



Instrumentation and Process Control Solutions for the Oil & Gas Industry

ControlAir's Precision Pressure Regulators, Filter Regulators, Volume Boosters, Air Relays and I/P Transducers help ensure precise pressure adjustment for instrumentation and process control in the oil and gas markets. These demanding applications require accurate and repeatable pressure regulation, sometimes under extreme conditions. ControlAir's family of Stainless Steel and NACE units provide longer life in offshore and other harsh environments.

Pneumatic and Electro-Pneumatic Regulators are used in the following applications

Process Control Valves

Control of valves with Filter Regulators, I/P Pressure Transducers and Volume Boosters

Separator Skids

Water and oil separators

Rotational Speed Controls on Compressors and Turbines

I/P Transducers are used to control throttle speed

Emergency Shutdown System Controls

Filter Regulators and SIL 3 compliant Volume Boosters for quick and reliable valve actuation

Flare and Burner Systems

High Flow Regulators used for gas vent control

Wellhead Instrumentation and Analysis

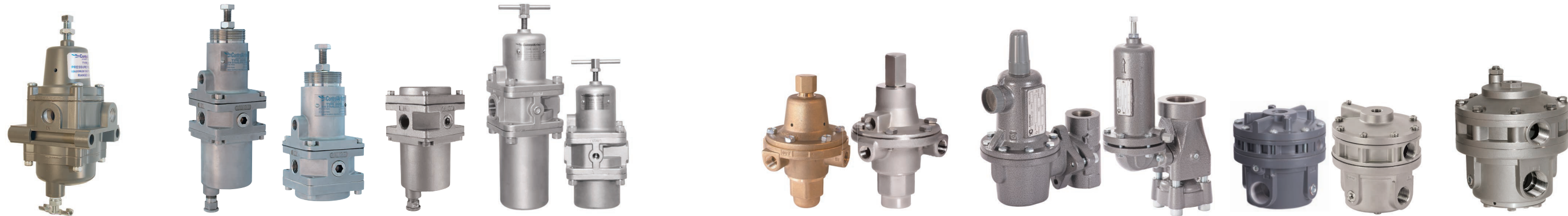
Precision Regulators and low bleed I/P Transducers for sensitive instrument control

Tank Blanketing Precision Regulators for controlling tank pressures

Natural Gas Compressors

Regulators for fuel systems on compressor skids





	TYPE 310/330/335 Filter Regulators	TYPE 350/360/370 Filter Regulator/Regulator/Filter	TYPE 380/390SS Filter Regulator / Regulator	TYPE 3500/3600 High Pressure Regulators	TYPE 1227/1230 Gas Pressure Regulators	TYPE 6100/6200 Volume Boosters	TYPE 6500/6600 Large Flow Volume Booster
Features	<ul style="list-style-type: none"> Corrosion Resistant Construction NACE MR0175 Compliant Depth Filter Two Outlet Connections Stable Output and Repeatability Low Droop At High Flow Levels Tight Shutoff Low Air Consumption Tapped Exhaust Stainless Steel Trim option 	<ul style="list-style-type: none"> 316 Stainless Steel (T350/360/370) NACE MR0175 Compliant Autodrain Option (T350 & 370) 1/4" & 1/2" NPT Ports Low Temp Option High Flow Capacity Tapped Exhaust Port Minimal Air Consumption 	<ul style="list-style-type: none"> 316L Stainless Steel Construction High Flow Capacity 3/4" or 1" NPT Porting (2) Gauge Ports Automatic Drain Option Soft Seat Self Relieving Design 	<ul style="list-style-type: none"> 316 Stainless Steel (T3600) NACE MR0175 Compliant (T3600) Choice of Three Output Pressures Choice of Three Output Ports Socket Head or Tee Handle Replacement Valve Seat Non-Relieving Design (T3600) High Maximum Inlet Pressure 	<ul style="list-style-type: none"> 3/4", 1", or 2" body size Wide range of orifice sizes for different flow capacities Trim can be replaced without disconnecting regulator from the system Can be re-arranged into multiple orientations for difficult installations with limited maneuverability Tamper-proof cap Monitoring option (M) provides downstream feedback control line 	<ul style="list-style-type: none"> 1/4", 1/2" or 3/4" NPT Porting Aluminum or 316 Stainless Steel Construction Integral Adjustable Bypass Valve High Flow Capacity Soft Valve Seat Design High Temperature Operation High Output Exhaust (2) 1/4" NPT Gauge Ports IEC 61508 SIL3 Certified Optional Negative Bias 	<ul style="list-style-type: none"> 3/4" or 1" NPT/BSP Porting Integral Adjustable Bypass Valve High Flow Capacity Soft Valve Seat High Temp. Operation Tapped High Output Exhaust Port (2) 1/4" NPT Gauge Ports Low Temp. Option IEC 65108 SIL 3 Certified
NACE Compliant	T310 & T335	T350, T360 & T370		T3600	T1227N & T1230N		
Material (Body)	Diecast Aluminum with Baked Epoxy Finish	316L Stainless Steel	316L Stainless Steel	T3500: Brass T3600: 316 Stainless Steel	LCC Steel	T6100: Aluminum T6200: 316 Stainless Steel	T6500: Aluminum T6600: 316 Stainless Steel
Output Ranges	0-30 psig (0-2.1 bar) 0-60 psig (0-4.1 bar) 0-100 psig (0-6.9 bar) T330: 0-120 psig (0-8 bar)	T350 & T360: 0-30 psig (0-2.1 bar) 0-60 psig (0-4.1 bar) 0-100 psig (0-6.9 bar) 0-150 psig (0-10.3 bar) T370: N/A	0-30 psig (0-2.1 bar) 0-60 psig (0-4.1 bar) 0-100 psig (0-6.9 bar) 0-150 psig (0-10.3 bar) 0-200 psig (0-13.8 bar)	0-125 psig (0-8.6 bar) 0-150 psig (0-10.3 bar) 0-225 psig (0-15.5 bar)	T1227: 5-20 psig (0.4-1.4 bar) 15-40 psig (1.0-2.8 bar) 10-95 psig (0.7-6.4 bar) 35-80 psig (2.4-5.5 bar) 70-150 psig (4.8-10.3 bar) T1230: 27-50 psig (1.9-3.5 bar) 46-95 psig (3.2-6.6 bar) 90-150 psig (6.2-10.3 bar) 150-200 psig (10.3-13.8 bar) 200-275 psig (13.8-19 bar) 275-500 psig (19-34.5 bar)	0-150 psig (0-10.3 bar)	0-150 psig (0-15 bar)
Maximum Supply Pressure	T310 & T335: 250 psig (17.2 bar) T330 Autodrain: 150 psig (10 bar)	T350: 290 psig (20.0 bar) Autodrain: 150 psig (10.34 bar) T360: 290 psig (20.0 bar) T370: 150 psig (10.34 bar) Autodrain: 150 psig (10.34 bar)	290 psig (20.0 bar) Autodrain: 150 psig (10.0 bar)	6000 psig (413 bar)	T1227: 2,000 psig (138 bar) T1230: 1,500 psig (103 bar)	250 psig (17.0 bar)	250 psig (17.0 bar)
Maximum Flow Coefficients (Cv)	T330 & T335-1/4": 0.5 at 150 psig supply and 80 psig setpoint T330-1/2": 2.5 at 150 psig supply and 80 psig setpoint	1/4" = 1.2 1/2" = 3.3	T380: 3/4": 9.0; 1": 10.0 T390: 3/4": 11.0; 1": 11.0	0.13	T1227: See Table 2 in Sales Sheet T1230: See Table 2 in Sales Sheet	T6100 T6200 Port Forward Exhaust Exhaust 3/4" 5.0 3.5 4.0 1/2" 4.5 3.5 4.0 1/4" 2.0 2.5 3.0	3/4" Forward: 8.0 Exhaust: 8.0 1" Forward: 9.0 Exhaust: 8.0
Air Consumption	Less than 5 scfh (2.5 NI/min)	4 scfh (2 NI/min) maximum	4 scfh (2 NI/min) maximum				
Flow Capacity	T310: 20 scfm at 100 psig with 20 psig output T330-1/4": 30 scfm at 150 psi with 20 psig output T330-1/2": 180 scfm at 150 psig with 20 psig output		T380: 3/4" & 1": 425 scfm (12,027 NI/min) T390: 3/4": 450 scfm (12,735 NI/min); 1": 500 scfm (14,150 NI/min)		T1227: See Table 3 in Sales Sheet T1230: See Table 4 in Sales Sheet	250 scfm (7,075 NI/min)	3/4": 375 scfm (10,613 NI/min) 1": 425 scfm (12,028 NI/min)
Operating Temperatures	T310 & T335: -20° to 180°F (-29° to 82°C) T330 Manual drain: 0° to 160°F (-18° to 71°C) T330 Autodrain: 32° to 160°F (0° to 71°C) T330 Low temp option: -62° to 194°F (-52° to 90°C)	-20° to 185°F (-29° to 85°C) Autodrain option (T350 & T370 only): 32° to 185°F (0° to 85°C) Low temp option: -61° to 194°F (-52° to 90°C)	-40° to 200°F (-40° to 93°C) Autodrain: 32° to 200° (0° to 93°C)	T3500: -70° to 225°F (-57° to 107°C) T3600: -40° to 225°F (-40° to 107°C)	T1227: Nitrile & Nylon -40° to 180°F (-40° to 82°C); Fluorocarbon 0° to 180°F (-18°C to 82°C) T1230: Neoprene, Nitrile & Nylon -40° to 180°F (-40° to 82°C); Fluorocarbon and CTFE 0° to 180°F (-18° to 82°C)	-40° to 200°F (-40° to 93°C) Low temperature option: -62° to 194°F (-52° to 90°C)	-40° to 200°F (-40° to 93°C) Low temperature option: -62° to 194°F (-52° to 90°C)
Filter	40 micron (5 micron option)	T350/360: 25 micron; optional 5 micron; T370: N/A	T380: 40 micron (5 micron option) T390: N/A				
Porting Inlet/Outlet: Gauge(s): Exhaust: Body:	T310 & T335 T330 1/4" NPT 1/4" NPT or 1/2" NPT 1/4" NPT 1/4" NPT 1/4" NPT 1/4" NPT	T350/360 T370 1/4" NPT or 1/2" NPT 1/4" NPT or 1/2" NPT 1/4" NPT 1/4" NPT 1/8" NPT —	3/4" NPT or 1" NPT (2) 1/4" NPT 1/8" NPT	1/4" NPT	3/4" Body, 1" Body, 2" Body	1/4" NPT, 1/2" NPT or 3/4" NPT 1/4" NPT ø7/16" or 1/4" NPT option	3/4" or 1" NPT/BSP (2) 1/4" NPT/BSP 3/4" NPT/BSP Signal port: 1/4" NPT/BSP Feedback port option: 1/4" NPT/BSP
Weight	T310: 1.6 lb. (0.72 kg) T335: 1.2 lb. (0.54 kg)	T350: 1/4" NPT: 2.2 lbs. (1.0 kg) 1/2" NPT: 2.8 lbs. (1.3 kg) T360: 1/4" NPT: 2.0 lbs. (0.9 kg) 1/2" NPT: 2.6 lbs. (1.2 kg) T370: 1/4" NPT: 2.1 lbs. (0.95 kg) 1/2" NPT: 2.5 lbs. (1.14 kg)	T380: 16.6 lbs (7.5 kg) T390: 14.5 lbs (6.6 kg)	3.25 lbs (1.5 kg)	T1227: 3/4" Body 6.25 lbs. (2.83 kg) 1" Body 6.5 lbs. (3 kg); 2" Body 10 lbs. (4.5 kg) T1230: 1" Body 25 lbs. (11.3 kg); 2" Body 30 lbs. (13.6 kg)	T6500: 2.5 lbs (1.13 kg) T6600: 5.7 lbs (2.60 kg)	T6500: 6.5 lbs. (2.95 kg) T6600: 15 lbs. (6.80 kg)
Operating Media	Air, inert gas, sweet (natural) and sour gases	Air, inert gas, sweet (natural) and sour gases	Air, inert gas, sweet (natural) gas	T3500: Air, inert gas, noncorrosive gases T3600: Air, inert gas, sweet (natural) and sour gases	Air, inert gas, sweet (natural) gas	Air, inert gas, sweet (natural) gas	Air, inert gas, sweet (natural) gas



	TYPE 595 I/P Transducer	TYPE 900 I/P Transducer		TYPE 950 I/P Transducer	TYPE 2000 Valve Positioner Pneumatic/Electro-Pneumatic	
Features	<ul style="list-style-type: none"> Explosion-proof Compact Size Vibration & Position Insensitive Low temperature Option Worldwide Agency Approvals 	<ul style="list-style-type: none"> Electronic Closed-loop Feedback Compact Size Easy Wiring Input/Output Ports on Front and Back Intrinsic Safety Approvals Field selectable outputs (optional) Field reversible, RFI/EMI protection Zero-based ranges available 		<ul style="list-style-type: none"> Explosion-proof Optional Field-Selectable Outputs Approved for Natural Gas RFI/EMI Protected Compact Size Low Air / Gas Consumption 	<ul style="list-style-type: none"> Explosion-proof Natural Gas option Modular Construction Rotary & Linear, Single & Double Acting Optional 4-20 mA Feedback on Mechanical Switches External Zero Adjustment Compact Design and Low Weight Vibration/Position/Shock Insensitive Stainless Steel Spool Valve 	
Approvals	FM, CSA, ATEX, EAC, UKCA, EAC	FM, CSA, ATEX, EAC		FM, CSA, ATEX, EAC	FM, CSA, ATEX	
Material (Body)	Chromate-treated aluminum w/epoxy paint NEMA 4X (IP65)	Chromate-treated aluminum w/epoxy paint NEMA 4X (IP65)		Chromate-treated aluminum w/epoxy paint NEMA 4X (IP66)	NEMA 4X (IP66) aluminum w/polyester epoxy finish	
Inputs	4-20 mA	Standard Range 4-20 mA, 0-5 Vdc 0-10 Vdc, 1-5 Vdc 1-9 Vdc	High Output Range 4-20 mA, 0-5 Vdc 0-10 Vdc, 1-5 Vdc 1-9 Vdc	4-20 mA	Pneumatic 3-15 psi (0.2-1.0 bar)	Electro-Pneumatic 4-20 mA (Ri<250 ohms)
Output Ranges psig (bar)	3-15 (0.2-1.0) 3-27 (0.2-1.9) 6-30 (0.4-2.1)	1-17 (0.1-1.2) 3-15 (0.2-1.0) 3-27 (0.2-1.9) 6-30 (0.4-2.1) 0-15 (0-1) 0-30 (0-2.1)	2-60 (0.14-4.1) 2-100 (0.14-6.9) 0-60 (0-4.1) 0-100 (0-6.9)	3-15 (0.2-1.0) 3-27 (0.2-1.9) 6-30 (0.4-2.1)		
Maximum Supply Pressure <small>Note: Supply pressure must be a minimum of 5 psig (0.3 bar) above maximum output</small>	3-15: 22 psig (1.5 bar) max 3-27, 6-30: 42 psig (2.8 bar) max	22-60 (1.5-4.1) 20-100 (1.4-6.9) 32-100 (2.2-6.9) 35-100 (2.4-6.9) 25-65 (1.7-4.5) 40-70 (2.8-4.8)	65-130 (4.5-9.0) 105-130 (7.2-9.0) 70-80 (4.8-5.5)	100 psig (6.9 bar)	<145 psi (<10 bar)	21.8-145 psi (1.50-10 bar)
Air Consumption Coefficients (Cv)	0.1 scfm (2.82 NI/min)	1.5 scfm (0.75 NI/min) at mid range typical	4.5 scfm (2.25 NI/min) at mid range typical	3.0 scfm (1.5 NI/min) at mid range	Electro-Pneumatic Pneumatic scfm (NI/min)	Electro-Pneumatic Pneumatic scfm (NI/min)
Operating Temperatures	-40°F to 185°F (-40°C to 85°C) Low temperature (L) option: -67°F to 158°F (-55°C to 70°C)	-40° to 158°F (-40° to 70°C)		-40° to +158°F (-40° to +70°C)	-40° to 185°F (-40° to 85°C)	
Porting	Pneumatic: 1/4" NPT (P & N versions); 1/16" manifold mount (M version) 1/8" NPT Gauge Port (P version) Electric: 1/2" NPT or M20-1.5	Pneumatic: 1/4" NPT/BSP Electric: 1/2" NPT/BSP		Pneumatic: 1/4" NPT Electric: 1/2" NPT M20 x 1.5 (ATEX)	1/4" NPT; Gauge Ports 1/8" NPT	1/2" NPT; M20-1.5 (ATEX)
Flow Capacity	2.4 scfm (67.92 NI/min) max	4.5 scfm (127.35 NI/min) at 25 psig (1.7 bar) supply (3-15, 3-27, 6-30 psig) 12.0 scfm (340 NI/min) at 100 psig (6.9 bar) supply (3-15, 3-27, 6-30, 2-60 psig)	20.0 scfm (566 NI/min) at 150 psig (10.0 bar) supply (0-120 psig)	4.5 scfm (127 NI/min) at 25 psig (1.7 bar) supply 12.0 scfm (340 NI/min) at 100 psig (6.9 bar) supply	scfm @29 psig (2.0 bar) 9.5 @87 psig (6.0 bar) 28.3 @145 psig (10 bar) 47.1	NI/min 268.9 800.1 1333
Operating Media	Clean, dry, oil-free, instrument air, filtered to 40 micron	Clean, dry, oil-free, instrument air, filtered to 40 micron		Clean, dry, oil-free, instrument air, filtered to 40 micron. Sweet natural gas or methane when purchased with (E) option.	Clean, dry, oil-free instrument air, filtered to 40 micron	



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