

Conoflow[®] Quick Reference Guide



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ENGINEERED FOR LIFE

Conoflow® - Quick Reference Guide

Airpak, Filter-Regulator / Filter Only



FR95

- FR95 Airpak, Filter Regulator
- GFH45, GFH75, GFH76 Airpak, Filter Regulators
- GFH20 Qualified Airpak
- GFX02, GFX04 Filter (no regulator)

Model	Maximum Supply Pressure (PSIG)	Controlled Output Setting (PSIG) 0-25, 0-60, 0-125	Inlet / Outlet 2-Gauge Ports	Flow (scfm)	Materials of Construction				Diaphragm Seat Selection		Diaphragm Material		Filter Element		
					Aluminum	Brass	303 SS	316 SS N.A.C.E.	Relieving	Non-Relieving	Buna N	Viton	35 Micron Polypropylene	10 Micron Cellulose	40 Micron Stainless Steel
FR95	250 psig	▲	▲	25	▲				▲	▲	▲		▲	▲	▲
GFH45	300 psig	▲	▲	20		▲			▲	▲	▲	▲	▲	▲	▲
GFH20 IEE	200 psig	▲	▲	16		▲			▲			▲		▲	
GFH25 IEE	200 psig	▲	▲	16		▲			▲			▲		▲	
GFX02	300 psig	Not Applicable	In / Out Only	75		▲			N/A	N/A	N/A	N/A	▲	▲	▲
GFX04	300 psig	Not Applicable	In / Out Only	75	▲				N/A	N/A	N/A	N/A	▲	▲	▲

1. What is the maximum supply pressure:	
2. What is the controlled output setting:	
3. What is the process media:	
4. What is the operating temperature:	
5. What is the maximum flow required:	
6. What are the desired materials of construction:	
7. What filtration rating is required:	
8. What are the process connection sizes:	
9. What type of mounting is required (line, panel or bracket):	
10. Describe the application and expectations of the regulator:	

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Pressure Reduction Regulators - Low Pressure



GH10

- GH10 Manual Loading Regulator
- GH15 Miniature Regulator
- GH20/GH40 Service Regulator
- GH24/GH25 Pressure Reducing

Model	Maximum Supply Pressure (PSIG)			Controlled Output Setting (PSIG)	1/4" Inlet / Outlet	Flow (scfm)	Diaphragm Seat Selection		Diaphragm Material							Valve Plug Seat Option		Valve Plug Soft Seat Materials			Materials of Construction			
	200	250	300				Relieving	Non-Relieving	Buna N	Neoprene	Nordel	Silicone	Teflon Process Side	Teflon Sandwich	Viton	Metal to Metal Standard	Soft Seat	Buna N	Neoprene	Viton	Aluminum	Brass	303 SS	316 SS
GH10	▲		▲	0-3, 0-5, 0-15, 0-25, 0-35, 0-50, 0-125	▲	10	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲**	▲	▲	▲		▲	▲	▲
GH20	▲		▲	0-25, 0-60, 0-125	▲	20	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
GH25		▲		0-30, 0-60, 0-100	1/2" FNPT w/1/4" Gauge Ports	50	▲	▲	▲							▲					▲			
GH40	▲		▲	0-25, 0-60, 0-125	▲	20	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲

** Optional

1. What is the maximum supply pressure:	
2. What is the controlled output setting:	
3. What is the process media:	
4. What is the operating temperature:	
5. What is the maximum flow required:	
5a. Is the system constantly flowing or dead ended:	
6. What are the desired materials of construction:	
7. What are the process connection sizes:	
8. What type of mounting is required (line, panel or bracket):	
9. Describe the application and expectations of the regulator:	

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Low Pressure - Specialty Regulators



GH30

- GH20VT, GH28VT Vacuum Regulators
- GH22 Ratio and Flow Boosting Relays
- GH30 Back Pressure Regulators
- GH21 Differential Regulators
- Specialty Regulators

Model	Regulator Type	Maximum Supply Pressure (PSIG)			Controlled Output Setting (PSIG)	1/4" Inlet / Outlet	Flow (scfm)	Diaphragm Material						Valve Plug Seat Option		Valve Plug Soft Seat Materials			Materials of Construction			
		200	250	300				Buna N	Neoprene	Nordel	Silicone	Teflon Sandwich	Viton	Metal to Metal Standard	Soft Seat	Buna N	Neoprene	Viton	Aluminum	Brass	303 SS	316 SS
GH20VT	Vacuum Regulators				0-15" Hg 0-30"Hg	▲	1.5	▲												▲		▲
GH22	Ratio and Flow Boosting Relays				1:1, 1:2, 1:3, 2:1, 3:1	▲	16	▲						▲	▲	▲	▲	▲		▲		
GH30	Back Pressure Regulators				0-3, 0-5, 0-15, 0-25, 0-35, 0-50, 0-125	▲	2 - 30	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
GH21XT	Fixed and Adjustable Differential Regulators (Downstream Service)	▲		▲	3 PSIG Fixed	▲	2.5	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
GH41XT		▲		▲	3 PSIG Fixed	▲	2.5	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲
GH21F		▲			3 PSIG Fixed w/ Needle Valve	▲	1000 cc/m Air 100 cc/m Water	▲						▲						▲		
GH41F		▲			3 PSIG Fixed w/ Needle Valve	▲	1000 cc/m Air 100 cc/m Water	▲						▲	▲	▲	▲	▲		▲		
GH21AT		▲		▲	0-5, 0-15, 0-25, 0-35, 0-50, 0-125	▲	10 SCFH	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
GH41AT		▲		▲	0-5, 0-15, 0-25, 0-35, 0-50, 0-125	▲	10 SCFH	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲
GH31	Fixed Differential Regulator (Upstream Service)	100 psig			3 PSIG Fixed	▲	10 SCFH	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
GH232T	Reversing Relay	100 psig				▲		▲							▲	▲				▲		

1. What is the maximum supply pressure:	
2. What is the controlled output setting (vacuum setting or ratio/differential pressure):	
3. What is the process media:	
4. What is the operating temperature:	
5. What is the maximum flow required:	
6. What are the desired materials of construction:	
7. What are the process connection sizes:	
8. What type of mounting is required (line, panel or bracket):	
9. Describe the application and expectations of the regulator:	

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Low Pressure - Purge Assembly (Consist of Differential Regulator, Needle Valve and Flow Meter)



- **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**

GDH2112

Model	Mounting Type		Controlled Out-put Setting (PSIG) Fixed	1/4" Inlet / Outlet	Flow (scfm)	Materials of Construction
	Line	Panel				Brass
GDH211	Line		3	▲	20 to 200 cc/min. water)	▲
GDH212	Line		3	▲	0.25 to 2.5 SCFH	▲
GDH213	Line		3	▲	Sight Feed Bubbler	▲
GDH214		Panel	3	▲	Sight Feed Bubbler	▲
GDH215	Line		3	▲	25 to 250 cc/min. (water)	▲
GDH216	Line		3	▲	0.1 to 2.0 SCFH	▲
GDH217	Line		3	▲	0.5 to 4.0 GPH	▲
GDH218	Line		3	▲	0.2 to 2.0 SCFH	▲
GDH219		Panel	3	▲	0.5 to 4.0 GPH	▲
GDH2110		Panel	3	▲	0.2 to 2.0 SCFH	▲
GDH2111	Line		3	▲	0.4 to 4.0 GPH	▲

Model	Mounting Type		Controlled Out-put Setting (PSIG) Fixed	1/4" Inlet / Outlet	Flow (scfm)	Materials of Construction
	Line	Panel				Brass
GDH2112	Line		3	▲	0.2 to 2.0 SCFH	▲
GDH2113	Line		3	▲	20 to 200 cc/min. (water)	▲
GDH2114	Line		3	▲	0.2 to 2.5 SCFH	▲
GDH2117	Line		3	▲	25 to 250 cc/min. (water)	▲
GDH2118	Line		3	▲	0.1 to 2.0 SCFH	▲
GDH2119	Line		3	▲	0.5 to 4.0 GPH	▲
GDH2120	Line		3	▲	0.2 to 2.0 SCFH	▲
GDH2121		Panel	3	▲	0.5 to 4.0 GPH	▲
GDH2122		Panel	3	▲	0.2 to 2.0 SCFH	▲
GDH2123	Line		3	▲	0.4 to 4.0 GPH	▲
GDH2124	Line		3	▲	0.2 to 2.0 SCFH	▲

1. What is the maximum supply pressure:	
2. What is the process media:	
3. What is the operating temperature:	
4. What is the maximum flow required:	
5. What are the desired materials of construction:	
6. What are the process connection sizes:	
7. What type of mounting is required (line or bracket):	
8. Describe the application and expectations of the regulator:	

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Pressure Reduction Regulators - High Pressure



HP610

- HP300 / HP400 High Pressure - Piston Type
- HP500 / HP610 / HP635 / HP700 High Pressure - Diaphragm Type
- HP600 High Pressure - Tied Diaphragm Type

Model	Maximum Supply Pressure (PSIG)							Controlled Output Setting (PSIG)	1/4" Inlet / Outlet Other Port Size and Gauge Ports are Optional	Flow (Cv)	Diaphragm Seat Selection		Main Valve Seat Material			Materials of Construction					
	250	500	3000	3500	5000	6000	10000				Relieving	Non-Relieving	Kel-F	Teflon	Vespel	Brass	303 SS	316 SS	316 LSS	Hastelloy	Monel
HP300						▲	▲	8-500, 9-800, 10-1500, 15-2500, 25-400, 60-600 25-4000, 60-6000	▲	0.14	▲	▲	▲		▲	▲					▲
HP400				▲		▲		0-2500	▲	0.06		▲	▲		▲						
HP500					▲	▲		4-25, 4-50, 5-100, 6-250, 10-500	▲	0.16	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲
HP600			▲		▲			2-25, 3-50, 3-100, 4-150	▲	0.15		▲	▲	▲		▲	▲				▲
HP610	▲							0-50	▲	0.95	▲	▲		▲		▲					
HP635		▲						0-25, 0-50, 0-100, 0-150, 0-250	▲	1.8		▲				▲					
HP700				▲		▲		4-25, 4-50, 5-100, 6-250, 10-500	▲	0.14	▲	▲	▲		▲		▲				▲
HP710				▲		▲		4-25, 4-50, 5-100, 6-250, 10-500	▲	0.14	▲	▲	▲		▲		▲	▲			▲

1. What is the maximum supply pressure:	
2. What is the controlled output setting:	
3. What is the process media:	
4. What is the operating temperature:	
5. What is the maximum flow required:	
6. What are the desired materials of construction:	
7. What are the process connection sizes:	
8. What type of mounting is required (line, panel or bracket):	
9. Describe the application and expectations of the regulator:	



GB52S

• GB50 - GB55 Pneumatic Piston Actuators

Model	Actuator Type			Piston Diameter Effective Area (cm ²)						Actuator / Lever Stroke (For Lever Actuator value represents maximum lever travel)										Operation Mode		
	Linear	Yoke	Lever	3" (7)	4" (12)	6" (28.5)	8" (50)	10" (78)	12.5" (123)	1-1/8"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	Throttling	On-Off
GB50	▲			▲								▲				▲		▲			▲	▲
GB51	▲				▲									▲	▲						▲	▲
GB52	▲					▲				▲					▲		▲				▲	▲
GB53	▲						▲				▲				▲		▲	▲	▲		▲	▲
GB52S			▲			▲														▲	▲	
GB53S			▲				▲													▲	▲	
GB52U		▲				▲				▲											▲	▲
GB53U		▲					▲				▲										▲	▲

1. What is the maximum supply pressure:	
2. What is the controlled output setting:	
3. What is the process media:	
4. What is the operating temperature:	
5. What is the maximum flow required:	
6. What are the desired materials of construction:	
7. What are the process connection sizes:	
8. What type of mounting is required (line, panel or bracket):	
9. Describe the application and expectations of the regulator:	

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



GT210

- GT210 / GT410 / GT610 I/P - E/P Transducer
- GT-2 Series E/P Transducer
- GT25 IEEE Transducer
- GT-8 Series I/P Transducer

Model	Transducer Type				Input Signal	Outlet Pressure Ranges	Flow (SCFM)	Linearity	Approvals	
	I/P	E/P	M/P	P/I					Intrinsically Safe	Explosion Proof
GT210/GT410/GT610	▲	▲			4-20, 10-50 mADC 0-5, 1-9 VDC	3-15, 3-27, 6-30 PSIG	12	±0.5% of Span	▲	
GT25 IEEE	▲				4-20, 10-50 mADC	3-15, 3-27, 6-30 PSIG	5	±1.5% of Span	N/A	N/A
GT-8 Series	▲				4-20, 10-50 mADC 0-5, 1-9 VDC	3-15, 3-27, 6-30 PSIG	0.15 to 5	±1% of Span	N/A	▲

1. What is the maximum supply pressure:	
2. What is the input signal:	
3. What is the outlet pressure setting:	
4. What is the process media:	
5. What is the operating temperature:	
6. What type of mounting is required (line, bracket, U-Bolt):	
7. What type of approvals are required:	
8. Describe the application and expectations of the transducer:	

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Positioners - Top and Side Mounted



GC31

- GJ11 - GJ14 Series Positioners
- GC31 - GC34 Series Positioners

Model	Positioner Type		Operation Mode		Actuator Stem Movement (1)		Fail Safe		Travel	Maximum Supply Pressure (PSIG)	Linearity
	Top	Side	Single Acting	Double Acting	In	Out	Extend	Retract			
GC31	▲		▲			▲		▲	1/4" - 10"	100	<1% of Span
GC32	▲		▲		▲			▲	1/4" - 10"	100	<1% of Span
GC33	▲		▲		▲		▲		1/4" - 10"	100	<1% of Span
GC34	▲		▲			▲	▲		1/4" - 10"	100	<1% of Span

1. Is the application for a top or side mounted positioner:	
2. What is the maximum supply pressure:	
3. What is the instrument signal:	
4. What is the mode of operation (on increasing instrument signal the actuator stem extends or retracts):	
5. What is the maximum stroke required:	
6. Is there a fail safe mode of operation required (actuator stem extends or retracts on air failure):	
7. What is the operating temperature:	
8. Describe the application and expectations of the positioner::	



• **GVB11 / GVB12 Snap-Acting**

GVB11

Model	Relay Type		Maximum Supply Pressure	Outlet Pressure Range	Flow - Cv	Elastomer Options			Materials of Construction	
	1 - Inlet 2 - Outlets	2 - Inlets 4- Outlets				Buna N	Silicone	Viton	Aluminum	303SS
GVB11	▲		150	25-85	0.38	▲	▲	▲	▲	▲
GVB12		▲	150	25-85	0.38	▲	▲	▲	▲	▲

1. What is the maximum supply pressure:	
2. What is the "trip" set point:	
3. What are the materials of construction:	
4. What is the process media:	
5. What is the temperature:	
9. Describe the application and expectations of the snap acting relay:	