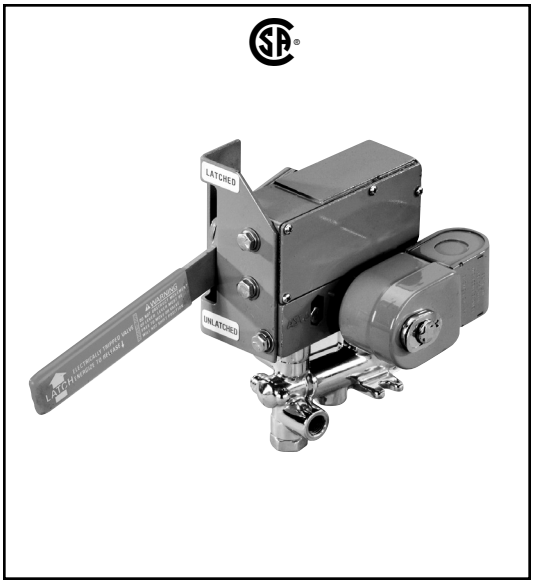
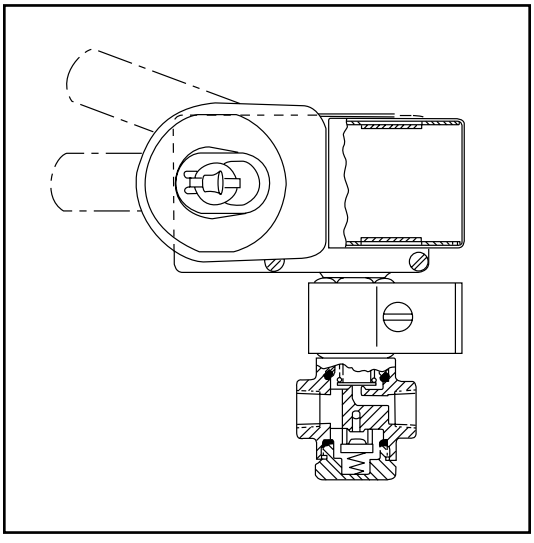
Features

- 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	
		AC				
	DC Watts	Watts	VA Holding	VA Inrush	AC	DC
F	-	20	45	96	99257	-
H	36.2	-	-	-	-	222184

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: RedHat metal solenoid enclosure.
Type 1 General Purpose Junction Box.

Optional: Explosionproof and Watertight, Types 3, 7 (C and D), and 9. (To order, add prefix "EF" to catalog number.)

See Optional Features Section for other available options.

Nominal Ambient Temp. Ranges

AC: -20˚F to 104˚F (-29˚C to 40˚C)
DC: -20˚F to 77˚F (-29˚C to 25˚C)

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 manally 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
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	11/64	.38	0	125	125	180	180	8308B040	8310B040	1	B	20/F	36.2/H
3/8	5/8	3	10	250	250	180	180	8308C041 ① ②	8310C041 ① ②	2	C	20/F	36.2/H
1/2	5/8	4	10	250	250	180	180	8308C042 ① ②	8310C042 ① ②	2	C	20/F	36.2/H
3/4	11/16	5.5	10	250	250	180	180	8308C043 ① ②	8310C043 ① ②	3	C	20/F	36.2/H
1	1	13	10	125	125	180	180	8308A050 ① ②	8310A050 ① ②	8	C	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with Stainless Steel Seats and Discs for Air-Inert Gas, Water and Light Oil													
1/4	1/4	.45	0	125	125	200	200	8308044	8310044	4	A	20/F	36.2/H
3/8	1/4	.45	0	125	125	200	200	8308045	8310045	4	A	20/F	36.2/H
1/2	5/16	.75	0	125	125	200	200	8308046	8310046	5	A	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with NBR Seats and PA Discs for Air-Inert Gas, Water and Light Oil													
1/4	1/4	.39	0	125	125	180	180	8308044R	8310044R	4	A	20/F	36.2/H
3/8	1/4	.39	0	125	125	180	180	8308045R	8310045R	4	A	20/F	36.2/H
1/2	5/16	.53	0	125	125	180	180	8308046R	8310046R	5	A	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	1/8	.21	0	125	125	180	180	8308A011	8310A011	1	B	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with Stainless Steel Seats and Discs for Corrosive Service													
1/2	5/16	.75	0	125	125	200	200	8308047	8310047	5	A	20/F	36.2/H
Free Handle Construction													
UNIVERSAL OPERATION, Brass Body with NBR Discs for Air-Inert Gas and Water													
1/4	11/64	.38	0	125	125	180	180	8037014		6	D	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with PTFE Seats and FKM Discs for Air-Inert Gas, Water and Light Oil													
1/4	3/16	.70	0	125	125	160	160	8037A008 ①		7	E	20/F	36.2/H
3/8	3/16	.70	0	125	125	160	160	8037A010 ①		7	E	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	1/8	.21	0	125	125	180	180	8037012		6	D	20/F	36.2/H

① When ordering, specify suffix "F" for Normally Closed construction or Suffix "G" for Normally Open construction. ② Supplied with CA pilot cartridge.

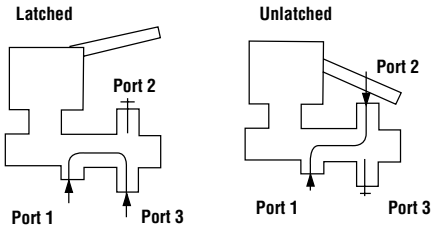
Specifications (Metric units)

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
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	.33	0.0	9	9	82	82	8308B040	8310B040	1	B	20/F	36.2/H
3/8	16	2.57	0.7	17	17	82	82	8308C041 ① ②	8310C041 ① ②	2	C	20/F	36.2/H
1/2	16	3.43	0.7	17	17	82	82	8308C042 ① ②	8310C042 ① ②	2	C	20/F	36.2/H
3/4	17	4.71	0.7	17	17	82	82	8308C043 ① ②	8310C043 ① ②	3	C	20/F	36.2/H
1	25	11.14	0.7	9	9	82	82	8308A050 ① ②	8310A050 ① ②	8	C	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with Stainless Steel Seats and Discs for Air-Inert Gas, Water and Light Oil													
1/4	6	.39	0	9	9	93	93	8308044	8310044	4	A	20/F	36.2/H
3/8	6	.39	0	9	9	93	93	8308045	8310045	4	A	20/F	36.2/H
1/2	8	.64	0	9	9	93	93	8308046	8310046	5	A	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with NBR Seats and PA Discs for Air-Inert Gas, Water and Light Oil													
1/4	6	.33	0	9	9	82	82	8308044R	8310044R	4	A	20/F	36.2/H
3/8	6	.33	0	9	9	82	82	8308045R	8310045R	4	A	20/F	36.2/H
1/2	8	.45	0	9	9	82	82	8308046R	8310046R	5	A	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	8	.18	0	9	9	82	82	8308A011	8310A011	1	B	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with Stainless Steel Seats and Discs for Corrosive Service													
1/2	8	.64	0	9	9	93	93	8308047	8310047	5	A	20/F	36.2/H
Free Handle Construction													
UNIVERSAL OPERATION, Brass Body with NBR Discs for Air-Inert Gas and Water													
1/4	4	.33	0	9	9	82	82	803714		6	D	20/F	36.2/H
UNIVERSAL OPERATION, Brass Body with PTFE Seats and FKM Discs for Air-Inert Gas, Water and Light Oil													
1/4	5	.60	0	9	9	71	71	8037A008 ①		7	E	20/F	36.2/H
3/8	5	.60	0	9	9	71	71	8037A010 ①		7	E	20/F	36.2/H
UNIVERSAL OPERATION, Stainless Steel Body with FKM Discs for Air-Inert Gas and Water													
1/4	3	.18	0	9	9	82	82	8037012		6	D	20/F	36.2/H

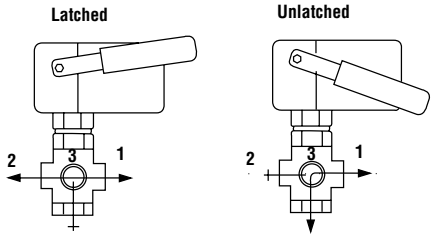
Flow Diagrams

Electrically Tripped and No Voltage Release Constructions

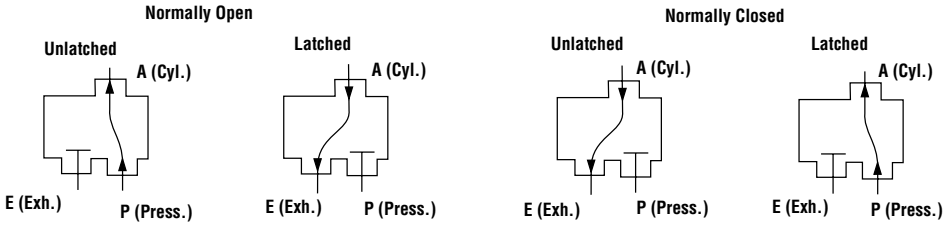
Flow Diagram A



Flow Diagram B

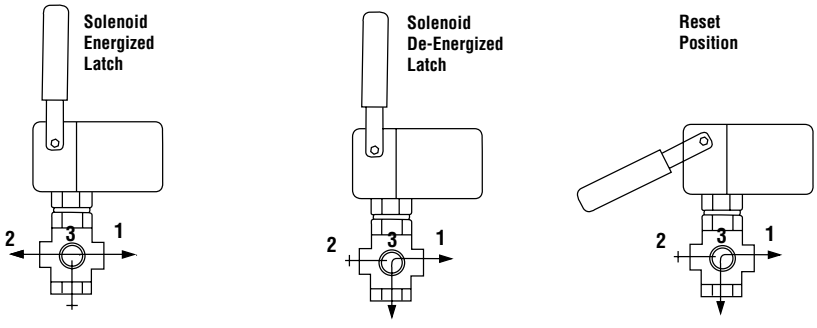


Flow Diagram C

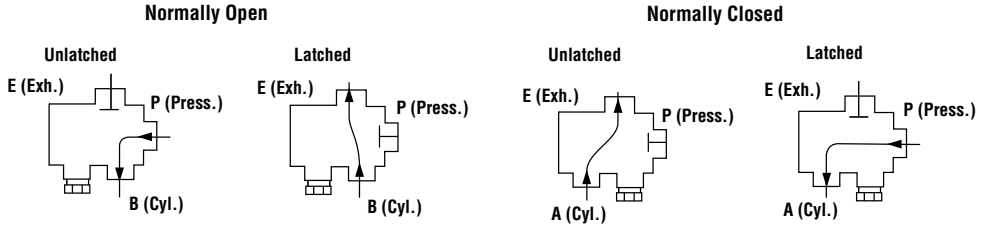


Free Handle Construction

Flow Diagram D

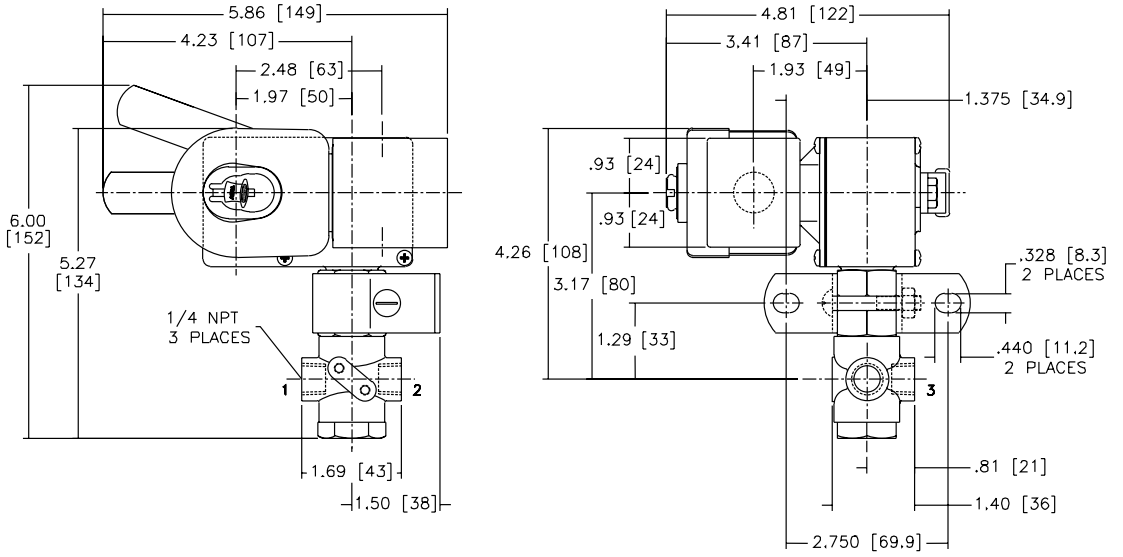


Flow Diagram E

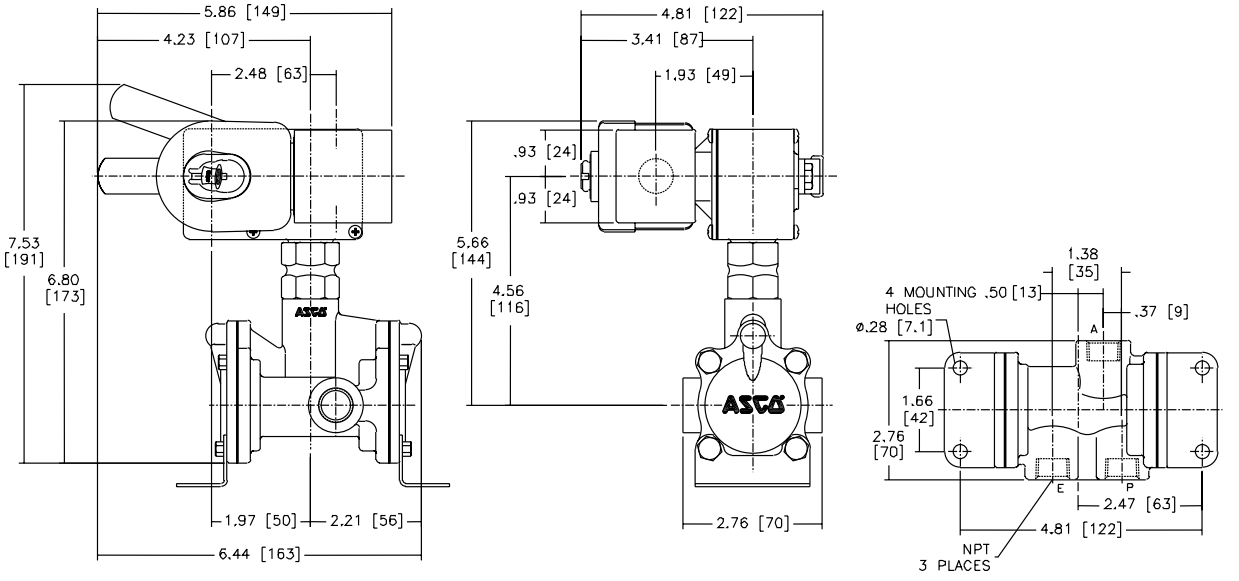


Dimensions: inches (mm)

Const. Ref. 1

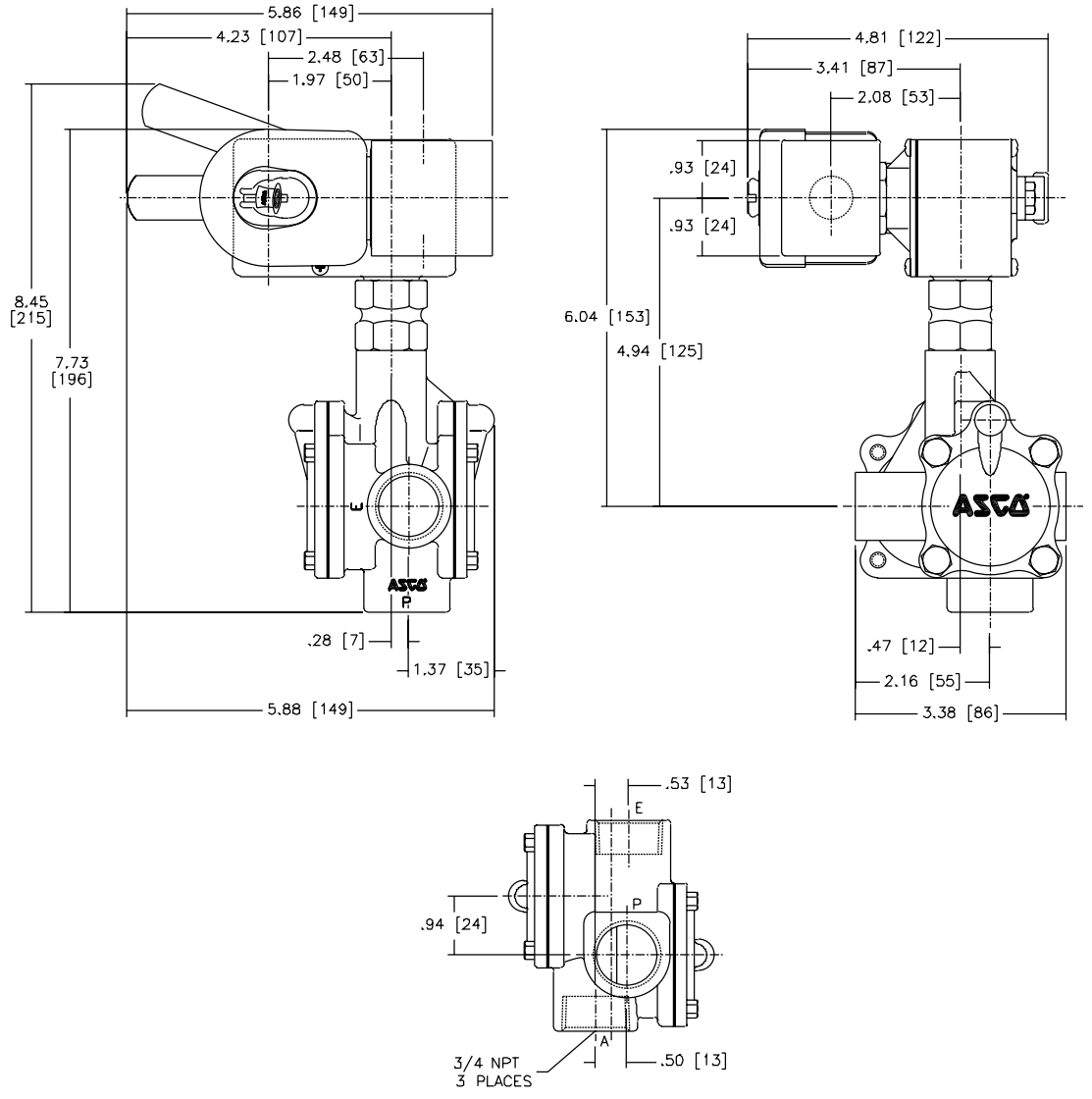


Const. Ref. 2



Dimensions: inches (mm)

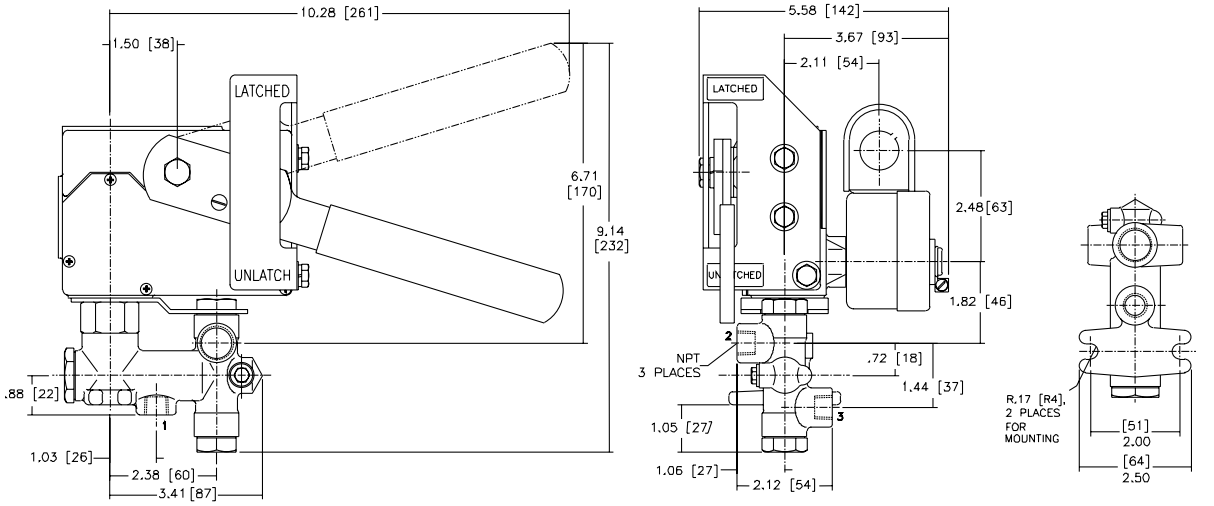
Const. Ref. 3



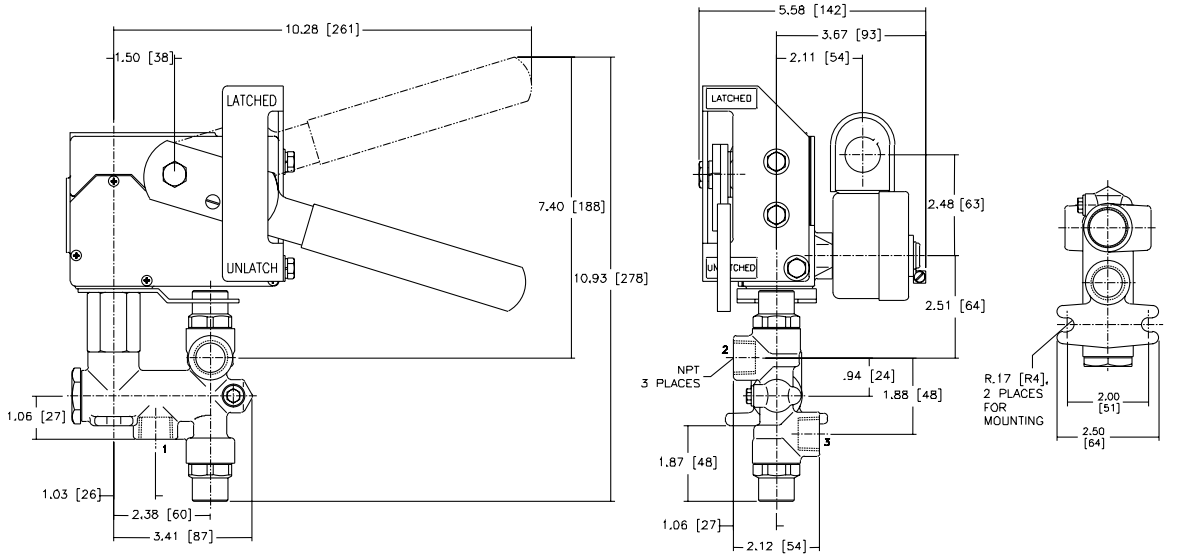
ASCO®

Dimensions: inches (mm)

Const. Ref. 4 ①



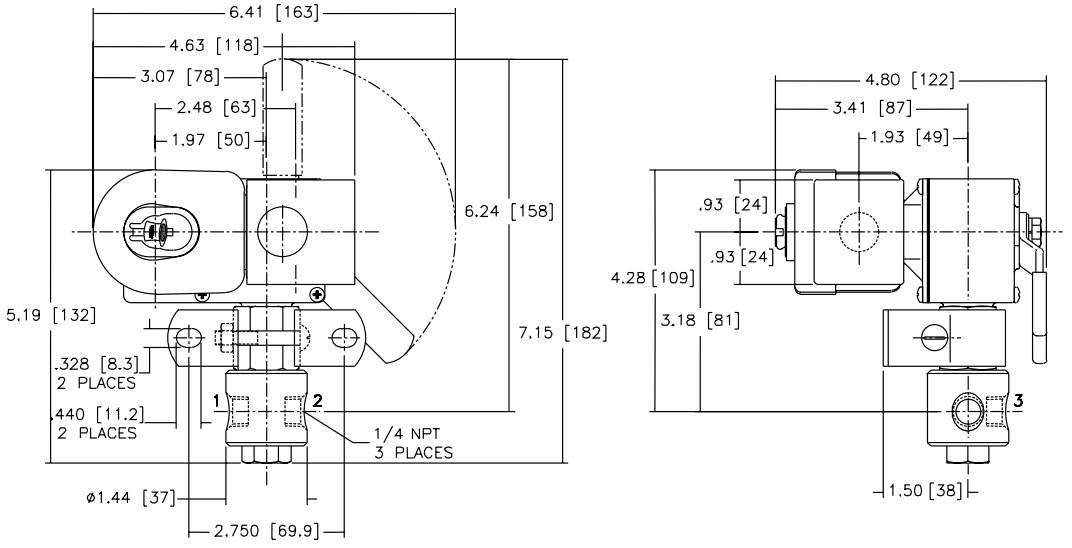
Const. Ref. 5 ①



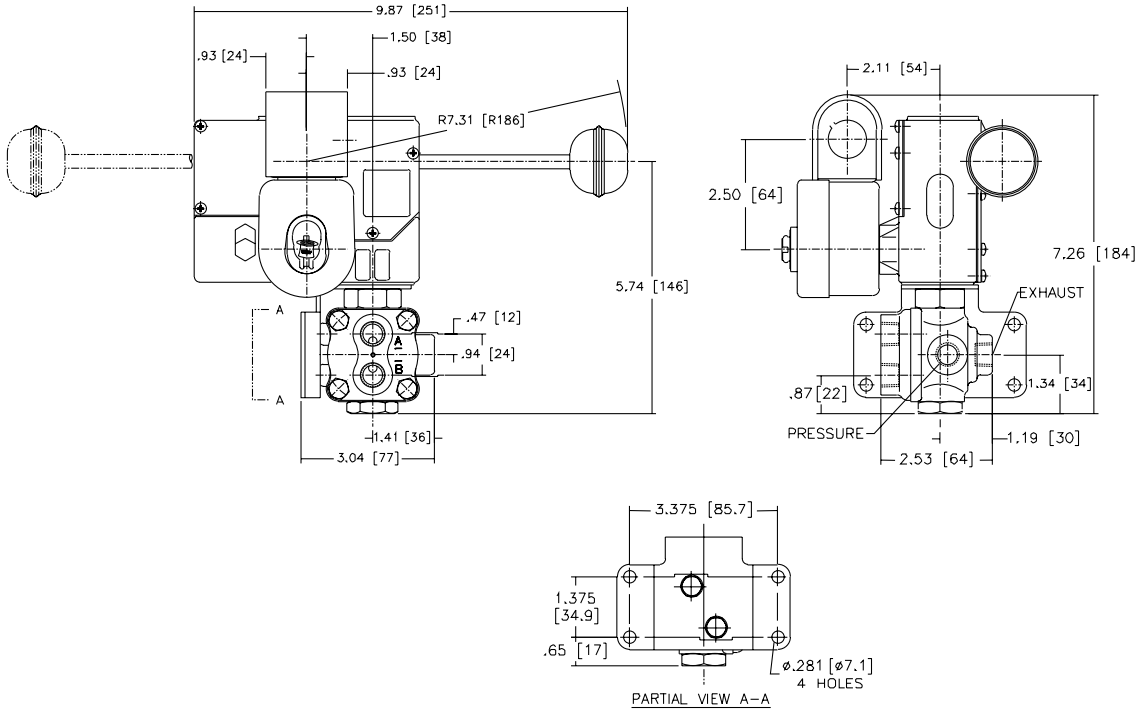
① IMPORTANT: Valves must be mounted with manual reset operator vertical and upright.

Dimensions: inches (mm)

Const. Ref. 6 ①



Const. Ref. 7 ①



① IMPORTANT: Valves must be mounted with manual reset operator vertical and upright.

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Dimensions: inches (mm)

Const. Ref. 8

