

Direct Mount Inline Spool Valves

Anodized Aluminum Bodies • Direct NAMUR Mount 1/4" and 1/2" NPT

Features

- Compact spool valve convertible from 3/2 to 5/2
- NAMUR mount construction
- Standard manual operator
- DIN, Watertight and Explosionproof solenoids available
- Single and dual solenoid constructions
- Mountable in any position
- Vents air from spring side of actuator to prevent corrosion of actuator

Construction

Valve Parts in Contact with Fluids						
Body	Black Anodized Aluminum					
Spring	Phosphate treated black steel					
Shading Coil	Copper					
Seals	NBR + 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					

Electrical

Standard Coil and		Wa		g and Pov	Spare Coil Part Number			
Class of Insulation	Enclosure Type	DC Watts	AC Watts	VA Holding	VA Inrush	AC	DC	
F	SC	3	2.5	3.5	6	400127	400127	
F	SC	6.9	5	7	15	400727	400727	
F	EF	6.9	6.3	7	10.1	266762	270007	
F	WT	6.9	6.3	7	10.1	266763	270008	

Standard Voltages: SC: 24, 120, 240 Volts AC, 50-60 Hz; 12, 24, 120 Volts DC. WT and EF: 24/50-60HZ, (120/60, 110-120/50)①, (240/60, 220-240/50)② Volts AC; 6, 12, 24, 120 Volts DC.

- ① Order as 120/60, 110/50
- ② Order as 240/60, 220/50

Solenoid Enclosures

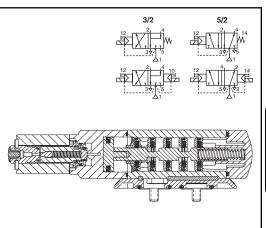
Standard: - Prefix

SC = IP65 type DIN (open frame) per 46244

WT = Combination General Purpose and Watertight Types 1, 2, 3, 3S, 4, and 4X **EF** = Combination Explosionproof and Watertight Types 3, 3S, 4, 4X, 6, 5P, 7, 9

Class I, Div. 1 (Groups A - D) and Class II, Div. 1 Type 9 (Groups E-G)





Nominal Ambient Temp. Ranges

SC: AC/DC: $5^{\circ}F$ to $+140^{\circ}F$ ($-15^{\circ}C$ to $60^{\circ}C$)

EF: AC: 5°F to +104°F (-15°C to 40°C) DC: 5°F to +77°F (-15°C to 25°C)

WT: AC: 5°F to +140°F (-15°C to 60°C) DC: 5°F to +77°F (-15°C to 25°C)

Note: For temperatures below $32^{\circ}F$ (0°C) moisture-free air must be used.

Refer to Engineering Section for details.

Approvals

SC (2.5W and 3W only) UL recognized component, CSA certified. (Series 8551 only)

WT: UL listed, CSA certified. (Series 8551 only)

EF: UL and CSA listed solenoid.

Meets applicable CE directives.

SIL 3 capable per IEC 61508 on normally closed single solenoid. Third party certification provided by EXIDA. *Refer to Engineering Section for details.*



Specifications (English units)

Pipe	Orifice	Cv	Pres	ating sure tial (psi)	Fluid Temperature °F (for single and dual solenoid)		Single Solenoid PFD _{AVG} = 3.3 x 10 ⁻³			Watt Rating/ Class of Coil Insulation		
Size (in)	Size (in)	Flow Factor	Min.	Max.	Min.	Max. AC	Max. DC	Catalog Number	Catalog Number	Const. Ref.	AC	DC
OPEN FRAME DIN COIL												
1/4 ①	1/4	.86	30	150	5	140	140	SC8551A001MS	SC8551A002MS	1	2.5	3
1/2	1/2	3.7	30	150	-15	140	140	SC8553A001MS	SC8553A002MS	2	5	6.9
WATERTIGH	WATERTIGHT ENCLOSURE											
1/4 ①	1/4	.86	30	150	5	140	77	WT8551A001MS	WT8551A002MS	1	6.3	6.9
1/2	1/2	3.7	30	150	-15	140	77	WT8553A001MS	WT8553A002MS	2	6.3	6.9
EXPLOSION	EXPLOSIONPROOF ENCLOSURE											
1/4 ①	1/4	.86	30	150	5	104	77	EF8551A001MS	EF8551A002MS	1	6.3	6.9
1/2	1/2	3.7	30	150	-15	104	77	EF8553A001MS	EF8553A002MS	2	6.3	6.9
① 1/8 inch NPT exhausts.												

Specifications (Metric units)

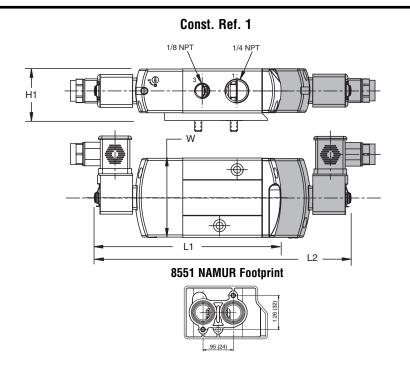
Pipe	Orifice	Kv Flow	Operating Pressure Differential (bar)		Fluid Temperature °C (for single and dual solenoid)		Single Solenoid PFD _{AVG} = 3.3 x 10 ⁻³	Dual Solenoid		Watt Rating/ Class of Coil Insulation		
Size (in)	Size (mm)	Factor (m³/h)	Min.	Max.	Min.	Max. AC	Max. DC	Catalog Number	Catalog Number	Const. Ref.	AC	DC
OPEN FRAME DIN COIL												
1/4 ①	6.4	.7	2	10	-15	60	60	SC8551A001MS	SC8551A002MS	1	2.5	3
1/2	13	3.15	2	10	-25	60	60	SC8553A001MS	SC8553A002MS	2	5	6.9
WATERTIGH	WATERTIGHT ENCLOSURE											
1/4 ①	6.4	.7	2	10	-15	60	25	WT8551A001MS	WT8551A002MS	1	6.3	6.9
1/2	13	3.15	2	10	-25	60	25	WT8553A001MS	WT8553A002MS	2	6.3	6.9
EXPLOSION	EXPLOSIONPROOF ENCLOSURE											
1/4 ①	6.4	.7	2	10	-15	40	25	EF8551A001MS	EF8551A002MS	1	6.3	6.9
1/2	13	3.15	2	10	-25	40	25	EF8553A001MS	EF8553A002MS	2	6.3	6.9
① 1/8 inch NPT exhausts.												



Dimensions inches (mm)

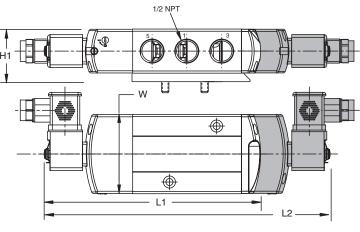
Series	8551
NPT	1/4
L1	5.47 (139)
L2	7.56 (192)
H1	1.30 (33)
W	1.77 (45)

NOTE: Valve shown with CM22 DIN terminal coil and connector. Connector sold separately.



Series	8553
NPT	1/2
L1	7.76 (197)
L2	10.25 (260)
H1	1.94 (49)
W	2.85 (72)

NOTE: Valve shown with CM22 DIN terminal coil and connector. Connector sold separately.



Const. Ref. 2

8553 NAMUR Footprint

