

Ready to Install

The VERIS Accelabar® combined with a DP transmitter is a complete flow meter ready to install. It may be used with single or dual transmitters depending on the turndown and accuracy requirements.

An optional RTD is available in a welded thermowell assembly for dynamic, real-time density compensation (required for use with multi-variable transmitter's in certain applications).



Specifications

Sensor	Body	Flange	Accuracy	Repeatability
316SS	CF8M	304SS	to $\pm 0.50\%$	$\pm 0.050\%$

VERIS Accelabar® Model Selection

- Furnish your flowing conditions. A flow calculation is required to determine the DP and verification of the operating limits.
 - Each meter size has a standard beta ratio sized for the optimal operating range.
 - The maximum operating limits are determined by the VERIS Veracalc® flow sizing software.
- If your flowing conditions exceed or limit selection of the body size that matches the pipe size, a larger or smaller Accelabar® body can be selected for optimal operating results...

AF Flanged Model

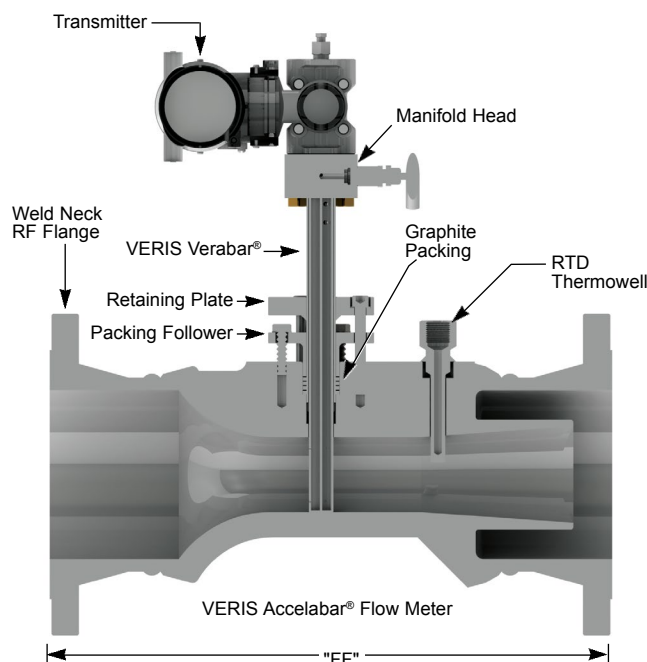
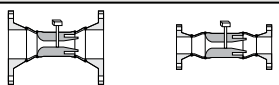
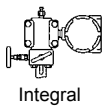
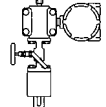
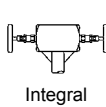
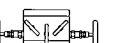
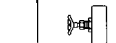
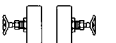


Chart A

Meter Size	Verabar® Sensor	Face-to-Face "FF"							
		Class 150#	Class 300#	Class 600#	PN10	PN16	PN40	PN63	PN100
1" (DN25)	-03	7.50" (190.5mm)	8.25" (209.6mm)	8.75" (222.3mm)	N/A	N/A	10.15" (257.8mm)	N/A	11.57" (293.5mm)
2" (DN50)	-05	8.75" (222.3mm)	9.38" (238.3mm)	10.13" (257.3mm)	11.54" (293.2mm)	11.54" (293.2mm)	11.78" (299.2mm)	12.88" (327.2mm)	13.35" (339.2mm)
3" (DN80)	-05	13.78" (350.0mm)	14.53" (369.1mm)	15.28" (388.1mm)	12.31" (312.8mm)	12.31" (312.8mm)	12.94" (328.8mm)	14.04" (356.8mm)	14.52" (368.8mm)
4" (DN100)	-05	15.15" (384.8mm)	15.90" (403.9mm)	17.65" (448.3mm)	13.34" (338.9mm)	13.34" (338.9mm)	14.36" (364.9mm)	15.39" (390.9mm)	16.34" (414.9mm)
6" (DN150)	-10	19.15" (486.4mm)	19.90" (505.5mm)	21.90" (556.3mm)	16.58" (421.1mm)	16.58" (421.1mm)	18.15" (461.1mm)	19.73" (501.1mm)	21.30" (541.1mm)
8" (DN200)	-10	21.40" (543.6mm)	22.15" (562.6mm)	24.40" (619.8mm)	18.38" (466.9mm)	18.38" (466.9mm)	20.42" (518.9mm)	22.16" (562.9mm)	23.74" (602.9mm)
10" (DN250)	-10	23.15" (588.0mm)	24.40" (619.8mm)	27.65" (702.31mm)	20.60" (523.3mm)	20.76" (527.3mm)	23.51" (597.3mm)	25.09" (637.3mm)	27.61" (701.3mm)
12" (DN300)	-10	26.22" (666.0mm)	27.47" (697.7mm)	29.97" (761.9mm)	22.62" (574.6mm)	23.41" (594.6mm)	26.32" (668.6mm)	28.29" (718.6mm)	30.65" (778.6mm)

*Nominal Face-to-Face dimensions nominal. Custom lengths available.

Model	VERIS Accelabar® 316SS										
AFS ABS ATS	Flanged Connections Bevel for Welded in Meter MNPT Threaded Ends (2" meter only)										
User Mating Pipe Size and Schedule or Exact ID and Wall Thickness											
Code	User Mating Flange (Model AFS Only)										
150 300 600	150# ANSI Class 275 psig @ 100°F, 80 psig @ 800°F (19 Bars @ 38°C, 5.5 Bars @ 426°C) 300# ANSI Class 720 psig @ 100°F, 330 psig @ 800°F (49.6 Bars @ 38°C, 22.8 Bars @ 426°C) 600# ANSI Class 1440 psig @ 100°F, 660 psig @ 800°F (99.3 Bars @ 38°C, 45.5 Bars @ 426°C) If other than ANSI, specify Standard (DIN, JIS) Size and Rating										
Code	Flange Material										
S C	304 Stainless Steel (Standard) 316 Stainless Steel (Optional) Carbon Steel (Optional)										
VERIS Accelabar® Meter Size											
Important: If the selected meter size is larger or smaller than the user's mating pipe and flanges, expanders or reducers are required. Consult the factory for price and delivery.											
1" (25mm)	2" (50mm)	3" (75mm)	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)	12" (300mm)				
Code VERIS Verabar® Size											
05 10	7/16" (11mm) 7/8" (22mm)										
Code	Pipe Orientation										
H V	Horizontal Vertical										
Instrument Head Connections (Select Remote or Direct Mount Transmitter—Sold Separately)											
 Direct Mount Transmitter (Flanged 450°F/232°C Max.)					 Remote Mount Transmitter (1/2" NPT)						
Manifold		Transmount		Valve		Regular		Parallel			
											
M		F		T		R		P			
Manifolds (Optional)						Instrument Valves (Optional)					
 Direct Mount						 Remote Mount					
3-Valve			5-Valve			Needle		Gate			
											
Soft Seat		Hard Seat		Soft Seat		Hard Seat		1/2" NPT		1/2" NPT	
F3SC (CS)		F3HC (CS)		F5SC (CS)		F5HC (CS)		C2NC (CS)		C2GC (CS)	
F3SS (SS)		F3HS (SS)		F5SS (SS)		F5HS (SS)		C2NS (SS)		C2GS (SS)	
Code RTD in Thermowell											
H1 HT		Standard Temperature (500°F, 260°C Max) High Temperature (500°F to 900°F, 260°C to 482°C)									
Code		Connection Cable to Transmitter (Direct Mount Only)									
XP N4		Explosion Proof (hazardous locations) NEMA 4									

VERIS Accelabar® shopvalves.com Quick Model Selection • RFQ

Fill in the form below, complete sections 1 through 7 and email to: veris-sales@armstronginternational.com

Requested By: _____

Date: _____ Tag#: _____ E-mail: _____

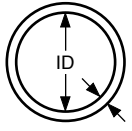
Phone: _____ Fax: _____

Company: _____ Address: _____ City, State, Zip: _____

End User:

Company Name: _____ City: _____ State, Zip: _____

1. Enter Pipe Dimensions



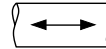
Pipe Size _____ Sch _____

Pipe ID _____ Wall _____ Pipe Mat'l _____

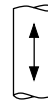
Wall

2. Pipe Orientation

(Check one box)



☐ (H) Horizontal



☐ (V) Vertical

3. Enter Flow Conditions

Fluid Name:		Maximum	Normal	Minimum	Units
Flow Rate					
All Fluids	Pressure @ Flow				
	Temperature @ Flow				
Gas	Specific Gravity, or				
	Molecular Weight				
Liquid	Specific Gravity				
Steam	VeraCalc Program can calculate Density from Temperature and Pressure				

Special Instructions

4. Select Model Accelabar® 316SS

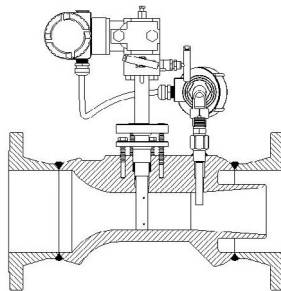
(Check one box in each category)

AFS Flanged (ANSI):

- ☐ 150# ☐ 300#
☐ 600# ☐ ABS Bevel for Weld
☐ ATS MNPT Threaded Ends (2" meter only)

Specify Accelabar Meter Size:

- ☐ 1" (DN25) ☐ 6" (DN150)
☐ 2" (DN50) ☐ 8" (DN200)
☐ 3" (DN75) ☐ 10" (DN250)
☐ 4" (DN100) ☐ 12" (DN300)



5. Select Instrument Head

(Check one box)

Instrument Head Connections

(Select Remote or Direct Mount Transmitter — Sold Separately)

Direct Mount Transmitter
(Flanged 450°F/232°C Max.)

Remote Mount Transmitter
(1/2" NPT)

Manifold	Transmount	Valve	Regular	Parallel
☐ M	☐ F	☐ T	☐ R	☐ P

6. Select Instrument Valves or Manifold, RTD & Cable (Optional)

Manifolds (Optional)				Instrument Valves (Optional)	
Direct Mount				Remote Mount	
3-Valve		5-Valve		Needle	Gate
Soft Seat	Hard Seat	Soft Seat	Hard Seat	1/2" NPT	1/2" NPT
☐ F3SC (CS) ☐ F3SS (SS)	☐ F3HC (CS) ☐ F3HS (SS)	☐ F5SC (CS) ☐ F5SS (SS)	☐ F5HC (CS) ☐ F5HS (SS)	☐ C2NC (CS) ☐ C2NS (SS)	☐ C2GC (CS) ☐ C2GS (SS)

Code	RTD in Thermowell
☐ H1	Standard Temperature, 500°F (260°C) Max., Explosion Resistant
☐ HT	High Temperature, 900°F (482°C) Max., Moisture and Dust Resistant
Code	Connection Cable to Transmitter (Direct Mount Only)
☐ XP	Explosion Resistant
☐ N4	Moisture and Dust Resistant

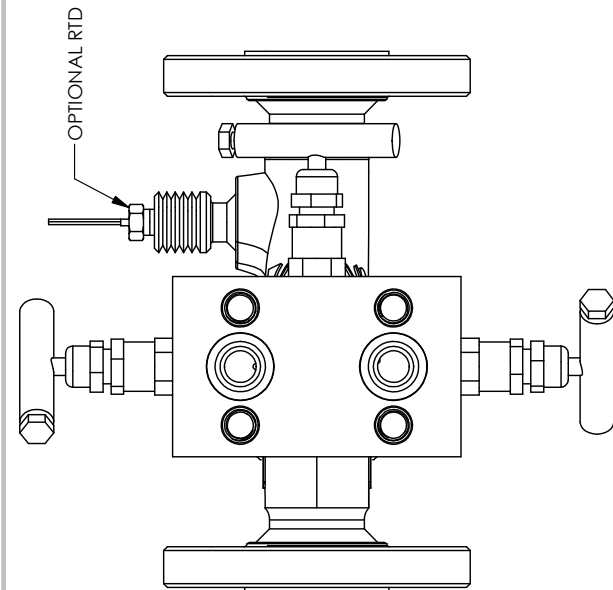
7. Transmitter

Supplied By

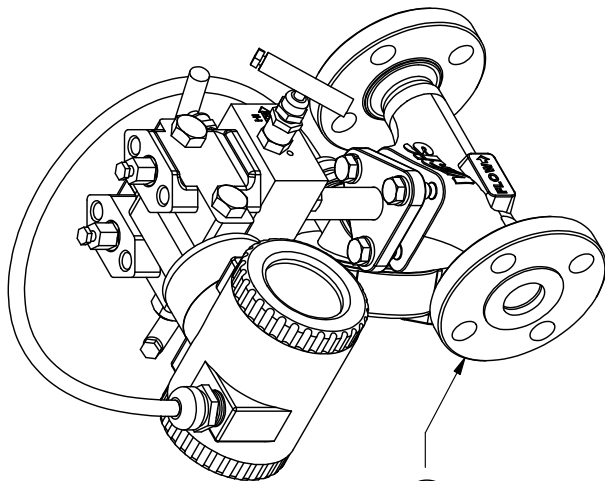
☐ VERIS ☐ Others



1 Inch Accelabar®



OPTIONAL RTD



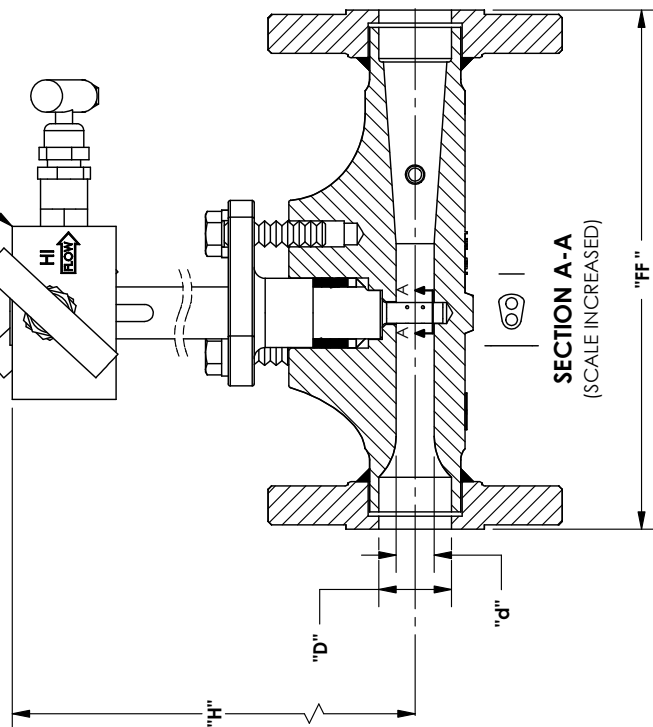
MODEL SHOWN:
AFS-(1 in)-150-I-03-V-M-H1-N4
(TRANSMITTER PURCHASED SEPARATELY)

OPTIONAL INTEGRAL MANIFOLD HEAD

METER SIZE	"d"	"D"	"H"	ANSI RATING	"FF"	WT (lb)
1 inch	.55	1.05	7.10	150#	7.50 ± .10	21
				300#	8.25 ± .10	23
				600#	8.75 ± .10	25

DIMENSIONS ARE IN INCHES

CUSTOMER: _____
PROJECT: _____
ORDER NO: _____
TAG NO: _____
PIPE SIZE & SCH: _____
CATALOG NO: _____
SERIAL NO: _____
CERTIFIED BY: _____ DATE: _____



**Armstrong**

VERIS Flow Measurement Group
armstronginternational.com/veris

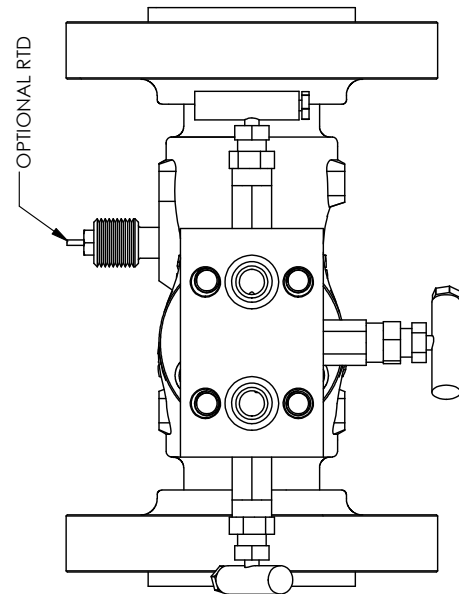
5820 Glacier Way
Frederick, CO 80516 USA

Phone: (303) 652-8550
Fax: (303) 652-8552

ACCELABAR, 1 INCH

DATE: 12/18/2019
SCALE: NTS

DWG. NO. SUB-8122
REV: B PAGE 1 OF 1



- OPTIONAL INTEGRAL MANIFOLD HEAD

DIMENSIONS ARE SHOWN IN INCHES



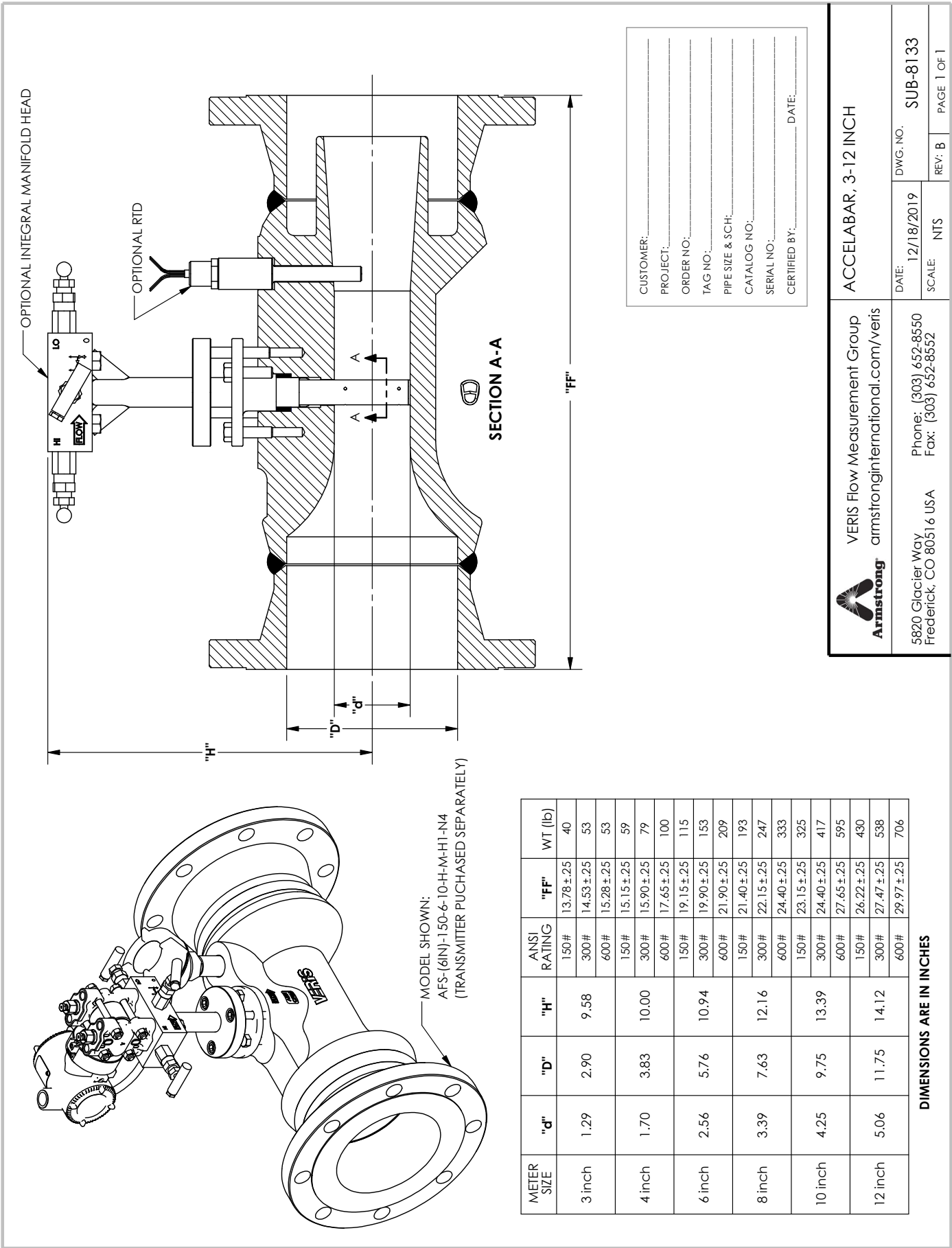
ACCELABAR, 2 INCH

 VERIS Flow Measurement Group
armstronginternational.com/veris

5820 Glacier Way
Frederick, CO 80516 USA

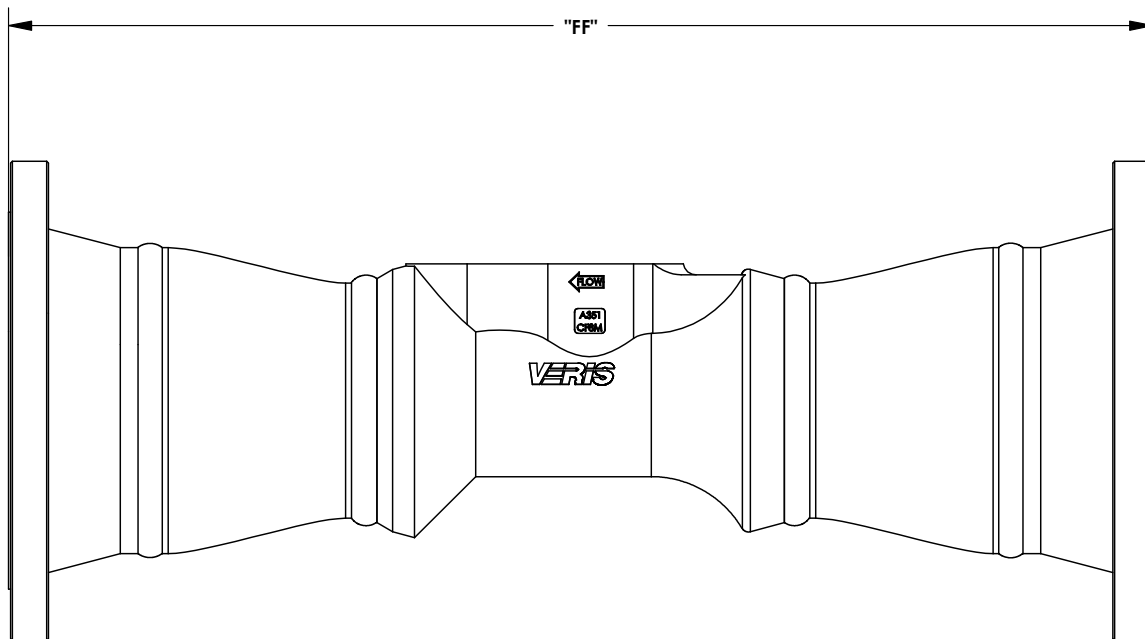
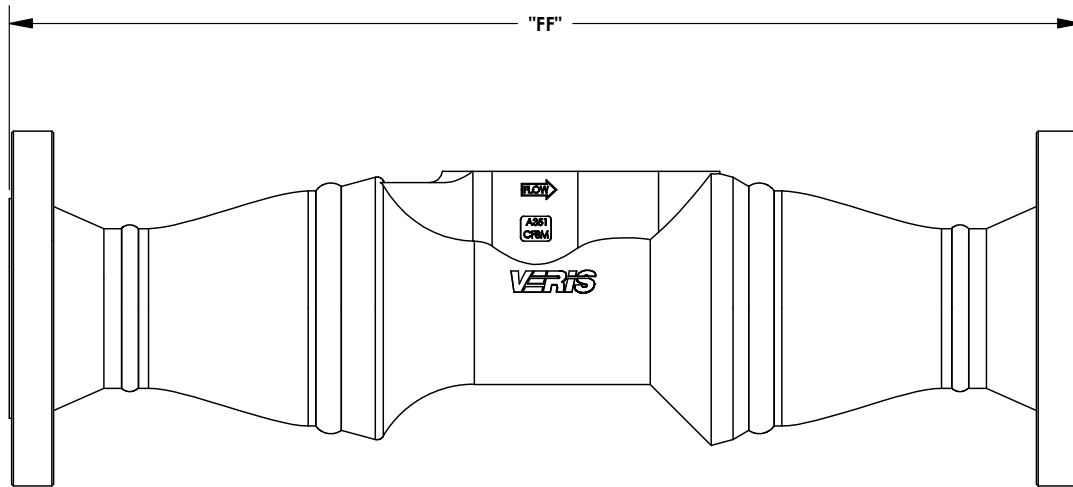
Phone: (303) 652-8550
Fax: (303) 652-8552

3 - 12 Inch Accelabar®





shopvalves.com
Accelabar® Reducers/Expanders
Face-to-Face Dimensions



 VERIS Flow Measurement Group armstronginternational.com/veris	ACCELABAR DIMENSIONS REDUCERS OR EXPANDERS	
	DATE: 12/18/2019 SCALE: NTS	DWG. NO. SUB-8107 REV: B PAGE 1 OF 2



shopvalves.com Accelabar® Reducers/Expanders Face-to-Face Dimensions – Continued

BODY SIZE & RED/EXP SIZE	FLANGE SIZE AND RATING	FACE TO FACE "FF"	BODY SIZE & RED/EXP SIZE	FLANGE SIZE AND RATING	FACE TO FACE "FF"
1" R010.75	.75" 150#	15.13 ±.25	4" E0408	8" 150#	29.10 ±.30
	.75" 300#	15.50 ±.25		8" 300#	29.85 ±.30
	.75" 600#	16.00 ±.25		8" 600#	32.10 ±.30
1" E0101.5	1.5" 150#	16.88 ±.25	6" R0603	3" 150#	28.55 ±.30
	1.5" 300#	17.38 ±.25		3" 300#	29.30 ±.30
	1.5" 600#	18.00 ±.25		3" 600#	30.05 ±.30
1" E0102	2" 150#	18.00 ±.25	6" R0604	4" 150#	29.05 ±.30
	2" 300#	18.50 ±.25		4" 300#	29.80 ±.30
	2" 600#	19.25 ±.25		4" 600#	31.55 ±.30
2" R0201	1" 150#	18.38 ±.25	6" R0605	5" 150#	30.05 ±.30
	1" 300#	18.88 ±.25		5" 300#	30.80 ±.30
	1" 600#	19.38 ±.25		5" 600#	32.55 ±.30
2" R0201.25	1.25" 150#	18.50 ±.25	6" E0608	8" 150#	32.10 ±.30
	1.25" 300#	19.13 ±.25		8" 300#	32.85 ±.30
	1.25" 600#	19.75 ±.25		8" 600#	35.10 ±.30
2" R0201.5	1.5" 150#	18.88 ±.25	6" E0610	10" 150#	34.10 ±.30
	1.5" 300#	19.38 ±.25		10" 300#	35.35 ±.30
	1.5" 600#	20.00 ±.25		10" 600#	38.60 ±.35
2" E0202.5	2.5" 150#	20.50 ±.25	8" R0804	4" 150#	31.35 ±.30
	2.5" 300#	21.00 ±.25		4" 300#	32.10 ±.30
	2.5" 600#	21.75 ±.25		4" 600#	33.85 ±.30
2" E0203	3" 150#	20.50 ±.25	8" R0805	5" 150#	32.35 ±.30
	3" 300#	21.25 ±.25		5" 300#	33.10 ±.30
	3" 600#	22.00 ±.25		5" 600#	34.85 ±.30
2" E0204	4" 150#	22.00 ±.25	8" R0806	6" 150#	32.35 ±.30
	4" 300#	22.75 ±.25		6" 300#	33.10 ±.30
	4" 600#	24.50 ±.25		6" 600#	35.10 ±.30
3" R0302	2" 150#	20.18 ±.25	8" E0810	10" 150#	35.40 ±.30
	2" 300#	20.68 ±.25		10" 300#	36.65 ±.38
	2" 600#	21.43 ±.25		10" 600#	39.90 ±.38
3" R0302.5	2.5" 150#	20.68 ±.25	8" E0812	12" 150#	38.40 ±.38
	2.5" 300#	21.18 ±.25		12" 300#	39.65 ±.38
	2.5" 600#	22.68 ±.25		12" 600#	42.15 ±.38
3" E0304	4" 150#	22.18 ±.25	10" R1006	6" 150#	36.10 ±.38
	4" 300#	22.93 ±.25		6" 300#	36.85 ±.38
	4" 600#	24.68 ±.25		6" 600#	38.85 ±.38
3" E0305	5" 150#	25.18 ±.25	10" R1008	8" 150#	37.15 ±.38
	5" 300#	25.93 ±.25		8" 300#	37.90 ±.38
	5" 600#	27.68 ±.25		8" 600#	40.15 ±.38
3" E0306	6" 150#	26.18 ±.25	10" E1012	12" 150#	40.15 ±.38
	6" 300#	26.93 ±.25		12" 300#	41.40 ±.38
	6" 600#	28.93 ±.30		12" 600#	43.90 ±.38
4" R0402	2" 150#	22.05 ±.25	10" E1014	14" 150#	51.15 ±.38
	2" 300#	22.55 ±.25		14" 300#	52.40 ±.38
	2" 600#	23.30 ±.25		14" 600#	54.65 ±.38
4" R0402.5	2.5" 150#	22.55 ±.25	12" R1208	8" 150#	41.17 ±.38
	2.5" 300#	23.05 ±.25		8" 300#	41.92 ±.38
	2.5" 600#	24.55 ±.25		8" 600#	44.17 ±.38
4" R0403	3" 150#	22.55 ±.25	12" R1210	10" 150#	41.17 ±.38
	3" 300#	23.30 ±.25		10" 300#	42.42 ±.38
	3" 600#	24.05 ±.25		10" 600#	45.67 ±.38
4" E0405	5" 150#	26.05 ±.25	12" E1214	14" 150#	53.17 ±.38
	5" 300#	26.80 ±.25		14" 300#	54.42 ±.38
	5" 600#	28.55 ±.25		14" 600#	56.67 ±.38
4" E0406	6" 150#	27.05 ±.25	12" E1216	16" 150#	55.17 ±.38
	6" 300#	27.80 ±.25		16" 300#	56.67 ±.38
	6" 600#	29.80 ±.30		16" 600#	59.67 ±.38