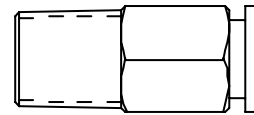
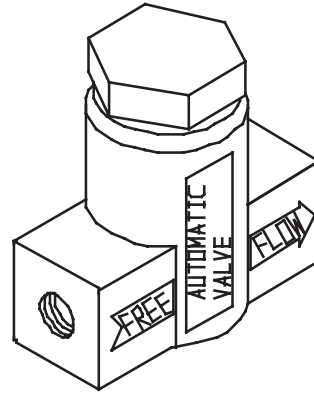
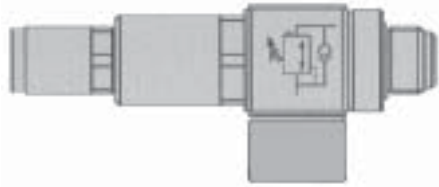


ISO 9001
AV **AUTOMATIC**
VALVE



ACCESSORIES



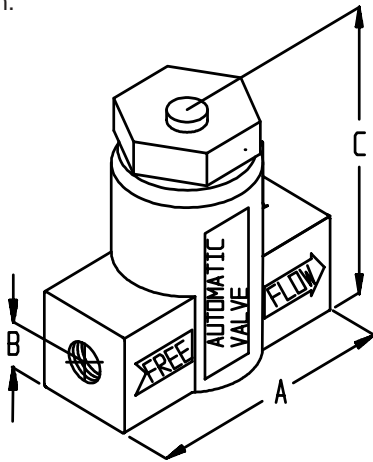
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
IN-LINE MOUNTED FLOW CONTROL VALVES

DESIGN FEATURES

- Allows free flow of air in one direction and adjustable flow in the opposite direction.
- Piped between valve and cylinder.
- High flow, accurate adjustment. Tamper proof locking screw standard.
- Self-cleansing poppet eliminates sediment accumulation.



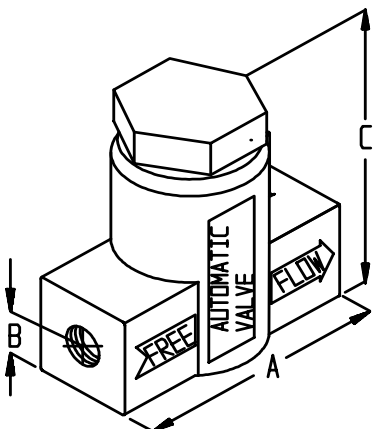
MODEL NUMBERS AND DIMENSIONAL INFORMATION

SERIES	PORT SIZE	Cv (l/min)	 MODEL NUMBER	Kg (LB)	Top - mm, Bottom - inches		
					A	B	C
MS2	1/4	1.64 (1830)	200A-2	.23 (.50)	73,2 2.88	14,2 .56	85,6 3.37
	3/8	1.86 (1830)	200A-3	.23 (.50)	73,2 2.88	14,2 .56	85,6 3.37
1/2	2.50 (2460)	200A-35					
MS7	3/4	4.90 (4820)	200C-7	.56 (1.25)	102 4.00	44,5 1.75	135 5.31
	1	5.00 (4920)	200C-71				
MS8	1	13.20 (12990)	200A-10	1.81 (4.00)	140 5.50	39,6 1.56	208 8.18
	1 1/4	15.20 (14960)	200A-12				
	1 1/2	17.00 (16730)	200A-15				


IN-LINE MOUNTED CHECK VALVES

DESIGN FEATURES

- Allows low cracking pressure and full area free flow of air in one direction and instantaneous shut-off in the reverse direction.
- Self-cleansing poppet eliminates sediment accumulation.



MODEL NUMBERS AND DIMENSIONAL INFORMATION

SERIES	PORT SIZE	Cv (l/min)	CRACKING PRESSURE	 MODEL NUMBER	Kg (LB)	Top - mm, Bottom - inches		
						A	B	C
MC3	1/4	2.38 (2340)	.50 PSIG	203A-2	.23 (.50)	73,2 2.88	14,2 .56	65,8 2.59
	3/8	2.71 (2670)		203A-3				
	1/2	3.64 (3580)		203A-35				
MC7	3/4	5.29 (5210)	6.75 PSIG	203A-7	.56 (1.25)	102 4.00	44,5 1.75	95,2 3.75
	1	6.00 (5900)		203A-71				
MC8	1	15.80 (15550)	3.00 PSIG	203A-10	1.63 (3.62)	140 5.50	39,6 1.56	142 5.56
	1 1/4	18.20 (17910)		203A-12				
	1 1/2	19.00 (18700)		203A-15				

QUICK EXHAUST, CHECK AND SHUTTLE VALVES

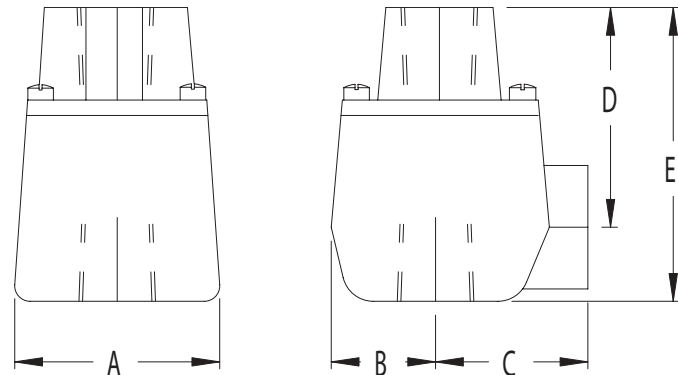
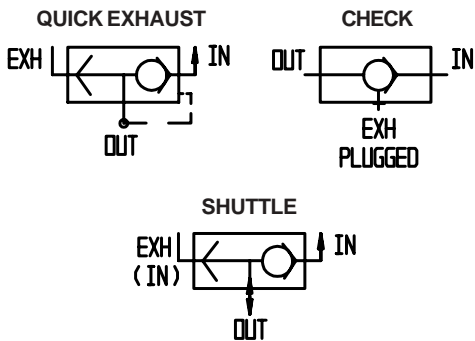
DESIGN FEATURES

- One model does all three functions.
- Rugged internal construction outlasts and outperforms competition.
- **Quick Exhaust Valve:** When **IN** is pressurized, flow is from **IN** to **OUT** with **EXH** blocked. When **OUT** is pressurized, flow is from **OUT** to **EXH** with **IN** blocked.
- **Check Valve:** Free flow from **IN** to **OUT** with **EXH** plugged. No flow from **OUT** to **IN** with **EXH** plugged.
- **Shuttle Valve:** When **IN** is pressurized, flow is from **IN** to **OUT** with **EXH** blocked. When **EXH** is pressurized, flow is from **EXH** to **OUT** with **IN** blocked.

MODEL NUMBERS

SERIES	PORT SIZE NPTF		Cv (l/min)	PRESSURE PSIG (BAR)		MODEL NUMBER	Kg (LB)
	IN, OUT	EXH		MIN	MAX		
MQ1	10-32	10-32	.1 (100)	3 (.2)	125 (8.5)	370A-11	.01 (.02)
MQ2	1/8	1/4	.72 (790)	4 (.3)	150 (10.7)	370A-21	.08 (.17)
	1/4	1/4	.97 (890)			370A-22	.07 (.16)
MQ3	1/4	3/8	1.44 (1870)	3 (.2)	150 (10.7)	370A-32	.14 (.31)
	3/8	3/8	1.48 (21600)			370A-33	.29 (.63)
MQ7	1/2	3/4	2.9 (2560)	1 (.1)	150 (10.7)	370A-75	.45 (.99)
	3/4	3/4	4.1 (2850)			370A-77	.41 (.90)

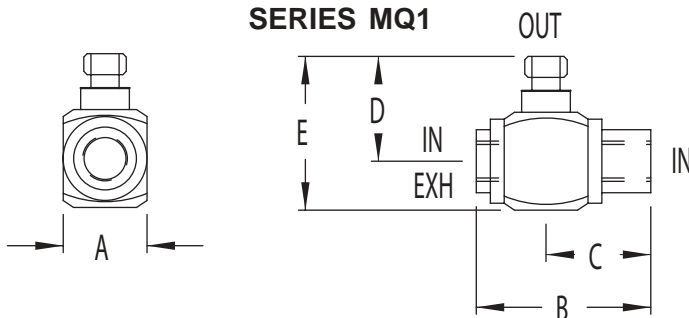
SERIES MQ2, MQ3, MQ7



DIMENSIONAL INFORMATION

SERIES	MODEL NUMBER	A	B	C	D	E
MQ1	370A-11	9.6 .38	20.0 .78	11.9 .47	11.9 .47	16.8 .66
	370A-21 370A-22	27.7 1.09	13.9 .55	20.5 .81	30.9 1.22	42.4 1.67
MQ3	370A-32 370A-33	38.1 1.50	21.1 .83	31.8 1.25	45.2 1.78	60.4 2.38
	MQ7	370A-75 370A-77	55.4 2.18	28.9 1.14	45.9 1.81	70.6 2.78

SERIES MQ1



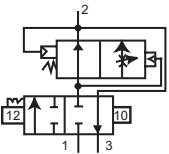
Units of Measure: Top - mm, Bottom - inches

LOCKOUT VALVES

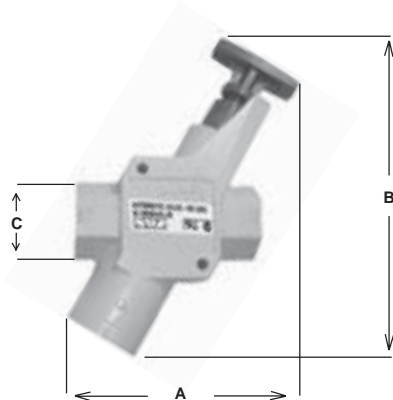
DESIGN FEATURES

- 3 way 2 position valve.
- Short stroke for quick response.
- Padlockable in the closed position.
- Bright red handle for visibility.
- When handle is pulled outward, inlet port 1 is connected to outlet port 2 and exhaust port 3 is blocked.
- When handle is pushed inward, inlet port 1 is blocked and outlet port 2 is connected to exhaust port 3.
- These products are defined as energy isolation devices, NOT AN EMERGENCY STOP DEVICE.

MODEL NUMBERS

SERIES	PORT SIZE	Cv (l/min)	3/2 NO	BODY MATERIAL	SEAL MATERIAL	Kg (LB)
						
			DETENT			
N06	3/8	4.0 (3940)	N0604HALM	ALUMINUM	NBR	,7 (1.5)
	1/2	4.5 (4430)	N0605HALM			
	3/4	5.6 (5510)	N0606HALM			
N16	3/4	13.0 (12790)	N1606HALM	ALUMINUM	NBR	1,5 (3.3)
	1	13.7 (13480)	N1607HALM			
	1 1/2	16.0 (15740)	N1609HALM			

TO ADD SOFT START FEATURE - ADD "SS" TO THE MODEL NUMBER



DIMENSIONAL INFORMATION

SERIES	A	B	C
N06	163	224	51
	6.4	8.8	2.0
N16	196	274	58
	7.7	10.8	2.3

MUFFLERS

MODEL NUMBER	PIPE SIZE	Cv (l/min)	WEIGHT g (OZ)	HEX SIZE mm (IN)	LENGTH mm (IN)
--------------	-----------	------------	---------------	------------------	----------------

DESIGN FEATURES

- Reduces exhaust noise level in air systems.
- Maintains full volume air flow with minimum back pressure.
- Threads into exhaust port.



SERIES 84C EXHAUST MUFFLER

84C-1	1/8	1.30 (1160)	11 (.4)	11,1 (7/16)	34,9 (1.38)
84C-2	1/4	2.30 (2060)	20 (.7)	14,3 (9/16)	44,5 (1.75)
84C-3	3/8	4.90 (4380)	37 (1)	17,5 (1 1/16)	57,3 (2.25)
84C-5	1/2	6.80 (6080)	57 (2)	22,2 (7/8)	69,0 (2.72)
84C-7	3/4	14.00 (15520)	142 (5)	17,5 (11/16)	80,3 (3.16)
84C-10	1	18.00 (16090)	227 (8)	20,6 (13/16)	98,4 (3.88)
84C-12	1 1/4	23.60 (21100)	397 (14)	42,9 (1 11/16)	114 (4.50)
84C-15	1 1/2	39.00 (34870)	539 (19)	50,8 (2)	127 (5.00)

- Reduces exhaust noise level in air systems.
- Sintered bronze bonded to a copper plated male pipe fitting.
- Corrosion resistant.
- Cleanable 40 micron filter element.



SERIES 84D SINTERED EXHAUST MUFFLER

A7007-010	10-32	.17 (150)	-	6,3 (1/4)	8,6 (.34)
84D-1	1/8	.70 (630)	9 (.3)	11,1 (7/16)	28,6 (1.12)
84D-2	1/4	1.40 (1250)	17 (.6)	14,3 (9/16)	34,9 (1.37)
84D-3	3/8	1.90 (1700)	29 (1.0)	17,5 (11/16)	38,1 (1.50)
84D-5	1/2	3.80 (3400)	40 (1.4)	22,2 (7/8)	47,6 (1.88)
84D-7	3/4	6.50 (5810)	74 (2.6)	27,0 (1 1/16)	57,2 (2.25)
84D-10	1	10.50 (9390)	143 (5.1)	33,3 (1 5/16)	73,0 (2.88)

- Reduces exhaust noise level in air systems.
- Allows adjustment of exhaust air flow to accurately control cylinder speeds.
- Corrosion resistant.
- Cleanable 40 micron filter element.



SERIES 266B EXHAUST RESTRICTOR/SINTERED MUFFLER

266B-1	1/8	1.20 (1070)	19,8 (0.7)	11,1 (7/16)	37,3 (1.47)
266B-2	1/4	1.30 (1160)	25,5 (0.9)	14,3 (9/16)	55,9 (2.20)
266B-3	3/8	2.00 (1790)	39,7 (1.4)	17,5 (11/16)	63,0 (2.48)
266B-5	1/2	3/70 (3310)	74 (2.6)	22,2 (7/8)	85,1 (3.35)
266B-7	3/4	5.90 (5270)	122 (4.3)	27,0 (1 1/16)	93,5 (3.68)
266B-10	1	6.80 (6080)	292 (10.3)	33,3 (1 5/16)	126,2 (4.97)

FITTINGS

DESIGN FEATURES

- Push-in plastic or soft metal tubing for instant connection; hold down insert for instant tubing release.
- Allows leak-free, full flow operation with no internal restriction.
- Brass construction.
- Teflon sealant pre-applied to threads.
- Internal hex aids installation.



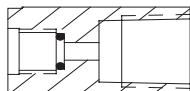
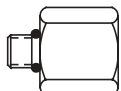
- Push-in plastic or soft metal tubing for instant connection; hold down insert for instant tubing release.
- Allows leak-free, full flow operation with no internal restriction.
- Teflon sealant pre-applied to threads.



- Threads into cylinder port for accurate speed control with lockable settings and push-in tube connection.
- Allows full flow into cylinder and controlled flow out.
- Brass and plastic construction.
- Teflon sealant pre-applied to threads.



- Threads into solenoid exhaust ports for external plumbing of solenoid exhaust.
- Brass and plastic construction.



PUSH-IN TUBE FITTINGS - STRAIGHT

MODEL NUMBER	THREAD NPFT	TUBE OD SIZE	EXTERNAL HEX	INTERNAL HEX	LENGTH mm (IN)
0880-123	1/8	1/4	7/16	3/16	27,0 (1.06)
0880-133	1/4	1/4	9/16	3/16	27,0 (1.06)
0880-134	1/4	3/8	9/16	5/16	32, (1.26)

PUSH-IN TUBE FITTINGS - SWIVEL

MODEL NUMBER	THREAD NPFT	TUBE OD SIZE	EXTERNAL HEX	HEIGHT mm (IN)	LENGTH mm (IN)
ELBOW					
0880-221	1/8	5/32	1/2	20,7 (.81)	26,7 (1.05)
0880-223	1/8	1/4	1/2	26,5 (1/04)	28,7 (1.13)
0880-233	1/4	1/4	9/16	26,5 (1.04)	33,7 (1.33)
0880-234	1/4	3/8	5/8	28,0 (1.10)	36,7 (1.45)
FLOW CONTROL					
0880-323	1/8	1/4	9/16	63,0 (2.48)	39,4 (1.55)
0880-333	1/4	1/4	5/8	66,3 (2.61)	39,0 (1.52)
0880-334	1/4	3/8	5/8	66,3 (2.61)	43,1 (1.70)
0880-344	3/8	3/8	7/8	72,0 (2.83)	52,6 (2.07)

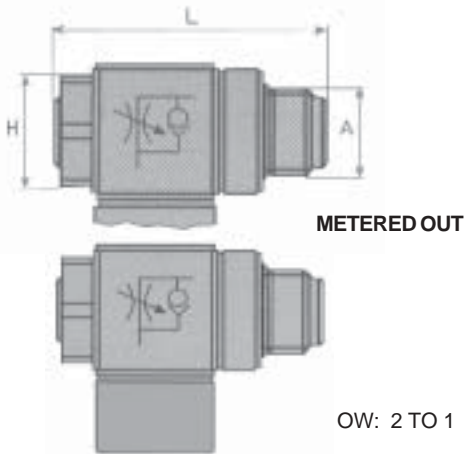
FITTINGS

MODEL NUMBER	MALE THREAD	FEMALE THREAD	EXTERNAL HEX	LENGTH mm (IN)
MALE TO FEMALE				
A5983-101	5/16 -18	1/8	11/16	28,6 (1.13)
A5983-102	5/16 -18	1/4	11/16	28,6 (1.13)
A7007-015	M5	1/8	1/2	19,1 (.75)
FEMALE TO FEMALE				
A8014-004	-	1/8	5/8	22,2 (.88)
A5239-012	-	1/8	5/16	20,6 (.81)

PNEUMATIC ACCESSORIES

- Media: Compressed air or inert gas, lubricated or non-lubricated.
- Seals: NBR
- Springs and Bodies: Stainless steel.
- Internals: Brass and zinc plated brass.

- Plastic Parts: PA.
- Pressure Range: 100 kPa - 1035 kPa [(15 psi - 150 psi), (1 BAR - 10 BAR)]. Note: soft start = 310 kPa - 1035 kPa [(45 psi - 150 psi), (3 BAR - 10 BAR)].
- Temperature Range: -7°C to 65°C (20°F - 150°F).

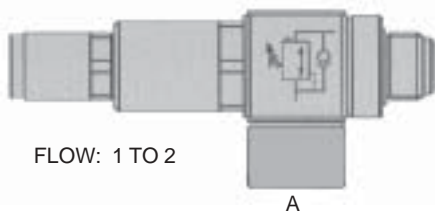


RIGHT ANGLE FLOW (RAF) CONTROL FEATURES

- Eliminates at least one fitting.
- Efficient control of air at source.
- Locks in place once cylinder speed is set.

SIZE	1/8	1/4	3/8	1/2
SCFM	6.53	12.02	34.52	50.25

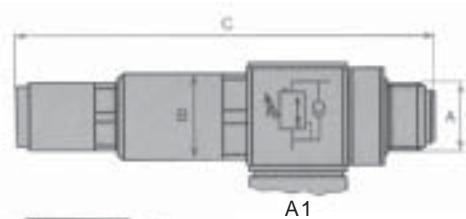
MODEL NUMBER AND DIMENSIONS			
MODEL NUMBER	A PORT SIZE	H mm (Inches)	L mm (Inches)
A7209-100	1/4 NPT	41 (1.62)	19 (.75)
A7209-101	3/8 NPT	47 (1.85)	23 (.91)
A7209-102	1/4 BSPP	41 (1.62)	19 (.75)
A7209-103	3/8 O.D. TUBE FITTING	47 (1.85)	23 (.91)



FLOW: 1 TO 2

PORT MOUNTED REGULATOR (PMR) FEATURES

- Return flow equals regulated flow, self-relieving.
- Incorporates by-pass check.
- Proven payback with point of use air reductions.



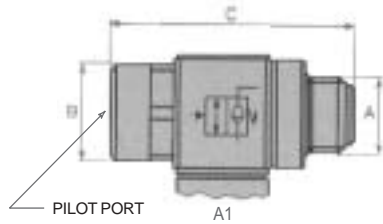
A1

MODEL NUMBER AND DIMENSIONS				
MODEL NUMBER	A PORT SIZE	B mm (Inches)	C mm (Inches)	A1
A7209-110	1/4 NPT	17 (.69)	81 (3.18)	1/4 NPT
A7209-111	3/8 NPT	22 (.86)	88 (3.46)	3/8 NPT
A7209-112	1/4 BSPP	17 (.69)	81 (3.18)	1/4 BSPP
A7209-113	3/8 O.D. TUBE FITTING	22 (.86)	88 (3.46)	3/8 NPT

Operating pressure Primary: 1-16 BAR (15 - 235 PSIG)

PNEUMATIC ACCESSORIES

PILOT OPERATED CHECK (POC) VALVE FEATURES



- Stops flow on loss of air.
- Eliminates at least one fitting.

PORT 1 TO 2 (P12 = 90 psi)				
SIZE	1/8	1/4	3/8	1/2
SCFM	4.53	21.78	41.25	66.65

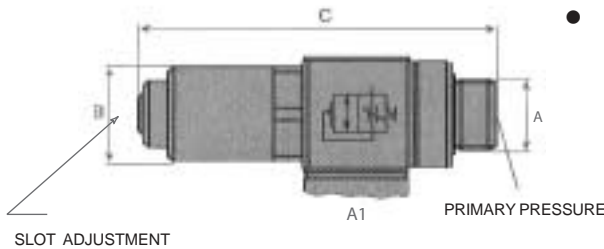
PORT 2 TO 1 (P12 = 0 psi)				
SIZE	1/8	1/4	3/8	1/2
SCFM	10.22	23.89	40.81	67.43

MODEL NUMBER AND DIMENSIONS					
MODEL NUMBER	A PORT SIZE	B mm (Inches)	C mm (Inches)	PILOT* PORT	A1
A7209-120	1/4 NPT	17 (.69)	42 (1.88)	10-32 UNF	1/4 NPT
A7209-121	3/8 NPT	22 (.86)	55 (2.16)	10-32 UNF	3/8 NPT
A7209-122	1/4 BSPP	17 (.69)	42 (1.88)	M5	1/4 BSPP
A7209-123	3/8 O.D. TUBE FITTING	22 (.86)	55 (2.16)	10-32 UNF	3/8 NPT

* 1/8 AVAILABLE BY SPECIAL ORDER
 Operating Pressure: 1-10 BAR (15 - 150 PSIG)

SOFT START FEATURES

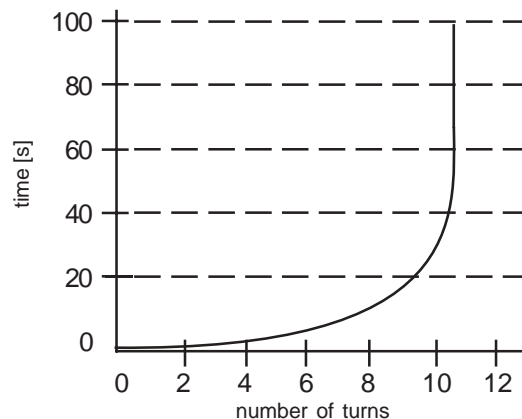
- Delays full flow based on number of turns of set screw.
- Prevents cylinders/loads from rapid extension at start up.



SIZE	1/8	1/4	3/8	1/2
SCFM	28.3	36.7	61.8	61.8

MODEL NUMBER AND DIMENSIONS				
MODEL NUMBER	A PORT SIZE	B mm (Inches)	C mm (Inches)	A1
A7209-130	1/4 NPT	17 (.69)	63 (2.48)	1/4 NPT
A7209-131	3/8 NPT	22 (.86)	69 (2.72)	3/8 NPT
A7209-132	1/4 BSPP	17 (.69)	63 (2.48)	1/4 BSPP
A7209-133	3/8 O.D. TUBE FITTING	22 (.86)	69 (2.40)	3/8 NPT

Operating Pressure: 3-10 BAR (45 - 150 PSIG)



NOTES