



# Catalogue 33C Express



## ASCO Valve Canada

*Division of Emerson Electric Canada Limited*



ASCO is the leader in the design, quality and manufacture of solenoid valves, from around the corner or around the world. Pride is the common component of each and every product listing in this Express Catalogue. We can accomplish this because of the people we employ; from design engineers to valve assemblers, our team works together in producing the highest quality products in the industry. Each member of our global team takes pride in contributing to the overall satisfaction of our customers.

This Express Catalogue includes the most commonly used Two Way, Three Way and Four Way ASCO valves. The valves in this catalogue represent only a portion of ASCO valves. For variations tailored to your specific application see our complete Catalogue 33C, visit our web site at [www.asco.ca](http://www.asco.ca) or contact the sales office nearest you.

**FACTORY STOCK:**

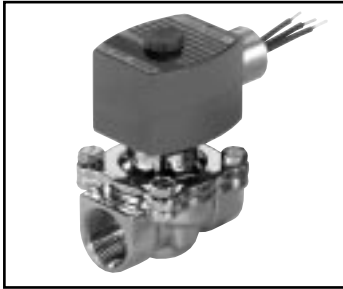
Valve Catalogue numbers shown in red are normal stock items. These items are usually stock in 120/60. For other voltages, consult factory.

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## 2 WAY/2 POSITION GENERAL SERVICE VALVES



### FEATURES

- Normally Closed, Normally Open and Universal operation
- Wide range of pressure ratings, pipe sizes and body materials
- Air/Inert Gas, Water and Lt. Oil Service
- Reliable, proven design with high flows

### SOLENOID ENCLOSURES

Standard: Red Hat II - Watertight, Types 1,2,3,3S,4 & 4X  
Red Hat 1 - Type 1

Note: Red Hat II valves are indicated by the change letter  
"G" in their catalogue number. Eg. 8210G4

Optional: For Explosion proof and other optional enclosures,  
see Catalogue 33C

### APPROVALS

All valves in this section are CSA Certified. All Red Hat II valves meet CE directives. For valves in this section that are UL listed or FM approved, please refer to Catalogue 33C.

### FACTORY STOCK

Valve Catalogue numbers shown in red are normal stock items. These items are usually stock in 120/60. For other voltages, consult factory.

ELECTRICAL INFORMATION					
Series	Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
		DC Watts	AC		
			Watts	VA Holding	VA Inrush
8030	F	10.6	6.1	16	40
	F	11.6	10.1	25	70
	F	16.8	16.1	35	95
	F	---	17.1	40	93
	F	---	20.1	48	240
8040/8215	F	---	6.1	16	40
	F	11.6	10.1	25	70
	B	14.9	---	---	---
	F	---	15.4	27	160
	F	---	28.2	50	385
8210	F	---	6.1	16	40
	F	11.6	10.1	25	70
	F	16.8	16.1	35	180
	F	---	17.1	40	93
	F	---	20	43	240
	F	---	20.1	48	240
	H	30.6	---	---	---
8221	F	11.6	6.1	16	30
	F	16.8	16.1	35	95
	F	22.6	---	---	---
8223/8262/8263	F	10.6	6.1	16	30
	F	11.6	10.1	25	50
	F	22.6	17.1	40	70

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

### CONSTRUCTION

Valve Parts in Contact with Fluids								
	Series 8030	Series 8040	Series 8210	Series 8215	Series 8221	Series 8223	Series 8262	Series 8263
<b>Body</b>	Brass or 304 s.s. as listed	Aluminum	Brass or 304 s.s. as listed	Aluminum	Brass	Brass or 300 s.s. as listed	Brass or 303/304 s.s. as listed	Brass or 303/304 s.s. as listed
<b>Seals, Diaphragms &amp; Discs</b>	Buna 'N'	Buna 'N'	Buna 'N' or Teflon	Buna 'N'	Buna 'N' or Teflon	Brass Body-Buna 'N', Nylon, Teflon St.St.Body-Buna 'N', Teflon	Buna 'N' or Cast Urethane	Buna 'N'
<b>Disc-Holder</b>			Nylon	Nylon (10.1 & 11.6 watt normally open only)				
<b>Core Guide</b>		Acetal						
<b>Core Tube</b>	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.
<b>Rider Rings</b>		Teflon						
<b>Core &amp; Plugnut</b>	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.
<b>Springs</b>	302 s.s.	302 s.s.	302 s.s.	302 s.s.	302 s.s.	302 s.s.	302 s.s.	302 s.s.
<b>Piston</b>					St.St. or Brass			
<b>Shading Coil</b>	Brass Body-Copper St.St. Body-Silver	Copper	Brass Body-Copper St.St. Body-Silver	Copper	Copper	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver
<b>Stem</b>	Nylon (normally open)						Nylon or Acetal (normally open)	

## 2 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)							Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating / Class of Coil Insulation	
			Min	Maximum AC			Maximum DC			AC	DC			AC	DC
				Air- Inert Gas	Water	Light Oil @ 300 SSU	Air- Inert Gas	Water	Light Oil @ 300 SSU						
<b>NORMALLY CLOSED (Closed when de-energized)</b>															
1/8	3/64	.06	0	750	750	530	650	640	550	180	120	8262G1	BRASS	6.1/F	10.6/F
	3/64	.06	0	750	750	530	650	640	550	180	120	8262G12	SS	6.1/F	10.6/F
	3/32	.20	0	275	290	130	150	140	145	180	120	8262G14	BRASS	6.1/F	10.6/F
	3/32	.20	0	275	290	130	150	140	145	180	120	8262G15	SS	6.1/F	10.6/F
	1/8	.34	0	155	180	140	80	80	80	180	120	8262G2	BRASS	6.1/F	10.6/F
	1/8	.34	0	155	180	140	80	80	80	180	120	8262G6	SS	6.1/F	10.6/F
	3/8	1.0	0	15	-	-	-	-	-	125	-	8040H6	ALUM	6.1/F	-
1/4	3/64	.06	0	750	750	500	500	500	500	180	120	8262G19	BRASS	6.1/F	10.6/F
	3/64	.06	0	750	750	500	500	500	500	180	120	8262G80	SS	6.1/F	10.6/F
	3/64	.06	0	1500	1500	1100	475	475	450	140	140	8262G200	BRASS	10.1/F	11.6/F
	3/64	.06	0	2200	2000	1100	-	-	-	140	140	8262G214	SS	10.1/F	-
	3/32	.17	0	360	340	160	150	125	125	180	120	8262G20	BRASS	6.1/F	10.6/F
	3/32	.17	0	360	340	160	150	125	125	180	120	8262G86	SS	6.1/F	10.6/F
	1/8	.35	0	140	165	90	65	60	60	180	120	8262G22	BRASS	6.1/F	10.6/F
	1/8	.35	0	140	165	90	65	60	60	180	120	8262G7	SS	6.1/F	10.6/F
	1/8	.35	0	300	300	200	75	70	70	180	150	8262G232	BRASS	10.1/F	11.6/F
	5/32	.50	0	180	200	145	40	40	45	180	150	8262G202	BRASS	10.1/F	11.6/F
	5/32	.50	0	180	200	145	40	40	45	180	150	8262G220	SS	10.1/F	11.6/F
	7/32	.72	0	90	100	100	25	25	25	180	150	8262G208	BRASS	10.1/F	11.6/F
	7/32	.72	0	90	100	100	25	25	25	180	150	8262G226	SS	10.1/F	11.6/F
	7/32	.85	0	40	50	40	17	20	21	180	120	8262G13	BRASS	6.1/F	10.6/F
	7/32	.85	0	40	50	40	17	20	21	180	120	8262G36	SS	6.1/F	10.6/F
	9/32	.88	0	60	75	60	18	15	18	180	150	8262G210	BRASS	10.1/F	11.6/F
	9/32	.88	0	90	100	90	25	20	22	180	150	8262G212	BRASS	17.1/F	22.6/F
	9/32	.88	0	90	100	90	25	20	22	180	150	8262G230	SS	17.1/F	22.6/F
	9/32	.96	0	27	36	28	15	16	16	180	120	8262G90	BRASS	6.1/F	10.6/F
	9/32	.96	0	27	36	28	15	16	16	180	120	8262G38	SS	6.1/F	10.6/F
5/16	1.5	10	750	750	750	-	-	-	200	-	8223G21	BRASS	10.1/F	-	
5/16	1.5	10	1500	1500	1500	500	500	500	200	150	8223G25	BRASS	17.1/F	22.6/F	
3/8	1.1	0	15	-	-	-	-	-	125	-	8040H7	ALUM	6.1/F	-	
3/8	1/8	.35	0	160	150	90	65	60	60	180	120	8263G2	BRASS	6.1/F	10.6/F
	1/8	.35	0	160	150	90	65	60	60	180	120	8263G330	SS	6.1/F	10.6/F
	5/32	.52	0	100	100	100	35	35	35	180	150	8263G200	BRASS	10.1/F	11.6/F
	5/32	.52	0	100	100	100	35	35	35	180	150	8263G331	SS	10.1/F	11.6/F
	7/32	.72	0	100	100	100	25	25	25	180	150	8263G206	BRASS	17.1/F	11.6/F
	7/32	.72	0	100	100	100	25	25	25	180	150	8263G332	SS	17.1/F	11.6/F
	9/32	.85	0	100	100	70	-	-	-	180	-	8263G210	BRASS	17.1/F	-
	9/32	.85	0	100	100	70	-	-	-	180	-	8263G333	SS	17.1/F	-
	5/16	1.5	10	750	750	750	400	400	400	200	150	8223G23	BRASS	10.1/F	22.6/F
	5/16	1.5	10	1500	1500	1500	500	500	500	200	150	8223G27	BRASS	17.1/F	22.6/F
	3/8	1.2	0	15	-	-	-	-	-	125	-	8040H8	ALUM	6.1/F	-
	3/8	1.5	②	150	125	-	40	40	-	180	150	8210G73	BRASS	6.1/F	11.6/F
	3/8	1.5	②	150	125	-	40	40	-	180	150	8210G36	SS	6.1/F	11.6/F
	3/8	1.8	0	7	5	-	3	3	-	180	120	8030G10	BRASS	6.1/F	10.6/F
	3/8	1.8	0	7	5	-	3	3	-	180	120	8030G64	SS	6.1/F	10.6/F
	3/8	1.8	0	15	15	-	3.5	3.5	-	180	150	8030G13	BRASS	10.1/F	11.6/F
	3/8	1.8	0	15	15	-	3.5	3.5	-	180	150	8030G65	SS	10.1/F	11.6/F
	9/16	3	5	-	150	-	-	125	-	180	150	8221G1 ②	BRASS	6.1/F	11.6/F
	5/8	3	0	150	150	-	40	40	-	180	150	8210G93	BRASS	10.1/F	11.6/F
	5/8	3	5	200	150	135	125	100	100	180	150	8210G1	BRASS	6.1/F	11.6/F
5/8	3	5	300	300	300	-	-	-	175	-	8210G6	BRASS	17.1/F	-	
3/4	3.4	0	50	-	-	25	-	-	125	104	8215G10	ALUM	10.1/F	11.6/F	
3/4	3.5	5	125	-	-	125	-	-	125	104	8215G1	ALUM	6.1/F	11.6/F	
1/2	3/8	3.2	25	1500	1500	1500	500	500	500	200	150	8223G3	BRASS	17.1/F	22.6/F
	3/8	3.2	25	1500	1500	1500	500	500	500	200	150	8223G10	SS	17.1/F	22.6/F
	7/16	2.2	③	150	125	-	40	40	-	180	150	8210G15	BRASS	6.1/F	11.6/F
	7/16	2.2	③	150	125	-	40	40	-	180	150	8210G37	SS	6.1/F	11.6/F
	7/16	2.8	0	4	6	-	-	-	-	180	-	8030G16	BRASS	6.1/F	-
	7/16	2.8	0	4	6	-	-	-	-	180	-	8030G66	SS	6.1/F	-
	7/16	2.8	0	-	-	-	6	6	-	180	-	8030A17	BRASS	-	16.8/F
	7/16	2.8	0	15	15	-	-	-	-	200	-	8030G17	BRASS	16.1/F	-
	7/16	2.8	0	-	-	-	6	6	-	180	-	8030A67	SS	-	16.8/F
	7/16	2.8	0	15	15	-	-	-	-	200	-	8030G67	SS	16.1/F	-
	9/16	3.5	5	-	150	-	-	125	-	180	150	8221G3 ②	BRASS	6.1/F	11.6/F
	5/8	4	0	150	150	-	40	40	-	180	150	8210G94	BRASS	10.1/F	11.6/F

Notes: ① For detailed catalogue information and dimensions see Cat. 33C. ② Slow closing valve designed to prevent water hammer. ③ 5 psi on Air, 1 psi on Water.

## 2 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)							Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating / Class of Coil Insulation	
			Min	Maximum AC			Maximum DC			AC	DC			AC	DC
				Air- Inert Gas	Water	Light Oil @ 300 SSU	Air- Inert Gas	Water	Light Oil @ 300 SSU						
<b>NORMALLY CLOSED (Closed when de-energized)</b>															
1/2	5/8	4	0	150	150	125	40	40	-	175	150	8210G87	SS	17.1/F	11.6/F
	5/8	4	5	200	150	135	125	100	100	180	150	8210G2	BRASS	6.1/F	11.6/F
	5/8	4	5	300	300	300	-	-	-	175	-	8210G7	BRASS	17.1/F	-
	5/8	4	5	300	300	-	300	300	-	180	125	8210G227	BRASS	17.1/F	40.6/H
	3/4	4.4	0	50	-	-	25	-	-	125	104	8215G20	ALUM	10.1/F	11.6/F
	3/4	4.8	5	125	-	-	125	-	-	125	104	8215G2	ALUM	6.1/F	11.6/F
3/4	5.4	0	2	-	-	-	-	-	125	-	8040G22	ALUM	10.1/F	-	
3/4	5/8	4.5	0	150	150	125	40	40	-	175	150	8210G88	SS	17.1/F	11.6/F
	5/8	5.4	0	2.5	2.5	-	-	-	-	180	-	8030G63	SS	10.1/F	-
	3/4	5	0	2	2	-	1	1	-	180	150	8030G3	BRASS	10.1/F	11.6/F
	3/4	5	0	4	4	-	-	-	-	180	-	8030G43	BRASS	17.1/F	-
	3/4	5	0	150	150	-	40	40	-	180	150	8210G95	BRASS	10.1/F	11.6/F
	3/4	5	5	125	125	125	100	90	75	180	150	8210G9	BRASS	6.1/F	11.6/F
	3/4	5.1	0	50	-	-	25	-	-	125	104	8215G30	ALUM	10.1/F	11.6/F
	3/4	5.1	5	125	-	-	125	-	-	125	104	8215G3	ALUM	6.1/F	11.6/F
	3/4	5.5	5	-	150	-	-	125	-	180	150	8221G5 ②	BRASS	6.1/F	11.6/F
	3/4	6	0	-	-	-	200	180	180	-	77	8210B26	BRASS	-	30.6/H
	3/4	6	0	350	300	200	-	-	-	200	77	8210G26	BRASS	16.1/F	-
	3/4	6.5	5	250	150	100	125	125	125	180	150	8210G3	BRASS	6.1/F	11.6/F
	3/4	7.8	25	750	750	750	450	450	450	200	150	8223G5	BRASS	17.1/F	22.6/F
	3/4	7.8	25	750	750	750	450	450	450	200	150	8223G12	SS	17.1/F	22.6/F
3/4	9.5	0	2	-	-	-	-	-	125	-	8040G23	ALUM	10.1/F	-	
1	1	11.5	5	-	150	-	-	125	-	180	150	8221G7 ②	BRASS	6.1/F	11.6/F
	1	13	0	-	-	-	100	100	80	-	77	8210B54	BRASS	-	30.6/H
	1	13	0	-	-	-	100	100	80	-	77	8210D89	SS	-	30.6/H
	1	13	0	150	125	125	-	-	-	180	-	8210G54	BRASS	16.1/F	-
	1	13	0	150	125	125	-	-	-	180	-	8210G89	SS	16.1/F	-
	1	13	5	150	150	100	125	125	125	180	150	8210G4	BRASS	6.1/F	11.6/F
	1	13.5	0	300	225	115	-	-	-	200	-	8210G27	BRASS	20.1/F	-
	1	13.5	10	300	300	300	-	-	-	175	-	8210G78	BRASS	17.1/F	-
1 1/4	1 5/8	21	0	25	-	-	25	-	-	125	77	8215B50	ALUM	15.4/F	14.9/B
	1 1/8	13	5	-	150	-	-	125	-	180	150	8221G9 ②	BRASS	6.1/F	11.6/F
	1 1/8	15	0	-	-	-	100	100	80	-	77	8210B55	BRASS	-	30.6/F
	1 1/8	15	0	150	125	125	-	-	-	180	77	8210G55	BRASS	16.1/F	-
	1 1/8	15	5	150	150	100	125	125	125	180	150	8210G8	BRASS	6.1/F	11.6/F
	1 5/8	32	0	25	-	-	25	-	-	125	77	8215B60	ALUM	15.4/F	14.9/B
1 1/2	1 1/4	22.5	0	-	-	-	100	100	80	-	77	8210B56	BRASS	-	30.6/F
	1 1/4	22.5	0	150	125	125	-	-	-	180	-	8210G56	BRASS	16.1/F	-
	1 1/4	22.5	5	150	150	100	125	125	125	180	150	8210G22	BRASS	6.1/F	11.6/F
	1 1/4	24	5	-	150	-	-	125	-	180	150	8221G11 ②	BRASS	6.1/F	11.6/F
	1 5/8	35	0	25	-	-	25	-	-	125	77	8215B70	ALUM	15.4/F	14.9/B
2	1 3/4	36	5	-	150	-	-	125	-	180	150	8221G13 ②	BRASS	6.1/F	22.6/F
	1 3/4	43	5	150	125	90	50	50	50	180	150	8210G100	BRASS	6.1/F	11.6/F
	2 3/32	60	0	25	-	-	15	-	-	125	77	8215B80	ALUM	15.4/F	14.9/B
2 1/2	1 3/4	38	5	-	150	-	-	125	-	180	150	8221G15 ②	BRASS	6.1/F	22.6/F
	1 3/4	45	5	150	125	90	50	50	50	180	150	8210G101	BRASS	6.1/F	11.6/F
	3	117	0	5	-	-	-	-	-	125	-	8215A90	ALUM	28.2/F	-
3	3	138	0	5	-	-	-	-	125	-	8215A40	ALUM	28.2/F	-	
<b>NORMALLY OPEN (Open when de-energized)</b>															
1/8	1/16	.09	0	500	300	225	400	250	150	180	120	8262G91	BRASS	6.1/F	10.6/F
	1/16	.09	0	500	300	225	400	250	150	180	120	8262G92	SS	6.1/F	10.6/F
	3/32	.15	0	275	200	150	190	110	110	180	120	8262G93	BRASS	6.1/F	10.6/F
	3/32	.15	0	275	200	150	190	110	110	180	120	8262G94	SS	6.1/F	10.6/F
	1/8	.21	0	125	100	85	80	60	50	180	120	8262G31	BRASS	6.1/F	10.6/F
1/4	1/8	.21	0	125	100	85	80	60	50	180	120	8262G35	SS	6.1/F	10.6/F
	3/64	.06	0	750	700	700	500	500	500	140	140	8262G260	BRASS	10.1/F	11.6/F
	3/64	.06	0	750	700	700	500	500	500	140	140	8262G130	SS	10.1/F	11.6/F
	3/32	.17	0	300	250	230	200	150	125	140	140	8262G261	BRASS	10.1/F	11.6/F
	3/32	.17	0	300	250	230	200	150	125	140	140	8262G134	SS	10.1/F	11.6/F
	1/8	.35	0	130	110	100	80	60	60	180	150	8262G262	BRASS	10.1/F	11.6/F
	1/8	.35	0	130	110	100	80	60	60	180	150	8262G138	SS	10.1/F	11.6/F
	5/32	.49	0	85	75	60	45	30	30	180	150	8262G263	BRASS	10.1/F	11.6/F
	5/32	.49	0	85	75	60	45	30	30	180	150	8262G142	SS	10.1/F	11.6/F
	7/32	.83	0	45	45	40	25	20	20	180	150	8262G264	BRASS	10.1/F	11.6/F
7/32	.83	0	45	45	40	25	20	20	180	150	8262G148	SS	10.1/F	11.6/F	

Notes: ① For detailed catalogue information and dimensions see Cat. 33C. ② Slow closing valve designed to prevent water hammer.

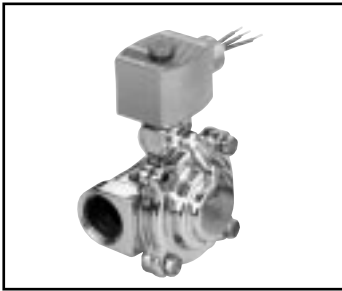
## 2 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)							Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating / Class of Coil Insulation	
			Min	Maximum AC			Maximum DC			AC	DC			AC	DC
				Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU						
<b>NORMALLY OPEN (Open when de-energized) (cont'd)</b>															
1/4	9/32	.96	0	30	25	20	15	15	15	180	150	8262G265	BRASS	10.1/F	11.6/F
	9/32	.96	0	30	25	20	15	15	15	180	150	8262G152	SS	10.1/F	11.6/F
3/8	3/8	1.6	0	-	-	-	2.4	2	-	-	180	8030A70	BRASS	-	16.8/F
	3/8	1.6	0	15	15	-	-	-	-	200	-	8030G70	BRASS	16.1/F	-
	9/16	3	5	-	-	-	-	125	-	-	150	8221G21 ②	BRASS	-	16.8/F
	9/16	3	5	-	150	-	-	-	-	180	-	8221G21 ②	BRASS	16.1/F	-
	5/8	3	0	150	150	125	125	125	80	180	150	8210G33	BRASS	10.1/F	11.6/F
	5/8	3	5	250	200	200	250	200	200	180	180	8210G11	BRASS	10.1/F	11.6/F
1/2	3/4	3.2	0	125	-	-	125	-	-	125	104	8215G13	ALUM	10.1/F	11.6/F
	7/16	2.2	0	-	-	-	2.5	2	-	-	180	8030A71	BRASS	-	16.8/F
	7/16	2.2	0	15	15	-	-	-	-	200	-	8030G71	BRASS	20.1/F	-
	9/16	3.5	5	-	-	-	-	125	-	-	150	8221G23 ②	BRASS	-	16.8/F
	9/16	3.5	5	-	150	-	-	-	-	180	-	8221G23 ②	BRASS	16.1/F	-
	5/8	3	0	150	150	100	125	125	80	180	150	8210G30	SS	10.1/F	11.6/F
	5/8	4	0	150	150	125	125	125	80	180	150	8210G34	BRASS	10.1/F	11.6/F
	5/8	4	5	250	200	200	250	200	200	180	180	8210G12	BRASS	10.1/F	11.6/F
	3/4	4	0	125	-	-	125	-	-	125	104	8215G23	ALUM	10.1/F	11.6/F
	3/4	5	0	2	2	-	-	-	-	180	-	8030G82	BRASS	10.1/F	-
3/4	5/8	3	0	150	150	100	125	125	80	180	150	8210G38	SS	10.1/F	11.6/F
	3/4	4.6	0	125	-	-	125	-	-	125	104	8215G33	ALUM	10.1/F	11.6/F
	3/4	5.5	5	-	-	-	-	125	-	-	150	8221G25 ②	BRASS	-	16.8/F
	3/4	5.5	5	-	150	-	-	-	-	180	-	8221G25 ②	BRASS	16.1/F	-
	3/4	5.5	0	2	2	-	-	-	-	180	-	8030G83	BRASS	10.1/F	-
	3/4	5.5	0	150	150	125	125	125	80	180	150	8210G35	BRASS	10.1/F	11.6/F
	3/4	6.5	5	-	-	-	250	200	200	180	180	8210C13	BRASS	-	16.8/F
	3/4	6.5	5	250	200	200	-	-	-	180	-	8210G13	BRASS	16.1/F	-
1	1	11.5	5	-	-	-	-	125	-	-	150	8221G27 ②	BRASS	-	16.8/F
	1	11.5	5	-	150	-	-	-	-	180	-	8221G27 ②	BRASS	16.1/F	-
	1	13	0	125	125	125	-	-	-	180	-	8210B57	BRASS	20/F	-
	1	13	5	-	-	-	125	125	125	-	180	8210D14	BRASS	-	16.8/F
	1	13	5	150	150	125	-	-	-	180	-	8210G14	BRASS	16.1/F	-
	1 5/8	22	0	25	-	-	15	-	-	125	77	8215C53	ALUM	15.4/F	14.9/B
1 1/4	1 1/8	13	5	-	-	-	-	125	-	-	150	8221G29 ②	BRASS	-	16.8/F
	1 1/8	13	5	-	150	-	-	-	-	180	-	8221G29 ②	BRASS	16.1/F	-
	1 1/8	15	0	125	125	125	-	-	-	180	-	8210B58	BRASS	20/F	-
	1 1/8	15	5	-	-	-	125	125	125	-	180	8210D18	BRASS	-	16.8/F
	1 1/8	15	5	150	150	125	-	-	-	180	-	8210G18	BRASS	16.1/F	-
	1 5/8	33	0	25	-	-	15	-	-	125	77	8215C63	ALUM	15.4/F	14.9/B
1 1/2	1 1/4	22.5	0	125	125	125	-	-	-	180	-	8210B59	BRASS	20/F	-
	1 1/4	22.5	5	-	-	-	125	125	125	-	180	8210D32	BRASS	-	16.8/F
	1 1/4	22.5	5	150	150	125	-	-	-	180	-	8210G32	BRASS	16.1/F	-
	1 1/4	24	5	-	-	-	-	125	-	-	150	8221G31 ②	BRASS	-	16.8/F
	1 1/4	24	5	-	150	-	-	-	-	180	-	8221G31 ②	BRASS	16.1/F	-
	1 5/8	37	0	25	-	-	15	-	-	125	77	8215C73	ALUM	15.4/F	14.9/B
2	1 3/4	36	5	-	-	-	-	125	-	-	150	8221G33 ②	BRASS	-	16.8/F
	1 3/4	36	5	-	150	-	-	-	-	180	-	8221G33 ②	BRASS	16.1/F	-
	1 3/4	43	5	-	-	-	125	125	125	-	150	8210I03	BRASS	-	16.8/F
	1 3/4	43	5	125	125	125	-	-	-	180	-	8210G103	BRASS	16.1/F	-
	2 3/32	58	0	25	-	-	15	-	-	125	77	8215C83	ALUM	15.4/F	14.9/B
	2 1/2	1 3/4	38	5	-	-	-	-	125	-	-	150	8221G35 ②	BRASS	-
1 3/4		38	5	-	150	-	-	-	-	180	-	8221G35 ②	BRASS	16.1/F	-
1 3/4		45	5	-	-	-	125	125	125	-	150	8210I04	BRASS	-	16.8/F
1 3/4		45	5	125	125	125	-	-	-	180	-	8210G104	BRASS	16.1/F	-
3		117	0	5	-	-	-	-	-	125	-	8215B93	ALUM	28.2/F	-

Notes: ① For detailed catalogue information and dimensions see Cat. 33C. ② Slow closing valve designed to prevent water hammer.



## 2 WAY/2 POSITION HOT WATER AND STEAM SERVICE VALVES



### FEATURES

- Wide range of valve constructions, including Straight Through and Slow Closing, with Normally Closed and Normally Open operation.
- Teflon and Ethylene Propylene discs, stainless steel seats, plus high temperature coils help provide long, reliable life.
- Specify these valves for high temperature applications found in laundries, molding, steam atomization, sterilizers, autoclaves and many others.

### SOLENOID ENCLOSURES

Standard: Red Hat II - Watertight, Types 1,2,3,3S,4 & 4X

Optional: For Explosion proof and other optional enclosures, see Catalogue 33C

### APPROVALS

All valves in this section are CSA Certified. All Red Hat II valves meet CE directives. For valves in this section that are UL listed, please refer to Catalogue 33C.

### FACTORY STOCK

Valve Catalogue numbers shown in red are normal stock items. These items are usually stock in 120/60. For other voltages, consult factory.

ELECTRICAL INFORMATION					
Series	Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
		AC			
		DC Watts	Watts	VA Holding	VA Inrush
8210	F	---	6.1	16	40
	F	11.6	10.1	25	70
8220	F	---	10.1	25	70
	H	---	10.1	25	70
8221	F	---	16.1	35	180
	H	---	16.1	35	180
8263	F	---	6.1	16	30
	F	---	16.1	35	95
8267	H	---	10.1	25	50
8267	H	---	16.1	35	180

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

CONSTRUCTION					
Valve Parts in Contact with Fluids					
	Series 8210HW	Series 8220	Series 8221HW	Series 8263	Series 8267
<b>Body</b>	Brass	Brass	Brass	Brass	Brass
<b>Seals, Diaphragms &amp; Discs</b>	Ethylene Propylene	Ethylene Propylene or Teflon	Ethylene Propylene	Teflon	Viton, Stainless Steel & Glass-filled Teflon
<b>Core Tube</b>	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.
<b>Core &amp; Plugnut</b>	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.
<b>Springs</b>	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
<b>Piston</b>		Stainless Steel	Stainless Steel		
<b>Shading Coil</b>	Copper	Copper	Copper	Copper	Copper

## 2 WAY/2 POSITION HOT WATER AND STEAM SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)				Maximum Fluid Temp. °F			① Catalogue Number	Body Material	Watt Rating/ Class of Coil Insulation	
			Min.	Maximum AC		Maximum DC	Hot Water		Steam			AC	DC
				Hot Water	Steam	Hot Water	AC	DC	AC				
<b>Normally Closed (Closed when de-energized)</b>													
1/4	5/32	.52	0	110	110	---	210	---	344	8263G300	BRASS	10.1/H	---
3/8	5/32	.52	0	110	110	---	210	---	344	8263G305	BRASS	10.1/H	---
	9/16	3	5	150	---	---	210	---	---	8221G1HW ②	BRASS	6.1/F	---
	5/8	3	0	100	---	40	210	150	---	8210G93HW	BRASS	10.1/F	11.6/F
	5/8	3	5	125	---	100	210	150	---	8210G1HW	BRASS	6.1/F	11.6/F
	5/8	3	5	150	50	---	210	---	300	8220G1	BRASS	10.1/F	---
	5/8	3	5	125	150	---	210	---	353	8220G19	BRASS	10.1/H	---
	3/8	5.1	0	---	30	---	---	---	280	8267G3	BRASS	16.1/H	---
1/2	9/16	3.5	5	150	---	---	210	---	---	8221G3HW ②	BRASS	6.1/F	---
	5/8	4	0	100	---	40	210	150	---	8210G94HW	BRASS	10.1/F	11.6/F
	5/8	4	5	125	---	100	210	150	---	8210G2HW	BRASS	6.1/F	11.6/F
	5/8	4	5	150	50	---	210	---	300	8220G3	BRASS	10.1/F	---
	5/8	4	5	150	125	---	210	---	353	8220G21	BRASS	10.1/H	---
3/4	3/8	4.5	0	---	15	---	---	---	250	8267G7	BRASS	16.1/H	---
	3/4	5	0	100	---	40	210	150	---	8210G95HW	BRASS	10.1/F	11.6/F
	3/4	5	5	125	---	100	210	150	---	8210G9HW	BRASS	6.1/F	11.6/F
	3/4	5	5	150	50	---	210	---	300	8220G5	BRASS	10.1/F	---
	3/4	5	5	150	125	---	210	---	353	8220G23	BRASS	10.1/H	---
	3/4	5.5	5	150	---	---	210	---	---	8221G5HW ②	BRASS	6.1/F	---
1	1/2	9.7	0	---	15	---	---	---	250	8267G19	BRASS	16.1/H	---
	1	11.5	5	150	---	---	210	---	---	8221G7HW ②	BRASS	6.1/F	---
	1	13.5	5	150	50	---	210	---	300	8220G7	BRASS	10.1/F	---
1 1/4	1	13.5	5	150	125	---	210	---	353	8220G25	BRASS	10.1/H	---
	1 1/8	13	5	150	---	---	210	---	---	8221G9HW ②	BRASS	6.1/F	---
	1 1/8	15	5	150	50	---	210	---	300	8220G9	BRASS	10.1/F	---
	1 1/8	15	5	150	125	---	210	---	353	8220G27	BRASS	10.1/H	---
1 1/2	1 1/4	22.5	5	150	50	---	210	---	300	8220G11	BRASS	10.1/F	---
	1 1/4	22.5	5	150	125	---	210	---	353	8220G29	BRASS	10.1/H	---
	1 1/4	24	5	150	---	---	210	---	---	8221G11HW ②	BRASS	6.1/F	---
2	1 3/4	36	5	150	---	---	210	---	---	8221G13HW ②	BRASS	6.1/F	---
	1 3/4	43	5	150	50	---	210	---	300	8220G13	BRASS	10.1/F	---
	1 3/4	43	5	150	125	---	210	---	353	8220G31	BRASS	10.1/H	---
2 1/2	1 3/4	38	5	150	---	---	210	---	---	8221G15HW ②	BRASS	6.1/F	---
	1 3/4	45	5	150	50	---	210	---	300	8220G15	BRASS	10.1/F	---
	1 3/4	45	5	150	125	---	210	---	353	8220G33	BRASS	10.1/H	---
<b>Normally Open (Open when de-energized)</b>													
3/8	9/16	3	5	150	---	---	210	---	---	8221G21HW ②	BRASS	16.1/F	---
	9/16	3	5	150	50	---	210	---	300	8220G71	BRASS	16.1/F	---
	9/16	3	5	150	125	---	210	---	353	8220G91	BRASS	16.1/H	---
1/2	9/16	3.5	5	150	---	---	210	---	---	8221G23HW ②	BRASS	16.1/F	---
	9/16	4	5	150	50	---	210	---	300	8220G73	BRASS	16.1/F	---
	9/16	4	5	150	125	---	210	---	353	8220G93	BRASS	16.1/H	---
3/4	3/4	5	5	150	50	---	210	---	300	8220G75	BRASS	16.1/F	---
	3/4	5	5	150	125	---	210	---	353	8220G95	BRASS	16.1/H	---
	3/4	5.5	5	150	---	---	210	---	---	8221G25HW ②	BRASS	16.1/F	---
1	1	11.5	5	150	---	---	210	---	---	8221G27HW ②	BRASS	16.1/F	---
	1	13.5	5	150	50	---	210	---	300	8220G77	BRASS	16.1/F	---
	1	13.5	5	150	125	---	210	---	353	8220G97	BRASS	16.1/H	---
1 1/4	1 1/8	13	5	150	---	---	210	---	---	8221G29HW ②	BRASS	16.1/F	---
	1 1/8	15	5	150	50	---	210	---	300	8220G79	BRASS	16.1/F	---
	1 1/8	15	5	150	125	---	210	---	353	8220G99	BRASS	16.1/H	---
1 1/2	1 1/4	22.5	5	150	50	---	210	---	300	8220G81	BRASS	16.1/F	---
	1 1/4	22.5	5	150	125	---	210	---	353	8220G101	BRASS	16.1/H	---
	1 1/4	24	5	150	---	---	210	---	---	8221G31HW ②	BRASS	16.1/F	---
2	1 3/4	36	5	150	---	---	210	---	---	8221G33HW ②	BRASS	16.1/F	---
	1 3/4	43	5	150	50	---	210	---	300	8220G83	BRASS	16.1/F	---
	1 3/4	43	5	150	125	---	210	---	353	8220G103	BRASS	16.1/H	---
2 1/2	1 3/4	38	5	150	---	---	210	---	---	8221G35HW ②	BRASS	16.1/F	---
	1 3/4	43	5	150	50	---	210	---	300	8220G85	BRASS	16.1/F	---
	1 3/4	43	5	150	125	---	210	---	353	8220G105	BRASS	16.1/H	---

**Notes:** ① For detailed catalogue information and dimensions, see Cat.33C.

② Slow closing valve designed to prevent water hammer





# 3 WAY/2 POSITION GENERAL SERVICE VALVES



## FEATURES

- Normally Closed, Normally Open and Universal operation
- Wide range of pressure ratings, pipe sizes and body materials
- Air/Inert Gas, Water and Lt. Oil Service
- Reliable, proven design with high flows

## SOLENOID ENCLOSURES

Standard: Red Hat II - Watertight, Types 1,2,3,3S,4 & 4X  
 Red Hat 1 - Type 1

Note: Red Hat II valves are indicated by the change letter "G" in their catalogue number. Eg. 8320G200

Optional: For Explosion proof and other optional enclosures, see Catalogue 33C

## APPROVALS

All valves in this section are CSA Certified. All Red Hat II valves meet CE directives. For valves in this section that are UL listed, please refer to Catalogue 33C.

## FACTORY STOCK

Valve Catalogue numbers shown in red are normal stock items. These items are usually stock in 120/60.

For other voltages, consult factory.

ELECTRICAL INFORMATION					
Series	Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
		DC Watts	AC		
			Watts	VA Holding	VA Inrush
8300	F	---	20.1	43	240
	H	36.2	28	60	330
8314/8316/8317/8320/ 8321	F	10.6	6.1	16	30
	F	11.6	10.1	25	50
	F	22.6	17.1	40	70
8327	F	11.6	12	12	12

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

CONSTRUCTION							
Valve Parts in Contact with Fluids							
	Series 8300	Series 8314	Series 8316	Series 8317	Series 8320	Series 8321	Series 8327
<b>Body</b>	Brass or 304 s.s. as listed	Brass or 303 s.s. as listed	Brass or 316 s.s. as listed	Brass or 304 s.s. as listed	Brass or 303 s.s. as listed	Brass	Brass or 316 s.s. as listed
<b>End Plate</b>			Brass Body-Brass or 304 s.s. St.St. Body-316 s.s.				
<b>Seals, Diaphragms &amp; Discs</b>	Disc: 303 s.s. (Metal Disc), Brass (Resilient Disc) Gaskets: Brass Body-Buna 'N' St.St. Body-Teflon	Buna 'N', Nylon	Brass Body-Buna 'N' Zero Min. Brass Body-Low Temp Buna 'N' Zero Min.St.St.Body-Viton	Disc-Buna 'N' & Nylon Diaphragm-Neoprene	Buna 'N'	Buna 'N'	Brass Body-Buna 'N' St.St.Body-Viton Low-Temp Const.-Silicone
<b>Seats</b>	Brass Body-Buna 'N' St.St. Body-303 s.s.						
<b>Pilot Seat Cartridge Disc-Holder</b>			Acetal			Acetal	
<b>Core Guide</b>		Acetal (All AC valves and 1/8" Normally Open DC valves)	Acetal		Acetal (10.1 & 17.1 Watt only)	Acetal	
<b>Core Tube</b>	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.
<b>Stem &amp; Insert</b>							303 s.s.
<b>Rider Rings</b>							Teflon
<b>Core &amp; Plugnut</b>	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.
<b>O-ring Holder</b>							430F s.s.
<b>Springs</b>	302 s.s. & 17-7PH s.s.	302 s.s. & 17-7PH s.s.	302 s.s. & 17-7PH s.s.	302 s.s. & 17-7PH s.s.	302 s.s.	302 s.s. & 17-7PH s.s.	302 s.s.
<b>Piston</b>						Brass and 303 s.s.	
<b>Shading Coil</b>	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver	Brass Body-Copper St.St. Body-Silver	Copper	

## 3 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)		Cv Flow Factor		Operating Pressure Differential						Maximum Fluid Temp. °F		Catalogue Number	Body Material	Watt Rating/ Class of Coil Insulation		
	Press.	Exh.	Press.	Exh.	Min	Maximum AC			Maximum DC			AC			DC	AC	DC
						Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU						
<b>NORMALLY CLOSED (Closed when de-energized)</b>																	
1/8	3/64	-	.04	-	0	230	230	230	120	140	135	200	104	8314G31	BRASS	10.1/F	11.6/F
	1/16	-	.09	-	0	210	225	225	160	160	160	180	120	8320G215	BRASS	17.1/F	11.6/F
	1/16	-	.09	-	0	210	225	225	160	160	160	180	120	8320G224	SS	17.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	115	115	115	180	120	8320G216	BRASS	10.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	115	115	115	180	120	8320G225	SS	10.1/F	11.6/F
	1/8	-	.13	-	0	-	-	-	250	250	250	-	180	8300D55F	BRASS	-	36.2/H
	1/8	-	.13	-	0	550	550	550	-	-	-	200	-	8300G55F	BRASS	20.1/F	-
	1/8	-	.21	-	0	85	85	85	60	60	60	180	120	8320G217	BRASS	10.1/F	11.6/F
	1/8	-	.21	-	0	85	85	85	60	60	60	180	120	8320G226	SS	10.1/F	11.6/F
	3/16	-	.35	-	0	-	-	-	125	125	125	-	180	8300D3F	BRASS	-	36.2/H
3/16	-	.35	-	0	250	250	250	-	-	-	200	-	8300G3F	BRASS	20.1/F	-	
1/4	3/64	-	.04	-	0	230	-	-	120	-	-	200	104	8314G22	BRASS	10.1/F	11.6/F
	3/64	-	.04	-	0	230	230	230	120	140	135	200	104	8314G34	BRASS	10.1/F	11.6/F
	1/16	-	.09	-	0	210	225	225	160	160	160	200	150	8320G182	BRASS	17.1/F	11.6/F
	1/16	-	.09	-	0	210	225	225	160	160	160	200	150	8320G231	SS	17.1/F	11.6/F
	3/32	1/4	.20	.73	5	150	-	-	-	-	-	180	-	8317G23	BRASS	10.1/F	-
	3/32	1/4	.20	.73	5	150	-	-	-	-	-	180	-	8317G24	SS	10.1/F	-
	3/32	1/4	.20	.73	5	150	150	95	75	55	30	180	104	8317G35	BRASS	10.1/F	11.6/F
	3/32	1/4	.20	.73	5	150	150	95	75	55	30	180	104	8317G36	SS	10.1/F	11.6/F
	3/32	-	.15	-	0	150	-	-	60	-	-	200	104	8314G23	BRASS	10.1/F	11.6/F
	3/32	-	.15	-	0	150	100	100	60	70	30	200	104	8314G35	BRASS	10.1/F	11.6/F
	3/32	-	.15	-	0	150	100	100	60	70	30	200	104	8314G121	SS	10.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	115	115	115	200	150	8320G184	BRASS	10.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	115	115	115	200	150	8320G202	SS	10.1/F	11.6/F
	1/8	-	.25	-	0	75	60	60	30	40	25	200	104	8314G36	BRASS	10.1/F	11.6/F
	1/8	-	.25	-	0	85	85	85	60	60	60	200	150	8320G186	BRASS	10.1/F	11.6/F
	1/8	-	.25	-	0	85	85	85	60	60	60	200	150	8320G203	SS	10.1/F	11.6/F
	11/64	-	.35	-	0	45	45	45	25	25	25	200	150	8320G188	BRASS	10.1/F	11.6/F
	3/16	-	.35	-	0	-	-	-	125	125	125	-	180	8300D58F	BRASS	-	36.2/H
	3/16	-	.25	-	0	-	-	-	125	125	125	-	180	8300D58RF	BRASS	-	36.2/H
	3/16	-	.35	-	0	250	250	250	-	-	-	200	-	8300G58F	BRASS	20.1/F	-
3/16	-	.25	-	0	250	250	250	-	-	-	180	-	8300G58RF	BRASS	20.1/F	-	
1/4	-	.45	-	0	250	250	250	-	-	-	200	-	8300D61F	BRASS	28/H	-	
1/4	-	.39	-	0	-	-	-	75	75	75	-	180	8300A81RF	BRASS	-	36.2/H	
1/4	-	.45	-	0	-	-	-	75	75	75	-	180	8300A81F	BRASS	-	36.2/H	
1/4	-	.45	-	0	190	190	190	-	-	-	200	-	8300G81F	BRASS	20.1/F	-	
1/4	-	.39	-	0	150	150	150	-	-	-	180	-	8300G81RF	BRASS	20.1/F	-	
9/32	11/32	.80	1.20	10	200	200	200	200	200	200	180	120	8321G1	BRASS	6.1/F	10.6/F	
5/16	-	1.5	-	0	150	-	-	120	-	-	180	120	8316G1	BRASS	10.1	11.6	
5/16	-	1.5	-	0	150	-	-	120	-	-	180	120	EV8316G81V	SS	10.1	11.6	
3/8	1/4	-	.45	-	0	250	250	250	-	-	-	200	-	8300D9F	BRASS	28/H	-
	1/4	-	.45	-	0	-	-	-	75	75	75	-	180	8300A82F	BRASS	-	36.2/H
	1/4	-	.39	-	0	-	-	-	75	75	75	-	180	8300A82RF	BRASS	-	36.2/H
	1/4	-	.45	-	0	190	190	190	-	-	-	200	-	8300G82F	BRASS	20.1/F	-
	1/4	-	.39	-	0	150	150	150	-	-	-	180	-	8300G82RF	BRASS	20.1/F	-
	1/4	-	.45	-	0	-	-	-	50	50	50	-	180	8300B410F	SS	-	36.2/H
	1/4	-	.45	-	0	150	150	150	-	-	-	200	-	8300G410F	SS	20.1/F	-
	1/4	-	.45	-	0	175	175	175	-	-	-	200	-	8300B411F	SS	28/H	-
	9/32	11/32	.80	1.20	10	200	200	200	200	200	200	180	120	8321G2	BRASS	6.1/F	10.6/F
	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300D64F	BRASS	-	36.2/H
	5/16	-	.53	-	0	-	-	-	40	40	40	-	180	8300D64RF	BRASS	-	36.2/H
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G64F	BRASS	20.1/F	-
5/16	-	.53	-	0	120	120	120	-	-	-	180	-	8300G64RF	BRASS	20.1/F	-	
5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300B412F	SS	-	36.2/H	

Note: ① For detailed catalogue information and dimensions see Cat. 33C.

### 3 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)		Cv Flow Factor		Operating Pressure Differential							Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating/Class of Coil Insulation	
	Press.	Exh.	Press.	Exh.	Min	Maximum AC			Maximum DC			AC	DC			AC	DC
						Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU						
<b>NORMALLY CLOSED (Closed when de-energized)</b>																	
3/8	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G412F	SS	20.1/F	-
	5/16	-	1.8	-	1	150	-	-	120	-	-	180	120	8316G2	BRASS	10.1	11.6
	5/16	-	1.8	-	1	150	-	-	120	-	-	180	120	EV8316G82V	SS	10.1	11.6
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300D72F	BRASS	-	36.2/H
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G72F	BRASS	20.1/F	-
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300B413F	SS	-	36.2/H
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G413F	SS	20.1/F	-
	5/8	-	4	-	-	150	-	-	120	-	-	180	120	8316G3	BRASS	10.1	11.6
	5/8	-	2.5	-	10	250	250	-	250	250	-	180	120	8316G14	BRASS	17.1/F	22.6/F
	5/8	-	3	-	10	150	125	-	125	125	-	180	120	8316G54	BRASS	6.1/F	10.6/F
1/2	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300D68F	BRASS	-	36.2/H
	5/16	-	.53	-	0	-	-	-	40	40	40	-	180	8300D68RF	BRASS	-	36.2/H
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G68F	BRASS	20.1/F	-
	5/16	-	.53	-	0	120	120	120	-	-	-	180	-	8300G68RF	BRASS	20.1/F	-
	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300B403F	SS	-	36.2/H
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G403F	SS	20.1/F	-
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300D76F	BRASS	-	36.2/H
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G76F	BRASS	20.1/F	-
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300B404F	SS	-	36.2/H
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G404F	SS	20.1/F	-
	5/8	-	4	-	0	150	-	-	120	-	-	180	120	8316G4	BRASS	10.1	11.6
	5/8	-	3.2	-	10	250	250	-	250	250	-	180	120	8316G24	BRASS	17.1/F	22.6/F
	5/8	-	3.2	-	10	150	125	-	125	125	-	180	120	8316G64	BRASS	6.1/F	10.6/F
5/8	-	4	-	0	150	-	-	120	-	-	180	120	EV8316G84V	SS	10.1	11.6	
3/4	11/16	-	4.8	-	10	150	125	-	125	125	-	180	120	8316G74	BRASS	6.1/F	10.6/F
	11/16	-	4.8	-	10	250	250	-	250	250	-	180	120	8316G44	BRASS	17.1/F	22.6/F
1	1	-	12.5	-	10.5	150	125	-	125	125	-	180	120	8316G34	BRASS	6.1/F	10.6/F
<b>NORMALLY OPEN (Open when de-energized)</b>																	
1/8	3/64	-	.04	-	0	300	300	300	200	200	120	200	104	8314G49	BRASS	10.1/F	11.6/F
	1/16	-	.09	-	0	235	250	250	160	160	160	180	120	8320G218	BRASS	17.1/F	11.6/F
	1/16	-	.09	-	0	235	250	250	160	160	160	180	120	8320G227	SS	17.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	100	100	100	180	120	8320G219	BRASS	10.1/F	11.6/F
	3/32	-	.12	-	0	150	150	150	100	100	100	180	120	8320G228	SS	10.1/F	11.6/F
	1/8	-	.13	-	0	-	-	-	250	250	250	-	180	8300D55G	BRASS	-	36.2/H
	1/8	-	.13	-	0	550	550	550	-	-	-	200	-	8300G55G	BRASS	20.1/F	-
	1/8	-	.21	-	0	70	70	70	55	55	55	180	120	8320G220	BRASS	10.1/F	11.6/F
	1/8	-	.21	-	0	70	70	70	55	55	55	180	120	8320G229	SS	10.1/F	11.6/F
	3/16	-	.35	-	0	-	-	-	125	125	125	-	180	8300D3G	BRASS	-	36.2/H
	3/16	-	.35	-	0	250	250	250	-	-	-	200	-	8300G3G	BRASS	20.1/F	-
	1/4	1/16	-	.09	-	0	250	250	250	160	160	160	200	150	8320G192	BRASS	17.1/F
1/16		-	.09	-	0	250	250	250	160	160	160	200	150	8320G232	SS	17.1/F	11.6/F
3/32		1/4	.15	.73	5	160	160	95	75	45	25	180	104	8317G53	BRASS	10.1/F	11.6/F
3/32		1/4	.15	.73	5	160	160	95	75	45	25	180	104	8317G54	SS	10.1/F	11.6/F
3/32		-	.15	-	0	175	175	175	70	90	45	200	104	8314G53	BRASS	10.1/F	11.6/F
3/32		-	.15	-	0	175	175	175	70	90	45	200	104	8314G122	SS	10.1/F	11.6/F
3/32		-	.12	-	0	150	140	140	100	100	100	200	150	8320G194	BRASS	10.1/F	11.6/F
3/32		-	.12	-	0	150	140	140	100	100	100	200	150	8320G204	SS	10.1/F	11.6/F
1/8		-	.25	-	0	90	90	90	40	40	25	200	104	8314G54	BRASS	10.1/F	11.6/F
1/8		-	.25	-	0	70	70	70	55	55	55	200	150	8320G196	BRASS	10.1/F	11.6/F
1/8		-	.25	-	0	70	70	70	55	55	55	200	150	8320G205	SS	10.1/F	11.6/F
11/64		-	.35	-	0	40	40	40	30	30	30	200	150	8320G198	BRASS	10.1/F	11.6/F
3/16		-	.35	-	0	-	-	-	125	125	125	-	180	8300D58G	BRASS	-	36.2/H
3/16	-	.25	-	0	-	-	-	125	125	125	-	180	8300D58RG	BRASS	-	36.2/H	

Note: ① For detailed catalogue information and dimensions see Cat. 33C.

## 3 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)		Cv Flow Factor		Operating Pressure Differential						Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating/ Class of Coil Insulation			
	Press.	Exh.	Press.	Exh.	Min	Maximum AC			Maximum DC			AC			DC	AC	DC	
						Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU							
<b>NORMALLY OPEN (Open when de-energized)</b>																		
1/4	3/16	-	.35	-	0	250	250	250	-	-	-	200	-	8300G58G	BRASS	20.1/F	-	
	3/16	-	.25	-	0	250	250	250	-	-	-	180	-	8300G58RG	BRASS	20.1/F	-	
	1/4	-	.45	-	0	250	250	250	-	-	-	200	-	8300D61G	BRASS	28/H	-	
	1/4	-	.45	-	0	-	-	-	75	75	75	-	180	8300A81G	BRASS	-	36.2/H	
	1/4	-	.39	-	0	-	-	-	75	75	75	-	180	8300A81RG	BRASS	-	36.2/H	
	1/4	-	.45	-	0	190	190	190	-	-	-	200	-	8300G81G	BRASS	20.1/F	-	
	1/4	-	.39	-	0	150	150	150	-	-	-	180	-	8300G81RG	BRASS	20.1/F	-	
	9/32	11/32	.80	1.20	10	200	200	200	200	200	200	180	120	8321G3	BRASS	6.1/F	10.6/F	
3/8	1/4	-	.45	-	0	250	250	250	-	-	-	200	-	8300D9G	BRASS	28/H	-	
	1/4	-	.45	-	0	-	-	-	75	75	75	-	180	8300A82G	BRASS	-	36.2/H	
	1/4	-	.39	-	0	-	-	-	75	75	75	-	180	8300A82RG	BRASS	-	36.2/H	
	1/4	-	.45	-	0	190	190	190	-	-	-	200	-	8300G82G	BRASS	20.1/F	-	
	1/4	-	.39	-	0	150	150	150	-	-	-	180	-	8300G82RG	BRASS	20.1/F	-	
	1/4	-	.45	-	0	-	-	-	50	50	50	-	180	8300B410G	SS	-	36.2/H	
	1/4	-	.45	-	0	150	150	150	-	-	-	200	-	8300G410G	SS	20.1/F	-	
	1/4	-	.45	-	0	175	175	175	-	-	-	200	-	8300B411G	SS	28/H	-	
		9/32	11/32	.80	1.20	10	200	200	200	200	200	200	180	120	8321G4	BRASS	6.1/F	10.6/F
	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300D64G	BRASS	-	36.2/H	
	5/16	-	.53	-	0	-	-	-	40	40	40	-	180	8300D64RG	BRASS	-	36.2/H	
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G64G	BRASS	20.1/F	-	
	5/16	-	.53	-	0	120	120	120	-	-	-	180	-	8300G64RG	BRASS	20.1/F	-	
	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300B412G	SS	-	36.2/H	
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G412G	SS	20.1/F	-	
3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300D72G	BRASS	-	36.2/H		
3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G72G	BRASS	20.1/F	-		
3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300B413G	SS	-	36.2/H		
3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G413G	SS	20.1/F	-		
5/8	-	2.5	-	10	250	250	-	250	250	-	180	120	8316G16	BRASS	17.1/F	22.6/F		
5/8	-	2.5	-	10	150	125	-	125	125	-	180	120	8316G56	BRASS	6.1/F	10.6/F		
1/2	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300D68G	BRASS	-	36.2/H	
	5/16	-	.53	-	0	-	-	-	40	40	40	-	180	8300D68RG	BRASS	-	36.2/H	
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G68G	BRASS	20.1/F	-	
	5/16	-	.53	-	0	120	120	120	-	-	-	180	-	8300G68RG	BRASS	20.1/F	-	
	5/16	-	.75	-	0	-	-	-	40	40	40	-	180	8300B403G	SS	-	36.2/H	
	5/16	-	.75	-	0	120	120	120	-	-	-	200	-	8300G403G	SS	20.1/F	-	
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300D76G	BRASS	-	36.2/H	
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G76G	BRASS	20.1/F	-	
	3/8	-	1	-	0	-	-	-	30	30	30	-	180	8300B404G	SS	-	36.2/H	
	3/8	-	1	-	0	75	75	75	-	-	-	200	-	8300G404G	SS	20.1/F	-	
	5/8	-	3.2	-	10	250	250	-	250	250	-	180	120	8316G26	BRASS	17.1/F	22.6/F	
5/8	-	3.2	-	10	150	125	-	125	125	-	180	120	8316G66	BRASS	6.1/F	10.6/F		
3/4	11/16	-	4.8	-	10	250	250	-	250	250	-	180	120	8316G46	BRASS	17.1/F	22.6/F	
	11/16	-	4.8	-	10	150	125	-	125	125	-	180	120	8316G76	BRASS	6.1/F	10.6/F	
1	1	-	12.5	-	10	150	125	-	125	125	-	180	120	8316G36	BRASS	6.1/F	10.6/F	
<b>UNIVERSAL OPERATION</b>																		
1/8	3/64	-	.04	-	0	160	160	160	70	65	65	200	104	8314G41	BRASS	10.1/F	11.6/F	
	1/16	-	.09	-	0	175	175	175	125	125	125	180	120	8320G212	BRASS	17.1/F	22.6/F	
	1/16	-	.09	-	0	175	175	175	125	125	125	180	120	8320G221	SS	17.1/F	22.6/F	
	3/32	-	.12	-	0	100	100	100	60	60	60	180	120	8320G213	BRASS	17.1/F	11.6/F	
	3/32	-	.12	-	0	100	100	100	60	60	60	180	120	8320G222	SS	17.1/F	11.6/F	
	1/8	-	.13	-	0	-	-	-	125	125	125	-	180	8300D55U	BRASS	-	36.2/H	
	1/8	-	.13	-	0	300	300	300	-	-	-	200	-	8300G55U	BRASS	20.1/F	-	
1/8	-	.21	-	0	50	50	50	25	25	25	180	120	8320G214	BRASS	17.1/F	11.6/F		

Note: ① For detailed catalogue information and dimensions see Cat. 33C.

### 3 WAY/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)		Cv Flow Factor		Operating Pressure Differential							Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating/ Class of Coil Insulation	
	Press.	Exh.	Press.	Exh.	Min	Maximum AC			Maximum DC			AC	DC			AC	DC
						Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU						
<b>UNIVERSAL OPERATION</b>																	
1/8	1/8	-	.21	-	0	50	50	50	25	25	25	180	120	8320G223	SS	17.1/F	11.6/F
	3/16	-	.35	-	0	-	-	-	60	60	60	-	180	8300D3U	BRASS	-	36.2/H
	3/16	-	.35	-	0	150	150	150	-	-	-	200	-	8300G3U	BRASS	20.1/F	-
1/4	3/64	-	.04	-	0	160	160	160	70	65	65	200	104	8314G6	BRASS	10.1/F	11.6/F
	1/16	-	.09	-	0	125	130	130	75	75	75	200	150	8320G172	BRASS	10.1/F	11.6/F
	1/16	-	.09	-	0	175	175	175	125	125	125	200	150	8320G230	SS	17.1/F	22.6/F
	3/32	1/4	.20	.73	5	80	50	50	40	30	15	180	104	8317G7	BRASS	10.1/F	11.6/F
	3/32	1/4	.20	.73	5	80	50	50	40	30	15	180	104	8317G8	SS	10.1/F	11.6/F
	3/32	-	.12	-	0	100	100	100	60	60	60	200	150	8320G174	BRASS	17.1/F	11.6/F
	3/32	-	.12	-	0	100	100	100	60	60	60	200	150	8320G200	SS	17.1/F	11.6/F
	3/32	-	.15	-	0	80	40	40	35	35	15	200	104	8314G7	BRASS	10.1/F	11.6/F
	3/32	-	.15	-	0	80	40	40	35	35	15	200	104	8314G120	SS	10.1/F	11.6/F
	1/8	-	.25	-	0	45	25	25	20	15	15	200	104	8314G8	BRASS	10.1/F	11.6/F
	1/8	-	.25	-	0	50	50	50	25	25	25	200	150	8320G176	BRASS	17.1/F	11.6/F
	1/8	-	.25	-	0	50	50	50	25	25	25	200	150	8320G201	SS	17.1/F	11.6/F
	11/64	-	.35	-	0	20	20	20	12	12	12	200	150	8320G178	BRASS	10.1/F	11.6/F
	3/16	-	.35	-	0	-	-	-	60	60	60	-	180	8300D58U	BRASS	-	36.2/H
	3/16	-	.25	-	0	-	-	-	60	60	60	-	180	8300D58RU	BRASS	-	36.2/H
	3/16	-	.35	-	0	150	150	150	-	-	-	200	-	8300G58U	BRASS	20.1/F	-
	3/16	-	.25	-	0	150	150	150	-	-	-	180	-	8300G58RU	BRASS	20.1/F	-
	1/4	-	.45	-	0	-	-	-	35	35	35	-	180	8300A81U	BRASS	-	36.2/H
	1/4	-	.39	-	0	-	-	-	35	35	35	-	180	8300A81RU	BRASS	-	36.2/H
	1/4	-	.45	-	0	120	120	120	-	-	-	200	-	8300D61U	BRASS	28/H	-
1/4	-	.45	-	0	90	90	90	-	-	-	200	-	8300G81U	BRASS	20.1/F	-	
1/4	-	.39	-	0	75	75	75	-	-	-	180	-	8300G81RU	BRASS	20.1/F	-	
3/8	1/4	-	.45	-	0	-	-	-	35	35	35	-	180	8300A82U	BRASS	-	36.2/H
	1/4	-	.39	-	0	-	-	-	35	35	35	-	180	8300A82RU	BRASS	-	36.2/H
	1/4	-	.45	-	0	120	120	120	-	-	-	200	-	8300D9U	BRASS	28/H	-
	1/4	-	.45	-	0	90	90	90	-	-	-	200	-	8300G82U	BRASS	20.1/F	-
	1/4	-	.39	-	0	75	75	75	-	-	-	180	-	8300G82RU	BRASS	20.1/F	-
	1/4	-	.45	-	0	-	-	-	25	25	25	-	180	8300B410U	SS	-	36.2/H
	1/4	-	.45	-	0	75	75	75	-	-	-	200	-	8300G410U	SS	20.1/F	-
	1/4	-	.45	-	0	85	85	85	-	-	-	200	-	8300B411U	SS	28/H	-
	5/16	-	.75	-	0	-	-	-	20	20	20	-	180	8300D64U	BRASS	-	36.2/H
	5/16	-	.53	-	0	-	-	-	20	20	20	-	180	8300D64RU	BRASS	-	36.2/H
	5/16	-	.75	-	0	60	60	60	-	-	-	200	-	8300G64U	BRASS	20.1/F	-
	5/16	-	.53	-	0	60	60	60	-	-	-	180	-	8300G64RU	BRASS	20.1/F	-
	5/16	-	.75	-	0	-	-	-	20	20	20	-	180	8300B412U	SS	-	36.2/H
	5/16	-	.75	-	0	60	60	60	-	-	-	200	-	8300G412U	SS	20.1/F	-
	3/8	-	1	-	0	-	-	-	15	15	15	-	180	8300D72U	BRASS	-	36.2/H
	3/8	-	1	-	0	35	35	35	-	-	-	200	-	8300G72U	BRASS	20.1/F	-
3/8	-	1	-	0	-	-	-	15	15	15	-	180	8300B413U	SS	-	36.2/H	
3/8	-	1	-	0	35	35	35	-	-	-	200	-	8300G413U	SS	20.1/F	-	
1/2	5/16	-	.75	-	0	-	-	-	20	20	20	-	180	8300D68U	BRASS	-	36.2/H
	5/16	-	.53	-	0	-	-	-	20	20	20	-	180	8300D68RU	BRASS	-	36.2/H
	5/16	-	.75	-	0	60	60	60	-	-	-	200	-	8300G68U	BRASS	20.1/F	-
	5/16	-	.53	-	0	60	60	60	-	-	-	180	-	8300G68RU	BRASS	20.1/F	-
	5/16	-	.75	-	0	-	-	-	20	20	20	-	180	8300B403U	SS	-	36.2/H
	5/16	-	.75	-	0	60	60	60	-	-	-	200	-	8300G403U	SS	20.1/F	-
	3/8	-	1	-	0	-	-	-	15	15	15	-	180	8300D76U	BRASS	-	36.2/H
	3/8	-	1	-	0	35	35	35	-	-	-	200	-	8300G76U	BRASS	20.1/F	-
	3/8	-	1	-	0	-	-	-	15	15	15	-	180	8300B404U	SS	-	36.2/H
3/8	-	1	-	0	35	35	35	-	-	-	200	-	8300G404U	SS	20.1/F	-	

Note: ① For detailed catalogue information and dimensions see Cat. 33C.



## 4/2 AND 5/2 POSITION GENERAL SERVICE VALVES



### FEATURES

- Single and dual solenoids
- Dual solenoid can be shifted with a momentary signal and remain in position even if electrical power is lost.
- Wide range of pressure ratings, pipe sizes and body materials
- Air/Inert Gas, Water and Lt. Oil Service
- Reliable, proven design with high flows

### SOLENOID ENCLOSURES

Standard: 8401 Series - Open Frame Solenoid

All others - Red Hat II - Watertight, Types 1,2,3,3S,4 & 4X

Note: Red Hat II valves are indicated by the change letter "G" in their catalogue number. Eg. 8345G1

Optional: For Explosion proof and other optional enclosures, see Catalogue 33C

### APPROVALS

All valves in this section are CSA Certified. All Red Hat II valves meet CE directives. For valves in this section that are UL listed, please refer to Catalogue 33C.

### FACTORY STOCK

Valve Catalogue numbers shown in red are normal stock items. These items are usually stock in 120/60. For other voltages, consult factory.

ELECTRICAL INFORMATION					
Series	Standard Coil and Class of Insulation	Watt Rating and Power Consumption			
		DC Watts	AC		
			Watts	VA Holding	VA Inrush
8342	F	---	16.1	35	115
	F	---	20.1	45	140
8344/8345/8551	F	10.6	6.1	16	30
	F	11.6	10.1	25	50
	F	22.6	17.1	40	70
8401	F	6.9	6.3	8.8	12.1

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

CONSTRUCTION					
Valve Parts in Contact with Fluids					
	Series 8342	Series 8344	Series 8345	Series 8401	Series 8551
Body	Brass or 304 s.s. as listed	Brass	Brass or 316 s.s. as listed		316 s.s.
Main Valve Body, Sub- & Manifold Base, End Caps				Aluminum	
Pilot Valve Body				Moulded Zytel Nylon	
End Caps				Stainless Steel (non-metering), Moulded Zytel Nylon (metering)	316 s.s.
Seals & Discs	Buna 'N' & Viton	Buna 'N'	Brass Body-Buna 'N' & Nylon St.St.Body-Viton, Nylon & Urethane	Buna 'N' (Carboxylated Nitrile)	Buna 'N' & Polyurethane
Shaft Gasket		Lead/Copper			
Seats	Graphite-filled Teflon				
Pilot Seat Cartridge and Disc-Holder		Acetal			
Spool				Moulded Delrin	316 s.s.
Slide				Graphite-filled Teflon	
Flow Plate				Ceramic (alumina)	
Core Tube	305 s.s.	305 s.s.	305 s.s.	305 s.s.	305 s.s.
Core & Plugnut	430F s.s.	430F s.s.	430F s.s.	430F s.s.	430F s.s.
Springs	302 s.s. & 17-7PH s.s.	302 s.s. & 17-7PH s.s.	302 s.s.	302 s.s.	302 s.s.
Piston			Nylon		
Shading Coil	Copper	Copper	Copper		Copper
Sleeve	Nylon				
Other Internal Parts					Zinc Alloy, Steel, Acetal & Brass

## 4/2 WAY AND 5/2 POSITION GENERAL SERVICE VALVES

Pipe Size (ins.)	Orifice Size (ins.)		Cv Flow Factor		Operating Pressure Differential (psi)						Maximum Fluid Temp. °F		① Catalogue Number	Body Material	Watt Rating/ Class of Coil Insulation		
	Press.	Exh.	Press.	Exh.	Min.	Maximum AC			Maximum DC			AC			DC	AC	DC
						Air- Inert Gas	Water	Light Oil @ 300 SSU	Air- Inert Gas	Water	Light Oil @ 300 SSU						
<b>Single Solenoid</b>																	
1/8	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B100 ②	ALUM	6.3/F	6.9/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B102 ③	ALUM	6.3/F	6.9/F
1/4	1/16	3/32	.09	.09	10	150	150	150	100	100	100	180	104	8345G1	BRASS	10.1/F	11.6/F
	1/16	3/32	.09	.09	10	150	150	150	100	100	100	180	104	EV8345G81	SS	10.1/F	11.6/F
	1/16	3/32	.09	.09	10	150	---	---	100	---	---	180	104	8345H3	BRASS	10.1/F	11.6/F
	3/16	---	.70	---	0	125	100	100	---	---	---	160	---	8342G1	BRASS	20.1/F	---
	3/16	---	.70	---	0	125	100	100	---	---	---	160	---	8342G701	SS	20.1/F	---
	1/4	---	.80	1.0	10	250	250	250	250	250	250	180	180	8344G0	BRASS	17.1/F	22.6/F
	1/4	---	.80	1.0	10	150	125	125	125	125	125	180	150	8344G70	BRASS	10.1/F	11.6/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B101 ②	ALUM	6.3/F	6.9/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B103 ③	ALUM	6.3/F	6.9/F
3/8	1/4	---	.84	---	35	150	150	150	120	120	120	140	120	8551G453	SS	10.1/F	11.6/F
	3/16	---	.70	---	0	125	100	100	---	---	---	160	---	8342G3	BRASS	20.1/F	---
	3/16	---	.70	---	0	125	100	100	---	---	---	160	---	8342G703	SS	20.1/F	---
	1/4	---	.80	1.0	10	250	250	250	250	250	250	180	180	8344G1	BRASS	17.1/F	22.6/F
1/2	3/8	---	1.4	2.2	10	150	125	125	125	125	125	180	150	8344G72	BRASS	10.1/F	11.6/F
	3/8	---	1.4	2.2	10	250	250	250	250	250	250	180	180	8344G27	BRASS	17.1/F	22.6/F
3/4	3/8	---	1.4	2.2	10	150	125	125	125	125	125	180	150	8344G74	BRASS	10.1/F	11.6/F
	3/4	---	5.2	5.6	10	250	250	250	250	250	250	180	180	8344G29	BRASS	17.1/F	22.6/F
1	3/4	---	5.2	5.6	10	150	125	125	125	125	125	180	150	8344G76	BRASS	10.1/F	11.6/F
	3/4	---	5.2	5.6	10	250	250	250	250	250	250	180	180	8344G31	BRASS	17.1/F	22.6/F
1	3/4	---	5.2	5.6	10	150	125	125	125	125	125	180	150	8344G78	BRASS	10.1/F	11.6/F
	3/4	---	5.2	5.6	10	250	250	250	250	250	250	180	180	8344G31	BRASS	17.1/F	22.6/F
<b>Dual Solenoid</b>																	
1/8	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B104 ②	ALUM	6.3/F	6.9/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B106 ③	ALUM	6.3/F	6.9/F
1/4	3/16	---	.70	---	0	125	125	125	---	---	---	160	---	8342G20	BRASS	16.1/F	---
	3/16	---	.70	---	0	125	125	125	---	---	---	160	---	8342G720	SS	16.1/F	---
	1/4	---	.80	1.0	10	250	200	125	125	125	100	180	120	8344G44	BRASS	6.1/F	10.6/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B105 ②	ALUM	6.3/F	6.9/F
	1/4	---	.80	---	20	150	---	---	150	---	---	135	77	U8401B107 ③	ALUM	6.3/F	6.9/F
	1/4	---	.84	---	35	150	150	150	120	120	120	140	120	8551G455	SS	10.1/F	11.6/F
3/8	3/16	---	.70	---	0	125	125	125	---	---	---	160	---	8342G22	BRASS	16.1/F	---
	3/16	---	.70	---	0	125	125	125	---	---	---	160	---	8342G722	SS	16.1/F	---
	3/8	---	1.4	2.2	10	300	300	200	---	---	---	180	---	8344G50	BRASS	10.1/F	---
1/2	3/8	---	1.4	2.2	10	250	200	200	125	125	100	180	120	8344G80	BRASS	6.1/F	10.6/F
	3/8	---	1.4	2.2	10	250	200	125	125	125	100	180	120	8344G82	BRASS	6.1/F	10.6/F
3/4	3/4	---	5.2	5.6	10	300	300	200	125	125	100	180	120	8344G54	BRASS	10.1/F	10.6/F
1	3/4	---	5.2	5.6	10	300	300	200	125	125	100	180	120	8344G56	BRASS	10.1/F	10.6/F

**Notes:** ① For detailed catalogue information and dimensions, see Cat.33C.

② Sub-Base mounted.

③ Manifold mounted.

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