

ASCO™ Manual Reset Valves

Brass or Stainless Steel Bodies • 1/4" to 1" NPT • Universal Operation • Manual Reset

**3/2, 4/2
Series**
8037/8308/8310
8047/8408/8410

Features

- High flow/high-pressure bodies with manual reset to prevent inadvertent valve start-up
- Once tripped, can only be manually reset
- Electrically Tripped (trips when energized), No Voltage Release (trips when de-energized), or Free Handle constructions
- Available for Latched Open or Latched Closed operation
- Ideal for controlling critical processes
- Some constructions can control aggressive fluids, including steam
- Intrinsically Safe constructions are available



Construction

Valve Parts in Contact with Fluids		
Body	Brass	Stainless Steel
Stem	303 Stainless Steel	
Springs	302 Stainless Steel	
Pilot Seat Cartridge	CA (when listed)	
Disc, Diaphragm, Seat	NBR, PA, PTFE, or Stainless Steel, as listed	

Electrical

Standard Coil and Class of Insulation	Watt Rating and Power Consumption				Spare Coil Part Number	
	DC Watts	AC			AC	AC
		Watts	VA Holding	VA Inrush		
F	-	20	45	96	272610	-
H	30.8	-	-	-	-	501695

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz. 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages are available when required.

Notes: 125 and 250 volts DC are battery voltages applied in power plants. Special valves are available to pilot control valves in power plants.

Consult your local ASCO sales office for a listing.

Solenoid Enclosures

Standard: Watertight, Types 1, 2, 3, 3S, 4, and 4X.

Optional: Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9.

Nominal Ambient Temp. Ranges

AC: -20F to 104F (-29C to 40C)

DC: -20F to 140F (-29C to 60C)

Refer to Engineering Section for details.

Approvals

CSA certified. Some constructions meet shock and vibration ISA S71.03C2.

Refer to Engineering Section for details.

Operation Alternatives

Electrically Tripped – Valves move to latched position when the solenoid is de-energized, trips when they receive a continuous or momentary (at least 0.3 seconds) electrical signal. When tripped, they can be manually cycled open/closed, but must be reset when the solenoid has once again been de-energized.

No Voltage Release – Valves move to latched position when the solenoid is energized, trips when de-energized. When tripped, they can be manually cycled open/closed, but must be reset when the solenoid has once again been energized.

Free Handle – Valves move to latched position when the solenoid is energized, trips when de-energized. They cannot be manually cycled open/closed when de-energized. They can be manually cycled open/ closed or reset only when energized.

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Specifications (English units)

Pipe Size (in)	Orifice Size (in)	Cv Flow Factor	Operating Pressure Differential (psi)			Max. Fluid Temp. °F		No Voltage Release	Electrically Tripped	Const. Ref.	Flow Diagram	Watt Rating/ Class of Coil Insulation	
			Min.	Max. AC	Max. DC	AC	DC	Catalog Number	Catalog Number			AC	DC
3/2 UNIVERSAL OPERATION (Except as Noted Ⓞ), Brass Body with NBR Disc/Diaphragm (CA Pilot Cartridge) for Air-Inert Gas and Water. This group of valves meets shock and vibration ISA S71.03C2.													
1/4	11/64	0.38	0	125	125	180	180	8308G040	8310G040	1	B	20/F	30.8/H
3/8	5/8	3	10	250	250	180	180	8308G041ⓄⓄ	8310G041ⓄⓄ	2	C	20/F	30.8/H
1/2	5/8	4	10	250	250	180	180	8308G042ⓄⓄ	8310G042ⓄⓄ	2	C	20/F	30.8/H
3/4	11/16	5.5	10	250	250	180	180	8308G043ⓄⓄ	8310G043ⓄⓄ	3	C	20/F	30.8/H
1	1	13	10	125	125	180	180	8308G050ⓄⓄ	8310G050ⓄⓄ	5	C	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with Stainless Steel Seats and Discs for Air-Inert Gas, Water and Light Oil													
1/4	1/4	0.45	0	125	125	200	200	8308G044	8310G044	4	A	20/F	30.8/H
3/8	1/4	0.45	0	125	125	200	200	8308G045	8310G045	4	A	20/F	30.8/H
1/2	5/16	0.75	0	125	125	200	200	8308G046	8310G046	4	A	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with NBR Seats and PA Discs for Air-Inert Gas, Water and Light Oil													
1/4	1/4	0.39	0	125	125	180	180	8308G044R	8310G044R	4	A	20/F	30.8/H
3/8	1/4	0.39	0	125	125	180	180	8308G045R	8310G045R	4	A	20/F	30.8/H
1/2	5/16	0.53	0	125	125	180	180	8308G046R	8310G046R	4	A	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	1/8	0.21	0	125	125	180	180	8308G011	8310G011	1	B	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with Stainless Steel Seats and Discs for Corrosive Service													
1/2	5/16	0.75	0	125	125	200	200	8308G047	8310G047	4	A	20/F	30.8/H
Free Handle Construction													
3/2 UNIVERSAL OPERATION, Brass Body with NBR Discs for Air-Inert Gas and Water													
1/4	11/64	0.38	0	125	125	180	180	8037G014		6	D	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with PTFE Seats and FKM Discs for Air-Inert Gas, Water and Light Oil													
1/4	3/16	0.70	0	125	125	160	160	8037G008Ⓞ		7	E	20/F	30.8/H
3/8	3/16	0.70	0	125	125	160	160	8037G010Ⓞ		7	E	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	1/8	0.21	0	125	125	180	180	8037G012		6	D	20/F	30.8/H
4/2 BRASS BODY with PTFE + FKM Seats and Discs for Air and Inert Gas													
1/4	3/16	0.70	0	250	250	160	160	8408G006	8410G006	8	-	20/F	30.8/H
3/8	3/16	0.70	0	250	250	160	160	8408G007	8410G007	8	-	20/F	30.8/H
4/2 BRASS BODY with NBR Seats and Discs (CA Pilot Cartridge) for Air, Inert Gas, Water, and Light Oil. This group of valves meets shock and vibration ISA S71.03C2.													
1/2	3/8	2.2	10	250	250	200	200	8408G008Ⓞ	8410G008Ⓞ	9	-	20/F	30.8/H
3/4	3/4	5.6	10	250	250	200	200	8408G009Ⓞ	8410G009Ⓞ	10	-	20/F	30.8/H
1	3/4	5.6	10	250	250	200	200	8408G010Ⓞ	8410G010Ⓞ	10	-	20/F	30.8/H

Ⓞ When ordering, specify suffix "F" for Normally Closed construction or Suffix "G" for Normally Open construction.

Ⓞ Supplied with CA pilot cartridge.

Ⓞ A Minimum Operating Pressure Differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and other similar components must be installed in the cylinder lines only.

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Specifications (Metric units)

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m ³ /h)	Operating Pressure Differential (bar)			Max. Fluid Temp. °C		No Voltage Release	Electrically Tripped	Const. Ref.	Flow Diagram	Watt Rating/Class of Coil Insulation	
			Min.	Max. AC	Max. DC	AC	DC	Catalog Number	Catalog Number			AC	DC
3/2 UNIVERSAL OPERATION (Except as Noted ①), Brass Body with NBR Disc/Diaphragm (CA Pilot Cartridge) for Air-Inert Gas and Water. This group of valves meets shock and vibration ISA S71.03C2.													
1/4	4	0.33	0.0	9	9	82	82	8308G040	8310G040	1	B	20/F	30.8/H
3/8	16	2.57	0.7	17	17	82	82	8308G041①②	8310G041①②	2	C	20/F	30.8/H
1/2	16	3.43	0.7	17	17	82	82	8308G042①②	8310G042①②	2	C	20/F	30.8/H
3/4	17	4.71	0.7	17	17	82	82	8308G043①②	8310G043①②	3	C	20/F	30.8/H
1	25	11.14	0.7	9	9	82	82	8308G050①②	8310G050①②	5	C	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with Stainless Steel Seats and Discs for Air-Inert Gas, Water and Light Oil													
1/4	6	0.39	0	9	9	93	93	8308G044	8310G044	4	A	20/F	30.8/H
3/8	6	0.39	0	9	9	93	93	8308G045	8310G045	4	A	20/F	30.8/H
1/2	8	0.64	0	9	9	93	93	8308G046	8310G046	4	A	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with NBR Seats and PA Discs for Air-Inert Gas, Water and Light Oil													
1/4	6	0.33	0	9	9	82	82	8308G044R	8310G044R	4	A	20/F	30.8/H
3/8	6	0.33	0	9	9	82	82	8308G045R	8310G045R	4	A	20/F	30.8/H
1/2	8	0.45	0	9	9	82	82	8308G046R	8310G046R	4	A	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	8	0.18	0	9	9	82	82	8308G011	8310G011	1	B	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with Stainless Steel Seats and Discs for Corrosive Service													
1/2	8	0.64	0	9	9	93	93	8308G047	8310G047	4	A	20/F	30.8/H
Free Handle Construction													
3/2 UNIVERSAL OPERATION, Brass Body with NBR Discs for Air-Inert Gas and Water													
1/4	4	0.33	0	9	9	82	82	8037G014		6	D	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Brass Body with PTFE Seats and FKM Discs for Air-Inert Gas, Water and Light Oil													
1/4	5	0.60	0	9	9	71	71	8037G008①		7	E	20/F	30.8/H
3/8	5	0.60	0	9	9	71	71	8037G010①		7	E	20/F	30.8/H
3/2 UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	3	0.18	0	9	9	82	82	8037G012		6	D	20/F	30.8/H
4/2 BRASS BODY with PTFE + FKM Seats and Discs for Air and Inert Gas													
1/4	5	0.60	0	17	17	71	71	8408G006	8410G006	8	-	20/F	30.8/H
3/8	5	0.60	0	17	17	71	71	8408G007	8410G007	8	-	20/F	30.8/H
4/2 BRASS BODY with NBR Seats and Discs (CA Pilot Cartridge) for Air, Inert Gas, Water, and Light Oil. This group of valves meets shock and vibration ISA S71.03C2.													
1/2	10	1.89	0.7	17	17	93	93	8408G008③	8410G008③	9	-	20/F	30.8/H
3/4	19	4.80	0.7	17	17	93	93	8408G009③	8410G009③	10	-	20/F	30.8/H
1	19	4.80	0.7	17	17	93	93	8408G010③	8410G010③	10	-	20/F	30.8/H

① When ordering, specify suffix "F" for Normally Closed construction or Suffix "G" for Normally Open construction.

② Supplied with CA pilot cartridge.

③ A Minimum Operating Pressure Differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and other similar components must be installed in the cylinder lines only.

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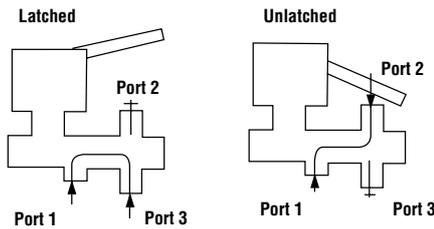
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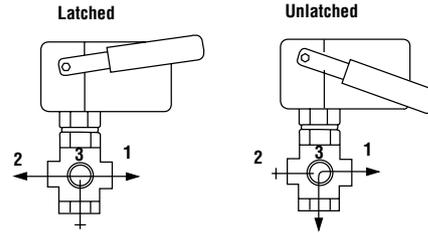
Flow Diagrams

Electrically Tripped and No Voltage Release Constructions

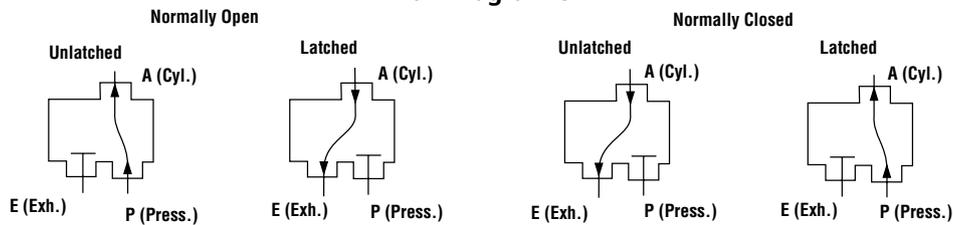
Flow Diagram A



Flow Diagram B

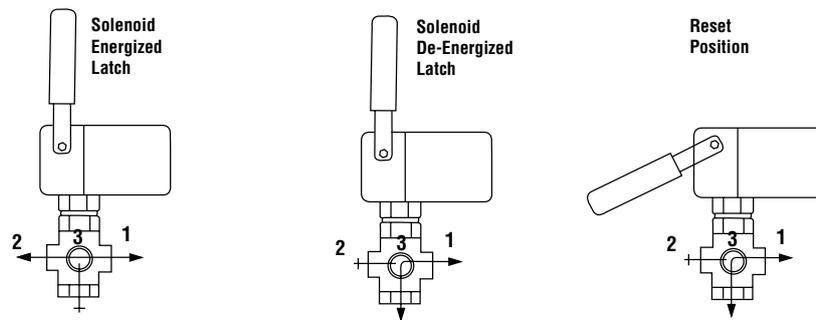


Flow Diagram C

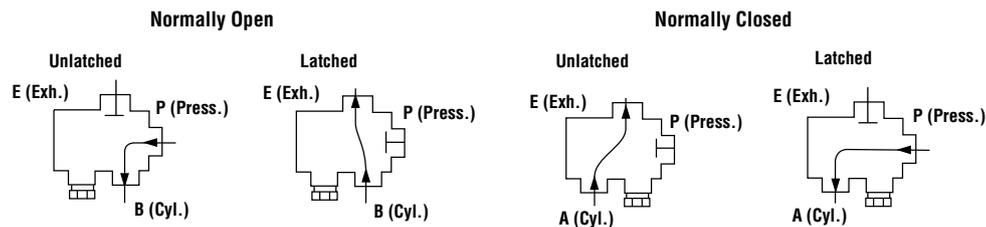


Free Handle Construction

Flow Diagram D



Flow Diagram E



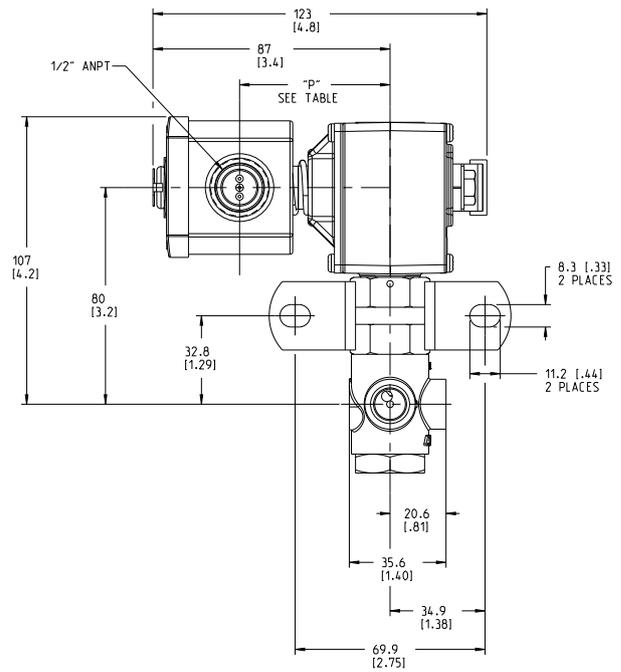
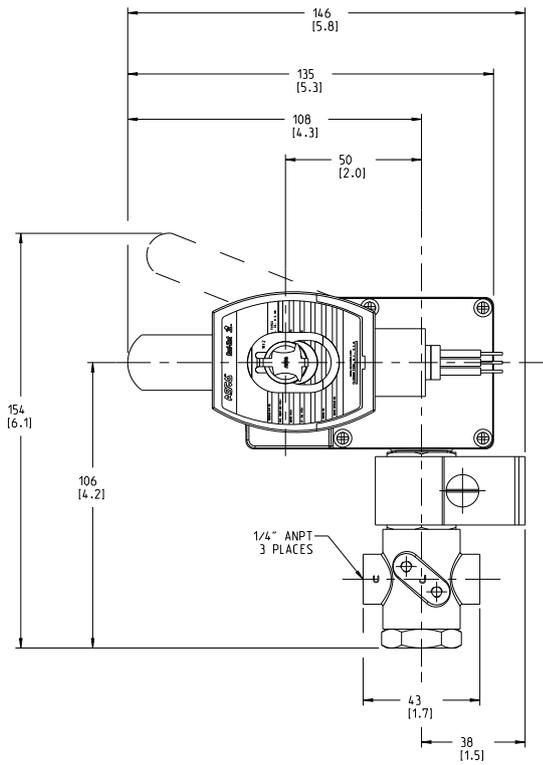
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Dimensions: mm (inches)

Const. Ref. 1



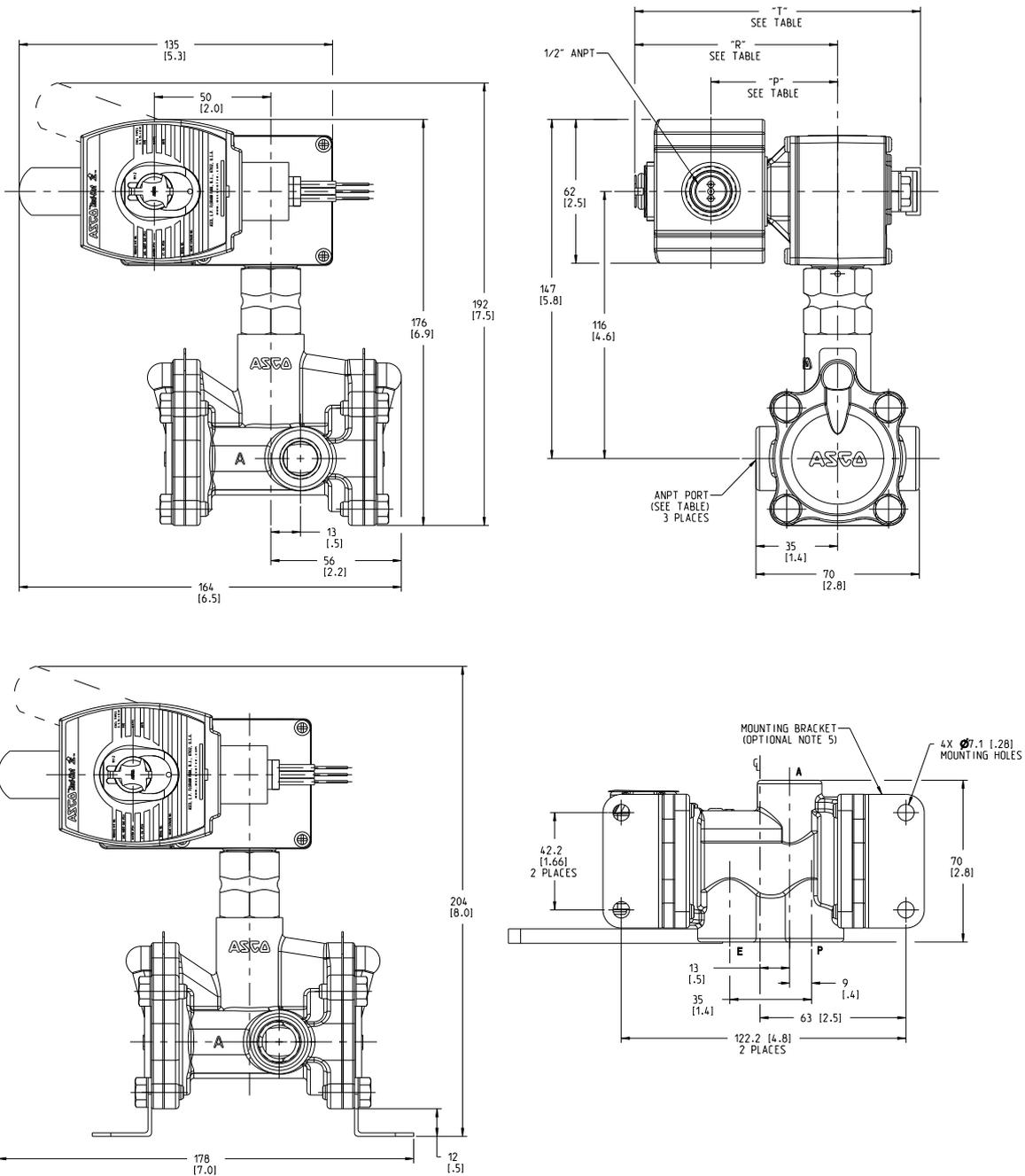
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Dimensions: mm (inches)

Const. Ref. 2



ANPT	Valve Operation	Movement Construction	P	R	T	Catalog Number
1/2"	Normally Open	Electrically Tripped (TSO)	58 [2.2]	87 [3.4]	123 [4.8]	8310G042G
3/8"						8310G041G
1/2"	Normally Closed		54 [2.1]	87 [3.4]	123 [4.8]	8310G042F
3/8"						8310G041F
1/2"	Normally Open	No Voltage Released (NVR)	54 [2.1]	87 [3.4]	123 [4.8]	8308G042G
3/8"						8308G041G
1/2"	Normally Closed		54 [2.1]	87 [3.4]	123 [4.8]	8308G042F
3/8"						8308G041F

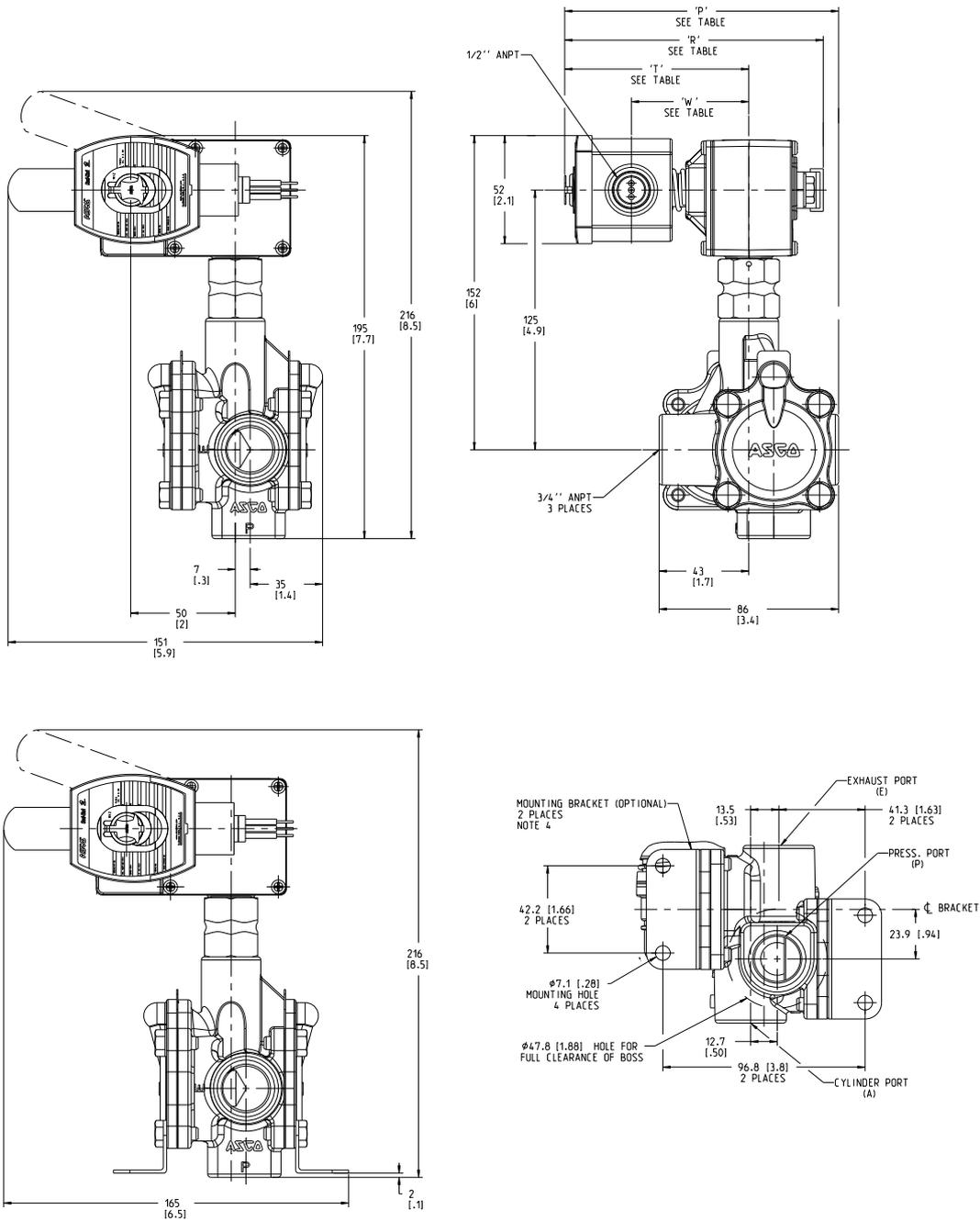
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**3/2, 4/2
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8047/8408/8410

Dimensions: mm (inches)

Const. Ref. 3



Valve Operation	Movement Construction	P	R	T	W	Catalog Number
Normally Open	Electrically Tripped (TSO)	130	123	87	56	8310G43G
Normally Closed		[5.1]	[4.8]	[3.4]	[2.2]	8310G43F
Normally Open	No Voltage Released (NVR)	131	124	88	56	8308G43G
Normally Closed		[5.2]	[4.9]	[3.5]	[2.2]	8308G43F

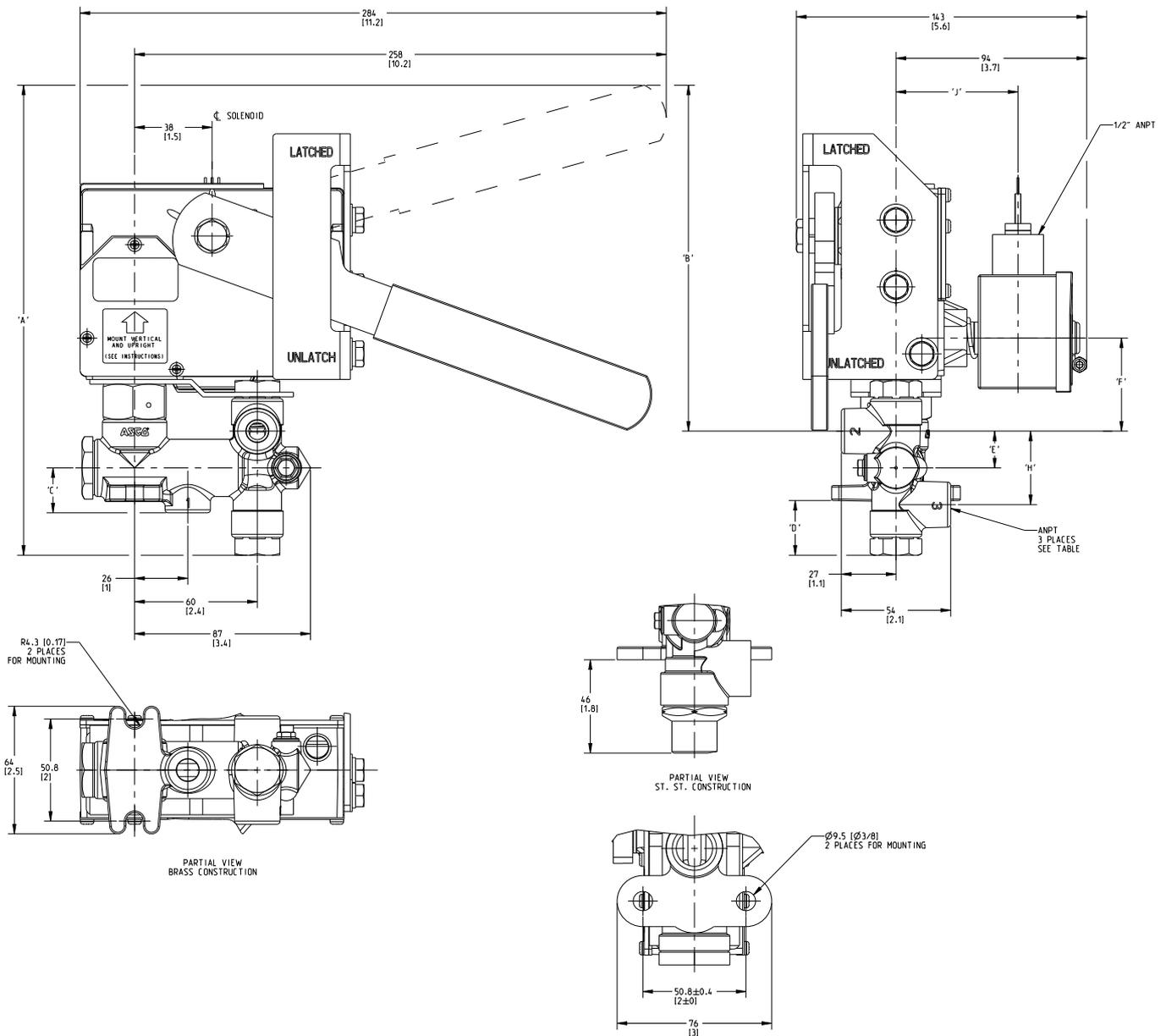
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**3/2, 4/2
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8037/8308/8310
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Dimensions: mm (inches)

Const. Ref. 4



Movement Construction	Pipe Connection ANPT	ORF. DIA.	Body	Seating	A	B	C	D	E	F	H	J	Catalog Number		
Electrically Tripped (TSO)	1/4"	6.3	BRASS	RESILENT	232	171	22	27	18	46	37	61	8310G044R		
	3/8"	[0.25]			[9.13]	[6.73]	[0.88]	[1.06]	[0.72]	[1.82]	[1.44]		8310G045R		
	1/2"	7.9	[0.31]	ST. ST.	METAL	278	188	27	48	24	64		48	8310G047	
						[10.94]	[7.4]	[1.06]	[1.89]	[0.94]	[2.51]		[1.89]	8310G046	
	3/8"	6.3	[0.25]	BRASS	RESILENT	232	171	22	27	18	46		37	60	8310G045
						[9.13]	[6.73]	[0.88]	[1.06]	[0.72]	[1.82]		[1.44]		8310G044
No Voltage Released (NVR)	1/4"	6.3	BRASS	RESILENT	232	171	22	27	18	46	37	60	8308G044R		
	3/8"	[0.25]			[9.13]	[6.73]	[0.88]	[1.06]	[0.72]	[1.82]	[1.44]		8308G045R		
	1/2"	7.9	[0.31]	ST. ST.	METAL	278	188	27	48	24	64		48	8308G046R	
						[10.94]	[7.4]	[1.06]	[1.89]	[0.94]	[2.51]		[1.89]	8308G047	
	3/8"	6.3	[0.25]	BRASS	RESILENT	232	171	22	27	18	46		37	60	8308G046
						[9.13]	[6.73]	[0.88]	[1.06]	[0.72]	[1.82]		[1.44]		8308G045
1/4"	6.3	[0.25]	BRASS	METAL	232	171	22	27	18	46	37	8308G044			
					[9.13]	[6.73]	[0.88]	[1.06]	[0.72]	[1.82]	[1.44]		8308G044		

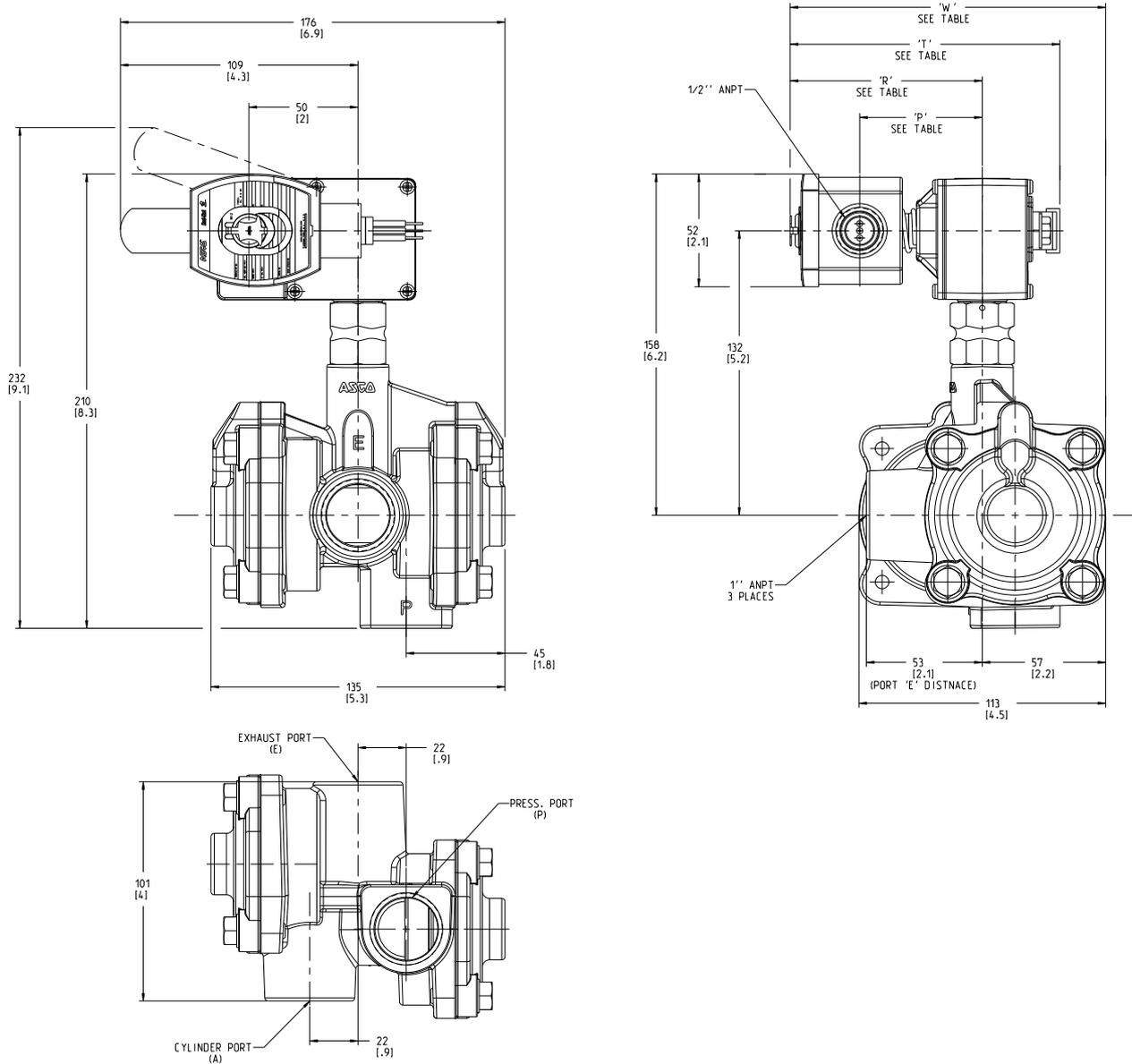
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Dimensions: mm (inches)

Const. Ref. 5



Movement Construction	Valve Operation	P	R	T	W	Catalog Number
Electrically Tripped (TSO)	Normally Open	56	87	123	144	8310G50G
	Normally Closed	[2.2]	[3.4]	[4.8]	[5.7]	8310G50F
No Voltage Released (NVR)	Normally Open	56	88	124	145	8308G50G
	Normally Closed	[2.2]	[3.5]	[4.9]	[5.7]	8308G50F

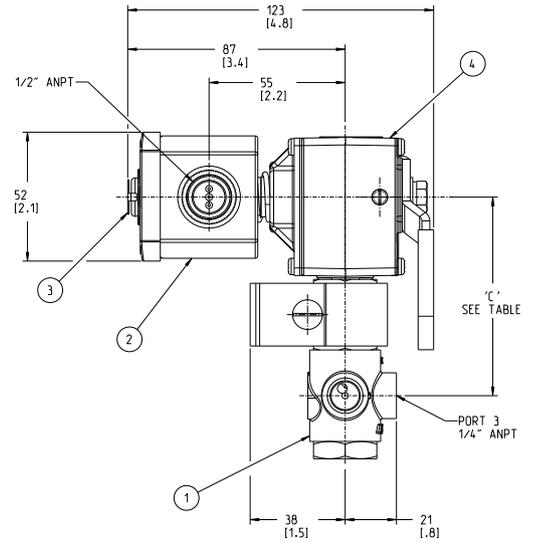
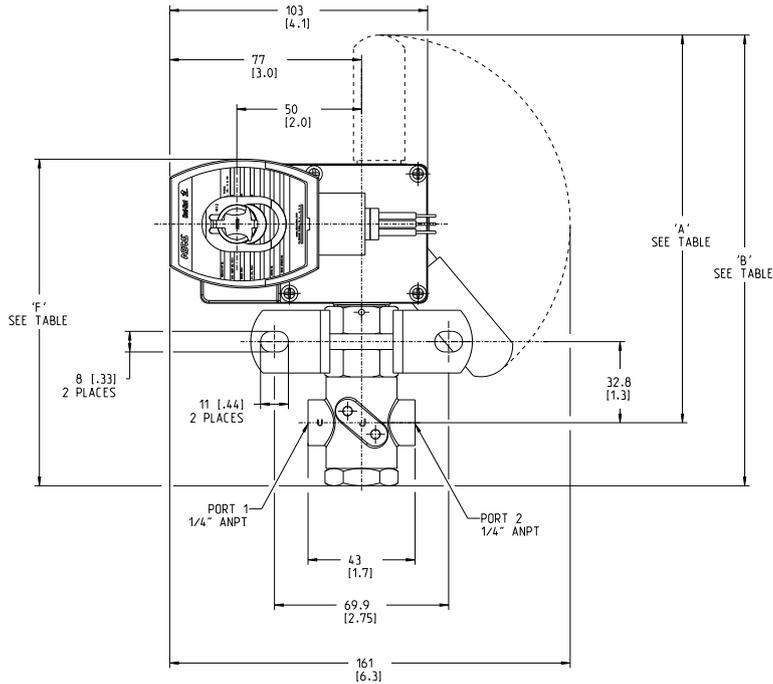
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Const. Ref. 6



Orifice	Body Material	A	B	C	F	Catalog Number
11/64"	BRASS	157 [6.2]	182 [7.2]	80 [3.1]	132 [5.2]	8037G014
1/8"	ST. ST.	157 [6.2]	182 [7.2]	81 [3.2]	132 [5.2]	8037G012

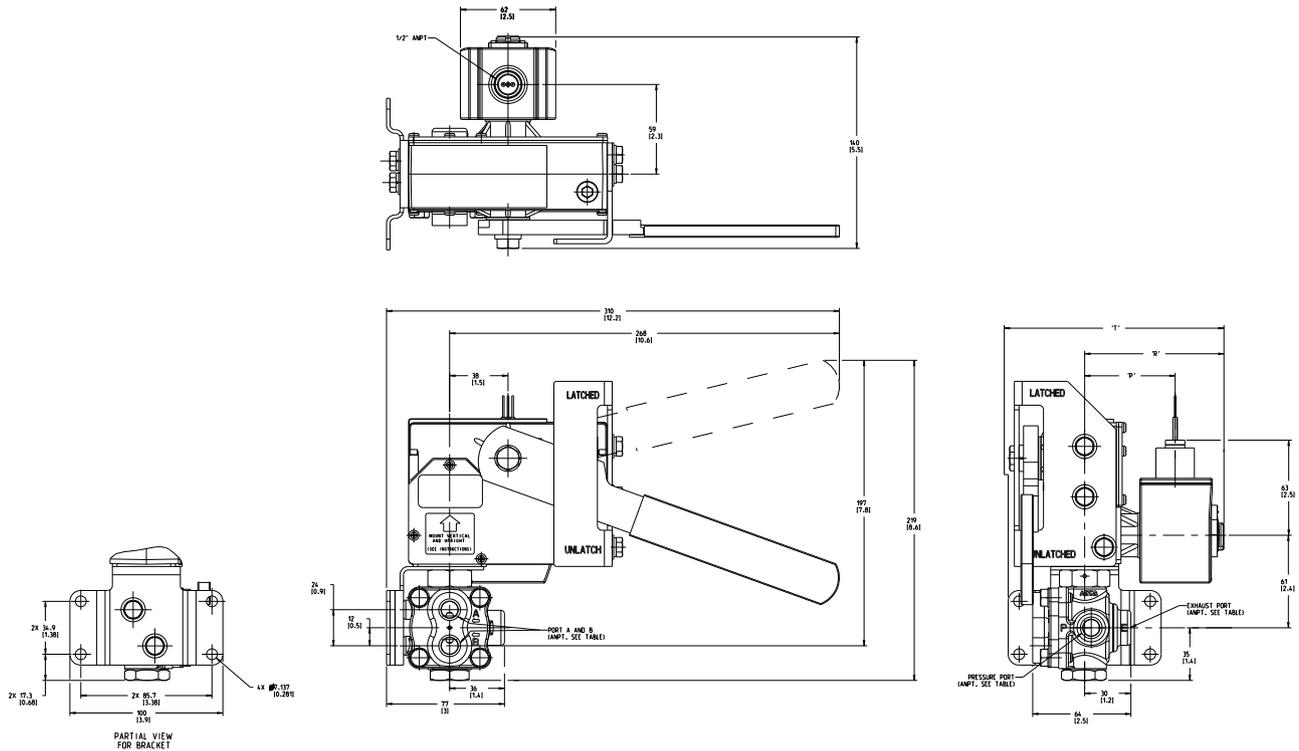
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Dimensions: mm (inches)

Const. Ref. 8



ANPT	Orifice Size	Construction	Movement Construction	P	R	T	Catalog Number
3/8"	3/16"	4 Way	Electrically Tripped (TSO)	62.9	91.4	141.4	8408G007
1/4"				[2.3]	[3.6]	[5.6]	8408G006
3/8"			No Voltage Released (NVR)	59.1	91	141	8410G007
1/4"				[2.3]	[3.6]	[5.5]	8410G006

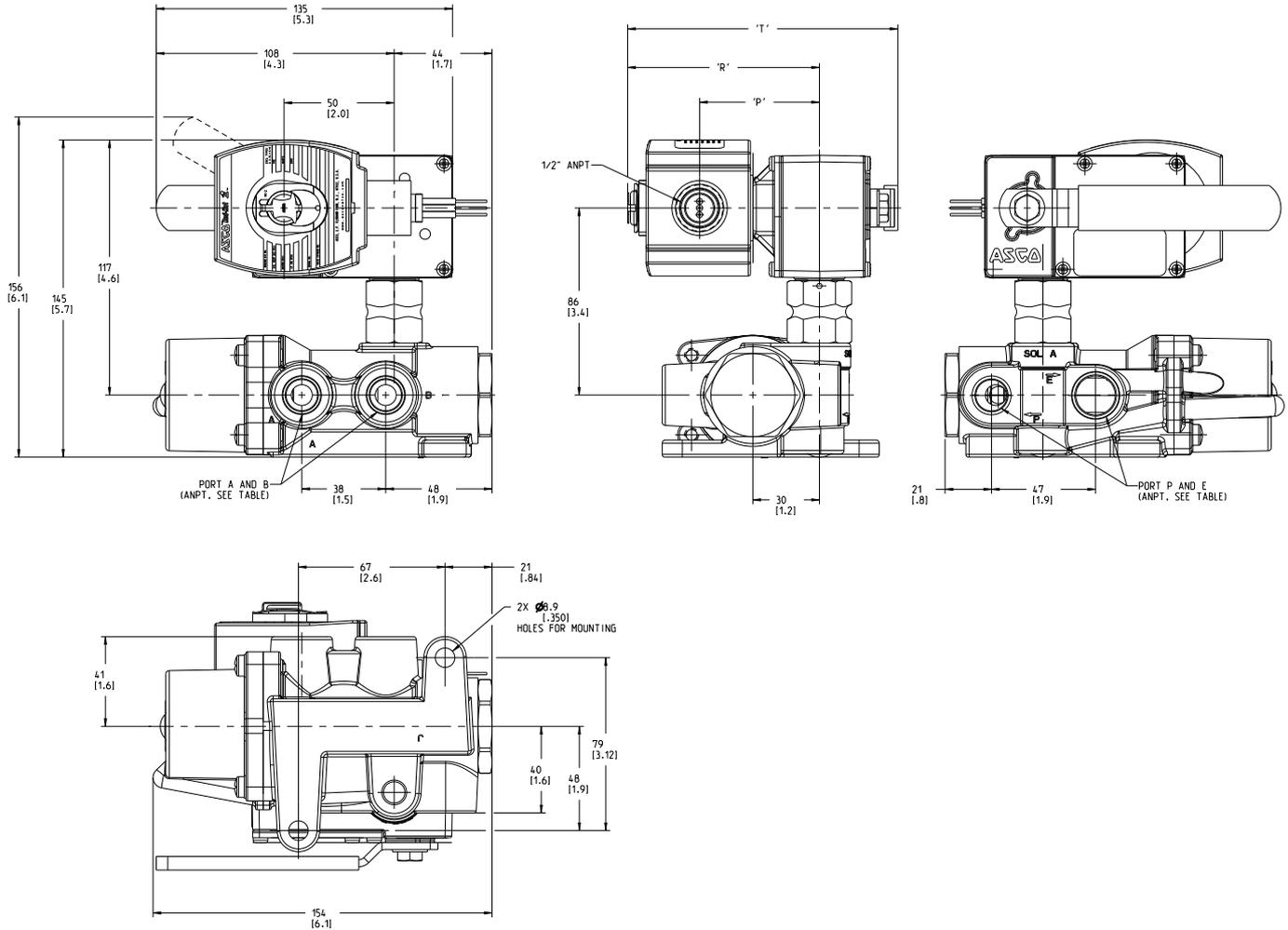
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Dimensions: mm (inches)

Const. Ref. 9



ANPT	Orifice Size	Construction	Movement Construction	P	R	T	Catalog Number
1/2"	ø9.5 [3/8"]	4 Way	Electrically Tripped (TSO)	58 [2.3]	86 [3.39]	122 [4.79]	8410G008
			No Voltage Released (NVR)	54 [2.1]	87 [3.42]	123 [4.82]	8408G008

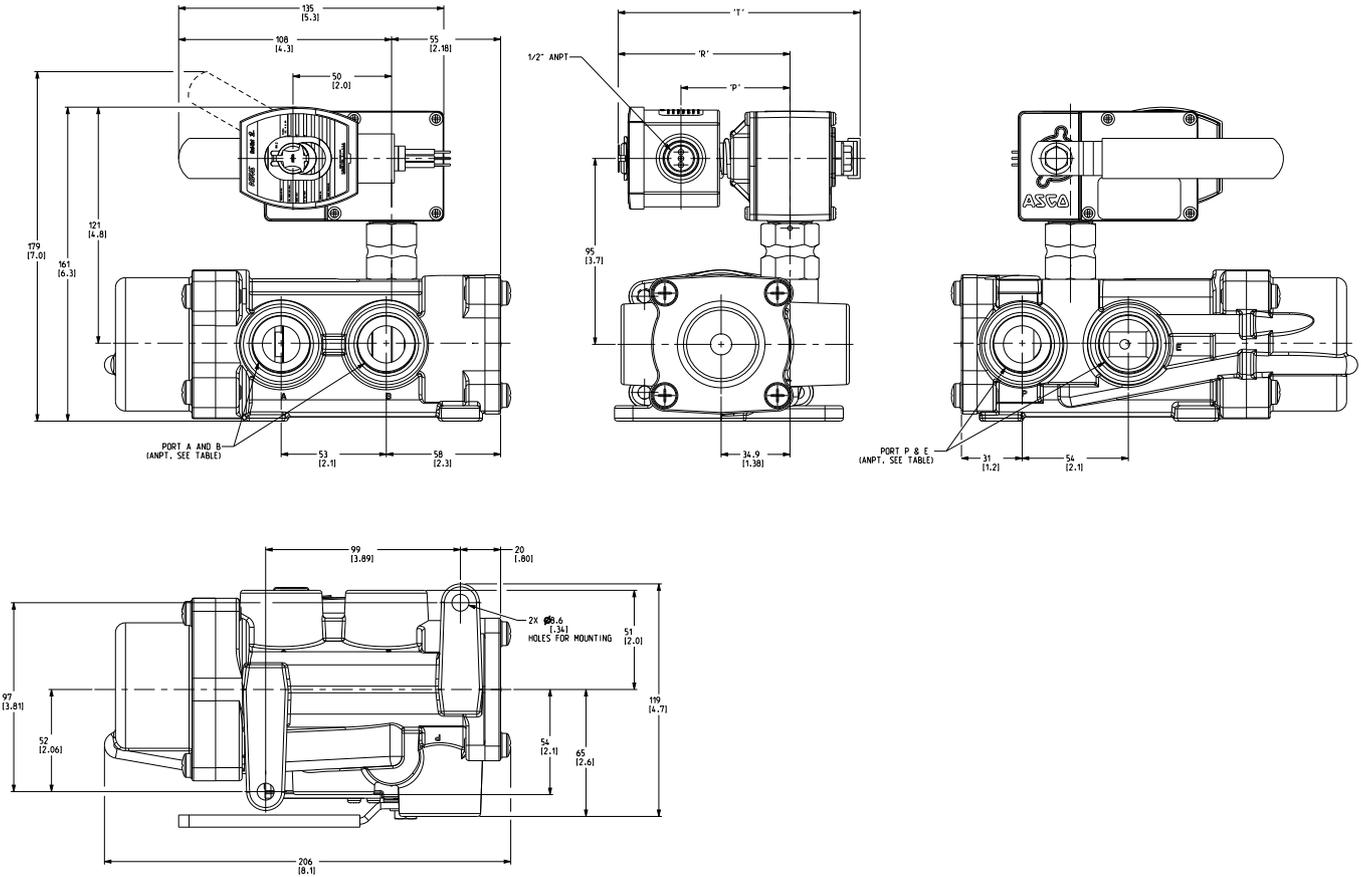
ASCO™ Manual Reset Valves

Brass or Stainless Steel Bodies • 1/4" to 1" NPT • Universal Operation • Manual Reset

**3/2, 4/2
Series**
8037/8308/8310
8047/8408/8410

Dimensions: mm (inches)

Const. Ref. 10



ANPT	Orifice Size	Construction	Movement Construction	P	R	T	Catalog Number
1"	ø19 [3/4"]	4 Way	Electrically Tripped (TSO)	56	87	123	8410G010
3/4"				[2.20]	[3.43]	[4.83]	8410G009
1"			No Voltage Released (NVR)	55	87	123	8408G010
3/4"				[2.18]	[3.43]	[4.83]	8408G009

Availability, design and specifications are subject to change without notice.
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