

AIR PREPARATION PRESSURE REGULATORS



ROSS CONTROLS

PRESSURE REGULATORS - KEY FEATURES

- Two design options available: Piston design for highest air flow Diaphragm design for high sensitivity and quick response
- Modular or In-line Mounting options
- Pressure Gauge included
- Removable Adjusting Knob for tamper resistance
- Self-relieving or non-relieving options
- Reverse Flow option available on some regulator models
- T-Handle option available on some regulator models

			AVA	AILA	BLE	POR	T SI	ZES			MOUN	NTING	FLOW	CONSTR	RUCTION		OF	PTIO	NS		
REGULATOR TYPE/SERIES	1/8	1/4	3/8	1/2	3/4	1	11/4	1½	2	3	IN-LINE	MODULAR	MAX FLOW (scfm)	PISTON	DIAPHRAGM	SELF RELIEVING	NON RELIEVING	REVERSE FLOW	T-HANDLE	LOCKING KNOB	Page
STANDARD REGU	STANDARD REGULATORS																				
RIGHT-ANGLE													55								G2.3
BANTAM													23								G2.4
MINIATURE													40								G2.5
MID-SIZE													100								G2.6
MD3™													120								G2.7
FULL-SIZE													155								G2.8
MD4™													220								G2.9
HIGH-CAPACITY													800								G2.10
HIGH-PRESSURE	REG	ULA [.]	TOR	s																	
HIGH-PRESSURE													70								G2.11
PRECISION REGU	LATO	ORS																			
MINIATURE													4								G2.12
FULL-SIZE													155								G2.13
MD4™													170								G2.14
HIGH-CAPACITY													800								G2.15
REMOTE PILOT RE	EGUL	LATC	RS																		
FULL-SIZE													155								G2.16 - G2.18
MD4™													190								G2.19
HIGH-CAPACITY													4000								G2.20 - G2.23
RELIEF VALVES																					
MINIATURE													40								G2.24
HIGH-FLOW													450								G2.25
PROPORTIONAL V	ALV	ES																			
RER Series													1000								G2.26
RB-RER Series													4000								G2.27

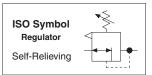


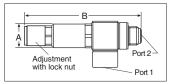


Port Sizes: 1/8, 1/4, 3/8 & 1/2 - Flow to 55 scfm

	Models with Threaded Banjo										
Port Size		Port	Model	Dime: inches	Tightening Torque						
Port 1 (female threads)	Port 2 (male threads)	Threads	Number	А	В	Max. Ft-lb (Nm)					
1/8	1/8	NPT	5214A1010	0.7 (17)	2.9 (74)	7.38 (10)					
1/4	1/4	NPT	5214A2010	0.7 (17)	3.2 (81)	8.85 (12)					
3/8	3/8	NPT	5214A3010	0.9 (22)	3.5 (88)	14.75 (20)					
1/2	1/2	NPT	5214A4010	1.1 (27)	3.5 (89)	22.13 (30)					
1/8	1/8	G	D5214A1010	0.7 (17)	2.9 (74)	11.06 (15)					
1/4	1/4	G	D5214A2010	0.7 (17)	3.2 (81)	14.75 (20)					
3/8	3/8	G	D5214A3010	0.9 (22)	3.5 (88)	22.13 (20)					
1/2	1/2	G	D5214A4010	1.1 (27)	3.5 (89)	22.50 (30)					

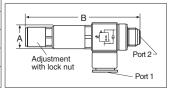


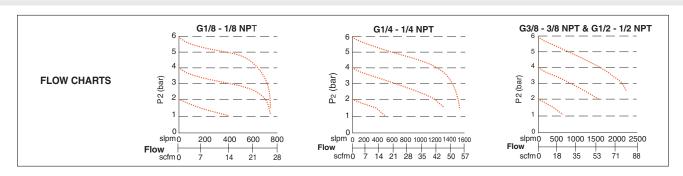




Models with Push-to-Connect Fitting									
Port	t Size	Valve Model	Dimer inches	nsions s (mm)	Tightening				
Port 1# (tube size)	Port 2** (thread size)	Number	Α	В	Torque Max. Ft-lb (Nm)				
1/4"	1/8 NPT	5214A1120	0.7 (17)	2.9 (73)	11.06 (15)				
1/4"	1/4 NPT	5214A2120	0.7 (17)	3.2 (81)	14.75 (20)				
3/8"	1/4 NPT	5214A2130	0.7 (17)	3.2 (81)	14.75 (20)				
3/8"	3/8 NPT	5214A3130	0.9 (22)	3.5 (88)	22.13 (30)				
4 mm	1/8 G	D5214A1140	0.5 (13)	2.9 (73)	7.38 (10)				
6 mm	1/8 G	D5214A1160	0.5 (13)	2.9 (73)	7.38 (10)				
8 mm	1/8 G	D5214A1180	0.5 (13)	2.9 (73)	7.38 (10)				
6 mm	1/4 G	D5214A2160	0.7 (17)	3.2 (81)	8.85 (12)				
8 mm	1/4 G	D5214A2180	0.7 (17)	3.2 (81)	8.85 (12)				
10 mm	1/4 G	D5214A2110	0.7 (17)	3.2 (81)	8.85 (12)				
8 mm	3/8 G	D5214A3180	0.9 (22)	3.5 (88)	14.75 (20)				
10 mm	3/8 G	D5214A3110	0.9 (22)	3.5 (88)	14.75 (20)				

Port 1 tubing size in inches (") or millimeters (mm). ** Port 2 threads are male.





STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Self-relieving	Operating Pressure	15 to 240 psig (1 to 17 bar)		
Temperature	Ambient/Media: 15° to 160°F (-10° to 70°C)	Operating Fressure	Regulated Pressure Range: 15 to 120 psig (1 to 8 bar).		
Fluid Media	Filtered air	Construction Material	Bowl: Metal		

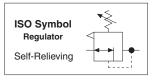




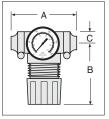
BANTAM Series

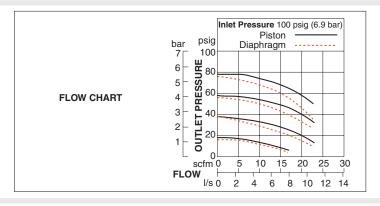
Port Sizes: 1/8, 1/4 & 3/8 - Flow to 23 scfm

		Piston			Diaphragm			
D . O.		Model Number		Model Number				
Port Size	Regulated Pressure		sig (bar)	Regula	ig (bar)			
	0-50 (0-3.4)	0-100 (0-6.9)	0-125 (0-8.6)	0-50 (0-3.4)	0-100 (0-6.9)	0-125 (0-8.6)		
With THRE	ADED PORTS							
1/8 NPTF	5B01C0030	5B01C0010	5B01C0050	5B01C0040	5B01C0020	5B01C0060		
1/8 G	C5B01C0030	C5B01C0010	C5B01C0050	C5B01C0040	C5B01C0020	C5B01C0060		
1/4 NPTF	5B02C0030	5B02C0010	5B02C0050	5B02C0040	5B02C0020	5B02C0060		
1/4 G	C5B02C0030	C5B02C0010	C5B02C0050	C5B02C0040	C5B02C0020	C5B02C0060		
With Quick	Connect TUBE	FITTINGS						
1/4	5B03C0030	5B03C0010	5B03C0050	5B03C0040	5B03C0020	5B03C0060		
3/8	5B04C0030	5B04C0010	5B04C0050	5B04C0040	5B04C0020	5B04C0060		
4mm	5B05C0030	5B05C0010	5B05C0050	5B05C0040	5B05C0020	5B05C0060		
6mm	5B06C0030	5B06C0010	5B06C0050	5B06C0040	5B06C0020	5B06C0060		
8mm	5B07C0030	5B07C0010	5B07C0050	5B07C0040	5B07C0020	5B07C0060		
10mm	5B08C0030	5B08C0010	5B08C0050	5B08C0040	5B08C0020	5B08C0060		



Port Size	[Dimensions	inches (mm)	Weight			
Port Size	Α	В	С	Depth*	lb (kg)			
No Port	1.7 (43)	2.6 (67)	0.5 (13)	1.8 (45)	0.21 (0.09)			
1/8, 1/4 (NPT or G)	3.0 (76)	2.6 (67)	0.5 (13)	1.8 (45)	0.43 (0.19)			
Models below have quick-connect tube fittings.								
1/4	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.21 (0.09)			
3/8	3.9 (99)	2.6 (67)	0.5 (13)	1.8 (45)	0.21 (0.09)			
4 mm	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)			
6 mm	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)			
8 mm	3.1 (79)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)			
10 mm	3.9 (99)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)			
* Less gauge.								





Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Piston or Diaphragm Self-relieving; For non-relieving option consult ROSS.	Pressure Gauge	0 to 160 psig (0 to 11 bar); 1/8 gauge ports front and rear		
Temperature	Ambient/Media: 40° to 125°F (4° to 52°C)	Panel Mounting	1-3/16 inch (30 mm) hole required		
Fluid Media	Compressed air		Body: Acetal		
Operating Pressure	Inlet: Maximum 150 psig (10 bar)	Construction Material	Dome and Knob: Acetal		
	Outlet: Adjustable up to 100 psig (7 bar)		Seals: Nitrile		

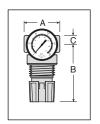


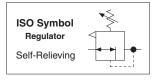
Port Sizes: 1/8 & 1/4 - Flow to 40 scfm

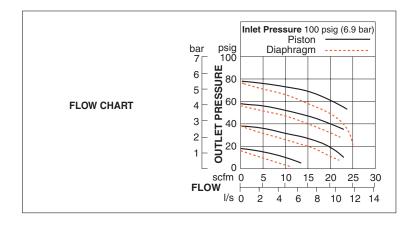
			Piston		Diaphragm				
Port	Port		Model Number		Model Number				
Size	Threads	Regula	ited Pressure ps	ig (bar)	Regulated Pressure psig (bar)		ig (bar)		
		0-50 (0-3.4)	0-100 (0-6.9)	0-125 (0-8.6)	0-50 (0-3.4)	0-100 (0-6.9)	0-125 (0-8.6)		
1/8	NPTF	5212C1004	5211C1004	5213C1004	5212C1005	5211C1005	5213C1005		
1/6	G	C5212C1004	C5211C1004	C5213C1004	C5212C1005	C5211C1005	C5213C1005		
1/4	NPTF	5212C2004	5211C2004	5213C2004	5212C2005	5211C2005	5213C2005		
1/4	G	C5212C2004	C5211C2004	C5213C2004	C5212C2005	C5211C2005	C5213C2005		



Port Size	ort Size Dimensions inches (mm)					
1 011 0120	Α	В	С	Depth*	lb (kg)	
1/8, 1/4	1.6 (41)	2.7 (68)	0.4 (10)	1.6 (41)	0.24 (0.11)	
* Less gaug	e.					







Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Piston or Diaphragm Self-relieving; For non-relieving option consult ROSS.	Pressure Gauge	0 to 160 psig (0 to 11 bar); 1/8 gauge ports front and rear		
Temperature			1-3/16 inch (30 mm) hole required		
Fluid Media	Compressed air		Body: Aluminum		
	Inlet: Maximum 300 psig (21 bar)	Construction Material	Dome and Knob: Acetal		
Operating Pressure	Outlet: Adjustable up to 100 psig (7 bar)		Seals: Nitrile		



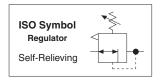


Port Sizes: 1/4, 3/8 & 1/2 - Flow to 100 scfm

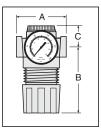
	Pressure Range psig (bar)									
Port Size	0-50 (0-3.4)		0-100	(0-6.9)	0-150 (0-10.3)					
Port Size	Model I	Number	Model I	Number	mber Model Number					
	NPTF Threads	G Threads	NPTF Threads	G Threads	NPTF Threads	G Threads				
1/4	5212B2015	C5212B2015	5211B2015	C5211B2015	5213B2015	C5213B2015				
3/8	5212B3015	C5212B3015	5211B3015	C5211B3015	5213B3015	C5213B3015				
1/2	5212B4015	C5212B4015	5211B4015	C5211B4015	5213B4015	C5213B4015				



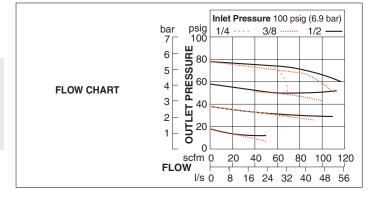
	REGULATORS with REVERSE FLOW					
			Pressure A	Adjustment		
Port Size	Regulated Pressure Range	Kn	ob	T-Ha	ndle	
POIT SIZE	psig (bar)	Model N	Model Numbers		Model Numbers	
		NPTF Threads	BSPP Threads	NPTF Threads	BSPP Threads	
1/4	0-100 (0-6.9)	5X00B2035	C5X00B2035	5X00B2039	C5X00B2039	
3/8	0-100 (0-6.9)	5X00B3024	C5X00B3024	5X00B3021	C5X00B3021	
1/2	0-100 (0-6.9)	5X00B4023	C5X00B4023	5X00B4041	C5X00B4041	



Port Size		Weight*			
1 011 0.20	Α	В	С	Depth*	lb (kg)
1/4, 3/8, 1/2	2.7 (68)	3.3 (83)	1.3 (33)	2.1 (52)	1.0 (0.46)
*Less gauge.					



Reverse-Flow Regulators provide regulated in-to-out pressure control, plus quick exhausting from out-to-in. Used for downstream pressure regulation of weld guns and other applications requiring quick exhausting through the regulator.



Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

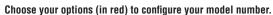
STANDARD SPECIFICATIONS (for regulators on this page):

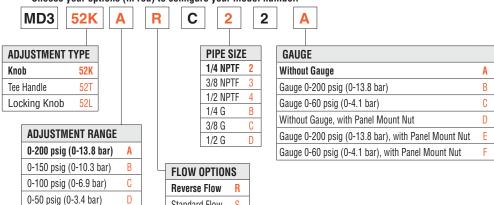
Construction Design	Piston or Diaphragm Self-relieving; For non-relieving option consult ROSS.
Temperature	Ambient/Media: 40° to 125°F (4° to 52°C)
Fluid Media	Compressed air
Operating Pressure	Inlet: Maximum 250 psig (17 bar) Outlet: Adjustable up to 150 psig (10 bar)
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear

Panel Mounting	1-9/16 inch (40 mm) hole required
	Body: Zinc
	Cap: Nylon
Construction Material	Dome: Acetal
	Knob: Acetal
	Seals: Nitrile

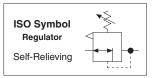


Port Sizes: 1/4, 3/8 & 1/2 - Flow to 120 scfm



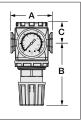


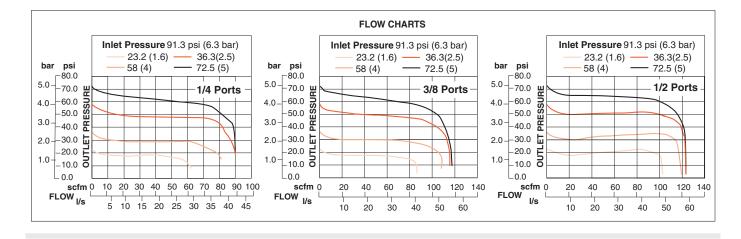




Port Size		Weight†			
	Α	B*	C**	Depth†	lb (kg)
1/4, 3/8, 1/2, 3/4	3.0 (76.2)	4.52 (114.9)	1.46 (37)	2.51 (63.8)	1.9 (0.86)

Standard Flow





Accessories ordered separately, refer to page G6.3-5.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm Self-relieving; For non-relieving option consult ROSS.	Panel Mounting	2-1/16 inch (52 mm) hole required
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		Body: Zinc
Fluid Media	Compressed air		Dome: Nylon
Operating Pressure	Inlet: Maximum 300 psig (21 bar)	Construction Material	Knob: Acetal
	Outlet: Adjustable up to 200 psig (14 bar); optional adjusting		Seals: Nitrile
	springs.		Valve: Brass
Optional Pressure Adjustment	Locking Key: Removable		Valve Cap: Nylon
Pressure Gauge	0-200 psig (0-14 bar) or 0-60 psig (0-4 bar); 1/4-NPT gauge ports front and rear		





^{*} Dome removal clearance: add 0.575 (14.6).

^{**}Cap removal clearance: add 0.750 (19.1).

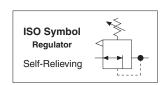
[†] Less gauge.

Port Sizes: 1/4, 3/8, 1/2 & 3/4 - Flow to 155 scfm

	Pressure Range psig (bar)					
Port	0-50 (0-3.4)		0-125 (0-8.6)		0-175 (0-12.1)	
Size	Model Number		Model Number		Model Number	
	NPTF Threads	G Threads	NPTF Threads	G Threads	NPTF Threads	G Threads
1/4	5212B2017	C5212B2017	5211B2017	C5211B2017	5213B2017	C5213B2017
3/8	5212B3017	C5212B3017	5211B3017	C5211B3017	5213B3017	C5213B3017
1/2	5212B4017	C5212B4017	5211B4017	C5211B4017	5213B4017	C5213B4017
3/4	5212B5027	C5212B5027	5211B5027	C5211B5027	5213B5027	C5213B5027



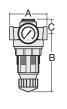
	REGULATORS with REVERSE FLOW					
		Pressure Adjustr	nent 0-125 (0-8.6))		
Port Size	Kr	ob	T-Handle			
Port Size	Model	Model Number		Number		
	NPT Threads	G Threads	NPT Threads	G Threads		
1/4	5X00B2010	C5X00B2010	_	_		
3/8	5X00B3004	C5X00B3004	5X00B3012	C5X00B3012		
1/2	5X00B4004	C5X00B4004	5X00B4047	C5X00B4047		
3/4	5X00B5034	C5X00B5034	5X00B5044	C5X00B5044		

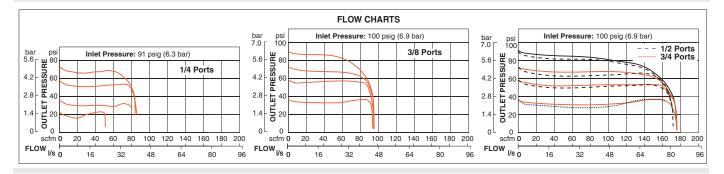


Port Size	Di	Weight†			
	Α	B**	C***	Depth†	lb (kg)
1/4, 3/8, 1/2, 3/4	3.5 (89)	5.8 (146)	1.3 (33)	2.8 (71)	2.06 (0.92)



^{***} Cap removal clearance: add 0.5 (13).





Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page): Diaphragm Panel Mounting 2-1/16 inch (52 mm) hole required Construction Design Self-relieving; For non-relieving option consult ROSS. Body: Zinc Ambient/Media: 40° to 175°F (4° to 79°C) Temperature Dome: Nylon; aluminum with optional 0 to 175 psig (0 to 12 Fluid Media Compressed air bar) spring Inlet: Maximum 300 psig (21 bar) **Construction Material** Knob: Acetal Outlet: Adjustable up to 175 psig (12 bar); optional adjusting Operating Pressure Seals: Nitrile springs. Valve: Brass Optional Pressure Adjustment | Locking Key: Removable Valve Cap: Nylon Pressure Gauge 0-200 psig (0-14 bar); 1/4-NPT gauge ports front and rear

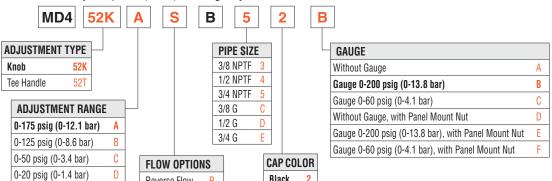


[†] Less gauge.

Port Sizes: 3/8, 1/2 & 3/4 - Flow to 220 scfm

HOW TO ORDER

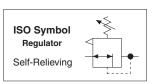
Choose your options (in red) to configure your model number.



Black

Yellow



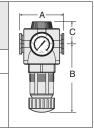


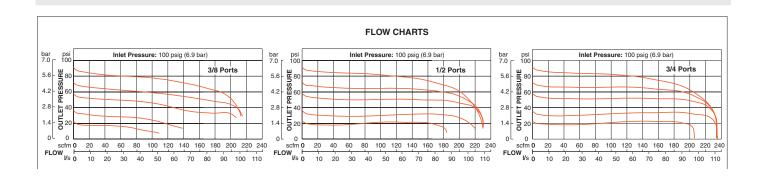
	Port	rt Dimensions inches (mm)				
Size	Α	B*	C**	Depth †	lb (kg)	
	3/8, 1/2, 3/4	3.5 (87)	5.6 (142)	1.6 (40)	2.9 (73)	2.56 (1.16)

Reverse Flow

Standard Flow

*Dome removal clearance: add 0.625 (16).





Accessories ordered separately, refer to page G6.3-5.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm	Pa
	Self-relieving; For non-relieving option consult ROSS.	
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)	
Fluid Media	Compressed air	
Operating Pressure	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable up to 175 psig (12 bar); optional adjusting springs.	Co
Optional Pressure Adjustment	Locking Key: Removable	
Pressure Gauge	0-200 psig (0-14 bar); 1/4-NPT gauge ports front and rear	

	Panel Mounting	2-1/16 inch (52 mm) hole required
-		Body: Zinc
		Dome: Nylon; aluminum with optional 0 to 175 psig (0 to 12 bar) spring
	Construction Material	Knob: Acetal
ıg		Seals: Nitrile
		Valve: Brass
		Valve Cap: Nylon





^{**}Cap removal clearance: add 0.50 (13).

[†] Dimensions reflect less gauge.

ISO Symbol Regulator Self-Relieving

Port Sizes: 3/4, 1, 11/4 & 11/2 - Flow to 800 scfm

		Pressure Rar	nge psig (bar)		
Doub Cine	0-50 (0-3.4)	0-100 (0-6.9)		
Port Size	Model Number		Model Number		
	NPTFThreads GThreads		NPTF Threads	G Threads	
3/4	5212D5017	C5212D5017	5211D5017	C5211D5017	
1	5212D6017	C5212D6017	5211D6017	C5211D6017	
11/4	5212C7017	C5212C7017	5211C7017	C5211C7017	
1½	5212C8017	C5212C8017	5211C8017	C5211C8017	

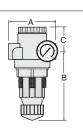
	REGULATORS with REVERSE FLOW:					
			Pressure Adjustment			
Port Size	Pressure Range	Kn	ob	T-Ha	ndle	
FOIT SIZE	psig (bar)	Model Number		Model I	Number	
		NPTFThreads	G Threads	NPTF Threads	G Threads	
3/4	0-100 (0-6.9)	5X00B5049	C5X00B5049	5X00B5050	C5X00B5050	
1	0-100 (0-6.9)	5X00D6003	C5X00D6003	5X00B6038	C5X00B6038	
11⁄4	0-100 (0-6.9)	5X00C7003	C5X00C7003	5X00B7016	C5X00B7016	
1½	0-100 (0-6.9)	5X00C8001	C5X00C8001	5X00B8024	C5X00B8024	

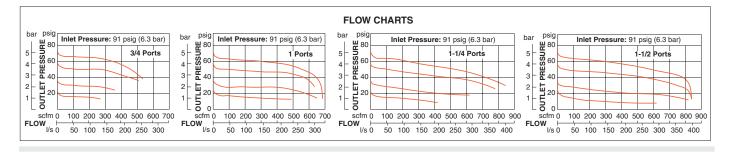
	1				T	
Port Size	Dimensions inches (mm)					
FUIT SIZE	Α	B**	C***	Depth †	lb (kg)	
3/4, 1	4.4 (111)	6.1 (154)	2.4 (62)	2.8 (71)	2.19 (0.99)	
11/4, 11/2	4.9 (124)	6.4 (162)	2.1 (54)	2.8 (71)	2.50 (1.14)	
** Dome rem	** Dome removal clearance: add 0.63 (16)					



^{***} Cap removal clearance: add 0.65 (16.5).

† Dimensions reflect less gauge.





Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Piston Self-relieving		Body: Aluminum Dome: Nylon; aluminum with optional 0 to 150 psig (0 to
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		10 bar) spring
Fluid Media	Compressed air	Construction Material	Knob: Acetal
	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable up to 100 psig (7 bar)		Seals: Nitrile Valve: Brass
Optional Pressure Adjustment	Locking Key: Removable		Valve Cap: Nylon
Pressure Gauge	0-200 psig (0-14 bar); 1/4-NPT gauge ports front and rear		
Panel Mounting	2-1/16 inch (52 mm) hole required		

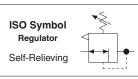


HIGH-PRESSURE Series

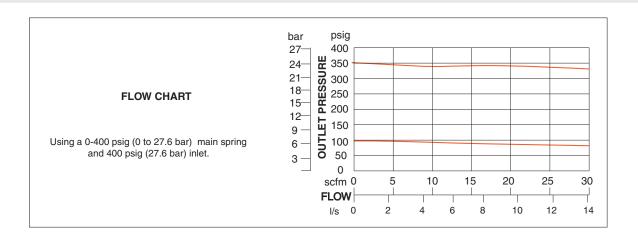
Port Sizes: 1/8, 1/4 & 3/8 - Flow to 70 scfm

		Pistor	า Туре		
Port Size	Relie	Relieving Model Number		elieving	
	Model I			Number	
	NPTF Threads G Threads		NPTF Threads	G Threads	
1/8	5215B1004	C5215B1004	5X00B1025	C5X00B1025	
1/4	5215B2004	C5215B2004	5X00B2076	C5X00B2076	
3/8	5215B3004	C5215B3004	5X00B3052	C5X00B3052	





		Weight**	<u> </u>			
Port Size	Α	В	С	Depth**	lb (kg)	
1/8, 1/4	1.9 (47)	7.3 (186) max	0.4 (10)	1.9 (47)	1.15 (0.53)	
3/8	2.1 (54)	7.4 (188) max	0.5 (13)	2.1 (54)	1.30 (0.59)	
** Less na	nde					(



Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Piston	Maximum Flow Rate	70 scfm (33.0 l/s) @400 psi (28 bar)
Construction Design	Self-relieving, Non-relieving		Body: Aluminum
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		Dome: Aluminum
Fluid Media	Compressed air	OtiM-ti-l	Knob: Nylon
Operating Pressure	Inlet: Maximum 400 psig (28 bar) Outlet: Adjustable up to 390 psig (27 bar)	Construction Material	Seals: Fluoroelastomer
Pressure Gauge	0-600 psig (0-40 bar)		Valve: Brass Valve Cap: Nylon





In-line Precision Regulators

MINIATURE Series

Port Sizes: 1/8 & 1/4 - Flow to 4 scfm

Port Size	Regulated Pressure Range#	Model I	Number
Port Size	psig (bar)	NPTF Threads	G Threads
1/8	0-50 (0-3.4)	5212C1006	C5212C1006
1/4	0-50 (0-3.4)	5212C2006	C5212C2006

For 0-10 psig (0-0.7 bar), 0-20 psig (0-1.4 bar), and 0-60 psig (0-4.1 bar) ranges, consult ROSS.

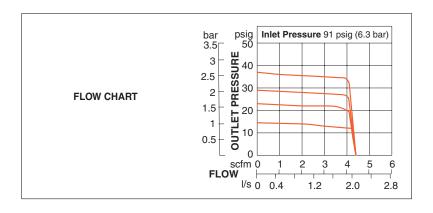
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ISO Symbol Regulator	**
Self-Relieving	

Port Size	Di	Dimensions inches (mm)				
Port Size	A B C Depth**				lb (kg)	
1/8, 1/4	1.8 (44)	3.4 (86)	0.4 (10)	1.8 (44)	0.38 (0.16)	
** ess galine						



Precision Regulators have a small valve seat and a large diaphragm area, a combination that allows greater precision, sensitivity, adjustment resolution, and less variation in regulated pressure.



Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm Self-relieving	Panel Mounting	1-3/16 inch (30 mm) hole required
Temperature	Ambient/Media: 40° to 125°F (4° to 52°C)	-	Body: Aluminum
Fluid Media	Compressed air	Construction Material	Dome: Acetal
0	Inlet: Maximum 300 psig (21 bar)	Constituction Material	Knob: Acetal
Operating Pressure	Outlet: Adjustable up to 100 psig (7 bar)		Seals: Nitrile
Pressure Gauge	0-160 psig (0-11 bar); 1/8-NPT gauge ports front and rear		

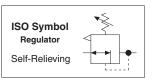


Port Sizes: 1/4, 3/8, 1/2 & 3/4 - Flow to 155 scfm

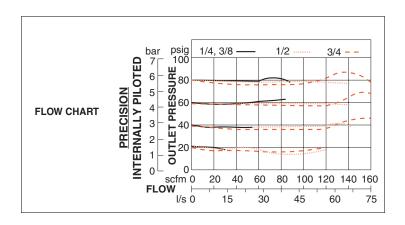
Internally Piloted Regulator				
	Pressure Range psig (bar)			
Port Size	15-200	15-200 (1-13.8) 15-250 (1-17.2)		
POIT SIZE	Model Number		Model Number	
	NPTF Threads	G Threads	NPT FThreads	G Threads
1/4	5213C2018	C5213C2018	5214C2018	C5214C2018
3/8	5213C3018	C5213C3018	5214C3018	C5214C3018
1/2	5213C4018	C5213C4018	5214C4018	C5214C4018
3/4	5213C5018	C5213C5018	5214C5018	C5214C5018

Port Size	D	imensions	inches (mi	m)	Weight †	-
10110126	Α	B**	C***	Depth†	lb (kg)	
1/4, 3/8, 1/2, 3/4	3.5 (89)	4.2 (106)	1.3 (33)	2.8 (71)	2.06 (0.92)	1
** Dome removal clearance: add 0.63 (16). *** Cap removal clearance: add 0.5 (13).						





Precision internal Pilot Regulators provide improved torque control for pneumatic tools; diaphragm type. Pressure settings held within 3 psig (0.2 bar).



Pressure Gauge included.

Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

	Diaphragm Self-relieving	Panel Mounting	2-1/16 inch (52 mm) hole required
	Ambient/Media: 40° to 125°F (4° to 52°C)		Body: Zinc
Fluid Media	Compressed air	Construction Material	Dome: Nylon; Aluminum with optional 0 to 175 psig (0 to 12 bar) spring
	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 15 to 250 psig (1 to 17 bar)		Knob: Acetal
Optional Pressure Adjustment	Locking Key: Removable		Seals: Nitrile Valve: Brass
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear		Valve Cap: Nylon

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

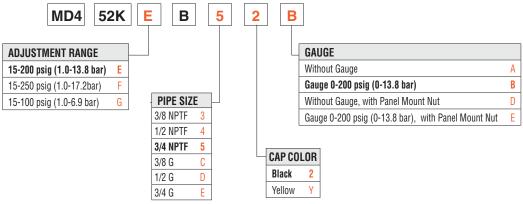


† Less gauge.

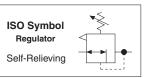


Port Sizes: 3/8, 1/2 & 3/4 - Flow to 170 scfm

Choose your options (in red) to configure your model number.

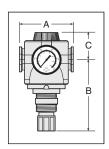


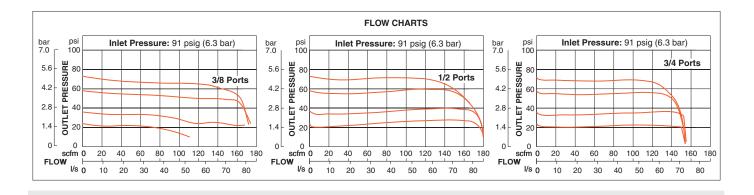




Port Size		Dimensions	Weight †		
Port Size	Α	В	С	Depth †	lb (kg)
3/8, 1/2, 3/4	3.5 (87)	4.8 (122)	1.6 (40)	2.9 (73)	2.3 (1.0)

† Dimensions reflect less gauge.





Accessories ordered separately, refer to page G6.3-5.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm		Body: Zinc
g	Self-relieving		Bonnet and Knob: Acetal
Temperature	Ambient/Media: 40° to 125°F (4° to 52°C)		Dolliet alla Kilob. Acetai
EL 1188 E	0		Dome: Zinc
Fluid Media	Compressed air		Seals: Nitrile
0 11 0	Inlet: Maximum 250 psig (17 bar)		Seals: Nitrile
Operating Pressure	Outlet: Adjustable 15 to 250 psig (1 to 17 bar)		Valve: Brass
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear	Precision Regulators: Provide	improved torque control for pneumatic tools; diaphragm type.
Panel Mounting	2-1/16 (52 mm) hole required	Pressure settings held within 3	psig (u.z bai)

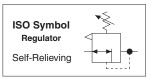


HIGH-CAPACITY Series

Port Sizes: 3/4, 1, 11/4, 11/2 - Flow to 800 scfm

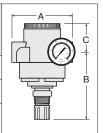
	Pressure Range psig (bar)			
Port Size	15-200 (1-13.8)		15-250	(1-17.2)
1 011 0120	Model Number		Model I	Number
	NPTF Threads	G Threads	NPTF Threads	G Threads
3/4	5213D5017	C5213D5017	5214D5017	C5214D5017
1	5213D6017	C5213D6017	5214D6017	C5214D6017
11/4	5213D7017	C5213D7017	5214D7017	C5214D7017
1½	5213D8017	C5213D8017	5214D8017	C5214D8017

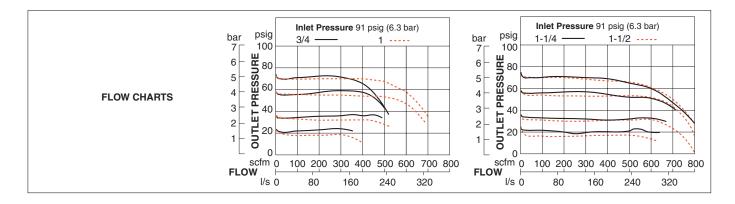




Port		Weight †			
Size	Α	В	С	Depth †	lb (kg)
3/4, 1	4.4 (111)	4.6 (112)	2.4 (62)	2.8 (71)	2.0 (0.91)
11/4, 11/2	4.9 (124)	4.9 (125)	2.1 (54)	2.8 (71)	2.38 (1.08)







Precision Regulators:

Provide improved torque control for pneumatic tools. Pressure settings held within 3 psig (0.2 bar).

Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm		Body: Aluminum
	Self-relieving		Bonnet and Knob: Acetal
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		
Fluid Media	Compressed air	Construction Material	Dome: Zinc
Tidia modia	·		Seals: Nitrile
Operating Pressure	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 15 to 250 psig (1 to 17 bar)		Valve: Brass
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear		Valve Cap: Nylon
Panel Mounting	1-3/16 (30 mm) hole required		

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.





Online Version

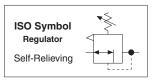
Modular Remote Pilot Regulators

FULL-SIZE Series

Port Sizes: 1/4, 3/8, 1/2, 3/4 - Flow to 155 scfm

	Pressure Range psig (bar)			
Port Size	0-200 (0-13.8) Model Number			
	NPTF Threads	G Threads		
1/4	5211C2007	C5211C2007		
3/8	5211C3007	C5211C3007		
1/2	5211C4007	C5211C4007		
3/4	5211C5007	C5211C5007		



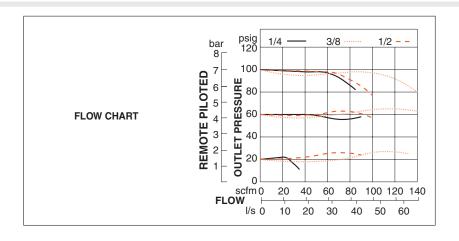


Port Size		Weight†			
1 011 0120	Α	B**	C***	Depth†	lb (kg)
1/4, 3/8, 1/2, 3/4	3.5 (89)	2.4 (62)	1.3 (33)	2.8 (71)	2.06 (0.92)

- ** Dome removal clearance: add 0.63 (16).
- *** Cap removal clearance: add 0.5 (13).
- † Less gauge.



Remote Pilot Regulators use any small regulator to provide remote adjustment and to ensure accurate pressure control.



Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

		` -	
Construction Design	Diaphragm		Body: Zinc
Temperature	Self-relieving Ambient/Media: 40° to 125°F (4° to 52°C)		Dome: Zinc
Fluid Media	Compressed air	Construction Material	Knob: Acetal
Operating Pressure	Inlet: Maximum 300 psig (21 bar)		Seals: Nitrile Valve: Brass
Pressure Gauge	Outlet: Adjustable 15 to 250 psig (1 to 17 bar) 0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear		Valve Cap: Nylon
Panel Mounting	2-1/16 inch (52 mm) hole required		



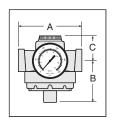
Port Sizes: 1/4, 3/8, 1/2 & 3/4 - Flow to 150 scfm

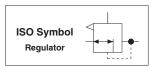
Port Size	Model Number		
Port Size	NPTF Threads	G Threads	
1/4	5X00B2037	C5X00B2037	
3/8	5X00B3025	C5X00B3025	
1/2	5X00B4040	C5X00B4040	
3/4	5X00B5035	C5X00B5035	

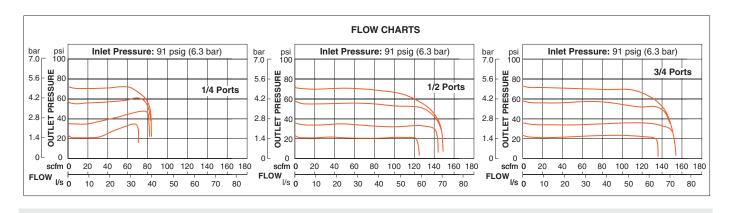


	Port Size		Dimensions	inches (mm)		Weight †
	Port Size	Α	В	B C Dept	Depth †	lb (kg)
	1/4, 3/8, 1/2, 3/4	3.5 (87)	2.4 (62)	1.3 (33)	2.8 (71)	2.06 (0.92)

† Dimensions reflect less gauge.







Pressure Gauge included.

Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm Self-relieving	Panel Mounting	2-1/16 inch (52 mm) hole required	
Femperature Ambient/Media: 40° to 175°F (4° to 79°C)			Body: Zinc	
Fluid Media	Fluid Media Compressed air		Dome: Zinc	
Operating Pressure	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 15 to 200 psig (1 to 14 bar)		Seals: Nitrile; Fluoroelastomer seals optional, consult ROSS Valve: Brass	
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear		Valve Cap: Nylon	
Pilot Ports	1/4 NPTF			





In-line Premium High-Relief Remote Pilot Regulators

FULL-SIZE Series

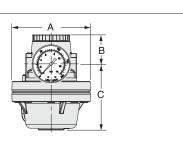
Port Sizes: 1/4, 3/8 & 1/2 - Flow to 150 scfm

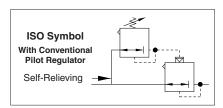
Port Size	Model Number	
Port Size	NPTF Threads	G Threads
1/4	5216A2007	C5216A2007
3/8	5216A3007	C5216A3007
1/2	5216A4007	C5216A4007

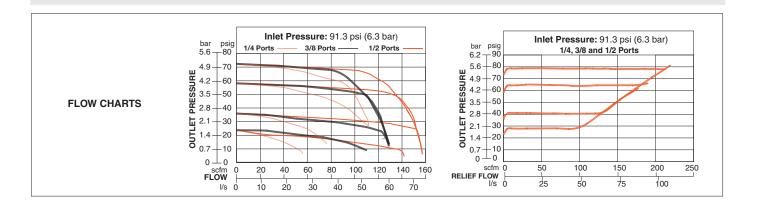
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Port Size		Dimensions	inches (mm)		Weight†
1 011 0120	Α	B**	C***	Depth†	lb (kg)
1/4, 3/8, 1/2	4.18 (106)	1.54 (39.1)	3.52 (89.3)	4.18 (106)	4.84 (2.2)
** Dama rama al alas rama add 0 60 (16)					

- ** Dome removal clearance: add 0.63 (16).
- *** Cap removal clearance: add 0.5 (13).
- † Less gauge.







Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

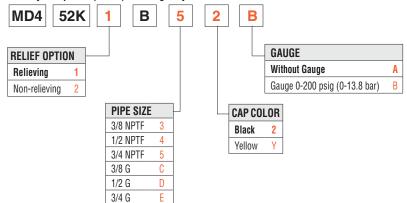
STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design		Pressure Gauge	0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF (1/4 BSPP) gauge ports front and rear; 0 to 600 psig (0 to 40 bar) optional
Temperature	Ambient/Media: 0° to 158°F (-18° to 70°C)		Body: Zinc
Fluid Media	Compressed air	Construction Material	Dome: Zinc
Operating Pressure	Inlet: Maximum 400 psig (28 bar) Outlet: Adjustable up to 250 psig (17 bar)		Seals: Nitrile
			Valve: Brass Valve Cap: Glass filled Nylon

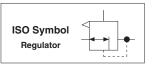


Port Sizes: 3/8, 1/2 & 3/4 - Flow to 190 scfm

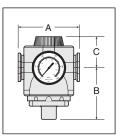
Choose your options (in red) to configure your model number.

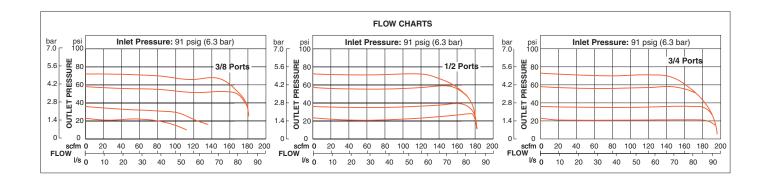






Dout Cino		Dimensions	inches (mm)		Weight †
Port Size	Α	В	С	Depth †	lb (kg)
1/4, 3/8, 1/2, 3/4	3.5 (87)	2.4 (62)	1.6 (41)	2.9 (73)	2.2 (1.0)
† Dimensions reflect less gauge.					





Accessories ordered separately, refer to page G6.3-5.

STANDARD SPECIFICATIONS (for regulators on this page): Diaphragm 0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF (1/4 BSPP) Construction Design Pressure Gauge Self-relieving gauge ports front and rear; Temperature Ambient/Media: 40° to 175°F (4° to 79°C) Body: Zinc Fluid Media Compressed air Dome: Zinc **Construction Material** Inlet: Maximum 300 psig (21 bar) Seals: Nitrile Operating Pressure Outlet: Adjustable 0 to 250 psig (0 to 17 bar) Valve: Brass Valve Cap: Nylon





In-line Remote Pilot Regulators

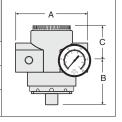
HIGH-CAPACITY Series

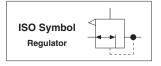
Port Sizes: 3/4, 1, 11/4 & 11/2- Flow to 740 scfm

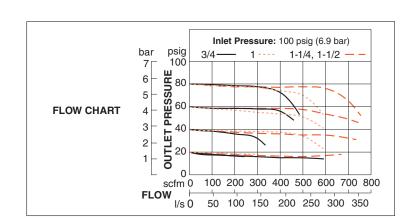
Port Size	Model Number			
Port Size	NPTF Threads	G Threads		
3/4	5211D5006	C5211D5006		
1	5211D6007	C5211D6007		
11/4	5211D7007	C5211D7007		
1½	5211D8007	C5211D8007		



Port Size	Dimensions inches (mm)				Weight†
FOIT SIZE	Α	B*	C**	Depth†	lb (kg)
3/4, 1	4.4 (111)	2.9 (74)	2.4 (62)	2.8 (71)	1.88 (0.85)
11/4, 11/2	4.9 (124)	3.2 (81)	2.1 (54)	2.8 (71)	2.25 (1.02)
† Less gauge.					







Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm Self-relieving	Pressure Gauge	0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF) gauge ports front and rear
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		Body: Aluminum
Fluid Media	Compressed air	1	Dome: Zinc
	Inlet: Maximum 300 psig (21 bar)	Construction Material	Seals: Nitrile
Operating Pressure	Outlet: Adjustable 0 to 200 psig (0 to 14 bar) NOTE: Outlet pressure depends on the adjustment of the pilot regulator		Valve: Brass Valve Cap: Nylon
Pilot Ports	1/4-NPTF		

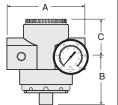


Port Sizes: 3/4, 1, 11/4 & 11/2 - Flow to 700 scfm

Port Size	Model I	Number
Port Size	NPTF Threads	G Threads
3/4	5X00B5046	C5X00B5046
1	5X00B6039	C5X00B6039
1¼	5X00B7021	C5X00B7021
1½	5X00B8049	C5X00B8049

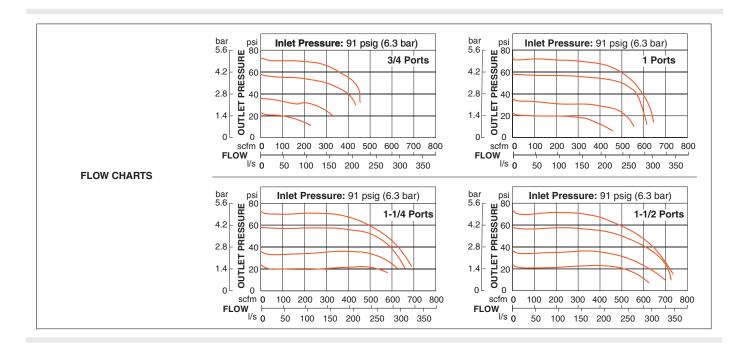


Port Size	Dimensions inches (mm)				Weight†
1 011 0126	Α	B**	C***	Depth†	lb (kg)
3/4, 1	4.4 (111)	2.9 (74)	2.4 (62)	2.8 (71)	1.88 (0.85)
1¼, 1½	4.9 (124)	3.2 (81)	2.1 (54)	2.8 (71)	2.25 (1.02)



ISO Symbol Regulator

[†] Less gauge.



Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

, ,	Pressure Galle	0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF) gauge ports
Self-relieving		front and rear
Ambient/Media: 40° to 175°F (4° to 79°C)		Body: Aluminum
		Dome: Zinc
inlet: Maximum 300 psig (21 bar)	Construction Material	Seals: Nitrile
	Valve: Brass	
1/4-NPTF		Valve Cap: Nylon
	Ambient/Media: 40° to 175°F (4° to 79°C) Compressed air Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 0 to 200 psig (0 to 14 bar)	Self-relieving Ambient/Media: 40° to 175°F (4° to 79°C) Compressed air Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 0 to 200 psig (0 to 14 bar)





^{**} Dome removal clearance: add 0.63 (16).

^{***} Cap removal clearance: add 0.5 (13).

In-line Premium High-Relief Remote Pilot Regulators

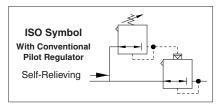
HIGH-CAPACITY Series

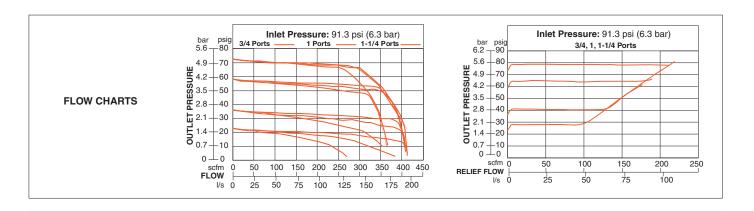
Port Sizes: 3/4, 1 & 11/4 - Flow to 400 scfm

Port Size	Model Number		
Port Size	NPTF Threads	G Threads	
3/4	5216A5007	C5216A5007	
1	5216A6007	C5216A6007	
11/4	5216A7007	C5216A7007	

Port Size Dimensions inches (mm)					Weight†		
Port Size	A B** C*** Depth†			lb (kg)			
3/4, 1, 11/4	4.18 (117)	6.44 (3.0)					
** Dome removal clearance: add 0.63 (16). *** Cap removal clearance: add 0.5 (13). † Less gauge.							
	, ,						







Pressure Gauge included.
Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Diaphragm Self-relieving
Temperature	Ambient/Media: 0° to 158°F (-18° to 70°C)
Fluid Media	Compressed air
Operating Pressure	Inlet: Maximum 400 psig (28 bar) Outlet: Adjustable up to 250 psig (up to 17 bar)
Pressure Gauge	0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF (1/4 BSPP) gauge ports front and rear; 0 to 600 psig (0 to 40 bar) optional

	Body: Zinc
	Dome: Zinc
Construction Material	Seals: Nitrile
	Valve: Brass
	Valve Cap: Glass filled Nylon

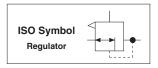
HIGH-CAPACITY Series

Port Sizes: 11/2, 2 & 3 - Flow to 4000 scfm

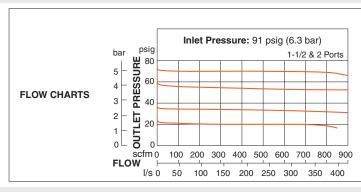
Flow to 850 scfm				
Doub Cine	Model I	Number		
Port Size	NPTF Threads	G Threads		
1½	5211B8027	C5211B8027		
2	5211B9007	C5211B9007		

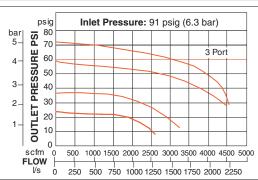
Flow to 4000 scfm				
Model Number				
Port Size	Seals	NPTF Threads	G Threads	
3	Nitrile	5211B9008	C5211B9008	
3	Fluoroelastomer	5X00B9021	C5X00B9021	





Port Size	Dimensions inches (mm)				Weight†	
Port Size	Α	В	С	Depth†	lb (kg)	
1½, 2	6.4 (162)	5.0 (127)	3.0 (76)	2.8 (71)	8.94 (4.06)	
3	8.4 (214)	7.36 (187)	3.74 (95)	8.0 (203)	21.77 (9.88)	
† Less gau	† Less gauge.					
Port Size 1½, 2	A O	C B	Port Size 3		C	





Pressure Gauge included.

Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for regulators on this page):

Construction Design	Piston Self-relieving
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)
Fluid Media	Compressed air
Operating Pressure	Inlet: Maximum 300 psig (21 bar) Outlet: Adjustable 0 to 200 psig (0 to 14 bar) NOTE: Outlet pressure depends on the adjustment of the pilot regulator
Pilot Ports	1/4-NPTF

Pilot Ports	1/4-NPTF
Pressure Gauge	0 to 200 psig (0 to 14 bar) standard, 1/4-NPTF) gauge ports front and rear
	Body: Aluminum
	Dome: Aluminum
Construction Material	Seals: Nitrile
	Valve: Brass on 1/2" & 2" ports; Aluminum on 3" ports Valve
	Cap: Aluminum





ISO Symbol Relief Valve Self-Relieving

Port Sizes: 1/8 & 1/4 - Flow to 40 scfm

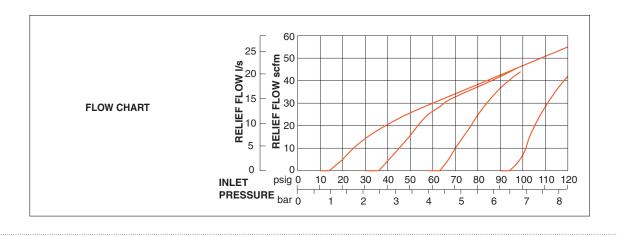
		Pressure Range psig (bar)				
Port Size	Port Threads	1-15 (0.07-1.0)	1-30 (0.07-2.1)	1-50 (0.07-3.4)	1-140 (0.07-9.6)	
		Model Number	Model Number	Model Number	Model Number	
1/8	NPTF	5210B1002	5210B1003	5210B1004	5210B1001	
1/0	G	C5210B1002	C5210B1003	C5210B1004	C5210B1001	
1/4	NPTF	5210B2002	5210B2003	5210B2004	5210B2001	
1/4	G	C5210B2002	C5210B2003	C5210B2004	C5210B2001	



Port Size	Dimensions inches (mm)				Weight†
Port Size	Α	В	С	Depth†	lb (kg)
1/8, 1/4	1.6 (41)	2.7 (68)	0.4 (10)	1.6 (41)	0.24 (0.11)



†Less gauge.



Relief Valves have maximum relief flows of 10 to 20 scfm (4.7 to 9.4 l/s). For models with increased sensitivity at lower pressure, consult ROSS.

> Pressure Gauge included. Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Diaphragm Self-relieving	Panel Mounting	1-3/16 inch (30 mm) hole required	
Temperature	Ambient/Media: 40° to 125°F (4° to 52°C)		Body: Aluminum	
Fluid Media	Compressed air	Construction Material	Dome: Acetal	
Operating Programs	Inlet: Maximum 300 psig (21 bar)	Ocholi dollon matorial	Knob: Acetal	
Operating Pressure	Outlet: Adjustable 1 to 140 psig (0.07 to 9.6 bar)		Seals: Nitrile; Fluoroelastomer seals optional, consult ROSS	
Pressure Gauge	0 to 160 psig (0 to 11 bar): 1/8 NPT gauge ports front and rear			

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



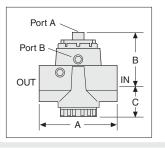
Online Version

G2.24

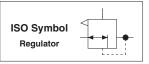
Port Sizes: 1 - Flow to 450 scfm

Port Size	Model Number			
Port Size	NPTF Threads	G Threads		
1	5X00D6012	C5X00D6012		

D 10:	I	Dimensions	Weight		
Port Size	Α	В	С	Depth	lb (kg)
1	4.4 (111)	4.8 (122)	2.5 (62)	2.9 (72)	1.8 (0.8)





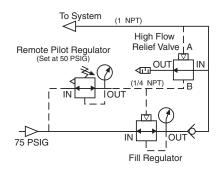


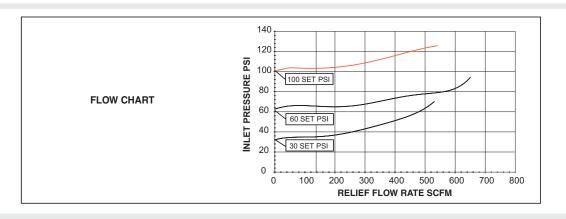
On the right is a typical circuit using the High-Flow Relief Valve. The circuit utilizes a remotely piloted "fill" regulator (port size 1 NPT) and a small, remotely mounted, pilot regulator with 1/4 NPT ports.

The required system pressure is set by adjusting the knob on the pilot regulator until the desired system pressure is shown on the pilot regulator's gauge. An example system pressure of 50 psig was selected in the circuit.

Outlet pressure from the pilot regulator is sent to the fill regulator's signal port and the Port 2 of the High-Flow Relief Valve. The Port 1 of the High-Flow Relief Valve is connected to the system, as shown, to monitor system pressure.

If the system pressure exceeds the pilot regulator setting (set-point), the High-Flow Relief Valve will begin to exhaust air after an approximate 2 psig (0.1 bar) rise above the set-point. Should the system pressure drop below the set-point, the fill valve will open to supply air downstream and maintain the system at the set-point.





Accessories ordered separately, refer to page G6.3-4.

STANDARD SPECIFICATIONS (for valves on this page):

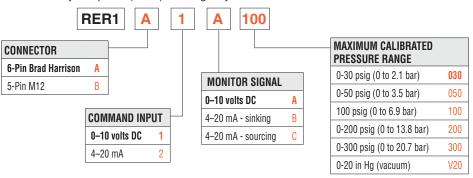
Construction Design	ruction Design Diaphragm Self-relieving		1/4 NPTF
Temperature	Ambient/Media: 40° to 175°F (4° to 79°C)		Body: Aluminum
Fluid Media	Compressed air		Dome: Zinc
		Construction Material	Seals: Nitrile
Operating Pressure	Outlet: Adjustable 0 to 200 psig (0 to 14 bar)		Valve: Brass
Pressure Gauge	0 to 200 psig (0 to 14 bar); 1/4 NPT gauge ports front and rear		Valve Cap: Nylon





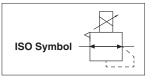
HOW TO ORDER

Choose your options (in red) to configure your model number.





Accessories ordered separately, see below.



ACCESSORIES

Cables

For 6-Pin Brad Harrison Connector.

Cable Length	Model Number*			
6 feet (1.8 meters)	RER-CBL-6			
12 feet (3.7 meters)	RER-CBL-12			
25 feet (7.5 meters)	RER-CBL-25			
*For cables for 5-Pin M12 connector, consult ROSS.				

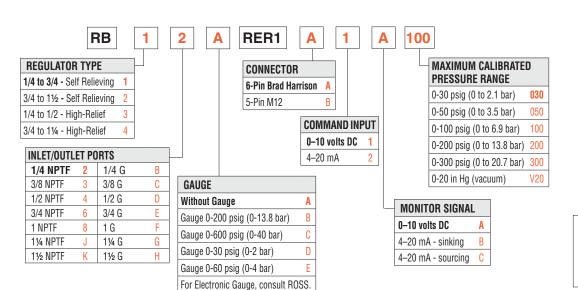


STANDARD SPECIFICATIONS (for valves on this page):

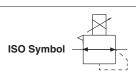
Supply Voltage/Current	15 – 24 volts DC/250 mA (required)		Body: Zinc		
Analog Monitor Signal:	Voltage: 0 – 10 volts DC@20 mA maximum		Dome: Zinc		
7 maiog monitor orginali	Current: 4 – 20 mA sinking (sourcing optional)		Housing: Aluminum; powder coated		
Command Signal Impedance:	Voltage: 4.7 kQ	Construction Material	Manifold: Brass		
	Current: 100Q		Seals: Fluorocarbon		
Command Signal Voltage/Current:	0 - 10 volts DC/4 - 20 mA		Transducer: Silicon, Aluminum		
Electrical Connector:	6-pin Brad Harrison or 5-pin M12		Valve: Nickel-plated Brass		
Temperature	Ambient/Media: 32° to 158°F (0° to 70°C)	Accuracy:	< ± .25% F.S.		
Fluid Media	Compressed air	Linearity/Hysteresis:	< ± .2% F.S. BFSL		
riulu ivieula	Compressed air	Repeatability:	< ±2% F.S.		
Operating Pressure	Input: 29.9 in Hg to 300 psig (760 mm Hg to 21 bar)	Note: High-pressure Proportional valve Q175 psi (12 bar) - inlet and exhaust ports reverse			
operating recours	Ouput: 0 to 200 psi (0 to 14 bar)	from picture shown			



Port Sizes: 11/2, 2 & 3 - Flow to 4000 scfm







Accessories ordered separately, see below.

Regulator Pressure Model	Inlet psi (bar)	Outlet psi (bar)	Relief scfm
RB1 - RB2	300 (20.7)	200 (13.8)	627
RB3 - RB4	400 (27.6)	250 (17.3)	200

Brass Inlet Filter (R37-R288) is included when purchasing a proportional-valve. NOTE: Cable not included with the product, see choices below.



ACCESSORIES

Mounting Bracket Kit

Regulator Type	Kit Number1
Self Relieving	RER-BRK-1
High-Relief	R-A37-381



Cables

For 6-Pin Brad Harrison Connector.

Cable Length	Model Number*			
6 feet (1.8 meters)	RER-CBL-6			
12 feet (3.7 meters)	RER-CBL-12			
25 feet (7.5 meters)	RER-CBL-25			
*For cables for 5-Pin M12 connector, consult BOSS				



STANDARD SPECIFICATIONS (for valves on this page):

Supply Voltage/Current	15 – 24 volts DC/250 mA (required)		Body: Zinc		
Analog Monitor Signal:	Voltage: 0 – 10 volts DC@20 mA maximum		Dome: Zinc		
ranarog monitor orginali	Current: 4 – 20 mA sinking (sourcing optional)		Housing: Aluminum; powder coated		
Command Signal Impedance:	Voltage: 4.7 kQ	Construction Material	Manifold: Brass		
<u> </u>	Current: 100Q		Seals: Fluorocarbon		
Command Signal Voltage/Current:	0 – 10 volts DC/4 – 20 mA				
=	0 . 0 . 111	1	Transducer: Silicon, Aluminum		
Electrical Connector:	6-pin Brad Harrison or 5-pin M12		Valve: Nickel-plated Brass		
Temperature	Ambient/Media: 32° to 158°F (0° to 70°C)	Accuracy:	< ± .25% F.S.		
F1 1 1 8 4 1 1	` '	Linearity/Hysteresis:	< ± .2% F.S. BFSL		
Fluid Media	Compressed air	Repeatability:	< ± .0.6% F.S.		
Operating Pressure	Input: 29.9 in Hg to 300 psig (760 mm Hg to 21 bar)	nopoutubinty.	V=1000/01101		

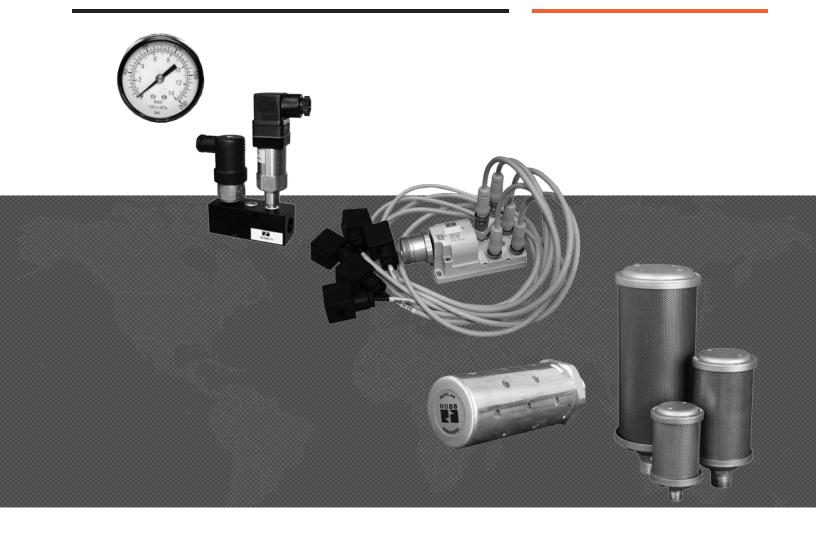








Accessories



ROSS CONTROLS



Silencers

SILENCERS									
Port Size	Thread Type	Model Number		Avg. C _v	Dimensions inches (mm)		Weight		
		NPT Threads	R/Rp Threads	Avy. U	Length	Width	lb (kg)		
1/8	Male	5500A1003	D5500A1003	1.2	0.9 (21)	2.0 (51)	0.1 (0.1)		
1/4	Male	5500A2003	D5500A2003	2.1	0.9 (21)	2.2 (55)	0.1 (0.1)		
3/8	Male	5500A3013	D5500A3013	2.7	0.9 (21)	2.2 (55)	0.1 (0.1)		
3/0	iviale	5500A3003	D5500A3003	4.3	1.3 (32)	3.5 (88)	0.2 (0.1)		
1/2	Male	5500A4003	D5500A4003	4.7	1.3 (32)	3.6 (91)	0.2 (0.1)		
3/4	Male	5500A5013	D5500A5013	5.1	1.3 (32)	3.6 (92)	0.2 (0.1)	-	
3/4	iviale	5500A5003	D5500A5003	11.5	2.0 (51)	5.3 (135)	0.6 (0.3)		
1	Male	5500A6003	D5500A6003	14.6	2.0 (51)	5.4 (138)	0.6 (0.3)		
11/4	Male	5500A7013	D5500A7013	16.4	2.0 (51)	5.5 (140)	0.6 (0.3)		
1 74	Female	5500A7001	D5500A7001	24	2.5 (64)	5.7 (144)	1.0 (0.5)		
1½	Female	5500A8001	D5500A8001	29.9	2.5 (64)	5.7 (144)	1.0 (0.5)		
2	Female	5500B9001	D5500B9001	34.2	3.0 (76)	6.6 (168)	1.5 (0.7)		
2½	Female	5500A9002	D5500A9002	103.7	4.0 (102)	5.7 (145)	2.9 (1.4)		
Pressure	Range: 0 to 29	90 psig (0 to 20 bar)	maximum. Flow M	edia: Filtere	d air.				



Port size 1/8 thru 2



Port size 21/2

Staiı	Stainless Steel SILENCERS									
Port	Thread	read Model Number Dimensions inches (mm)			nches (mm)	Weight	Otion			
Size	Type	NPT Threads	R/Rp Threads	Avg. C _v	Length	Length Width		Construction		
1/4	Male	5500B2004	D5500B2004	1.44	1.75 (44.5)	0.56 (14.2)	0.05 (0.23)	Stainless steel		
1/2	Male	5500B4004	D5500B4004	3.01	2.75 (69.7)	0.87 (22.1)	0.25 (0.11)	Stailless steel		
1	Male	5500B6004	D5500B6004	10.41	3.87 (98.3)	1.31 (33.3)	0.45 (0.20)	NPT - Stainless steel R - Nickel plated cold rolled steel		
2	Male	5500A9004	D5500A9004	28.11	5.50 (139.7)	2.37 (60.2)	1.5 (0.68)	Nickel plated cold rolled steel		
Supplier	d with a sta	andard nine thre	ad fitting for attac	hina dire	ctly to the exha	ust norts of air	r-operated equi	inment		

Supplied with a standard pipe thread fitting for attaching directly to the exhaust ports of air-operated equipment.

Pressure Range: 0 to 175 psig (0 to 12.3 bar) maximum. Flow Media: Filtered air.

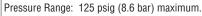
SILE	SILENCERS for Stainless Steel L-O-X® Air Entry Assemblies										
Port	Thread	Model I	Number	Avg. C _v	Dimensions	inches (mm)	Description				
Size	Type	NPT Threads	BSP Threads	Avg. o	Length	Width	Description				
1/4	Male	5500A2005	D5500A2005	1.5	1.50 (38)	0.67 (17)	Pressure Range:				
1/2	Male	5500A4005	D5500A4005	3.5	2.17 (55	0.94 (24)	0 to 125 psig (0 to 8.6 bar) maximum.				
1	Male	5500A6005	D5500A6005	5.7	2.95 (75)	1.41 (36)	Seals: Nitrile.				

-	Т	_]



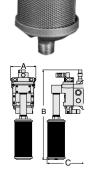


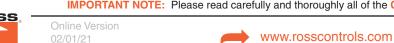
Noise-Re	Noise-Reduction SILENCERS for DM¹ & DM²® Series C Double Valves										
Valve Model	Basic	Kit Number*		Flow	Dimensions inches (mm)						
valve Mouel	Size	NPT Threads	R/Rp Threads	scfm	Α	B (NPT)	B (R)	C			
	2	2324H77	2329H77	800 (378)	4.34 (110.2)	19.06 (484.1)	21.40 (543.6)	7.27 (184.7)			
	4	2324H77	2329H77	800 (378)	4.34 (110.2)	19.06 (484.1)	21.40 (543.6)	7.27 (184.7)			
DM Series C	8	2325H77	2329H77	800 (378)	5.41 (137.4)	21.18 (538.0)	23.52 (597.4)	8.41 (213.6)			
001100 0	12	2326H77	2330H77	2080 (982)	6.74 (117.2)	25.85 (656.6)	28.20 (716.3)	10.66 (270.8)			
	30	2327H77	2331H77	7200 (3398)	9.85 (250.2)	41.55 (1055.4)	41.55 (1055.4)	13.47 (342.1)			

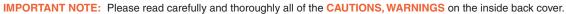


^{*} Kits include all plumbing required for installation.

Reduces the Exponentially Perceived Noise (EPNdB), Impact noise reduction in the 35–40 dB range Recommended for air exhaust applications for pressures up to 125 psig (8.6 bar) Pressure Range – 125 psig (8.6 bar) maximum







Silencers Electrical Connectors, Pressure Indicators

Pneumatic Valves Accessories

Noise-Re	Noise-Reduction SILENCERS for DM²® Series D Double Valves											
Valve	Thread	Kit Number*#	Flow	Dimensions	inches (mm)	Description						
Basic Size Type	Туре	KIL NUITIDET #	scfm	Height	Width	Description						
4	NPT	2324H77	800 (378)	19.1 (484)	4.4 (110)							
4	BSPT	2329H77	800 (378)	21.4 (544)	4.4 (110)							
8	NPT	2325H77	800 (378)	21.2 (538)	5.4 (138)	Reduces the Exponentially Perceived Noise (EPNdB),						
0	BSPT	2330H77	800 (378)	23.5 (598)	5.4 (138)	Impact noise reduction in the 35–40 dB range Recommended for air exhaust applications for						
10	NPT	2326H77	2080 (982)	25.9 (657)	6.8 (117)	pressures up to 125 psig (8.6 bar)						
12	BSPT	2331H77	2080 (982)	28.2 (716)	6.8 (117)	Pressure Range – 125 psig (8.6 bar) maximum						
30	NPT	2327H77	7000 (2200)	41.6 (1056)	0.0 (050)							
	BSPT	2332H77	7200 (3398)		9.9 (250)							



[#] Exhaust flange kit required, see below ordering information.

	Valve	Dort Circ	Kit Nu	ımber	
Exhaust Flange Kits for Noise Reduction Silencers	Basic Size	Port Size	NPT Threads	G Threads	
	4	1	726B25	D276B25	Head when installing pains reduction silenesses
	8	1	617B25	D617B25	Used when installing noise reduction silencers
	12	1½	619B25	D619B25	
	30	2½	621B25	D621B25	

Electrical CONNECTORS & CORD Sets

	EN 175301-803		_ u	Cord	Cord Type/				Model Numbe	r	<u>_</u>
Connection Type	Connect	Connector		Termination		Length meters	Cord Diameter	Without	Lighted Connector		Cord
	Option	Form	Fitting Connection	End 1	End 2	(feet)	Diameter	Light	24 V DC	120 V AC	0
			_	_	-	-	-	937K87	936K87-W	936K87-Z	-
	Connector Only	Α	1/2" NPT conduit	_	_	-	-	723K77	724K77-W	724K77-Z	-
		В	_	_	-	_	_	372K77	328K77-W	328K77-Z	-
		С						2452K77	2453K77-W	2453K77-Z	
		А		Connector	Flying leads	2 (6.5)	6-mm	721K77	720K77-W	720K77-Z	1
Solenoid							10-mm	371K77	383K77-W	383K77-Z	1
			_			5 (16.4)	_	2243H77	_	-	2
	Prewired Connector					10 (32.8)	ı	2244H77	_	_	2
	COMMECTOR	В	_	Connector	Flying leads	2 (6.5)	10-mm	266K77	267K77-W	267K77-Z	1
		С		Connector	nnector Flying leads	2 (6.5)	5-mm	_	2476K77-W	2476K77-Z	1
			_	Connector		3 (10)	8-mm	2449K77	2450K77-W	2450K77-Z	1







CAUTIONS: Do not use electrical connectors with surge suppressors, as this may increase valve response time when de-actuating the solenoids.

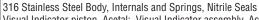
PRESSURE Indicators

. op op (110mm)	Model Number	Port Threads	May be installed on all valves with pressure sensing port. Provides a means to verify the release of downstream pressure to next
Indicator	988A30		obstruction.



	Model Number	Port	Dimensions	inches (mm)	Weight	Hexagon Nut +2.33 (
Stainless Steel	Model Nulliber	Threads	A	В	lb (kg)	1.2 (30.5) Across Flats
Visual Indicator	1155H30	1/8 NPT	2.33 (59.3)	1.00 (25.4)	0.22 (0.1)	Port

ht Hexagon Nut 1.2 (30.5)
Across Flats
Port 2.33 (59.3)
1.00 (25.4)



Visual Indicator piston, Acetal; Visual Indicator assembly, Acetal with acrylic lens

Status Indicator	Model Number	The Status Indicator pressure switch actuates when the valve is in a ready-to-run condition and de-actuates when the valve is in a lockout condition or when the inlet air pressure has	
Status illultatur	670B94	been removed.	





^{*} Kits include all plumbing required for installation.

PRESSURE SWITCHES For Verification Of Downstream Pressure Release

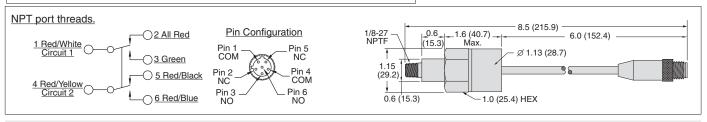
Pressure Switch Type	Connection Type	Model Number	Port Threads	EN Connector Pinout Normally Open	M12 Connector Pinout Pin 4 Pin 3	(4) E
Pressure Switches (Electrical)	EN 175301-803 Form A	586A86	1/8 NPT	Normally Common Closed 3	Normally Not Used Open Pin 2 Pin 1 Closed Common Closed	
for Energy Release Verification	Pressure Switch M12	1153A30	M10x1	Ground	M12 Connector Pinout	
Lifergy recease vermounon	Solid State Pressure Sensor M12	1335B30W	IVITUXT	<	Sensor	
Redundant Downstream Feedback Switch for Energy Release Verification	EN 175301-803 Form A	RC026-13	3/8 NPT		Pin 4 + Pin 2 Pin 3 Pin 3 Pin 4	
Tor Energy Horodoo Formoution				Factory preset, 5	psi (0.3) - falling	
May be installed on all valves with press	0 1					2

Provides means to verify the release of downstream pressure to next obstruction.

Stainless Steel	Inlet Port Size	Model Number	Weight lb (kg)	
Pressure Switch	1/8	1162A30	0.23 (.01)	

316 Stainless Steel Body, Nitrile Seals, DPDT (Double-Pole Double-Throw Switch Factory preset 5 psi (falling)





Digital PRESSURE TRANSDUCER For Digital Pressure Readout

				Description				
Digital Pressure	Threads	Model Number	Pressure Range psig (bar)	Electrical Output	Electrical Connection	Pressure Port Size/Type	Weight Ib (Kg)	
Transducer	NPT	760B94	0 (0) to	(1) PNP with	MO 4 D:-	1/8 NPT	0.099	
	G	D760B94	145 (10)	(1) 4-20ma	M8, 4 Pin	male	(0.045)	
	Analog 4-20mA Output, and Transistor Switching Output.							

Sensor Pinout with Analog Output



Wire Colors 1 - Brown - 24 VDC

- 2 White 4 to 20mA
- 3 Blue 0 VDC
- 4 Black PNP Open Collector Output 1





Pressure GAUGES

	Type/Material	Port Size	Model	Number	Pressure	Case	
			NPT Threads	G Threads	Range psig (bar)	Diameter inches (mm)	
	Standard Aluminum Liquid Filled Stainless Steel	1/8	5400A1002	D5400A1002	0-160 (0-11)	1.7 (43)	
Pressure Gauges (Center Back Mounting)		1/4	5400A2010	D5400A2010	0-60 (0-4)	2.0 (51)	
		1/4	5400A2011	D5400A2011	0-200 (0-14)	2.0 (51)	
		1/4	5400A2012	D5400A2012	0-300 (0-20)	2.0 (51)	
		1/4	5400A2014	D5400A2014	0-160 (0-11)	2.5 (64)	
-		1/4	5400A2015*	D5400A2015*	0-160 (0-11)	2.0 (51)	
	* Green shade be	tween 4	0-70 psi (2.7-4.8	B bar).			





Multiple Lock-out	Model
Device	356

Number For use with any ROSS model valve with L-0-X® capability. Allows use of multiple lockout devices on a single energy isolation device.



INDICATOR Light Kits for valves with Solenoid Controlled Pacer Pilot

Indicator Light Kits	
for 27 & 21 Series and	-
SV27 & SV27 PO Check Valves	

Kit Number					
24 volts DC	110-120 volts AC 50-60 Hz	220 volts 50-60 Hz			
862K87-W	862K87-Z	862K87-Y			





To visually verify valve operation indicator lights are available in kit form. The indicator light extends through the solenoid or pilot cover and is illuminated when the solenoid is energized. Such lights are standard on double solenoid valves. Indicator light kit is available for single solenoid models.

Manual Override	Flush Button				
	Locking Type	Kit Number			
Kits	Non-Locking	790K87			
	Locking	792K87			



Extended Button					
Locking Type	Kit Number				
Non-Locking	791K87				
Locking	_				



Extended Button with Palm				
Locking Type	Kit Number			
Non-Locking	984H87			
Locking	_			



Flush flexible manual overrides are standard on single solenoid models. Double solenoid models have flush metal-button overrides. Both types are non-locking. Each of the buttons in the override kits below is made of metal and is spring-returned. The locking type button, however, can be kept in the actuated position by turning the slot in the top of the button with a screwdriver.



Electrical Connectors

CONNECTORS & CORD Sets

				Cord				Model Number		Quantity
Connection Type	Connector Option	Connector Form	Fitting Connection	Type/Termination		Length meters (feet)	Cord Diameter	Without	Lighted Connector	d Qua
				End 1	End 2			Light	24 Volts DC	Cord
	Connector		_	_	_	_	_	937K87	936K87-W	_
		Form A	1/2" NPT conduit	_	_	_	1	723K77	724K77-W	-
Solenoid	Connector 17530			Connector		2 (6 5)	6-mm	721K77	720K77-W	1
Solellolu		EN 175301-803					10-mm	371K77	383K77-W	1
		Form A				5 (16.4)	-	2243H77	_	2
						10 (32.8)	_	2244H77	_	2
	ensor Prewired Connector 5-pin, straight A-coded		Female	Flying leads	5 (16.4)	-	2644B77	_	2	
Sensor			_	Female	Male	5 (16.4)	-	2645B77	-	2
				Female	Flying leads	10 (32.8)	ı	2370B77	_	2
				Female	Male	10 (32.8)	ı	2371B77	_	2



CAUTIONS: Do not use electrical connectors with surge suppressors, as this may increase valve response time when de-actuating the solenoids.



General Information

Approvals and Certifications

ROSS products are designed to meet a number of industrial standards, including the Canadian Standards Association (C.S.A.) guidelines.

For certifications or information and on specific product approvals, visit ROSS' website at wwwww.w.rosscontrols.com.

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CAUTIONS, WARNINGS And STANDARD WARRANTY

ROSS OPERATING VALVE, ROSS CONTROLS®, ROSS DECCO®, and AUTOMATIC VALVE INDUSTRIAL, collectively the "ROSS Group".

PRE-INSTALLATION or SERVICE

- 1. Before servicing a valve or other pneumatic component, be sure all sources of energy are turned off, the entire pneumatic system is shut down and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).
- 2. All ROSS Group Products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any product can be tampered with and/or need servicing after installation, persons responsible for the safety of others or the care of equipment must check ROSS Group Products on a regular basis and perform all necessary maintenance to ensure safe operating conditions.
- 3. All applicable instructions should be read and complied with before using any fluid power system to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS Group location.
- 4. Each ROSS Group Product should be used within its specification limits. In addition, use only ROSS Group components to repair ROSS Group Products.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

FILTRATION and LUBRICATION

- 1. Dirt, scale, moisture, etc., are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. The ROSS Group recommends a filter with a 5-micron rating for normal applications.
- 2. All standard ROSS Group filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition and hazardous leakage. Immediately replace crazed, cracked, or deteriorated bowls.
- Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum base oils with oxidation inhibitors, an aniline

point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks personal injury, and/or damage to property.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

AVOID INTAKE/EXHAUST RESTRICTION

- 1. Do not restrict air flow in the supply line. To do so could reduce the pressure of the supply air below minimum requirements for the valve and thereby causing erratic action.
- 2. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

SAFETY APPLICATIONS

- 1. Mechanical Power Presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
- 2. Safety exhaust (dump) valves without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All safety exhaust valve installations should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
- 3. Per specifications and regulations, the ROSS L-O-X® and L-O-X® with EEZ-ON®, N06 and N16 Series operation products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

STANDARD WARRANTY

All products sold by the ROSS Group are warranted for a one-year period [with the exception of Filters, Regulators and Lubricators ("FRLs") which are warranted for a period of seven (7) years] from the date of purchase. All products are, during their respective warranty periods,

warranted to be free of defects in material and workmanship. The ROSS Group's obligation under this warranty is limited to repair, replacement or refund of the purchase price paid for products which the ROSS Group has determined, in its sole discretion, are defective. All warranties become void if a product has been subject to misuse, misapplication, improper maintenance, modification or tampering. Products for which warranty protection is sought must be returned to the ROSS Group freight prepaid.

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