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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
<b>HP300 High Pressure Regulator</b> <b>Piston Type</b> 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.
<b>HP500 High Pressure Regulator</b> <b>Diaphragm Type</b> Relieving and Non-Relieving Diaphragms Offered Design Leak Rate $2 \times 10^{-8}$ 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



HP500 Series



# 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
<b>HP600 High Pressure Regulator</b> <b>Tied Diaphragm Type</b> 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 $2 \times 10^{-8}$ 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.
<b>HP610 High Pressure Regulator</b> <b>Diaphragm Type</b> Relieving and Non-Relieving Diaphragm Options Internal Finish on Wetted Components 20Ra Inboard Leak Rate $2 \times 10^{-8}$ 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
<b>HP635 High Pressure Regulator</b> <b>Diaphragm Type</b> Brass and Stainless Steel Construction NPT and Tube Stub Connections Offered High Flow Capacity - Cv 1.8 Optional Base Mounting and Panel Mounting Available $2 \times 10^{-8}$ 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
<b>HP700 High Pressure Regulator</b> <b>Diaphragm Type</b> 3500 and 6000 PSIG Maximum Supply Pressure Capabilities Captured Bonnet Ports Standard Design Leak Rate $2 \times 10^{-8}$ 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.

# 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
<b>GT210/GT410/GT610 Transducers</b> <b>I/P-E/P Transducers</b> 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	±0.5% of Span
<b>GT-8 Series Transducer</b> <b>I/P Transducer</b> 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
<b>GT25CA1826 IEEE Transducer</b> <b>GT25CD1826 IEEE Transducer without Regulator</b> <b>GT45CA1826 IEEE Transducer</b> <b>GT45CD1826 IEEE Transducer without Regulator</b> <b>GT65CA1826 IEEE Transducer</b> <b>GT65CD1826 IEEE Transducer without Regulator</b> 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
<b>GFH25XT1767C Airpak, Filter Regulator</b> <b>GFH25XT1767F Airpak, Filter Regulator</b> <b>GFH25XT1767G Airpak, Filter Regulator</b> 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

# 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
<b>GB50X - GB55X</b> <b>Linear Actuators</b> 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.
<b>GB52U - GB54U</b> <b>Linear Actuators</b> 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.
<b>GB52S - GB53S</b> <b>Lever Actuators</b> 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.
<b>GB2700 - GB2800</b> <b>Manual Operators</b> Large and Small Handwheel for Manual Operation	1500 / 4500 lbs. of Thrust			
<b>Fail Safe Systems</b> Fails Extended or Retracted Lock in last Position with Snap Acting Relay	57, 180, 400, 1000, 2100 Cubic Inch Tanks			

# Product performance

## Top and Side Mounted Positioners



GC31 - GC34 Series



GP50 / GP51 / GP52 Series

Product Series / Features (Positioners)	Supply Pressure (maximum)	Stroke Lengths	Actions Increase Instrument Signal	
<b>GC31 - GC34 Series Positioners</b> 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
<b>GP50 / GP51 / GP52 Series Positioners</b> 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

# 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
<b>HPNGV1</b> 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
<b>GVB11 / GVB12</b> <b>Snap-Acting Relays</b> 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

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



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



# 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)
<b>Sanitary Diaphragm Seals</b>					
<b>700C-115 Series</b>	Welded	0.02	All Units	1-1/2"	316SS
<b>700C-120 Series</b>	Welded	0.028	Ladish Tri-Clamp	2"	316SS
<b>700C-125 Series</b>	Welded	0.04	Cherry Burrell "S" Line	2-1/2"	316SS
<b>700C-130 Series</b>	Welded	0.04	G & H GC Fast Clamp	3"	316SS
<b>700C-220 Series</b>	Welded	0.028	All Units	2"	316SS
<b>700C-230 Series</b>	Welded	0.04	CB "I" Line	3"	316SS
<b>700C-240 Series</b>	Welded	0.04		4"	316SS
<b>700C-320 Series</b>	Welded	0.028	Cherry Burrell "Q" Line	2"	316SS
<b>700C-420 Series</b>	Welded	0.028	C & H GC "H" Line	2"	316SS
<b>700C-520 Series</b>	Welded	0.028	APC Quick Connect	2"	316SS
<b>700A-628 Series</b>	Welded	0.028	Anheuser Busch	2"	316SS
<b>700A-626 Series</b>	Welded	0.028	Anheuser Busch	2"	316SS
<b>700D-820 Series</b>	Welded	0.028	Ashcroft Replacement	2"	316SS
<b>700CEX Series</b>	Welded	As Designed	As Designed	As Designed	As Designed
<b>700C-7 Extended</b>	Welded	0.15	4" Tri-Clamp	Tank Spud	316SS



700C Series



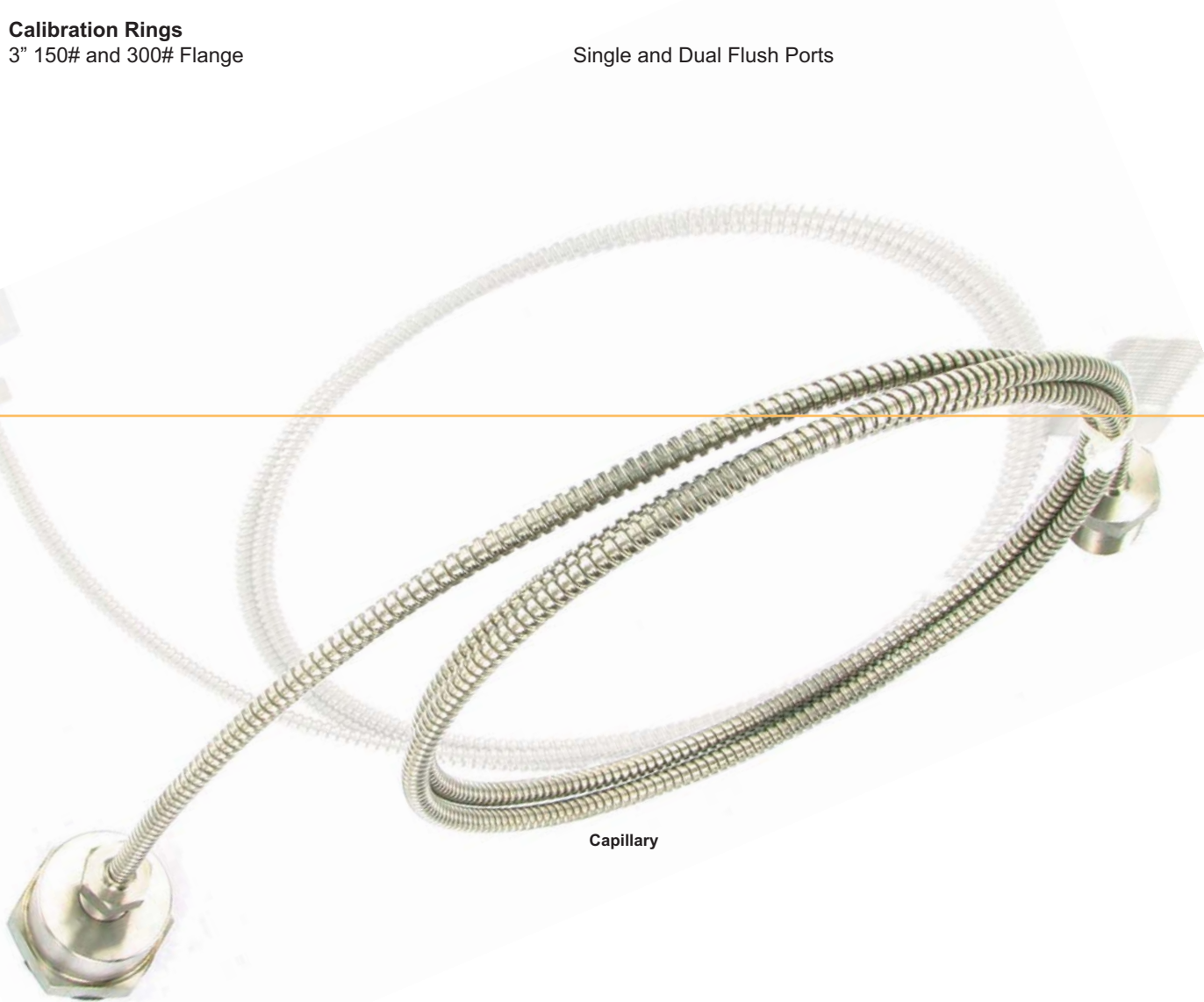
700C Series



# Product performance

## Diaphragm Seals - Mounting and Filling Accessories

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



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