

ACTUATION ACCESSORIES SOLENOID VALVES

FNW™

8551 SERIES

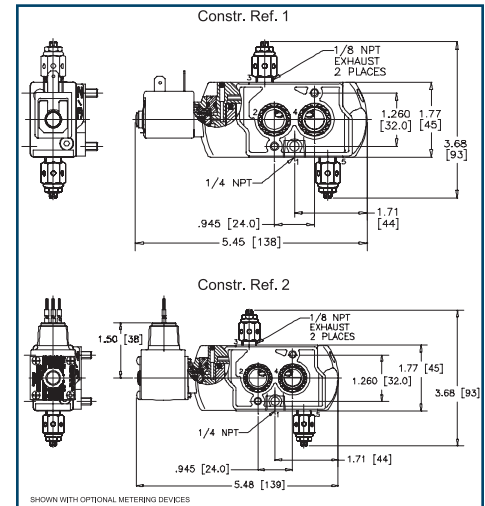
Features

- Pilot Operated
- Compact Spool Valve (Convertible from 3/2 to 5/2)
- NAMUR Pad Mount Construction
- Standard Manual Operator
- DIN, Watertight, and Explosionproof Solenoids Available
- Single and Dual Solenoid Constructions
- Mountable in Any Position
- Optional Flow Controls Available

Specifications

Pipe Size (ins.)*	Orifice Size (ins.)*	Cv Flow Factor	Pilot Pressure (PSI)		Fluid Temperature °F			Catalog Number	Constr. Ref. No.
			Min	Max	Min	Max AC	Max DC		
1/4	1/4	0.7	30	150	-13	140	140	SC8551A001MS	1
1/4	1/4	0.7	30	150	-13	104	77	WT8551A001MS	2
1/4	1/4	0.7	30	150	-13	104	77	EF8551A001MS	2

* 1/8 inch NPT exhaust ports



Electrical

Standard Coil and Class of Insulation	Enclosure Type	Watt Rating and Power Consumption			
		DC Watts	Watts	VA Holding	VA Inrush
F	SC	3	2.5	3.5	6
F	WT	6.9	6.3	7	10.1
F	EF	6.9	6.3	7	10.1
Enclosures					
SC	IP65 type DIN (open frame)				
WT	Types 1, 2, 3, 3S, 4, and 4X				
EF	Types 3, 3S, 4, 4X, 6, 6P, 7, 9 CLASS 1, DIV.1 (Groups A-D) and CLASS 1, DIV.2 Type 9 (Groups E-G)				

Construction

Valve Parts in Contact with Fluid	
Body	Black Anodized Aluminum
Spring	Phosphate Treated Black Steel
Shading Coil	Copper
Seals	NBR and PUR
Core and Core Tube	Stainless Steel / Brass
End Covers and Plate	6/6 Glass Filled PA/FV
Spool	Aluminum
Internal Parts	Zamak, Steel, CA

Temperature

Enclosure Type	Voltage Type	Temperature Range
SC	AC/DC	-13°F to +140°F (-25°C to 59°C)
WT / EF	AC	-13°F to +104°F (-25°C to 40°C)
WT / EF	DC	-13°F to +77°F (-25°C to 25°C)

8342 SERIES

Features

- Direct Acting Operation
- High Flow Construction
- Slide Style Valve
- No Minimum Operating Pressure Differential Required to Shift Valve
- Mountable in Any Position
- Optional Flow Controls Available

Temperature

Enclosure Type	Temperature Range
Class F	32°F to 125°F (0°C to 52°C)
Class H (optional)	32°F to 140°F (0°C to 60°C)

Construction

Valve Parts in Contact with Fluid		
Body	Brass	304SS
Seals and Discs	NBR and FKM305 Stainless Steel	
Core Tube	305 Stainless Steel	
Core and Plugnut	430F Stainless Steel	
Springs	302 Stainless Steel / 17-7 PH Stainless Steel	
Shading Coil	Copper	
Sleeve	PA	
Seats	Graphite-filled PTFE	

Electrical

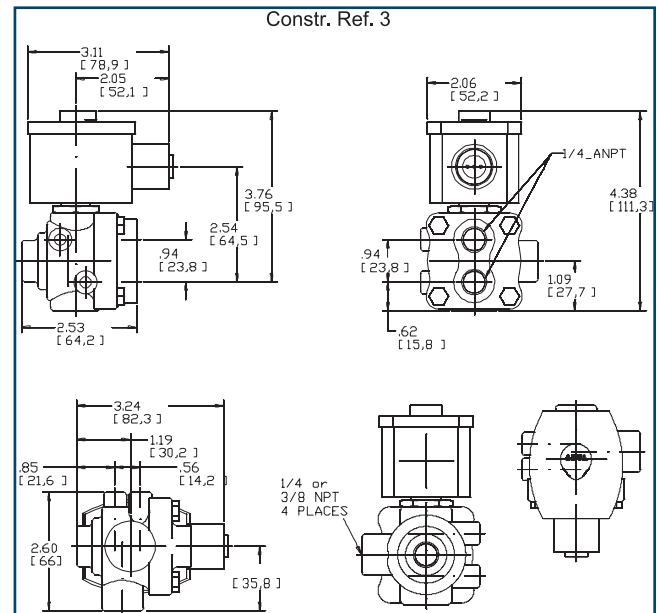
Standard Coil and Class of Insulation	Watt Rating and Power Consumption		
	Watts	VA Holding	VA Inrush
F	16.1	3.5	6
F	20.1	7	10.1
Enclosures			
Standard	Types 1, 2, 3, 3S, 4, and 4X		
Explosionproof	Types 3, 3S, 4, 4X, 6, 6P, 7, 9		

Specifications

Pipe Size (ins.)*	Orifice Size (ins.)*	Cv Flow Factor	Pilot Pressure (PSI)			Max Fluid Temperature °F	Catalog Number		Constr. Ref. No.
			Maximum AC				Brass Body	304SS Body	
			Air-Inert Gas	Water	Lt. Oil @ 300 SSU	AC			
1/4	3/16	0.7	125	100	100	160	8342G1	8342G701	3
3/8	3/16	0.7	125	100	100	160	8342G3	8342G703	3

* Body model numbers with FF for applications of

* Prefix model numbers with EF for explosionproof



8344 SERIES

Features

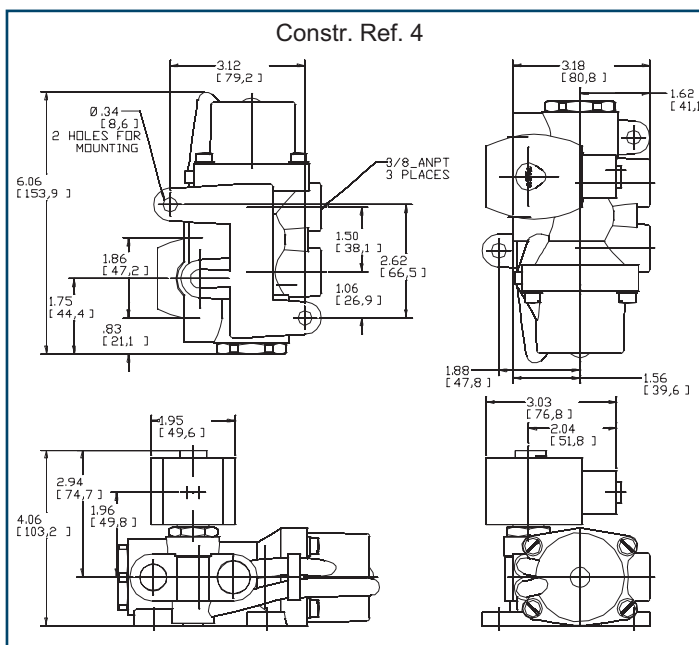
- Pilot Operated
- Robust Construction
- Piston-Operated Poppet Design for High Flow
- For Use with Air or Water
- Mountable in Any Position
- Optional Flow Controls Available

Temperature

Voltage Type	Temperature Range
AC	32°F to 125°F (0°C to 52°C)
DC	32°F to 104°F (0°C to 40°C)

Electrical

Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
	DC Watts	AC		
		Watts	VA Holding	VA Inrush
F	10.6	6.1	16	30
F	11.6	10.1	25	50
F	22.6	17.1	40	70
Enclosures				
Standard	Types 1, 2, 3, 3S, 4, and 4X			
Explosionproof	Types 3, 3S, 4, 4X, 6, 6P, 7, 9			



Construction

Valve Parts In Contact with Fluid	
Body	Brass
Seals and Discs	NBR
Core Tube	305 Stainless Steel
Core and Plugnut	430F Stainless Steel
Springs	302 Stainless Steel and 17-7 PH Stainless Steel
Shading Coil	Copper
Pilot Seat Cartridge and Disc-Holder	CA
Shaft Gasket	Lead/Copper

Specifications

Pipe Size (ins.)*	Orifice Size (ins.)*	Cv Flow Factor		Pilot Pressure (PSI)								Max Fluid Temperature °F		Catalog No.	Constr. Ref. No.
				Maximum AC				Maximum DC							
		Press.	Exh.	Min	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	AC	DC	Brass Body		
1/4	1/4	0.8	1.0	10	150	125	125	125	125	125	180	150	8344G70	1	
3/8	3/8	1.4	2.2	10	150	125	125	125	125	125	180	150	8344G72	2	
1/2	3/8	1.4	2.2	10	150	125	125	125	125	125	180	150	8344G74	2	
3/4	3/4	5.2	5.6	10	150	125	125	125	125	125	180	150	8344G76	3	
1	3/4	5.2	5.6	10	150	125	125	125	125	125	180	150	8344G78	3	

* Prefix model numbers with EF for explosionproof
 ** 25 PSI minimum on light oil service

8345 SERIES

Features

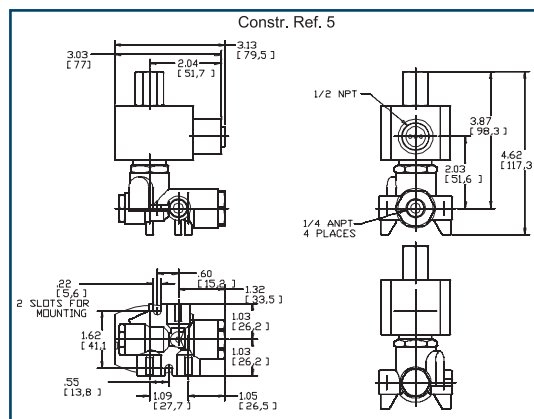
- Pilot Operated
- Compact Valve for General Service Applications
- Mountable in Any Position
- Optional Flow Controls Available

Construction

Valve Parts In Contact with Fluid	
Body	Brass 316SS
Seals and Discs	NBR and PA FKM, PA and UR
Core Tube	305 Stainless Steel
Core and Plugnut	430F Stainless Steel
Springs	302 Stainless Steel
Shading Coil	Copper
Piston	PA

Electrical

Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
	DC Watts	Watts	VA Holding	VA Inrush
F	11.6	10.1	25	50
Enclosures				
Standard	Types 1, 2, 3, 3S, 4, and 4X			
Explosionproof	Types 3, 3S, 4, 4X, 6, 6P, 7, 9			



Specifications

Pipe Size (ins.)*	Orifice Size (ins.)*		Cv Flow Factor		Pilot Pressure (PSI)								Max Fluid Temperature °F		Catalog Number*		Constr. Ref. No.
					Maximum AC			Maximum DC							Brass Body		
	Press.	Exh.	Press.	Exh.	Min.	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	AC	DC				
1/4	1/16	3/32	0.09	0.09	10	150	150	150	100	100	100	180	104	8345G1	EV8345G81	5	

* Prefix model numbers with EF for explosionproof

Temperature

Voltage Type	Temperature Range
AC	32°F to 125°F (0°C to 52°C)
DC	32°F to 104°F (0°C to 40°C)