

RedHat II Spool Valves

Anodized Aluminum, Brass and Stainless Steel Bodies 1/4" and 1/2" NPT

Features

- Compact Spool Valve
- Single and dual solenoid constructions available
- Unique design combines hard T-seals and flexible o-rings, provides bubble-tight shutoff, resistance to dirt and multimillion cycle life controlling air or inert gas
- Low Power and Intrinsically Safe construction available See Special Service Pilot Valve Section for details

Construction

	Valve Parts in Contact with	Fluids							
Body	Aluminum, Black Anodized Brass 316L Stainless								
End Cover (Spring end)	Glass-filled Polyamide Brass 316L Stainles								
Spool Valve Internals	Zamak, Stainless Steel, Acetal (POM), Aluminum Brass, Acetal (POM), D								
Pilot End Covers	Aluminum, Black Anodized	Brass	316L Stainless Steel						
Core Tube	Stainless Steel								
Core and Plugnut	Stainless Steel								
Springs	Stainless Steel								
Seals and Discs	NBR								
Top Disc	Nylon (PA)								
Core Guide	Acetal								
Seat and Seat Insert	Brass, Acetal								
Shading Coil	Copper								
Rider Ring (low power)	P	TFE							

Electrical

Standard	W		g and Pov	wer	Spare Coil Part Number								
Coil and			AC		General	Purpose	Explosionproof						
Class of	DC		VA	VA									
Insulation	Watts	Watts	Holding	Inrush	AC	DC	AC	DC					
F	11.6	10.1	25	50	238610	238710	238614	238714					

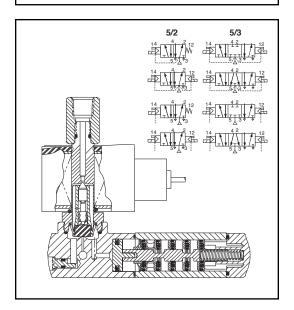
Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz (110, 220 volts AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages are available when required.

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. (To order, add prefix "EF" or ("EV" for stainless steel) to catalog number.) See Optional Features Section for other available options.





Nominal Ambient Temp. Ranges

Body Material	Description
Aluminum	AC: 5°F to 125°F (-15°C to 52°C) DC: 5°F to 104°F (-15°C to 40°C)
Brass	AC: -40°F to 125°F (-40°C to 52°C)
Stainless Steel	DC: -40°F to 104°F (-40°C to 40°C)

Approvals

UL/CSA approvals for aluminum constructions pending. EF and EV are UL listed solenoids. CSA certified. Meet applicable CE directives. Refer to Engineering Section for details. ATEX/IECEx certified with prefix "EV" as listed. Refer to Optional Features Electrical Section for details.



Specifications (English units)

					Single Solenoid					Dual Solenoid									
	Pine	Orifice	Cv	Diffe	ting Pro rential Inert (. ,	Flo	ax. uid ıp.°F			Diffe	ting Pr rential -Inert ((psi)	FI	ax. uid ıp.°F			Class	Rating/ of Coil ation
Body	Size	Size	Flow		Max.	Max.		İ	Catalog	Const.		Max.	Max.		i	Catalog	Const.		
Material	(in)	(in)	Factor	Min.	AC	DC	AC	DC	Number	Ref.	Min.	AC	DC	AC	DC	Number	Ref.	AC	DC
Aluminum 5/2									8551G417							8551G418			
Aluminum 5/3 Center Closed									-							8551G467			
Aluminum 5/3 Center Open	1/4	1/4	.86						-							8551G468			
Brass 5/2				30	145	120	140	120	EF8551G419 ①	1	30	145	120	140	120	EF8551G420 ①	1	10.1/F	11.6/F
316L Stainless Steel 5/2									EV8551G421 @3							EV8551G422 @3			
Aluminum 5/2	1/2	1/2	3.7						8553G417							8553G418			
316L Stainless Steel 5/2	1/2	1/2	5.7						EV8553G421 @							EV8553G422 @			
① Brass construction supplied	ed star	ndard wit	th EF sol	enoid.	② Stai	nless s	steel	cons	truction supplied s	tandard	with E	V sole	noid. @) ATI	X/IE	CEx certified with	prefix "l	EV".	

Specifications (Metric units)

- 1						Singl	e So	lenoid		Dual Solenoid										
ine	Orifice	Kv Flow	Diffe	rential	(bar)	FΙι	ıid			Diffe	rential	(bar)	Flo	uid			Class	Rating/ of Coil ation		
ize (in)	Size (mm)	Factor (m³/h)	Min.	Max. AC	Max. DC	AC	DC	Catalog Number	Const. Ref.	Min.	Max. AC	Max. DC	AC	DC	Catalog Number	Const. Ref.	AC	DC		
								8551G417							8551G418					
								-							8551G467					
1/4	6.4	.75						-							8551G468					
			2	10	8.2	60	48	EF8551G419 ①	1	2	10	8.2	60	48	EF8551G420 ①	1	10.1/F	11.6/F		
								EV8551G421 @3							EV8551G422 @3					
1/0	12	2 15						8553G417							8553G418					
1/2	13	3.13						EV8553G421 ②							EV8553G422 ②					
(i 1	/4 /2	(mm) (mm) (6.4 /2 13	ipe orifice size (mm) Factor (m³/h) /4 6.4 .75	Note	Note Note	Indicate Indicate	Note Note	Name	Note Note	Notifice Flow Nation N	Note Note	Note Note	Notifice Continue Continue	Note Note	Note Note	Note Continue Co	Note Construction Construction	Note Construction Construction		

① Brass construction supplied standard with EF solenoid. ② Stainless steel construction supplied standard with EV solenoid. ③ ATEX/IECEx certified with prefix "EV".

Dimensions inches (mm)

Series	8551	8553
NPT	1/4	1/2
L1 ①	5.63 (143)	7.06 (179)
L2 ①	7.20 (183)	8.86 (225)
H2	4.38 (111)	4.77 (121)
H1	1.10 (28)	1.58 (40)
W	1.77 (45)	2.85 (72)

① Manual override option MH adds .250", MS option adds .468" to each solenoid endcap.

	Optional Manual Operators									
Add Suffix		Description								
МО		Push and turn to lock with flat head screwdriver slot								
MI		Momentary push in with flat head screwdriver slot								
МН		Momentary push in by hand								
MS	1 2	Push and turn to lock by hand								

