg)											
-SG3	(Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions > 50 mg/l [ppm])											

NOTE

1. 316 SS bolts lower pressure ratings to a maximum of 4500 psi (310 barg). Consult factory for full rating with 316 SS bolts.