



ITT

Conoflow

Regulators, Transducers, Actuators, Positioners & Accessories



Engineered for life

Southgate Process Equipment, Inc.

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Product performance

Low Pressure - Filter Regulators and Filters



FR95 AirPak

FR95 Airpak, Filter-Regulator
 Stable Output
 High Flow Capacity
 Excellent Droop Characteristics
 Bubble Tight Shut-Off
 Low Air Consumption
 Black Anodized Corrosion Resistant
 Exterior

250 PSIG

0-25, 0-35,
0-60, 0-125
PSIG

Cv = 0.5
25 SCFM

Aluminum



GFH45 AirPak

GFH45 Airpak, Filter-Regulator
 Stable Output
 High Flow Capacity
 10, 35 and 40 Micron Filter Elements
 Buna N and Viton Elastomers
 All Brass Construction

300 PSIG

0-25, 0-60,
0-125 PSIG

25 SCFM

Brass



GFX02/GFX04
Filters

GFX02 Filter (No Regulation)
 No Filtration
 All Brass Construction
 Optional Mounting Bracket
 10, 35 and 40 Micron Filter Elements

300 PSIG

No
Regulation

75 SCFM

Brass

GFX04 Filter (No Regulation)
 No Filtration
 All Aluminum Construction
 Optional Mounting Bracket
 10, 35 and 40 Micron Filter Elements

300 PSIG

No
Regulation

75 SCFM

Aluminum

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Product performance

Low Pressure - Pressure Reducing Regulators



GH04 Series

Product Series / Features (Pressure Reducing Regulators)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
GH04 Cushion Loading Regulator Compact Size Multiple Outlet Ports Soft Seated for Cushion Loading Actuators	300 PSIG	0-60 PSIG	2 SCFM	Aluminum
GH10 Manual Loading Regulator Wide Range of Outlet Settings Excellent Sensitivity Multiple Diaphragm Material Options Relieving and Non-Relieving Models Tamper-proof and Preset Versions Wide Range of Materials of Construction Metal to Metal Seated and Soft Seated Options	200 / 300 PSIG	0-3, 0-5, 0-15, 0-25, 0-35, 0-50, 0-125 PSIG	10 SCFM	Aluminum Brass 316SS
GH20/GH40 Service Regulators Relieving and Non-relieving Options Multiple Diaphragm Material Options Tamper-proof and Preset Versions High Exhaust Capacity Versions Available Wide Range of Materials of Construction Metal to Metal Seated and Soft Seated Options	200 / 300 PSIG	0-25, 0-60, 0-125 PSIG	20 SCFM	Brass 316SS



GH20 / GH40 Series

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Product performance

Low Pressure - Specialty Regulators



GH20VT Series

Product Series / Features (Specialty Regulators)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
Vacuum Regulators GH20VT Vacuum Regulator External Sensing Port Six Diaphragm Material Options 15" and 30" Hg Vacuum Settings Wide Range of Materials of Construction Metal to Metal Seated and Soft Seated Options	Vacuum	0-15" Hg 0-30" Hg	1.5 SCFM	Brass 316SS



GH28VT Series

GH28VT Vacuum Regulator Internal Sensing Port Three Outlet Ports Compact Design Light Weight - 1Lb	Vacuum	0-15" Hg 0-30" Hg	1.5 SCFM	Aluminum
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GH22 Series

Ratio and Flow Boosting Relays GH22 Ratio and Boosting Relays Multiple Ratio Signal Outputs High Flow Capacity Ratios / Flow Boosting / Dividing Range Selections	200 PSIG	1:1, 1:2, 1:3, 2:1, 3:1	16 SCFM	Brass
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Reversing Relay GH232T Reversing Relay Convert Single Acting Positioner to Double Acting Model Reduces Cushion Load to Actuator in Proportion to Positioner Input	100 PSIG	Ratio Out to Input	10 SCFM	Brass
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GH30 Series

Back Pressure Regulators GH30 Back Pressure Regulators Wide Range of Outlet Settings Excellent Sensitivity Multiple Diaphragm Material Options Wide Range of Materials of Construction	150 PSIG	0-3, 0-5, 0-15, 0-25, 0-35, 0-50, 0-125 PSIG	2 TO 30 SCFM	Brass 316SS
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Product performance

Low Pressure - Specialty Regulators



GH21 / GH41 Series

Product Series / Features (Specialty Regulators)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
Differential Regulators GH21XT/GH41XT Fixed Differential Regulator 3 PSIG Fixed Differential Pressure Six Diaphragm Material Options Wide Range of Materials of Construction Metal to Metal Seated and Soft Seated Options	200 PSIG	3 PSIG Fixed	2.5 SCFM	Brass 316SS
GH21F/GH41F Fixed Differential Regulator Integral Needle Valve For Use with Flow Rate Indicators without Needle Valves	200 PSIG	3 PSIG Fixed	1.7 SCFM	Brass
GH21AT/GH41AT Adjustable Differential Regulator Multiple Regulated Ranges Six Diaphragm Material Options Wide Range of Materials of Construction Metal to Metal Seated and Soft Seated Options	200 PSIG 300 PSIG	0-5, 0-15, 0-25, 0-35, 0-50, 0-125 PSIG	10 SCFH	Brass 316SS
GH31 Upstream Differential Regulator 3 PSIG Fixed Differential Pressure Six Diaphragm Material Options Wide Range of Materials of Construction	100 PSIG	3 PSIG Fixed	10 SCFH	Brass 316SS



GH21F / GH41F
Series



GH21AT/GH41AT
Series



GH31 Series

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Product performance

Low Pressure - Purge Assembly

Product Series / Features (Purge Assembly)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
GDH21 Purge Assembly Differential Regulator with Flow Indicator Brass and Stainless Steel Constructions Line and Panel Mount Options Multiple Diaphragm Material Options Metal to Metal Seated or Soft Seated Options	Varies Depending Flow Indicator	Line	20 to 200 cc/m (water)	Brass
		Line	0.25 to 2.5 SCFH	Brass
		Line	Sight Feed Bubbler	Brass
		Panel	Sight Feed Bubbler	Brass
		Line	25 to 250 cc/m (water)	Brass
		Line	0.1 to 2.0 SCFH	Brass
		Line	0.5 to 4.0 GPH	Brass
		Line	0.2 to 2.0 SCFH	Brass
		Panel	0.5 to 4.0 GPH	Brass
		Panel	0.2 to 2.0 SCFH	Brass
		Line	20 to 200 cc/m	Brass
		Line	0.1 to 2.0 SCFH	Brass
		Line	0.4 to 4.0 GPH	Brass
		Line	0.2 to 2.0 SCFH	Brass
		Line	20 to 200 cc/m (water)	316SS
		Line	0.2 to 2.0 SCFH	316SS
		Line	25 to 250 cc/m (water)	316SS
		Line	0.1 to 2.0 SCFH	316SS
		Line	0.5 to 4.0 GPH	316SS
		Line	0.2 to 2.0 SCFH	316SS
		Panel	0.5 to 4.0 GPH	316SS
		Panel	0.2 to 2.0 SCFH	316SS
		Line	0.4 to 4.0 GPH	316SS
		Line	0.2 to 2.0 SCFH	316SS



GDH Purge Assembly

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Product performance

High Pressure - Pressure Reducing Regulators



HP300 Series

Product Series / Features (Pressure Reducing Regulators)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
HP300 High Pressure Regulator Piston Type 10,000 PSIG Supply Pressure Stainless Steel, Brass and N.A.C.E. Construction Multiple Control Range from 500 to 6000 PSIG Control Range can be Field Changed Panel Mounting Bracket Optional Non-Rising Stem CGA Cylinder Connections Available Cleaned to ITT Conoflow Specification ES8A 01 294	6000/10000 PSIG	8-500, 9-800, 10-1500, 15-2500, 25-4000, 30-6000 PSIG	Cv = 0.14	Brass 303SS N.A.C.E.



HP500 Series

HP500 High Pressure Regulator Diaphragm Type Relieving and Non-Relieving Diaphragms Offered Design Leak Rate 2×10^{-8} atm cc/sec of Helium High Purity Internal Connections Optional Vacuseal, VCR, Ultra Seal and Welded Fittings Offered Five Regulated Outlet Ranges from 4-25 PSIG to 10-500 PSIG 15Ra Microinch Wetted Surfaces Available Optional 1/4" NPT Gauge Ports Metal to Metal Diaphragm to Body Seal Line and Rear Mounting are Standard Panel Mounting is Optional Brass, 316SS, N.A.C.E., Monel and Hastelloy Constructions Available CGA Cylinder Connections Available Cleaned to ITT Conoflow Specification ES8A 01 294	5000/6000 PSIG	4-25, 4-50, 5-100, 6-250 10-500 PSIG	Cv = 0.16	Brass 316SS 316LSS N.A.C.E. Monel Hastelloy
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Product performance

High Pressure - Pressure Reducing Regulators



HP600 Series



HP610 Series



HP635 Series



HP700 Series

Product Series / Features (Pressure Reducing Regulators)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
HP600 High Pressure Regulator Tied Diaphragm Type High Purity Internal Connections Optional 316SS, 316LSS and N.A.C.E. Constructions Available Vacuseal, VCR, Ultra Seal and Welded Fittings Offered Design Leak Rate 2×10^{-8} atm cc/sec of Helium Multiple Control Range Settings Available Rear Mounting Optional Standard Non-Relieving Diaphragm and Positionable Bonnet Standard Cleaned to ITT Conoflow Specification ES8A 01 294 5000 PSIG Maximum Supply Pressure Capability	3000/5000 PSIG	2-25, 3-50, 3-100, 4-150 PSIG	Cv = 0.15	316SS N.A.C.E.
HP610 High Pressure Regulator Diaphragm Type Relieving and Non-Relieving Diaphragm Options Internal Finish on Wetted Components 20Ra Inboard Leak Rate 2×10^{-8} atm cc/sec of Helium Cleaned to ITT Conoflow Specification ES8A 01 294 High Flow Capacity	250 PSIG	0-50 PSIG	Cv = 0.95	316SS
HP635 High Pressure Regulator Diaphragm Type Brass and Stainless Steel Construction NPT and Tube Stub Connections Offered High Flow Capacity - Cv 1.8 Optional Base Mounting and Panel Mounting Available 2×10^{-8} atm cc/sec of Helium Inboard and Across the Seal Leakage Five Control Range Settings Cleaned to ITT Conoflow Specification ES8A 01 294	500 PSIG	0-25, 0-50, 0-100, 0-150, 0-250 PSIG	Cv = 1.8	Brass 316SS
HP700 High Pressure Regulator Diaphragm Type 3500 and 6000 PSIG Maximum Supply Pressure Capabilities Captured Bonnet Ports Standard Design Leak Rate 2×10^{-8} atm cc/sec of Helium Brass and Stainless Steel Constructions Offered Tied Diaphragm Model Offered Control Ranges from 4-25 PSIG to 6-250 PSIG CGA Cylinder Connections Available Cleaned to ITT Conoflow Specification ES8A 01 294	3500/6000 PSIG	4-25, 4-50, 5-100, 5-150 6-250 PSIG	Cv = 0.14	Brass 316SS 316LSS N.A.C.E.

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Product performance

I/P-E/P-M/P-P/I Transducers



GT210/GT410/
GT610 Series



GT-8 Series

Product Series / Features (Transducer)	Input Signal	Outlet Pressure Ranges	Flow Capacity	Linearity
GT210/GT410/GT610 Transducers I/P-E/P Transducers Miniature Transducer Direct Connection to Terminal Block Factory Mutual Intrinsically Safe Offered 150 PSIG Maximum Supply Pressure EMI-RFI Adaptor Optional Filter Regulator (Mounted and Piped) Optional Optional 20" Long Lead Connections with Metal Cover 2" 'U' Clamp Mounting Hardware Offered	4-20, 10-50mA DC 0-5, 1-9 VDC Special Inputs Available	3-15, 3-27, 6-30 PSIG	12 SCFM 5 SCFM	±0.5% of Span
GT-8 Series Transducer I/P Transducer External Zero Adjustment EMI-RFI Adaptor Available Factory Mutual Intrinsically Safe Optional CENELEC Intrinsically Safe Offered Factory Mutual Explosion Proof Optional Filter Regulator (Mounted and Piped) Optional Selector Jumper Switch to Accept 4-20 or 10-50mA DC Input 2" 'U' Clamp Mounting Hardware Offered	4-20, 10-50mA DC 0-5, 1-9 VDC Special Inputs Available	3-15, 3-27, 6-30 PSIG Special Outputs	0.15 SCFM 5 SCFM	±1%

IEEE Qualified Transducer and Regulator



I/P Transducer



Airpak Regulator

Product Series / Features (Regulator and Transducer)	Input Signal	Outlet Pressure Ranges	Flow Capacity	Linearity
GT25CA1826 IEEE Transducer GT25CD1826 IEEE Transducer without Regulator GT45CA1826 IEEE Transducer GT45CD1826 IEEE Transducer without Regulator GT65CA1826 IEEE Transducer GT65CD1826 IEEE Transducer without Regulator Qualified to the Requirements of IEEE 323-1974 Qualified to the Recommendations of IEEE 344-1975 Zamak 5 - Zinc Alloy Housing Viton Elastomers Thermal Aged, Wear Aged, Radiation Aged Seismic Qualification Testing Performed Steam Line Break Testing Completed	4-20, 10-50 mA DC	3-15, 3-27, 6-30 PSIG	5 SCFM	±0.75% of Span
GFH25XT1767C Airpak, Filter Regulator GFH25XT1767F Airpak, Filter Regulator GFH25XT1767G Airpak, Filter Regulator Thermal Aged, Wear Aged, Radiation Aged Brass Body and Bonnet Viton Elastomers Seismic Qualification Tested Steam Line Break Testing Completed Qualified to the Requirements of IEEE 323-1974 Qualified to the Recommendations of IEEE 344-1975	200 PSIG	0-25, 0-60, 0-125 PSIG	16 SCFM	Brass

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Product performance

Linear and Lever Actuators



GB50 - GB55
Series



GB52S / GB53S
Series



Fail Safe
System

Product Series / Features (Linear and Lever Actuators)	Bore Diameter	Effective Areas	Stroke Lengths	Thrust
GB50X - GB55X Linear Actuators Fail Safe Systems Available Manual Operator Optional With and Without Spacer Bars and Lower Flange Multiple Bore Diameters and Thrust Capabilities Single and Double Acting Positioners - Top Mounted Offered Stroke Lengths up to 10" Single and Double Acting Positioners - Side Mounted Offered Lock in last Position Option Offered	3", 4", 6" 8", 10", 12"	7, 12, 28.5, 50, 78, 123 Square Inch	1/4" to 10"	Up to 12000 lbs.
GB52U - GB54U Linear Actuators Multiple Bore Diameters and Thrust Capabilities Single and Double Acting Positioners - Top Mounted Offered Fail Safe Systems Available Single and Double Acting Positioners - Side Mounted Offered Lock in last Position Option Offered Manual Operator Optional	6", 8", 10"	28.5, 50, 78 Square Inch	1-1/4" 1-1/2"	Up to 7800 lbs.
GB52S - GB53S Lever Actuators Lever Travels from 5" to 12" Single and Double Acting Positioners - Top Mounted Offered Fail Safe Systems Available Single and Double Acting Positioners - Side Mounted Offered Lock in last Position Option Offered Manual Operator Optional	6", 8"	28.5", 50"	Lever Travel 5" to 12"	Lever Thrust up to 1080 lbs.
GB2700 - GB2800 Manual Operators Large and Small Handwheel for Manual Operation	1500 / 4500 lbs. of Thrust			
Fail Safe Systems Fails Extended or Retracted Lock in last Position with Snap Acting Relay	57, 180, 400, 1000, 2100 Cubic Inch Tanks			

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Product performance

Top and Side Mounted Positioners



GC31 - GC34
Series

Product Series / Features (Positioners)	Supply Pressure (maximum)	Stroke Lengths	Actions Increase Instrument Signal	
GC31 - GC34 Series Positioners Top Mounted - No Exposed Parts High Flow Capacity - 5 SCFM All Standard Spans and Splits Ranges Available Extend and Retract Actuator Stem on Increasing Signal Extend and Retract Actuator Stem on System Air Failure	100 PSIG	1/4" to 10"	Extends or Retracts	<1% of Span
GP50 / GP51 / GP52 Series Positioners Side Mounted Booster Valving for Fast Response and Precise Control Motion Balance for Easy Adjustment Characterization for Modification of Valve Characteristic Fast Dynamic Response via High Pressure Valves and Large Ports Precision Positioning via High Gain Circuit and Rigid Components Double and Single Acting Modes of Operation Bypass Factory Optional	100 PSIG	3/4" - 4"	Extends or Retracts	±1% of Span



GP50 / GP51 / GP52
Series

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Product performance

High Pressure - Natural Gas Regulator



High Pressure -
Natural
Gas Regulator

Product Series / Features (Pressure Reducing)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
HPNGV1 Heavy Duty Engine Applications Integral Pressure Relief Device High Flow Capacity Multiple Porting Configurations Hot Engine Coolant Routed through Regulator to Prevent Freeze Up Bypass Design - Provides Minimal Pressure Drop with Increasing Flow	3600 PSIG	45-150 PSIG	110 lbs/hr	Aluminum

Snap-Acting Relays



GVB11 / GVB12
Series

Product Series / Features (Snap Acting)	Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
GVB11 / GVB12 Snap-Acting Relays Switch from Main to Auxiliary Supply Pressure Aluminum and Stainless Steel Construction Lock Actuator in Last Position Extend or Retract an Actuator Stem Divert Flow or Pressure from One Device to Another Multiple Elastomer Selections Offered	150 PSIG	25-85 PSIG	Cv = 0.38	Aluminum 303SS

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Product performance

Diaphragm Seals - Threaded and Flanged Models

Product Series / Features (All Series)	Diaphragm Style	Diaphragm Displacement Cubic Inches	Maximum Working Pressure (PSIG)	Process Connection Size	Wetted Material (All Units)
Threaded Off-Line Process Connection					Carbon Steel 316SS 316LSS 304SS 304LSS
100A / 100AC Series	Replaceable	0.08 / 0.14	200 to 10000	1/4" - 1-1/2" NPT	
140K / 140KT Series	All Welded	0.02	2000 to 5000	1/8" - 1/2" NPT	
190K Series	All Welded	0.028	1000	1/4" - 1" NPT	
300A / 330A / 600A Series	Welded	0.05 / 0.16 / 0.24	1250 to 20000	1/4" - 1-1/2" NPT	
400A / 400AC Series	Replaceable	1.4	200	1/4" - 1-1/2" NPT	
360A Series	All Welded	0.05	2500	1/4" - 1-1/2" NPT	
Threaded In-Line Process Connection					
100AM Series	Replaceable	0.09	1000 to 2000	1/4" - 1" NPT	Carpenter 20 CB-3 Hastelloy B3 Hastelloy C276 Inconel 600 Monel 400 Nickel 200 Kynar Polypropylene PVC Teflon - CF Teflon - GF Titanium Tantalum
300AM Series	Welded	0.05	1250 to 2500	1/4" - 1" NPT	
Flanged Off-Line Process Connection					
100B Series	Replaceable	0.09	(For All Units)	1/2" - 3"	
300B Series	Welded	0.05	150# to 2500#	1/2" - 3"	
360B Series	Welded	0.05	Raised Faced	1/2" - 3"	
300BX Series	Welded	0.05	Flat Faced	1/2" - 3"	
330B Series	Welded	0.15	Ring Type Joint	1/2" - 3"	
400B Series	Replaceable	1.4	Special Connections	1/2" - 3"	
600B Series	Welded	0.25		1/2" - 3"	



140K Series



300A Series



300B Series

Product performance

Diaphragm Seals - Specialty Models

Product Series / Features (All Series)	Diaphragm Style	Diaphragm Displacement Cubic Inches	Maximum Working Pressure (PSIG)	Process Connection Size	Wetted Material (All Units)
Saddle Welded Process Connection					Carbon Steel 316SS 316LSS
100J3 / 100J4 Series	Replaceable	0.09	Sch. 5 to Sch. 160	3" - 4"	
300J3 / 300J4 Series	Welded	0.05	Sch. 5 to Sch. 160	3" - 4"	
Butt Welded In-Line Process Connection					304SS 304LSS
100L Series	Replaceable	0.09	Sch. 5 to Sch. 160	1/4" - 1"	
300L Series	Welded	0.05	Sch. 5 to Sch. 160	1/4" - 1"	
Socket Welded In-Line Process Connection					Carpenter 20 CB-3 Hastelloy B3 Hastelloy C276
100M Series	Replaceable	0.09	Sch. 5 to Sch. 160	1/4" - 1"	
300M Series	Welded	0.05	Sch. 5 to Sch. 160	1/4" - 1"	
Flanged In-Line Process Connection					Inconel 600 Monel 400 Nickel 200
100N Series	Replaceable	0.09	150# thru 2500# RF	1" - 3"	
300N Series	Welded	0.05	150# thru 2500# RF	1" - 3"	
Socket Welded In-Line Process Connection					Kynar Polypropylene PVC
100S Series	Replaceable	0.09	Sch. 5 to Sch. 160	1/4" - 1"	
300S Series	Welded	0.05	Sch. 5 to Sch. 160	1/4" - 1"	
Flanged Off-Line Process Connection					Teflon - CF Teflon - GF Titanium Tantalum
300BP Pancake Series	Welded	0.25	150# - 300#	3"	
300BT "T" Type Series	Welded	0.25	150# - 300#	3"	
600TW Taylor Wedge Series	Welded	0.25	1500 PSIG	Wedge	



300J4 Series

Product performance

Diaphragm Seals - Sanitary Models

Product Series / Features (All Series)	Diaphragm Style	Diaphragm Displacement Cubic Inches	Piping System	Process Connection Size	Wetted Material (All Units)
Sanitary Diaphragm Seals					
700C-115 Series	Welded	0.02	All Units	1-1/2"	316SS
700C-120 Series	Welded	0.028	Ladish Tri-Clamp	2"	316SS
700C-125 Series	Welded	0.04	Cherry Burrell "S" Line	2-1/2"	316SS
700C-130 Series	Welded	0.04	G & H GC Fast Clamp	3"	316SS
700C-220 Series	Welded	0.028	All Units	2"	316SS
700C-230 Series	Welded	0.04	CB "I" Line	3"	316SS
700C-240 Series	Welded	0.04		4"	316SS
700C-320 Series	Welded	0.028	Cherry Burrell "Q" Line	2"	316SS
700C-420 Series	Welded	0.028	C & H GC "H" Line	2"	316SS
700C-520 Series	Welded	0.028	APC Quick Connect	2"	316SS
700A-628 Series	Welded	0.028	Anheuser Busch	2"	316SS
700A-626 Series	Welded	0.028	Anheuser Busch	2"	316SS
700D-820 Series	Welded	0.028	Ashcroft Replacement	2"	316SS
700CEX Series	Welded	As Designed	As Designed	As Designed	As Designed
700C-7 Extended	Welded	0.15	4" Tri-Clamp	Tank Spud	316SS



700C Series



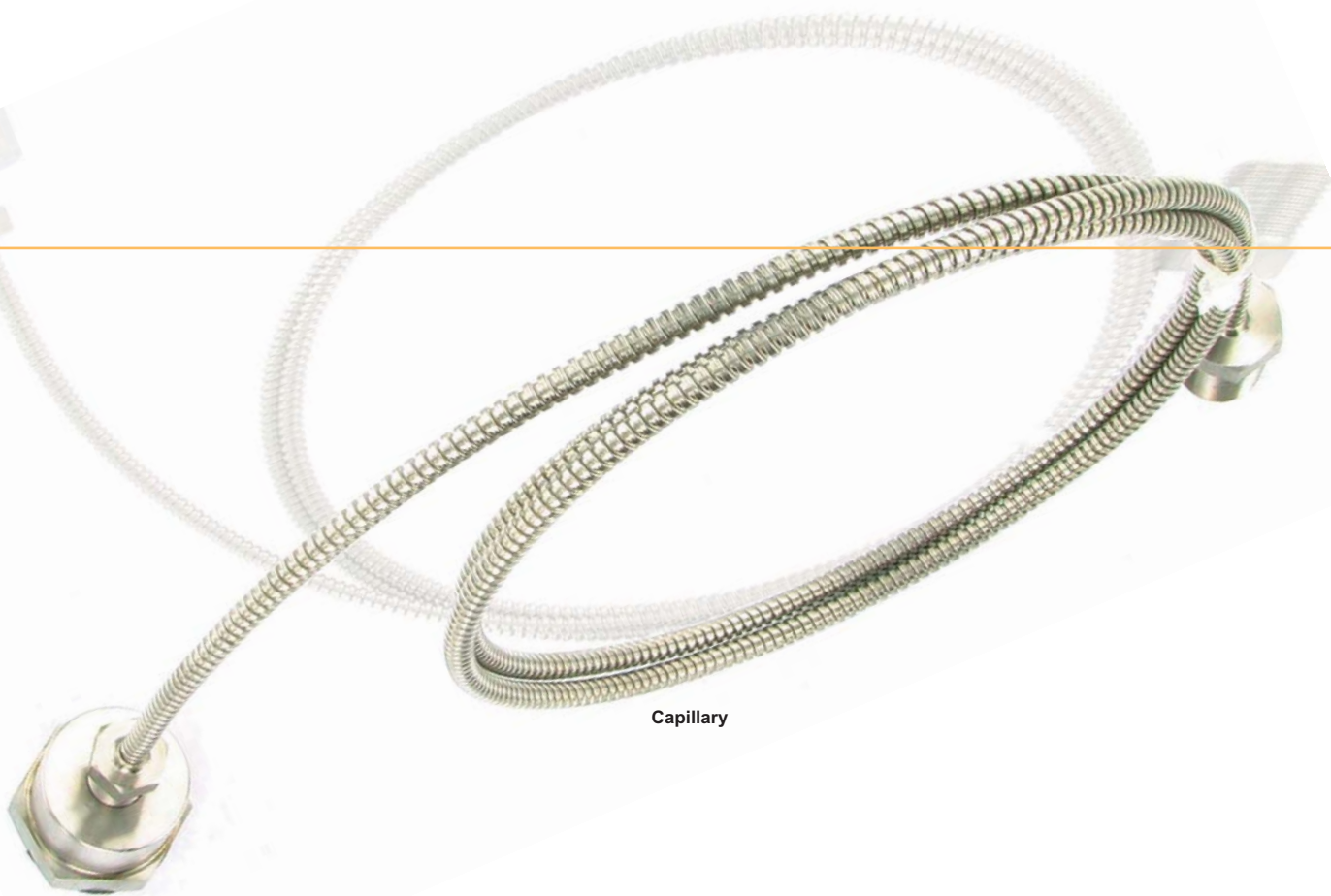
700C Series

Engineered for life

Product performance

Diaphragm Seals - Mounting and Filling Accessories

Product Series / Features (All Series)	
Diaphragm Seals Accessories Mounting Options Direct Mount Nipple Mount Capillary Mount	Mounted Directly to Customer Instrument 2" and 4" Long Nipples 5' to Desired Length of Stainless Steel Armored or PVC Armored Capillary
Fill and Calibration Options Mount / Fill / Calibrate to Customer Supplied Instrument Fill Fluids Offered	Silicones, Pure Glycerine, Fluorolube, Halocarbons, Ethylene Glycol, Propylene Glycol, Syltherm, Neobee and Mineral Oil
Calibration Rings 3" 150# and 300# Flange	Single and Dual Flush Ports



Capillary



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