

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

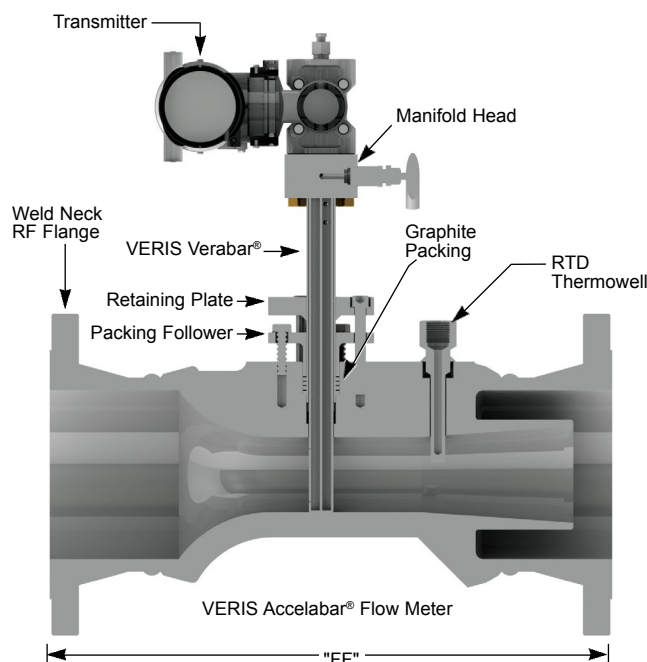
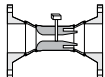
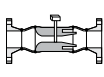
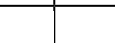
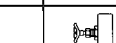


Chart A

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"		2"		3"		4"		6"		8"		10"		12"	
(25mm)		(50mm)		(75mm)		(100mm)		(150mm)		(200mm)		(250mm)		(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							
 Integral		 Integral		 Integral		 		 							
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) 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 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									

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

Requested By: _____

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

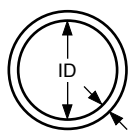
Phone: _____ Fax: _____

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 _____

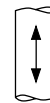
Wall

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 Accelablar® 316SS

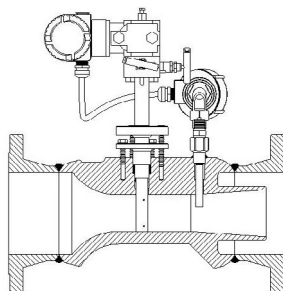
(Check one box in each category)

AFS Flanged (ANSI):

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

Specify Accelablar 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
Integral		Integral		
☐ 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

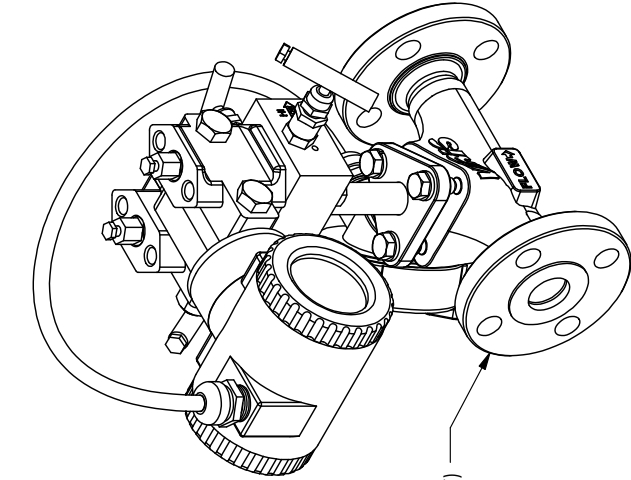
7. Transmitter

Supplied By

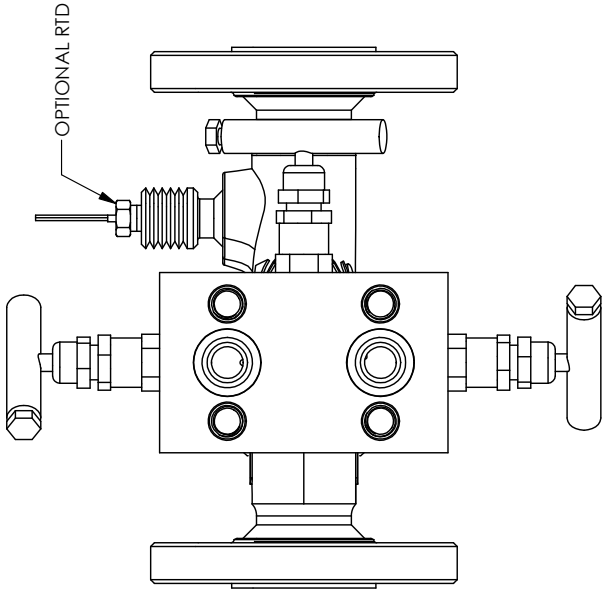
☐ VERIS ☐ Others



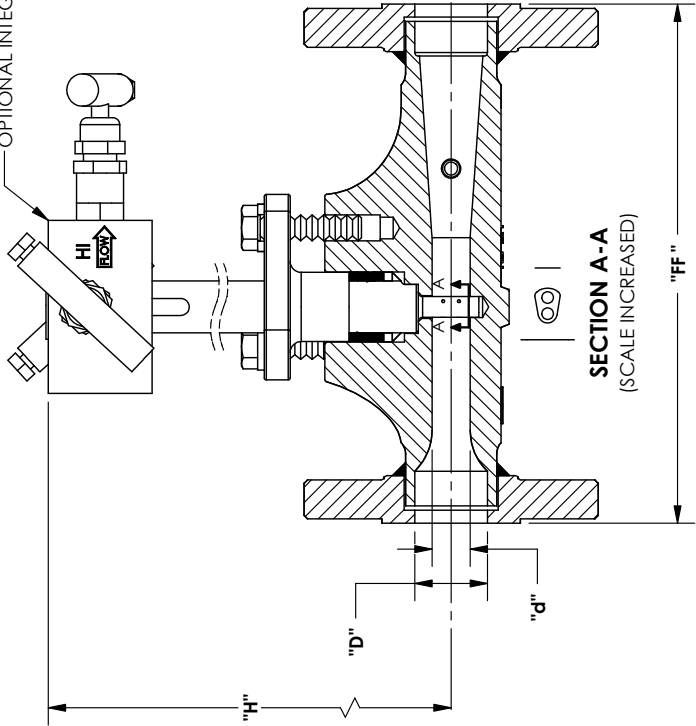
1 Inch Accelabar®



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: _____



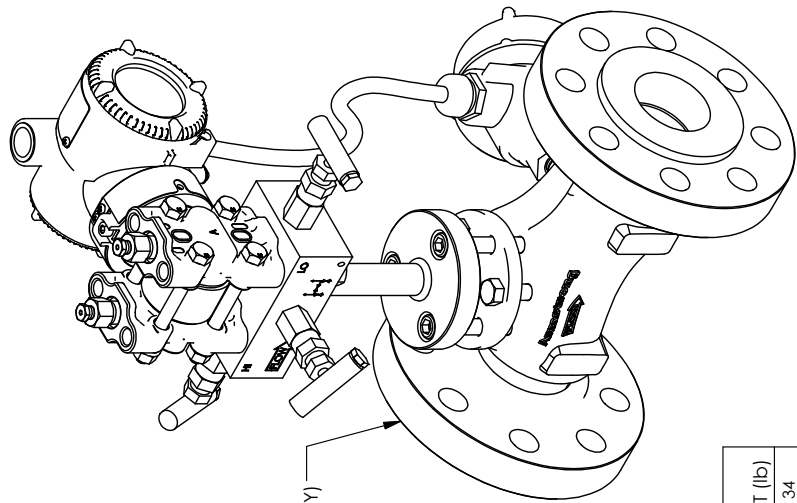
VERIS Flow Measurement Group
armstronginternational.com/veris

5820 Glacier Way
Frederick, CO 80516 USA
Phone: (303) 652-8550
Fax: (303) 652-8552

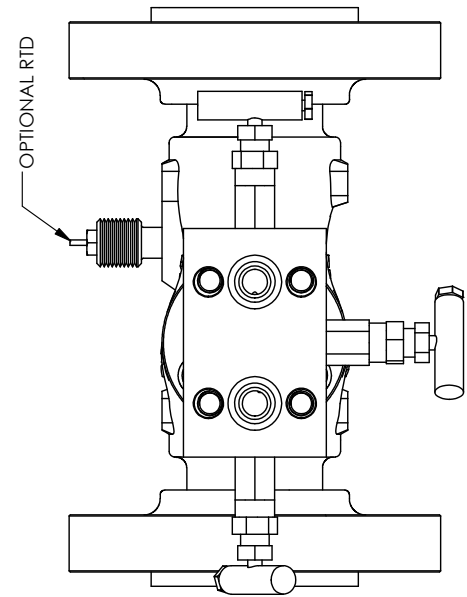
ACCELABAR, 1 INCH

DATE:	DWG. NO.	
12/18/2019	SUB-8122	
SCALE:	REV: B	PAGE 1 OF 1
NTS		

2 Inch Accelabar®

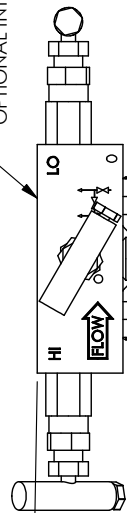


MODEL SHOWN:
AFS-(2in)-150-2-05-H-M-HI-N4
(TRANSMITTER PURCHASED SEPARATELY)



OPTIONAL RTD

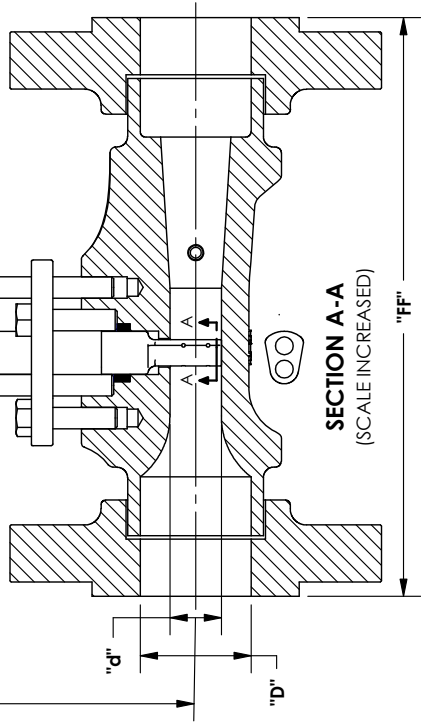
OPTIONAL INTEGRAL MANIFOLD HEAD



FLOW

METER SIZE	"d"	"D"	"H"	ANSI RATING	"FF"	WT (lb)
2 inch	.90	1.94	9.33	150#	8.75 ± .10	34
				300#	9.38 ± .10	37
				600#	10.13 ± .10	41

DIMENSIONS ARE SHOWN IN INCHES



SECTION A-A
(SCALE INCREASED)

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



VERIS Flow Measurement Group
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Phone: (303) 652-8550
Fax: (303) 652-8552

ACCELABAR, 2 INCH

DATE: 12/18/2019

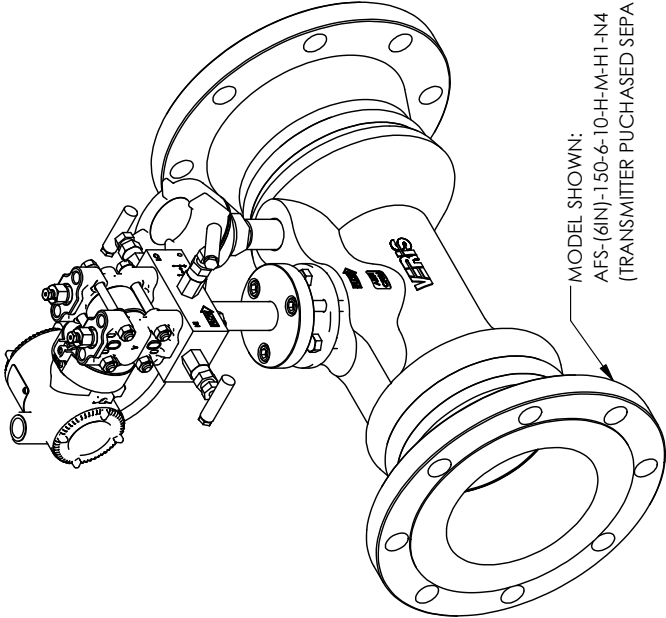
DWG. NO. SUB-8132

SCALE: NTS

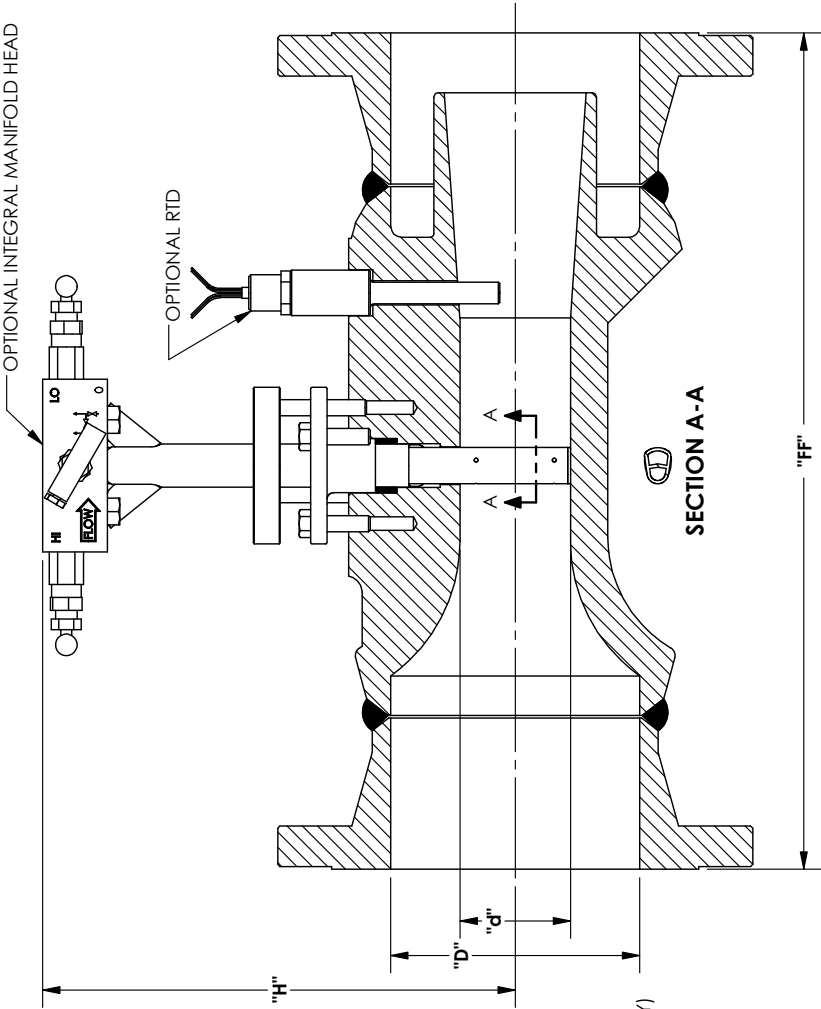
REV: B

PAGE 1 OF 1

3 - 12 Inch Accelabar®



MODEL SHOWN:
AFS- (6IN)-150-6-10-H-M-H1-N4
(TRANSMITTER PURCHASED SEPARATELY)



OPTIONAL INTEGRAL MANIFOLD HEAD

OPTIONAL RTD

SECTION A-A

METER SIZE	"d"	"D"	"H"	ANSI RATING	"FF"	WT (lb)
3 inch	1.29	2.90	9.58	150 # 300 # 600 #	13.78 ± .25 14.53 ± .25 15.28 ± .25	40 53 53
4 inch	1.70	3.83	10.00	150 # 300 # 600 #	15.15 ± .25 15.90 ± .25 17.65 ± .25	59 79 100
6 inch	2.56	5.76	10.94	150 # 300 # 600 #	19.15 ± .25 19.90 ± .25 21.90 ± .25	115 153 209
8 inch	3.39	7.63	12.16	150 # 300 # 600 #	21.40 ± .25 22.15 ± .25 24.40 ± .25	193 247 333
10 inch	4.25	9.75	13.39	150 # 300 # 600 #	23.15 ± .25 24.40 ± .25 27.65 ± .25	325 417 595
12 inch	5.06	11.75	14.12	150 # 300 # 600 #	26.22 ± .25 27.47 ± .25 29.97 ± .25	430 538 706

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

VERIS Flow Measurement Group
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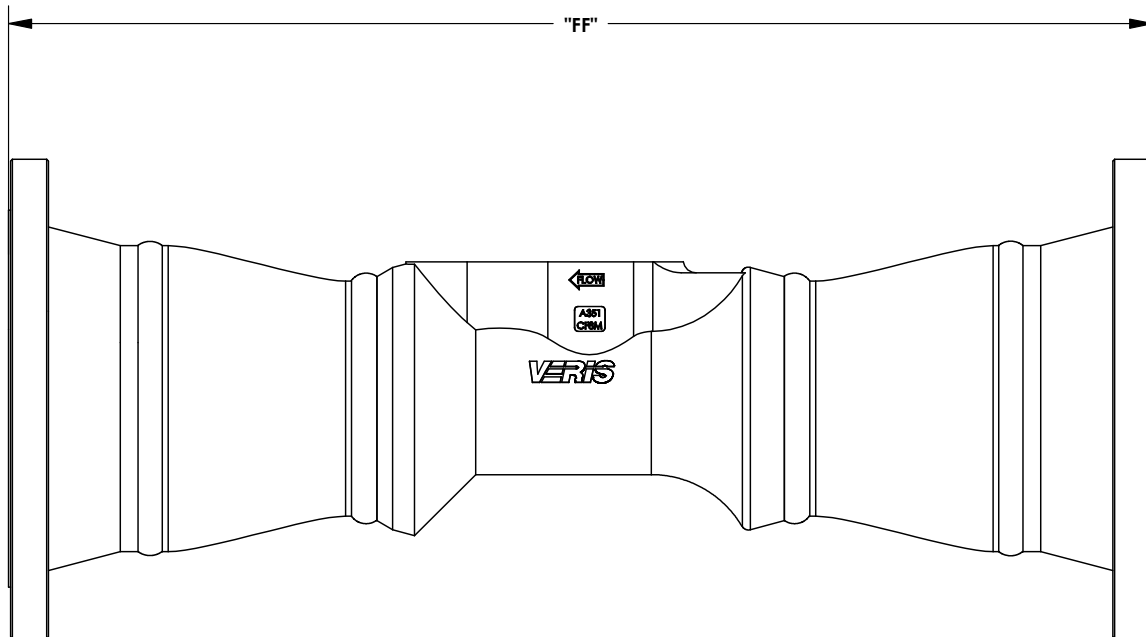
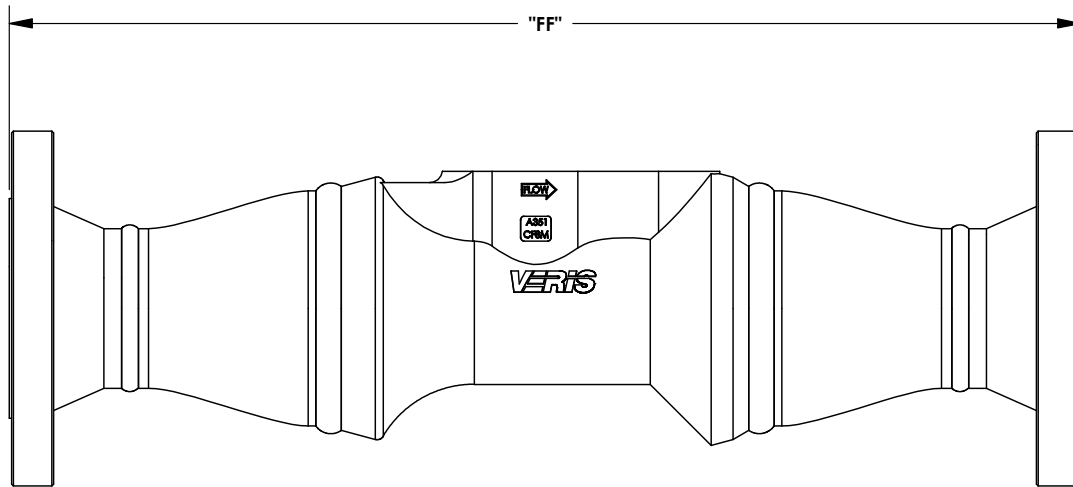
ACCELABAR, 3-12 INCH

DATE: 12/18/2019
SCALE: NTS

DWG. NO. SUB-8133
REV. B PAGE 1 OF 1



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



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