TESCOM™ Anderson Greenwood Instrumentation Manifolds

Uniquely designed connector / connector with isolation valve that provides support to an entire installation while transferring the radial-stress load away from the NPT connections.

General Application

The AGSF stabilized futbol/connector is used as the connection between an orifice fitting or flange and manifold on direct mounted differential pressure gas measurement installations. The dual cavity isolation valve version provides a straight forward alignment & installation process incorporating 1st block valve functionality from tapping point to instrument manifold.

TECHNICAL DATA

Materials
CS, 316 SS

Type:
Integral isolation valve (AGSFB)
Short and long body without valve (AGSF)

Standard:
6" (152mm) integral valve version (AGSFB)
4" (100 mm) short version (AGSF)

Optional:
5.6" (142 mm) long version (AGSF)

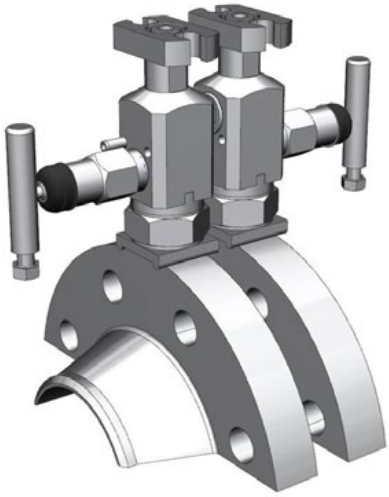
Seat options (integral valve):
Delrin / Tefzel / PEEK

Packing options (integral valve):
FKM O-ring / PTFE

Pressure (max):
6000 psig (414 barg) standard

Weight:
SF with integral valve : 4.5 lbs
SF short version : 2.5 lbs
SF long version : 3.8 lbs

AGSF Stabilized Futbol (long & short version)



AGSFB Stabilized Futbol with Integral Block valve

Features

- Quick, easy installation & instruction sheet.
- Large footprint reduces radial-stress load on the NPT threads.
- Slotted bolt holes accommodate 2.1/8" to 2.1/4" (53 to 56 mm) bolt spacings.
- Available with dielectric shielding which provides a non-conductive barrier between the instrument and the orifice fitting.
- Universal design for both vertical and horizontal mount configurations.
- Available in standard or extended length for additional clearance requirements.
- Oxygen cleaning available.
- Stainless or carbon steel construction.
- High temperature graphite flange gaskets available (without integral valve version).
- Standard tools required for installation.

AGSF SERIES

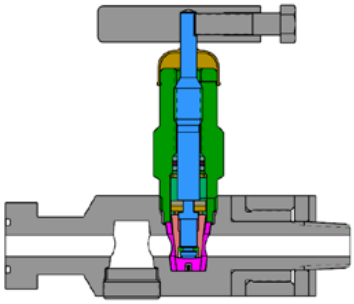
TESCOM™ Anderson Greenwood Instrumentation Manifolds

H1 Series 3/8" (9.5mm) bore bonnet assembly

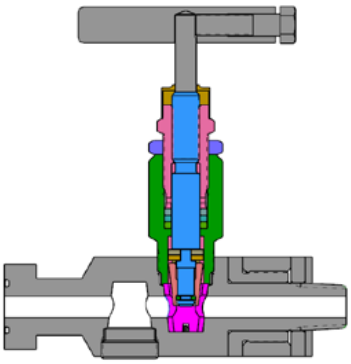
Screwed Bonnet

Features

- Non-rotating plug tip
- Metal to metal body to bonnet seal
- Through bore - roddable
- Packing below stem threads
- Soft seat options
- Bonnet pin



Type 'R' FKM O-Ring



Type 'V' PTFE Packing

Selection Guide

AGSFB	2	S	DI-D	RD

BASIC SERIES	BODY LENGTH	CONSTRUCTION MATERIAL	DIELECTRIC SHIELDING OPTION	OPTIONS
AGSF Stabilized Futbol connector **AGSFB** Stabilized Futbol connector with Integral Block Valve	**S** Short (standard clearance – overall length 4.0" [101.6 mm]) **L** Long (additional clearance – overall length 5.6" [142.4 mm]) **2** Used with AGSFB only (standard length)	**S** A351-CF8M / 316 SS **C** 216-WCB / CS	**Omit** Not required (standard) **DI-D** Dielectric shielding - Delrin® construction	**RD** O-Ring seal, Delrin seat (AGSFB only) **VD** PTFE seal, Delrin seat (AGSFB only) **RT** O-Ring seal, Tefzel seat (AGSFB only) **VT** PTFE seal, Tefzel seat (AGSFB only) **VE** PTFE seal, PEEK seat (AGSFB only) **SG** NACE MRO103 MRO175 / ISO less than 50PPM chlorides (AGSFB 316 SS only) **OC00** Oxygen cleaning **SSA** 18-8 SS, max. pressure rating 4500 psi **SSB** 316 SS A193 B8M Class 2 strain hardened, max. pressure rating 6000 psi **SSC** 316 SS A193 B8M, max. pressure rating 4500 psi **R** FKM O-Ring flange seal **H** GRAPHITE gaskets (not available with Block valve version(AGSFB) **or** incorporation of dielectric shielding option)

NOTES

1. All standard stabilized connectors include PTFE flange seal.
2. All standard stabilized connectors include Carbon Steel A193 B7 bolts.
3. Delrin® is a registered trademark of the E.I. duPont de Nemours Company.

TESCOM™ Anderson Greenwood Instrumentation Manifolds

MATERIAL OF CONSTRUCTION (AGSFB TYPE)

Valve	Body / Bonnet	Stem
CS	A216-WCB (A108)/ A108	A581-303
316 SS	A351-CF8M (316/316L) / A479-316	A276-316
SG [2]	A351-CF8M (316/316L) / A479-316	Monel® R405

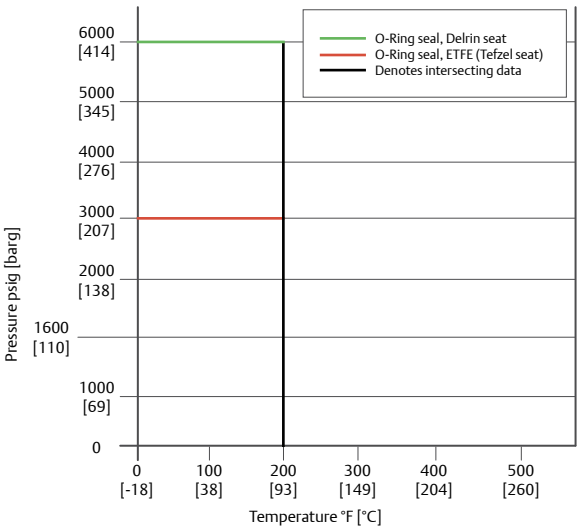
NOTES

1. CS is zinc TCP plated to prevent corrosion.
2. SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l [ppm]) and NACE MR0103.

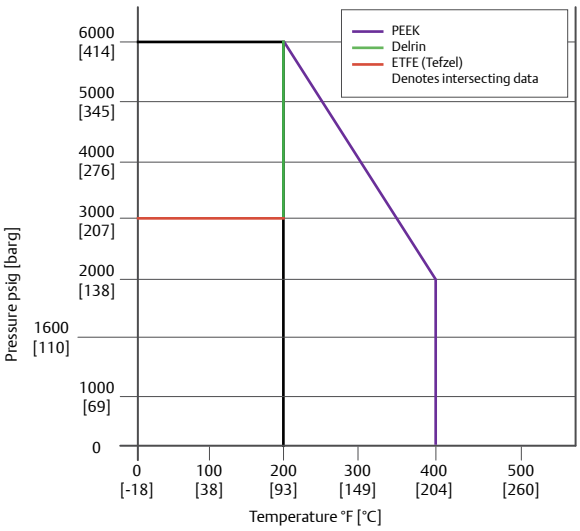
PRESS / TEMP RATING – SEAT & SEAL OPTIONS (AGSFB TYPE)

Code	Stem seal / Seat	Pressure / Temp rating
RD	O-Ring seal, Delrin seat	6000 psig at 200°F (414 barg at 93°C)
VD	PTFE seal, Delrin seat	6000 psig at 200°F (414 barg at 93°C)
RT	O-Ring seal, Tefzel seat	3000 psig at 200°F (207 barg at 93°C)
VT	PTFE seal, Tefzel seat	3000 psig at 200°F (207 barg at 93°C)
VE	PTFE seal, PEEK seat	6000 psig at 200°F (414 barg at 93°C) 2000 psig at 400°F (138 barg at 204°C)

H1 – O-Ring Packed



H1 – PTFE Packed



TESCOM™ Anderson Greenwood Instrumentation – Installation instructions and procedure for AGSFB type are provided for customer use. Refer to Document No. 05.9040.376