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HOW TO ORDER GUIDE

2017

APPLICATION ENGINEERING

The bulk of the items listed in this price guide are designed for use with air service or similar inert gases. Proportion-Air, Inc., has access to a variety of air piloted devices, including process and air piloted flow control valves that can control a wide variety of aggressive fluids and gases. Even extremely high pressure solutions are available. Unfortunately, because of the uniqueness of these applications it is *virtually* impossible to list or categorize all of them. **FOR THIS REASON, WE ENCOURAGE YOU TO DISCUSS UNUSUAL APPLICATIONS WITH OUT APPLICATION ENGINEERING DEPARTMENT OR YOUR REGIONAL SALES MANAGER.** We welcome the opportunity to review these unique applications. We have the ability to provide many unique solutions.

CUSTOMER SERVICE

There is an incredible amount of information contained within. Please read carefully as to not overlook fees such as assembly, small order feeds and expedite charges. We have compiled this price guide to be as complete and accurate as possible. However, we know that there are options that your customer will demand that we have not printed. When this occurs (or, if you have any questions), we look forward to hearing from you.

HELPFUL NOTES FROM THE INSIDE SALES STAFF

- Approximate delivery time on Proportion-Air products is 3-4 weeks from receipt of purchase order
- There is an **expediting policy** for quick delivery. **Please contact customer service for availability of expedited service prior to accepting order***

REPAIR PROCESS

To return items to Proportion-Air for repair - the distributor must first obtain a return number (RMA#) directly from Proportion-Air. To be issued an RMA#, you must first complete a 'Request for Return Authorization' form. This simple form requires that you supply some very basic information such as model numbers, serial numbers, reason for return, etc..., That correspond to the items being returned. Once this form is completed in its entirety and received by Proportion-Air, an RMA# will be issued for you or your customer to reference when shipping the items to the factory. Please note, the repair and return process will be delayed if a return number is not referenced when items are received at the factory.

WARRANTY

Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred.

THE WARRANTY IS GIVEN IN-LIEU OF, AND BUYER HERBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGATION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIPTION AND FITNESS FOR A PARTICULAR PURPOSE.

WARNING: Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of death or injury.

QBX

ACCURACY	±0.2% F.S.	PRESSURE	Full Vac to 175 PSIG (12 Bar)
PORT SIZE	1/8"	MAX FLOW	1.2 SCFM (34 SLPM)

Example Part Number

QB	2	X	A	N	E	E	N	1	P	6	BR	G	3D	TF
	1		2	3	4	5	6	7	8	9	10	11	OPTIONS	

Section Reference

1 Type	
1	Single Loop
2	Dual Loop

2 Manifold Material	
A	Anodized Aluminum
B	Brass*
*Includes O2 Cleaning	

3 Thread Type	
N	NPT
P	BSPP

4 Input Signal Range	
E	0 to 10 VDC
I	4 to 20 mADC
K	0 to 5 VDC
V	1 to 5 VDC (Requires V for Monitor Signal #5)
D	0 to 255 Bit Digital (Cannot Select V for Monitor Signal #5)
L	0 to 255 Bit Digital Latching (Cannot Select V for Monitor Signal #5)
N	Ethernet/Proportion-Air (Requires X for Monitor Signal #5)
M	Ethernet/MODBUS TCP (Requires X for Monitor Signal #5)
A	RS232 Serial Input (Requires X for Monitor Signal #5)
B	RS485 Serial Input (Requires X for Monitor Signal #5)
P	P2 Profiler (Integrated)

5 Output Signal Range	
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC**
C	4 to 20 mADC (Sinking)
S	4 to 20 mADC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6 Zero Offset	
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7 Zero Offset Pressure	
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8 Full Scale Pressure Type	
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9 Full Scale Pressure	
Must be less than or equal to 175 psig	

10 Pressure Unit (no additional fee - all)			
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11 Pressure Unit of Measure	
A	Absolute Pressure
G	Gauge Pressure
D	Differential Pressure

QBS

ACCURACY		±0.5% F.S.		PRESSURE		Full Vac to 500 PSIG (34 Bar)	
PORT SIZE		1/8"		MAX FLOW		1.2 SCFM (34 SLPM)	
Example Part Number							
QB	1	S	S	N	I	S	Z
	1		2	3	4	5	6
							OPTIONS

Section Reference

1	Type
1	Single Loop
2	Dual Loop

2	Manifold Material
A	Anodized Aluminum
S	303 Stainless Steel
B	Nickel-Plated Brass*
	*Includes O2 Cleaning

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
	*Requires V for Monitor Signal (#5)

5	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (<i>Sinking</i>)
S	4 to 20 mA DC (<i>Sourcing</i>)
	*Requires E, I or K for Input Signal Range (#4)
	*Requires V for Input Signal Range (#4)

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (<i>Typical</i>)

7	Zero Offset Pressure
	Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.
	*If Z for Zero Offset, Please Leave this Section (#7) Blank

8	Full Scale Pressure Type
P	100% Pressure is Above Zero

9	Full Scale Pressure
	Must be between 50 and 500 psig

10	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-01	Wrap-Around Mounting Bracket
QBT5-03	Foot-Mount Bracket (<i>Installed</i>)*
	* Use Option BR for Foot-Mount Bracket

QB3

ACCURACY		±0.25% F.S.		PRESSURE		Full Vac to 150 PSIG (10 Bar)	
PORT SIZE		1/4"		MAX FLOW		30 SCFM (850 SLPM)	
Example Part Number							
QB	3	T	A	N	E	E	Z
	1	2	3	4	5	6	7
							OPTIONS

Section Reference

1	Type
1	-14.7 to 150 psi

2	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass*
	*Includes O2 Cleaning

4	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
N	Ethernet/Proportion-Air ¹
M	Ethernet/Modbus TCP ¹
A	RS232 Serial Input* ¹
B	RS485 Serial Input* ¹
P	P2 Profiler (<i>Integrated</i>)
	*Requires V for Monitor Signal (#5)
	*Requires X for Monitor Signal (#5)

3	Thread Type
N	NPT
P	BSPP - CALL

5	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (<i>Sinking</i>)
S	4 to 20 mA DC (<i>Sourcing</i>)
	*Requires E, I or K for Input Signal Range (#4)
	*Requires V for Input Signal Range (#4)

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (<i>Typical</i>)

7	Zero Offset Pressure
	Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.
	*If Z for Zero Offset, Please Leave this Section (#7) Blank

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
	Must be less than or equal to 150 psig

10	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-01	Wrap-Around Mounting Bracket
QBT-03	Foot-Mount Bracket (<i>Installed</i>)*
	* Use Option BR for Foot-Mount Bracket

QB3H

Example Part Number

ACCURACY	±0.5% F.S.	PRESSURE	Full Vac to 500 PSIG (34 Bar)										
PORT SIZE	3/8"	MAX FLOW	50 SCFM (1416 SLPM)										
QB	3H	A	N	E	E	Z	P	30	BR	G	TF	BR	OPTIONS
		1	2	3	4	5	6	7	8	9	10		

Section Reference

1	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass*
*Includes Oxygen Cleaning	

2	Thread Type
N	NPT

3	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
*Requires V for Monitor Signal (#4)	

4	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking)
S	4 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#3)	
**Requires V for Input Signal Range (#3)	

5	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

6	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#8 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#6) Blank	

7	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

8	Full Scale Pressure
Must be between 50 and 500 psig	

9	Pressure Unit (no additional fee - all)	
PS	PSI	Inches Hg IH
MB	Millibars	Inches H ₂ O IW
BR	Bar	Millimeters H ₂ O MW
KP	Kilo-pascal	Kilograms/cm ² KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11) TR
MH	Millimeters Hg	Centimeters H ₂ O CW
PA	Pascal	

10	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

Recommended Accessories	
QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-03HKIT	Foot-Mount Bracket (Installed)*
* Use Option BR for Foot-Mount Bracket	

QB4

Example Part Number

ACCURACY	±0.4% F.S.	PRESSURE	Full Vac to 150 PSIG (10 Bar)										
PORT SIZE	1/2"	MAX FLOW	200 SCFM (5,663 SLPM)										
QB	4	T	A	N	I	C	Z	P	75	PS	G	OPTIONS	
		1	2	3	4	5	6	7	8	9	10	11	

Section Reference

1	Type
1	-14.7 to 150 psi

2	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass*
*Includes O2 Cleaning	

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
A	RS232 Serial Input* ¹
B	RS485 Serial Input* ¹
P	P2 Profiler (Integrated)
*Requires V for Monitor Signal (#5)	
**Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking)
S	4 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
Must be less than or equal to 150 psig	

10	Pressure Unit (no additional fee - all)	
PS	PSI	Inches Hg IH
MB	Millibars	Inches H ₂ O IW
BR	Bar	Millimeters H ₂ O MW
KP	Kilo-pascal	Kilograms/cm ² KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11) TR
MH	Millimeters Hg	Centimeters H ₂ O CW
PA	Pascal	

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

Recommended Accessories	
QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-04K	Foot-Mount Bracket (Installed)*
* Use Option BR for Foot-Mount Bracket	

ACCURACY	±0.2% F.S.	PRESSURE	Full Vac to 150 PSIG (10 Bar)													
PORT SIZE	1/8"	MAX FLOW	1 SCFM (28 SLPM)													
QPV	2	M	B	N	E	E	Z	P	10	BR	G	A	X	L	3D	TF
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	OPTIONS

QPV^M Utilizes the new style manifold with dual output ports and threaded manifold.

Section Reference

1	Type
1	Single Loop
2	Dual Loop

2	Manifold Material
B	Brass
A	Anodized Aluminum

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
A	RS232 Serial Input* ¹
B	RS485 Serial Input* ¹
N	Ethernet/Proportion-Air* ¹
P	P2 Profiler (Integrated)
*Requires V for Monitor Signal (#5)	
*Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking) ²
S	4 to 20 mA DC (Sourcing) ²
*Requires E, I or K for Input Signal Range (#4)	
*Requires V for Input Signal Range (#4)	

6	Zero Offset
N	0% Pressure is Below Zero (Requires L Option #14)
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
Must be less than or equal to 150 psig	

10	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11	Pressure Unit of Measure
A	Absolute Pressure (Requires L Option #14)
D	Differential Pressure
G	Gauge Pressure

PLEASE CONTACT FACTORY FOR VALVE & ORIFICE SELECTION

Inlet valve orifice size and the exhaust valve are factory determined based on the application's flow and pressure specs. Bleed orifice is required when the QPV is used in an application that is static (no flow). Dynamic applications (under flow) do not require a bleed orifice to function properly. Please consult our Application Engineering Department for your specific application needs. We are here to help you.

12	Inlet Valve
A	0.013" (proportional valve)
B	0.025" (proportional valve)
C	0.040" (proportional valve)
D	0.060" (proportional valve)
E	0.089" (proportional valve)
N	No Inlet Valve*
X	0.040"* (digital valve)
*Vacuum Pressure Units Only	

13	Outlet Valve
A	0.013"* (proportional valve)
B	0.025"* (proportional valve)
C	0.040"* (proportional valve)
D	0.060"* (proportional valve)
E	0.089"* (proportional valve)
N	No Exhaust Valve
X	0.040"* (digital valve)
*Vacuum Pressure Units Only	

Recommended Accessories	
QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-01	Wrap-Around Mounting Bracket
QBT-02	Foot-Mount Bracket (Use Option BR to Have Installed)

14	Bleed Orifice
N	No Bleed Orifice
L	Factory Standard Bleed Orifice (0.004")
Z	Non-Standard Bleed Orifice (0.002")

MPV

Example Part Number

ACCURACY	±0.2% F.S.	PRESSURE	Full Vac to 150 PSIG (10 Bar)													
PORT SIZE	1/8"	MAX FLOW	1 SCFM (28 SLPM)													
MPV	1	D	B	N	E	E	Z	P	5	BR	G	B	X	L	OPTIONS	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

The MPV has 3 mounting options:

1. DIN Rail Mount
2. Panel Mount
3. Manifold Mount (up to 12)

Section Reference

1	Type
1	Single Loop
2	Dual Loop

2	Mounting Type
D	DIN Rail (Ports on Face)
M	Manifold (Ports on Bottom)
P	Panel (Ports on Face)

3	Manifold Material
B	Brass (typical)
A	Anodized Aluminum

4	Thread Type
N	NPT
P	BSPP
H	Manifold Mount (no threads)

5	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
*Requires V for Monitor Signal (#6)	

6	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
*Requires E, I or K for Input Signal Range (#5)	
* ¹ Requires V for Input Signal Range (#5)	

7	Zero Offset
N	0% Pressure is Below Zero (Requires L Option #15)
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

9	Full Scale Pressure Type
N	100% Pressure is Below Zero (Requires L Option #15)
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

8	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#10 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#9) Blank	

10	Full Scale Pressure
Must be less than or equal to 150 psig	

12	Pressure Unit of Measure
A	Absolute Pressure (Requires L Option #15)
G	Gauge Pressure
D	Differential

11	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

PLEASE CONTACT FACTORY FOR VALVE & ORIFICE SELECTION

Inlet valve orifice size and the exhaust valve are factory determined based on the application's flow and pressure specs. Bleed orifice is required when the QPV is used in an application that is static (no flow). Dynamic applications (under flow) do not require a bleed orifice to function properly. Please consult our Application Engineering Department for your specific application needs. We are here to help you.

15	Bleed Orifice
N	No Bleed Orifice
L	Factory Standard Bleed Orifice (0.004")
2	Non-Standard Bleed Orifice (0.002")

13	Inlet Valve
A	0.013" (proportional valve)
B	0.025" (proportional valve)
C	0.040" (proportional valve)
D	0.060" (proportional valve)
E	0.089" (proportional valve)
N	No Inlet Valve*
X	0.040"* (digital valve)
*Vacuum Pressure Units Only	

14	Outlet Valve
A	0.013"* (proportional valve)
B	0.025"* (proportional valve)
C	0.040"* (proportional valve)
D	0.060"* (proportional valve)
E	0.089"* (proportional valve)
N	No Exhaust Valve
X	0.040"* (digital valve)
*Vacuum Pressure Units Only	

SPV

ACCURACY	±0.2% F.S.	PRESSURE	Full Vac to 150 PSIG (10 Bar)												
PORT SIZE	10-32 UNF	MAX FLOW	1 SCFM (28 SLPM)												
SPV	1	D	A	U	E	E	Z	P	9	BR	G	A	L	OPTIONS	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	

The SPV employs a single proportional valve designed for compact under flow applications

Example Part Number

Section Reference

1	Type
1	Single Loop
2	Dual Loop

2	Mounting Type
D	DIN Rail (Threaded Face)
M	Manifold (Ports on Bottom)

3	Manifold Material
A	Clear Anodized Aluminum

4	Thread Type
U	10-32 UNF
M	M5

5	Input Signal Range
E	0 to 10 VDC
K	0 to 5 VDC
V	1 to 5 VDC*
*Requires V for Monitor Signal (#6)	

6	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
*Requires E, I or K for Input Signal Range (#5)	
**Requires V for Input Signal Range (#5)	

7	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

8	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#10 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#8) Blank	

9	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

10	Full Scale Pressure
Must be less than or equal to 150 psig	

12	Pressure Unit of Measure
G	Gauge Pressure

11	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Centimeters H ₂ O	CW
MH	Millimeters Hg	Pascal	PA

PLEASE CONTACT FACTORY FOR VALVE & ORIFICE SELECTION

13	Inlet Valve
A	0.013"
B	0.025"
C	0.040"
D	0.060"
E	0.089"
N	No Inlet Valve*
X	0.040**
*Vacuum Pressure Units Only	

14	Bleed Orifice
N	No Bleed Orifice
L	Factory Standard Bleed Orifice (0.004")
2	Non-Standard Bleed Orifice (0.002")

Recommended Accessories	
H161569	Power Connector (Included with SPV)
DRMKT-SPV	DIN Rail Mounting Kit (Use option DR to add to part number)

QL3

Example Part Number

QL3	3	A	N	E	E	Z		P	125	PS	G	O2	
		1	2	3	4	5	6	7	8	9	10	OPTIONS	

Section Reference

1	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass (includes O2 cleaning)

2	Thread Type
N	NPT
P	BSPP

3	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
A	RS232 Serial Input* ¹
B	RS485 Serial Input* ¹
P	P2 Profiler (Integrated)
*Requires V for Monitor Signal (#4)	
*Requires X for Monitor Signal (#4)	

4	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking)
S	4 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#3)	
*Requires V for Input Signal Range (#3)	

5	Zero Offset
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

6	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#8 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#6) Blank	

7	Full Scale Pressure Type
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

8	Full Scale Pressure
Must be less than or equal to 125 psig	

09	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

10	Pressure Unit of Measure
G	Gauge Pressure

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-01	Wrap-Around Mounting Bracket
QBT5-03	Foot-Mount Bracket (Installed)*

* Use Option BR for Foot-Mount Bracket

MM

Example Part Number

MM	2	P	B	N	E	E	Z		P	7	BR	G	3D	TF
	1	2	3	4	5	6	7	8	9	10	11	12	OPTIONS	

Section Reference

1	Type
1	Single Loop
2	Dual Loop

3	Manifold Material
B	Brass (typical)
A	Anodized Aluminum

5	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC*
*Requires V for Monitor Signal (#6)	

2	Mounting Type
D	DIN Rail (Ports on Face)
M	Manifold (Ports on Bottom)
P	Panel (Ports on Face)

4	Thread Type
N	NPT
P	BSPP
H	Manifold Mount (no threads)

6	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking)
S	4 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#5)	
*Requires V for Input Signal Range (#5)	

7	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

8	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#8 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#10) Blank	

9	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

10	Full Scale Pressure
Must be less than or equal to 175 psig	

11	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

12	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure
D	Differential Pressure (Consult Factory)

Recommended Accessories

H14612	Power Connector (Included with MM)
DRKMT-01	DIN Rail Mounting Kit
PMK-MM	Panel Mounting Kit

GP	ACCURACY		±0.25% F.S.		PRESSURE		Full Vac to 1000 PSIG (69 Bar)						
	PORT SIZE		1/8"		MAX FLOW		10 SCFM (283 SLPM)						
Example Part Number													
GP	2	S	N	I	S	Z	P	69	BR	G	1	3D	TF
	1	2	3	4	5	6	7	8	9	10	11	12	OPTIONS

GX	ACCURACY		±0.25% F.S.		PRESSURE		Full Vac to 1000 PSIG (69 Bar)						
	PORT SIZE		1/8"		MAX FLOW		26 SCFM (736 SLPM)						
Example Part Number													
GX	1	A	N	I	S	Z	P	69	BR	G	3	3D	TF
	1	2	3	4	5	6	7	8	9	10	11	12	OPTIONS

Section Reference

1	Type	2	Manifold Material
1	Single Loop	B	Brass (standard)
2	Dual Loop	S	Stainless Steel

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range	5	Output Signal Range
E	0 to 10 VDC	X	No Monitor
I	4 to 20 mA DC	E	0 to 10 VDC
K	0 to 5 VDC	K	0 to 5 VDC*
V	1 to 5 VDC*	V	1 to 5 VDC* ¹
*Requires V for Monitor Signal (#5)		S	4 to 20 mA DC (Sourcing)
		*Requires E, I or K for Input Signal Range (#4)	
		*Requires V for Input Signal Range (#4)	

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
Must be less than or equal to 1,000 psig	

10	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

12	Valve Size
1	0.012"
2	1/32" (0.031")
3	3/64" (0.047")

Recommended Accessories	
H6DC6	Power Cable
BKT-02	Foot-mount Bracket

Section Reference

1	Type	2	Manifold Material
1	Single Loop	A	Nickel-Plated Aluminum
2	Dual Loop	B	Nickel-Plated Brass
		S	Stainless Steel

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range	5	Output Signal Range
E	0 to 10 VDC	X	No Monitor
I	4 to 20 mA DC	E	0 to 10 VDC
K	0 to 5 VDC	K	0 to 5 VDC*
V	1 to 5 VDC*	V	1 to 5 VDC* ¹
*Requires V for Monitor Signal (#5)		S	4 to 20 mA DC (Sourcing)
		*Requires E, I or K for Input Signal Range (#4)	
		*Requires V for Input Signal Range (#4)	

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
Must be less than or equal to 1,000 psig	

10	Pressure Unit (no additional fee - all)		
PS	PSI	Inches Hg	IH
MB	Millibars	Inches H ₂ O	IW
BR	Bar	Millimeters H ₂ O	MW
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11)	TR
MH	Millimeters Hg	Centimeters H ₂ O	CW
PA	Pascal		

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

12	Valve Size
1	0.012"
2	0.025"
3	0.040"

Recommended Accessories	
H6M1206	6' - M12 Power/Command/Monitor Cable
H6DC6	6' Mini Power/Command/Monitor Cable
BKT-02	Wrap-around Bracket

ISF & ISQB

ACCURACY		±0.5% F.S.		PRESSURE		Full Vac to 150 PSIG (10 Bar)	
PORT SIZE		1/8"		MAX FLOW		1.2 SCFM (34 SLPM)	
Example Part Number							
ISF1	T	B	N	I	X	Z	
1		2	3	4	5	6	7 8 9 10 11
							OPTIONS

Section Reference

1	Series	2	Manifold Material
ISF1	Nonincindive ISF1	B	Brass
ISQB1	Intrinsically Safe ISQB1	A	Anodized Aluminum

3	Thread Type
N	NPT
P	BSPP (Brass Manifold Only)

4	Input Signal Range	5	Output Signal Range
I	4 to 20 mADC	X	No Monitor

6	Zero Offset
N	0% Pressure is Below Zero
P	0% Pressure is Above Zero
Z	0% Pressure is Zero (Typical)

7	Zero Offset Pressure
Typical is 0* - If greater than 30% of full scale pressure (#9 below), please consult factory.	
*If Z for Zero Offset, Please Leave this Section (#7) Blank	

8	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

9	Full Scale Pressure
Must be less than or equal to 150 psig	

10	Pressure Unit (no additional fee - all)	
PS	PSI	Inches Hg IH
MB	Millibars	Inches H ₂ O IW
BR	Bar	Millimeters H ₂ O MW
KP	Kilo-pascal	Kilograms/cm ² KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11) TR
MH	Millimeters Hg	Centimeters H ₂ O CW
PA	Pascal	

11	Pressure Unit of Measure
A	Absolute Pressure
G	Gauge Pressure

Mandatory Power Requirement Option - ISF ONLY

P1	12V Power
P2	15-24 V Power

PLEASE NOTE: The user has the additional responsibility of supplying and or ensuring that the connector/cable that is used with any Proportion-Air ISQB or ISF1 series FM approved product, meets all local and national codes for intrinsically safe wiring.

Recommended Accessories

QBT-01	Wrap-Around Mounting Bracket
QBT-02	Foot-Mount Bracket (Installed)*

* Use Option BR for Foot-Mount Bracket

DS

ACCURACY		±0.2% F.S.		PRESSURE		Full Vac to 7500 PSIG (483 Bar)	
PORT SIZE		1/8" & 1/4"		PRESSURE TRANSDUCERS			
Example Part Number							
DS	T	E	W00	Z	P	10	BR
	1	2	3	4	5	6	7 8 9 10
							OPTIONS

Section Reference

1	Type	2	Signal Type
B	Standard (up to 175 psig)	E	0 to 10 VDC
L	Compact (up to 30 psig)	I	4 to 20 mADC
T	Stainless Steel (up to 7500 psig)	K	0 to 5 VDC
W	Watertight (up to 175 psig)	V	1 to 5 VDC
		Z	1.9 to 9.5 VDC

3	Electrical Connection		
W00	Receptacle on Can, 3-pin Male	20 Foot, Cable with Flying Leads	X20
F00	18 Inch, 3-pin Female RF	25' Foot, Cable with Flying Leads	X25
F03	3 Foot, 3-pin Female RF	18 Inch, 3-pin Female	Y00
F06	6 Foot, 3-pin Female RF	3 Foot, 3-pin Female	Y03
F12	12 Foot, 3-pin Female RF	6 Foot, 3-pin Female	Y06
X00	18 Inch, Cable with Flying Leads	12 Foot, 3-Pin Female	Y12
X03	3 Foot, Cable with Flying Leads	20 Foot, 3-Pin Female	Y20
X06	6 Foot, Cable with Flying Leads	25 Foot, 3-pin Female	Y25
X12	12" Foot, Cable with Flying Leads		

4	Zero Offset	5	Zero Offset Pressure
N	0% Pressure is Below Zero	Typical is 0* - If greater than 30% of full scale pressure (#8 below), please consult factory.	
P	0% Pressure is Above Zero	*If Z for Zero Offset, Please Leave this Section (#6) Blank	
Z	0% Pressure is Zero (Typical)		

6	Full Scale Pressure Type
N	100% Pressure is Below Zero
P	100% Pressure is Above Zero
Z	100% Pressure is Zero

7	Full Scale Pressure
Must be less than or equal to 7,500 psig	

08	Pressure Unit (no additional fee - all)	
PS	PSI	Inches Hg IH
MB	Millibars	Inches H ₂ O IW
BR	Bar	Millimeters H ₂ O MW
KP	Kilo-pascal	Kilograms/cm ² KG
MP	Mega-pascal	Torr (Requires A for Unit of Measure #11) TR
MH	Millimeters Hg	Centimeters H ₂ O CW
PA	Pascal	

9	Pressure Unit of Measure
A	Absolute Pressure (Not Available with DST)
G	Gauge Pressure

10	Pneumatic Connection (Type = Section #1)	
A	1/4" NPT Male	Type B, T, W Only
B	1/8" NPT Male	Type B, T, W Only
C	1/4" BSPP Female	Type T Only
D	1/8" NPT Female	Type T Only
E	1/4" BSPT Male	Type B, W Only
F	1/8" BSPT Male	Type T Only
G	10-32 UNF Female	Type L Only

FLOW CONTROL

F-Series

Example Part Number

F	P	4	N	A	E	N	75	A	90	PS	A	A	DD	OPTIONS
	1	2	3	4	5	6	7	8	9	10	11	12		

Section Reference

1	Type	2	Port Size
A	Atmospheric Pressure	2	1/4"
P	Pressure Compensated	3	3/8"
R	Regulated Pressure	4	1/2"
3 Thread Type		6	3/4"
N	NPT	8	1"
P	BSPP	A	1-1/4"
		B	1-1/2"

4	Manifold Material
A	Aluminum (Anodized Black)
B	Brass (Port size 2 & 3 only)

5	Output Signal Range
E	1 to 10 VDC
K	0.5 to 5 VDC
C	5.6 to 20 mADC (Sinking)
S	5.6 to 20 mADC (Sourcing)

6	Media (no additional cost - all)		
A	Air	Carbon Dioxide (CO2)	C
R	Argon (Ar)	Helium (He)	H
L	Nitrous Oxide* (N2O)	Oxygen* (O2)	O
N	Nitrogen (N2)		

* Please Consult Factory for Application Assistance

7	Maximum Flow
Maximum Flow Based on 10:1 Turn-down. MIN: 2-20 SCFH, MAX: 25-250 SCFM	

8	Unit of Measure	9	Maximum Pressure		
A	SCFM	Must be less than or equal to 150 psig			
B	SCFH	10	Pressure Unit		
C	SLPM	PS	PSI	MPa	MP
D	SLPH	KP	kPa	kg/cm ²	KG
E	SCMH	BR	Bar		

11	Pressure Unit of Measure
A	Absolute Pressure (Pressure Compensated Model Only)
G	Gauge Pressure (Atmospheric & Regulated Models Only)

12	Electrical Connection
A	3' Cord with 3-pin Female*
C	18" Flying Leads
D	3-pin Male Connector
E	6-pin Hirschmann Connector
G	6' Shielded Cord with 3-pin Female
H	4-pin Hirschmann Connector

*A shorter cable will be used when F-Series used in flow control assembly

FCV

PORT SIZE 1" NPT PRESSURE 0 to 250 psig (17 bar)

LIQUID & GAS FLOW CONTROL VALVE

Example Part Number

FCV	8	E	E	SS	NO	OC	OPTIONS
	1	2	3	4	5		

Section Reference

1	Port Size	3	Output Signal Range
8	1" NPT	X	No Monitor
2	Input Signal Range	E	0 to 10 VDC
E	0 to 10 VDC	K	0 to 5 VDC*
I	4 to 20 mADC	V	1 to 5 VDC* ¹
K	0 to 5 VDC	S	4 to 20 mADC (Sourcing)
V	1 to 5 VDC*	C	4 to 20 mADC (Sinking)
*Requires V for Monitor Signal (#3)		*Requires E, I or K for Input Signal Range (#2)	
		*Requires V for Input Signal Range (#2)	

4	Body Material
SS	Stainless Steel with Full 1" Seat
S6	Stainless Steel with 3/4" Seat

5	Type
NO	Normally Open, Non-Venting
NVO	Normally Open, Venting
NC	Normally Closed, Non-Venting
NVC	Normally Closed, Venting

Options	
OC	Offset for Positive Shut-off

Recommended Accessories	
BKT-01	Wrap-Around Mounting Bracket
H6DC6	6' Power Cable
H6DC12	12' Power Cable
H6DC15	15' Power Cable

FQB2

Example Part Number

ACCURACY		±1 to 4% F.S.			PRESSURE		Up to 150 psig (10 Bar)		
PORT SIZE		1/8"			FLOW CONTROL REGULATOR				
FQB2	X	A	N	E	E	90	PS	G	OPTIONS
1	2	3	4	5	6	7	8		

Section Reference

1	Type
X	QBX Model without side fittings*
*Legacy model FQB2 used T for Type	

2	Manifold Material
A	Anodized Aluminum
B	Brass*
*Includes O2 Cleaning	

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	0 to 10 VDC
I	4 to 20 mA DC
K	0 to 5 VDC
V	1 to 5 VDC (Requires V for Monitor Signal #5)
N	Ethernet/Proportion-Air (Requires X for Monitor Signal #5)
M	Ethernet/MODBUS TCP (Requires X for Monitor Signal #5)
A	RS232 Serial Input (Requires X for Monitor Signal #5)
B	RS485 Serial Input (Requires X for Monitor Signal #5)
P	P2 Profiler (Integrated)

5	Output Signal Range
X	No Monitor
E	0 to 10 VDC
K	0 to 5 VDC*
V	1 to 5 VDC* ¹
C	4 to 20 mA DC (Sinking)
S	4 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7	Pressure Unit		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

Recommended Accessories	
QBT-C-6	6 ft. Power/Command/Monitor Cable

FQB3

Example Part Number

ACCURACY		±1 to 4% F.S.			PRESSURE		Up to 150 psig (10 Bar)		
PORT SIZE		1/4"			FLOW CONTROL REGULATOR				
FQB3	T	A	N	E	E	90	PS	G	OPTIONS
1	2	3	4	5	6	7	8		

Section Reference

1	Type
T	-14.7 to 150 psig

2	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass (Includes O2 Cleaning)

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	1 to 10 VDC
I	5.6 to 20 mA DC
K	0.5 to 5 VDC
A	RS232 Serial Input*
B	RS485 Serial Input*
P	P2 Profiler (Integrated)
*Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	1 to 10 VDC
K	0.5 to 5 VDC*
C	5.6 to 20 mA DC (Sinking)
S	5.6 to 20 mA DC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7a	Pressure Unit (no additional fee - all)		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

Recommended Accessories	
QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-03	Foot-Mount Bracket (Use Option BR to have Installed)

FQB4

Example Part Number

ACCURACY		±1 to 4% F.S.		PRESSURE		Up to 150 psig (10 Bar)			
PORT SIZE		1/2"		FLOW CONTROL REGULATOR					
FQB4	T	A	N	E	E	90	PS	G	OPTIONS
	1	2	3	4	5	6	7	8	

Section Reference

1	Type
T	-14.7 to 150 psig

2	Manifold Material
A	Aluminum
B	Nickel-Plated Brass*
*Includes O2 Cleaning	

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	1 to 10 VDC
I	5.6 to 20 mADC
K	0.5 to 5 VDC
A	RS232 Serial Input*
B	RS485 Serial Input*
P	P2 Profiler (Integrated)
*Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	1 to 10 VDC
K	0.5 to 5 VDC*
C	5.6 to 20 mADC (Sinking)
S	5.6 to 20 mADC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
*Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7a	Pressure Unit (no additional fee - all)		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

FQPV2

Example Part Number

ACCURACY		±1 to 4% F.S.		PRESSURE		Up to 150 psig (10 Bar)					
PORT SIZE		1/8"		FLOW CONTROL REGULATOR							
FQPV2	T	A	N	E	E	9	BR	G	A	X	OPTIONS
	1	2	3	4	5	6	7	8	9	10	

Section Reference

1	Type
T	-14.7 to 150 psig

2	Manifold Material
A	Aluminum
B	Brass

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	1 to 10 VDC
I	5.6 to 20 mADC
K	0.5 to 5 VDC
A	RS232 Serial Input*
B	RS485 Serial Input*
P	P2 Profiler (Integrated)
*Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	1 to 10 VDC
K	0.5 to 5 VDC*
C	5.6 to 20 mADC (Sinking)
S	5.6 to 20 mADC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
*Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7a	Pressure Unit (no additional fee - all)		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

9	Inlet Valve
A	0.013"
B	0.025"
C	0.040"
D	0.060"
E	0.089"

10	Outlet Valve
N	No Exhaust Valve
X	0.040" (Typical)

PLEASE CONTACT FACTORY FOR VALVE & ORIFICE SELECTION

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
BKT-04K	Foot-Mount Bracket (Use Option BR to have installed)

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
----------------	-----------------------------------

FQB3H

Example Part Number

ACCURACY	±1 to 4% F.S.	PRESSURE	Up to 150 psig (10 Bar)
PORT SIZE	3/8"	FLOW CONTROL REGULATOR	
FQB3H	T	A	N
	1	2	3
	4	5	6
	7	8	OPTIONS

Section Reference

1	Type
T	FQB3H

2	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass (Includes O2 Cleaning)

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	1 to 10 VDC
I	5.6 to 20 mADC
K	0.5 to 5 VDC
P	P2 Profiler (Integrated)

5	Output Signal Range
X	No Monitor
E	1 to 10 VDC
K	0.5 to 5 VDC*
C	5.6 to 20 mADC (Sinking)
S	5.6 to 20 mADC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7a	Pressure Unit (no additional fee - all)		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

FQL3

Example Part Number

ACCURACY	±1 to 4% F.S.	PRESSURE	Up to 150 psig (10 Bar)
PORT SIZE	1/4"	FLOW CONTROL REGULATOR	
FQL3	T	A	N
	1	2	3
	4	5	6
	7	8	OPTIONS

Section Reference

1	Type
T	-14.7 to 150 psig

2	Manifold Material
A	Nickel-Plated Aluminum
B	Nickel-Plated Brass (Includes O2 Cleaning)

3	Thread Type
N	NPT
P	BSPP

4	Input Signal Range
E	1 to 10 VDC
I	5.6 to 20 mADC
K	0.5 to 5 VDC
A	RS232 Serial Input*
B	RS485 Serial Input*
P	P2 Profiler (Integrated)
*Requires X for Monitor Signal (#5)	

5	Output Signal Range
X	No Monitor
E	1 to 10 VDC
K	0.5 to 5 VDC*
C	5.6 to 20 mADC (Sinking)
S	5.6 to 20 mADC (Sourcing)
*Requires E, I or K for Input Signal Range (#4)	
**Requires V for Input Signal Range (#4)	

6	Full Scale Pressure
Must be less than or equal to 150 psig	

7a	Pressure Unit (no additional fee - all)		
PS	PSI	Bar	BR
KP	Kilo-pascal	Kilograms/cm ²	KG
MP	Mega-pascal		

8	Pressure Unit of Measure
G	Gauge Pressure

Please remember to configure the F-Series flow monitor when building a flow control assembly (pg. 12)

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT-03HKIT	Foot-Mount Bracket (Use Option BR to Have Installed)

Recommended Accessories

QBT-C-6	6 ft. Power/Command/Monitor Cable
QBT5-03	Foot-Mount Bracket (Use option BR to have Installed)

VOLUME BOOSTERS

R-Series

Example Part Number		PRESSURE RANGE	0 to 250 psig (17.2 bar)	
		MAX FLOW	2000 SCFM (943 LPS)	
R000	B	N	NR	BR
	1	2	OPTIONS	
		MAX RELIEF FLOW	200 SCFM (94 lit/sec)	
		PORT SIZE	1-1/2" & 2"	

Section Reference

1	Port Size	2	Thread Type
B	1-1/2"	N	NPT
C	2"	P	BSPP

Options

NR	Non-Relieving
LS	Light-Spring Installed
BR	Bracket Installed (<i>BKT-07 if ordered separate</i>)
QR	Quick Response

Repair Kits

H5890-01	Complete Kit
H5945-61	Diaphragm
H5893-50	Main Valve Assembly
H5945-40	Elastomer Kit

RM-Series

Example Part Number		PRESSURE RANGE	0 to 300 psig (20.7 bar)	
		MAX FLOW	550 SCFM (260 LPS)	
RM00	3	N	LS	BR
	1	2	OPTIONS	
		MAX RELIEF FLOW	200 SCFM (94 lit/sec)	
		PORT SIZE	1/4" to 1-1/4"	

Section Reference

1	Port Size
2	1/4"
3	3/8"
4	1/2"
6	3/4"
8	1"
A	1-1/4"

2	Thread Type
N	NPT
P	BSPP

Options

NR	Non-Relieving
LS	Light-Spring Installed
BR	Bracket Installed (<i>BKT-05, ports 2, 3, 4</i>) (<i>BKT-06, ports 6, 8, A</i>)
QR	Quick Response
O2	Oxygen Cleaned (<i>Port sizes 2, 3 & 4 only</i>)
O3	Oxygen Cleaned for Non-Oxygen use (<i>Port sizes 2, 3 & 4 only</i>)

Repair Kits

RMH4158-01	Complete Kit - RM002, 3, 4
RMH4158-02	Complete Kit - RM006, 8, A
RMH2250-50	Main Valve - RM002, 3, 4
RMH2264-50	Main Valve - RM006, 8, A
RMH387453	Diaphragm, All Sizes
RMH4158-03	Elastomer Kit - RM002, 3, 4
RMH4158-04	Elastomer Kit - RM006, 8, A

RMV-Series

Example Part Number		PRESSURE RANGE	0 to 29.9"hg	
		MAX FLOW	45 SCFM (21 Lit/sec)	
RMV	4	N	QR	BR
	1	2	OPTIONS	
		PORT SIZE	1/4" to 1-1/4"	

Section Reference

1	Port Size	2	Thread Type
2	1/4"	N	NPT
3	3/8"	P	BSPP
4	1/2"		
6	3/4"		
8	1"		
A	1-1/4"		

Options

BR	Bracket Installed (<i>BKT-05, ports 2, 3, 4</i>) (<i>BKT-06, ports 6, 8, A</i>)
QR	Quick Response
O2	Oxygen Cleaned (<i>Port sizes 2, 3 & 4 only</i>)
O3	Oxygen Cleaned for Non-Oxygen use (<i>Port sizes 2, 3 & 4 only</i>)

Repair Kits

RMH4158-01	Complete Kit - RM002, 3, 4
RMH4158-02	Complete Kit - RM006, 8, A
RMH2250-50	Main Valve - RM002, 3, 4
RMH2264-50	Main Valve - RM006, 8, A
RMH387453	Diaphragm, All Sizes
RMH4158-03	Elastomer Kit - RM002, 3, 4
RMH4158-04	Elastomer Kit - RM006, 8, A

RG271

Example Part Number		PRESSURE RANGE	0 to 150 PSIG (10 bar)	
		MAX FLOW	45 SCFM (21 Lit/sec)	
RG271	6	N	O2	NR
	1	2	OPTIONS	
		MAX RELIEF FLOW	11 SCFM (5 lit/sec)	
		PORT SIZE	1/4" to 3/8"	

Section Reference

1	Port Size
2	1/4"
3	3/8"

2	Thread Type
N	NPT
P	BSPP

Options

O2	O2 Cleaned (<i>Port sizes 2, 3 & 4 only</i>)
O3	O2 Cleaned for Non-Oxygen use (<i>Port sizes 2, 3 & 4 only</i>)
NR	Non-Relieving (<i>Port size 2 only</i>)
TE	Threaded Exhaust (<i>Port size 2 only</i>)

RG1262

Example Part Number		PRESSURE RANGE	0 to 6,000 PSIG (414 bar)	
		Cv	0.05	
RG1262	-1500	PORT SIZE	1/4" to 3/8"	
	1	RATIO REGULATOR		

Section Reference

1	Ratio (dome pressure to output pressure)
-1500	15:1
<Blank>	45:1

RG710

		PRESSURE RANGE		0 to 250 PSIG (17 bar)	
<i>Example Part Number</i>		MAX FLOW		50 SCFM (24 Lit/sec)	
RG710	3	N	O2	PORT SIZE	3/8" & 1/2"
	1	2	OPTIONS	BACK PRESSURE REGULATOR	

Section Reference

1	Port Size
3	3/8"
4	1/2"
2	Thread Type
N	NPT
Options	
O2	Oxygen Cleaned (Port sizes 2, 3 & 4 only)
O3	Oxygen Cleaned for Non-Oxygen use (Port sizes 2, 3 & 4 only)

RG873V

		PRESSURE RANGE		0 to 6,000 PSIG (414 bar)	
<i>Example Part Number</i>		MAX FLOW		150 SCFM (71 Lit/sec)	
RG873V	4	N		PORT SIZE	1/4" Inlet, 1/2" Outlet
	1	2		RELIEVING CAPABILITY	

Section Reference

1	Port Size
4	1/2"
2	Thread Type
N	NPT
Repair Kits	
H979-DV1	Complete Kit

RG2112

		PRESSURE RANGE		0 to 150 PSIG (10 bar)	
<i>Example Part Number</i>		MAX FLOW		830 SCFM (392 Lit/sec)	
RG2112	8	N		MAX RELIEF FLOW	65 SCFM (31 lit/sec)
	1	2		PORT SIZE	1" & 1-1/4"

Section Reference

1	Port Size
8	1"
B	1-1/4"
2	Thread Type
N	NPT

DIGITAL PANEL METER

PM

<i>Example Part Number</i>	PM	4	90	E	
<i>Section Reference</i>		1	2	3	4

1	Type
1	3.5 Digit LED
3	3.5 Digit LCD
4	4.5 Digit LED
2	Output Range
Type #3, Equal or Less than 1999 Type #4, Equal or Less than 19999	
3	Input Signal Range
E	0-10 VDC
I	4-20 mADC
4	Options
P2	24 VDC Power Supply (PM-1 Only) - Standard is 15VDC

PSR

		PRESSURE RANGE		0 to 200 PSIG (14 bar)	
<i>Example Part Number</i>		MAX FLOW		700 SCFM (330 Lit/sec)	
PSR	4	P	N	NR	EV
	1	2	3	OPTIONS	MAX RELIEF FLOW 12 SCFM (5.6 Lit/sec)
				PORT SIZE	1/4" to 1-1/2"

Section Reference

1	Port Size	2	Paint Option
M	1/8"	P	Painted Black
2	1/4"	U	Unpainted (Ports 2, 3, 4, 6, & 8 only)
3	3/8"	3	Thread Type
4	1/2"	N	NPT
6	3/4"	P	BSPP
8	1"		
A	1-1/4"		
B	1-1/2"		

Options

NR	Non-Relieving
O2	Oxygen Cleaned (Port sizes 2, 3 & 4 and Unpainted only)
O3	Oxygen Cleaned for Non-Oxygen use (Port sizes 2, 3 & 4 and Unpainted only)
PT	Pitot Tube Installed (Port sizes 2, 3 & 4 only)
PL	Large Pitot Tube Installed (for PSR Port sizes 2, 3 & 4 with FQB2 series only)
EV	Viton Elastomers (Port sizes 2, 3 & 4 only)

Repair Kits

HA35-10BR	Valve Assembly PSR2, 3, 4
HA37-237RM	Diaphragm PSR2, 3, 4
HA37-198BM	Valve Assembly PSR6, 8, A
HA37-237R	Diaphragm PSR6, 8 A

All dome-loaded pilot-operated regulators can be used in conjunction with most of our electro-pneumatic pressure regulators. For the greatest accuracy, add a DS pressure transducer as 2nd loop feedback to the controller. These components will be assembled, calibrated and tested prior to shipping. This is an additional cost of \$40-\$60 and the price is built into the ASSM part number. Contact us for more information.

ULTRA-SONIC TENSION CONTROL

UTC

<i>Example Part Number</i>	UTC	14	90		
<i>Section Reference</i>		1	2	3	

1	Type
1	Single Sensor
PLEASE CONTACT FACTORY FOR ALL UTC APPLICATIONS	
2	Full Scale Pressure
Must be less than or equal to 150.3 psig	
3	Options
P3	230 VAC Power Supply
Q3	QB3 Series Regulator
WB	Without Box
WR	Without Regulator (-410 for QBX model & -510 for QB3 model)

OPTIONS

	<small>*Tire Uniformity Optimizer Mod *3/4" In and Out Ports 3-pin DS Connector *Non-Std Connector, 3-pin Mini RF *Non-Std Connector, 3-pin Mini *Non-Std Connector, 4-pin Micro *NON-Std Connector, 5-pin M12 *Non-Std Connector, 5-pin Mini *Non-Std Connector, 5-pin Terminal Blk *Non-Std Connector, 5-pin Micro *Non-Std Connector, 6-pin Micro RF *Non-Std Connector, 6-pin Micro *Non-Std Connector, 7-pin M16 Install Foot Bracket *4-20 mA/DC 2nd Loop Input *Conformal Coated PCB Digital Display Differential Voltage *Fail to Atmosphere Fail to Line Pressure High Flow Exhaust Valve High Flow Inlet Valve (up to 3.5 scfm) High Flow Inlet and Exhaust Valve *Mod for Low Hysteresis Regulator Install DIN Rail Mounting Kit Rotate Connector 90 Degrees</small>																										
	20	34	3D	3F	3M	4U	5A	5M	5T	5U	6R	6U	7A	BR	C2	CC	DD	DV	FA	FL	HE	HI	HQ	LH	DR	R9	
QBT	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
QBS			•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•				
QBX	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
QB3				•	•	•	•	•	•	•	•	•	•	•		•	•		•	•							
QB3H						•		•		•	•	•	•	•		•											
QB4		•		•	•	•	•	•		•	•	•	•	•		•	•		•	•							
QL3													•	•		•	•	•	•								
QPV	•		•		•	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•					
MPV													•	•		•		•	•		•				•	•	
SPV																•									•	•	
MM																•		•	•		•	•	•		•	•	
GP																											
GX														•		•											
ISF														•													
ISQB														•													
DS																•											
FSERIES														•		•	•										
FQB2					•	•		•	•	•	•	•	•		•	•	•	•	•	•	•						
FQB3														•	•	•	•			•	•						
FQB4		•			•	•		•	•	•	•	•	•	•	•	•	•		•	•							
FQPV2															•	•	•	•									
FQB3H														•		•											
FQL3																•	•	•	•								

LEGEND

- -Option is available.
- 3D** -Code to call-out the option in the part number. Always at the end of the part number
- Option is not available for this model
- * -Please consult factory for application assistance

OPTIONS

	<small>*Use High Resolution PCB *High Impedance Input *Use MOD4 PCB *Use MOD5 PCB No Mating Connector with Unit *No Internal Pressure Transducer *Oxygen Cleaned *O2 Clean for Non-Oxygen Use 12 VDC Power Rotate Connector 180 Degrees *Ratio Regulator Modifications *2nd Loop Impedance Mod *Test Under Flow TTL Signal with LEDs TTL Signal *Valve Disable *100 psig Inlet *150 psig Inlet *300 psig Inlet *500 psig Inlet *100 psig Exhaust *150 psig Exhaust *300 psig Exhaust *500 psig Exhaust Bottom Mount 1/4" Male Fitting *Single-Ended Input</small>																														
HR	II	M4	M5	NC	NS	O2	O3	P1	R1	RR	SI	TF	TL	TT	VD	V1	V2	V3	V5	X1	X2	X3	X5	BF	SE						
		•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•			•	QBT					
				•		•*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QBS				
	•	•	•	•	•	•*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QBX				
	•			•	•	•*	•	•	•			•		•		•	•									•	QB3				
	•			•		•*	•	•	•			•				•	•	•	•							•	QB3H				
	•			•	•	•*	•	•	•			•				•	•									•	QB4				
				•		•*	•	•	•							•	•										•	QL3			
	•			•	•	•	•	•	•		•				•	•	•							•	•	•	•	QPV			
	•			•	•	•	•	•								•	•											•	MPV		
				•				•								•	•											•	SPV		
	•			•		•	•	•								•	•	•	•	•	•	•	•					•	MM		
						•	•					•																•	GP		
•						•	•					•																	•	GX	
						•	•	•	•																				•	ISF	
						•	•		•																				•	ISQB	
						•	•	•																					•	DS	
				•		•	•	•	•																					•	FSERIES
	•			•		•	•	•	•																				•	FQB2	
	•			•		•*	•	•	•																			•	FQB3		
	•			•		•*	•	•	•																			•	FQB4		
	•			•	•	•	•	•	•																					•	FQPV2
	•			•		•*	•	•	•																			•	FQB3H		
	•			•		•*	•	•	•																					•	FQL3
HR	II	M4	M5	NC	NS	O2	O3	P1	R1	RR	SI	TF	TL	TT	VD	V1	V2	V3	V5	X1	X2	X3	X5	BF	SE						

**O2 Cleaning included with Brass Manifold Option*

**MANY OTHER OPTIONS & CONFIGURATIONS ARE POSSIBLE.
PLEASE CONTACT OUR FACTORY FOR APPLICATION ASSISTANCE.**

ACCESSORIES & AUXILIARY PRODUCTS

IN-LINE FILTERS	
FPP-1	1/8" (40 Micron, Max Out: 1,000 psig, 10 scfm)
FPP-2	1/4" (100 Micron, Max Out: 350 psig, 32 scfm)
FPP-3	3/8" (100 Micron, Max Out: 350 psig, 65 scfm)
FPP-4	1/2" (100 Micron, Max Out: 350 psig, 80 scfm)

POWER SUPPLIES	
PS300	Volt, 300 mA
PS4515	Switching, 15 VDC Output
PS4524	Switching, 24 VDC Output

SELECT SIX SERIES	
SPCA (V, W or Y)	24V PS (12V, 24V or 110 VAC)
SPCB (V, W or Y)	110 VAC PS (12V, 24V or 110 VAC)
SPCC (V, W or Y)	240 VAC PS (12V, 24V or 110 VAC)

POTENTIOMETERS	
DC2	1 Turn, 50K POT
DC2C	1 Turn, 4-20 mA Output
DC2-10T	10 Turn, 200K POT with OP AMP
DC2-10TC	10 Turn, 4-20 mA Output
DC2-10TI	10 Turn, 50K POT
DC2-10TIC	10 Turn, 50K with 4-20mA Out
DC2-10TIC-KIT	10 Turn, 50K with 4-20mA Out - without box
DC2-10TI-KIT	10 Turn, 50K POT - without box
DC2-10T-KIT	10 Turn, 200K POT with OP AMP - without box

REPAIR KITS	
QB3-REPAIRKIT	QB3 - All Components
QB3-RK-PISTON	QB3 - Piston Assembly
QB3-RD-PEDESTAL	QB3 - Pedestal Assembly
QB3-RK-INLET	QB3 - Inlet Valve Assembly
QB3H-REPAIRKIT	QB3H - All Components
V52PAK	GP - Valve Types 2 and 3
V53PAK	GP - Valve Type 1

P2 PROFILER (Mini PLC and Pressure Profile Manager)

Call us to learn more about the P2 PROFILER. It can be integrated into most units or purchased as a stand-alone device

Event and Profile programming can also be purchased from Proportion-Air

MOUNTING KITS		
OPTION DESIGNATOR	PART NUMBER	PRODUCT
DR	DRMKT-01	MPV, MM
	PMK-MM	MPV, MM
DR	DRMKT-SPV	SPV

POWER CONNECTOR CABLES		
OPTION DESIGNATOR	PART NUMBER	CABLE LENGTH
Standard	QBT-C-1	1 Foot
Standard	QBT-C-3	3 Feet
Standard	QBT-C-6	6 Feet
Standard	QBT-C-12	12 Feet
Standard	QBT-C-15	15 Feet
Standard	QBT-C-20	20 Feet
Standard	H615	Connector Only
Standard (SPV)	H161569	Connector Only
Standard (MM)	H14612	Connector Only
3M	H6033	3 Feet
3M	H6036	6 Feet
3M	H6312	12 Feet
3M	H6315	15 Feet
3M	H6320	20 Feet
4U	H6045	3 Feet
4U	H6046	6 Feet
4U	H60412	12 Feet
5U	H6053	3 Feet
5U	H6056	6 Feet
5U	H60512	12 Feet
5M	H6053	3 Feet
5M	H6056	6 Feet
5M	H6512	12 Feet
5M	H6515	15 Feet
5M	H6520	20 Feet
6R	H26066	6 Feet
6R	H260612	12 Feet
6U	H6066	6 Feet
Std/6M	H6DC6	6 Feet
Std/6M	H6DC12	12 Feet
Standard (GX)	H6M1206	6 Feet
Ethernet Power Cable	H8FP-C-5	5 Meters
Ethernet Communication	HRJ-C-5	5 Meters

MATING CONNECTORS		
OPTION DESIGNATOR	PART NUMBER	CABLE LENGTH
3D	H23	3 Feet
3D	H24	6 Feet
3D	H231	12 Feet
3D	H251	20 Feet
	H14612	Connector Only
	H161569	Connector Only

PROPORTIONAIR

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McCordsville, Indiana 46055

info@proportionair.com

Handcrafted in the USA
ISO 9001-2008 Certified



Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred.

THE WARRANTY IS GIVEN IN-LIEU OF, AND BUYER HERBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGATION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIPTION AND FITNESS FOR A PARTICULAR PURPOSE.

WARNING: Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of death or injury.