

### Direct Acting General Service Solenoid Valves Brass or Stainless Steel Bodies

1/8" to 3/8" NPT



#### **Features**

- Reliable, proven design with high flows.
- Small poppet valves for tight shutoff.
- Wide range of elastomers for specialty service.
- Mountable in any position.
- Brass body construction for general atmospheres; Stainless Steel for corrosive atmospheres.

#### Construction

Valve Parts in Contact with Fluids							
303/304 Stainless Steel							
NBR or Cast UR							
305 Stainless Steel							
430F Stainless Steel							
302 Stainless Steel							
Silver							
PA (Normally Open)							
Stem PA (Normally Open)							

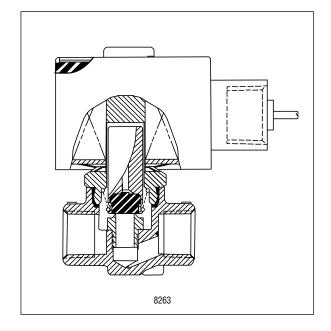
Note: All 1/8" NPT Normally Open valves contain CA. All 1/4" NPT Normally Open valves contain PA.

#### Electrical

			Rating and Consumpt		Spare Co	il Part No.			
Standard			AC		General	Purpose	Explosionproof		
Coil and Class of Insulation	DC Watts	Watts	VA Holding	VA Inrush	AC	DC	AC	DC	
F	10.6	6.1	16	30	238210	238310	238214	238314	
F	11.6	10.1	25	50	238610	238710	238614	238714	
F	22.6	17.1	40	70	238610	238710	238614	238714	

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.

# (6



#### **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" to catalog number)

See Optional Features Section for other available options.

#### **Nominal Ambient Temperature Ranges:**

AC: 32°F to 125°F (0°C to 52°C) DC: 32°F to 104°F (0°C to 40°C)

Refer to Engineering Section for details.

#### Approvals:

CSA certified. UL listed, as indicated. Normally Closed Valves FM approved. Meets applicable CE directives. Refer to Engineering Section for details.



#### Specifications (English units)

			0	perating	g Pressui	re Diffe	rential (	psi)	Ma	ix. uid								Rating/ of Coil
				Max. A	C		Max. D	C	Tem	p. °F	Bras	s Body		Stainless	Steel Bo	ody		tion ②
Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Air- Inert Gas	Water	Lt. Oil @ 300 \$\$U	Air- Inert Gas	Water	Lt. Oil @ 300 \$SU	AC	DC	Catalog Number	Constr. Ref. No.	UL ③ Listing	Catalog Number	Constr. Ref. No.	UL ③ Listing	AC	DC
NORMA	LLY CLO	SED (CI	osed wl	nen de-	energize	d), NBF	l Disc											
1/8	3/64	.06	750	750	530	650	640	550	180	120	8262G1	1	О	8262G12	1	О	6.1/F	10.6/F
1/8	3/32	.20	275	290	130	150	140	145	180	120	8262G14	1	0	8262G15	1	0	6.1/F	10.6/F
1/8	1/8	.34	155	180	140	80	80	80	180	120	8262G2	1	0	8262G6	1	0	6.1/F	10.6/F
1/4	3/64	.06	750	750	500	500	500	500	180	120	8262G19	16	0	8262G80	11	0	6.1/F	10.6/F
1/4	3/64	.06	1500	1500	1100	475	475	450	140	140	8262G200	17	•	-	-	- 1	10.1/F	11.6/F
1/4	3/64	.06	2200	2000	1100	-	-	-	140	140	-	-	-	8262G214	12	•	10.1/F	-
1/4	3/32	.17	360	340	160	150	125	125	180	120	8262G20	16	0	8262G86	11	0	6.1/F	10.6/F
1/4	1/8	.35	140	165	90	65	60	60	180	120	8262G22	16	0	8262G7	11	0	6.1/F	10.6/F
1/4	1/8	.35	300	300	200	75	70	70	180	150	8262G232	17	0	-	-	-	10.1/F	11.6/F
1/4	5/32	.50	180	200	145	40	40	45	180	150	8262G202	4	О	8262G220	12	О	10.1/F	11.6/F
1/4	7/32	.72	90	100	100	25	25	25	180	150	8262G208	4	0	8262G226	12	0	10.1/F	11.6/F
1/4	7/32	.85	40	50	40	17	20	21	180	120	8262G13	2	0	8262G36	11	0	6.1/F	10.6/F
1/4	9/32	.88	60	75	60	18	15	18	180	150	8262G210	4	0	-	-	-	10.1/F	11.6/F
1/4	9/32	.88	90	100	90	25	20	22	180	150	8262G212	6	0	8262G230	13	0	17.1/F	22.6/F
1/4	9/32	.96	27	36	28	15	16	16	180	120	8262G90	2	0	8262G38	11	0	6.1/F	10.6/F
3/8	1/8	.35	160	150	90	65	60	60	180	120	8263G2	3	0	8263G330	3	0	6.1/F	10.6/F
3/8	5/32	.52	100	100	100	35	35	35	180	150	8263G200	5	0	8263G331	5	0	10.1/F	11.6/F
3/8	7/32	.72	100	100	100	25	25	25	180	150	8263G206	5	0	8263G332	5	0	17.1/F	11.6/F
3/8	9/32	.85	100	100	70	-	-	-	180	_	8263G210	7	О	8263G333	7	0	17.1/F	-
NORMA	NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)																	
1/8	1/16	.09	500	300	225	400	250	150	180	120	8262G91	8	•	8262G92	8	•	6.1/F	10.6/F
1/8	3/32	.15	275	200	150	190	110	110	180	120	8262G93	8	•	8262G94	8	•	6.1/F	10.6/F
1/8	1/8	.21	125	100	85	80	60	50	180	120	8262G31	8	•	8262G35	8	•	6.1/F	10.6/F
1/4	3/64	.06	750	700	700	500	500	500	140	140	8262G260 ①	9	•	8262G130 ①	14	•	10.1/F	11.6/F
1/4	3/32	.17	300	250	230	200	150	125	140	140	8262G261 ①	9	•	8262G134 ①	14	•	10.1/F	11.6/F
1/4	1/8	.35	130	110	100	80	60	60	180	150	8262G262	9	•	8262G138	14	•	10.1/F	11.6/F
1/4	5/32	.49	85	75	60	45	30	30	180	150	8262G263	4	•	8262G142	14	•	10.1/F	11.6/F
1/4	7/32	.83	45	45	40	25	20	20	180	150	8262G264	4	•	8262G148	14	•	10.1/F	11.6/F
1/4	9/32	.96	30	25	20	15	15	15	180	150	8262G265	4	•	8262G152	14	•	10.1/F	11.6/F

Notes: ① Cast UR disc supplied as standard.
② On 50 hertz service, the rating for the 6.1/F solenoid is 8.1 watts.
③ ○ Safety Shutoff Valve; ● General Purpose Valve. Refer to Engineering Section (Approvals) for details.



#### **Specifications** (Metric units)

Normality   Closed when de-energized  Normality   Closed when de-en																			_
Pipe Size (Size)         Orifice (Inch)         Ke Floor (Inch)         Air (Inch)         Li. Oil (Inch)         Catalog (S)         Constr. (Inch)         UL (Inch)         Catalog (Inch)         Usiting         Catalog (Inch)         Catalog (Inch	Natt Rating/ Class of Coil	Cla		04I D	Otainlass		a Dadu	Buss	uid	Flu						10			
No.	nsulation @	IIIS	oay	Steel R	Stainless		s Boay	Bras	p. C	iem	Ü .	Max. D			IVIAX. A				
1/8	AC DC	Q A		Ref.			Ref.		DC	AC	@ 300	Water	Inert	@ 300	Water	Inert	Factor	Size	Size
1/8												Disc	), NBR	energized	en de-e	sed wh	SED (Clo	LLY CLO	NORMA
1/8	6.1/F 10.6/F	6.1	0	1	8262G12	О	1	8262G1	48	81	38	44	45	37	52	52	.05	1.2	1/8
1/4	6.1/F 10.6/F	6.1	0	1	8262G15	0	1	8262G14	48	81	10	10	10	9	20	19	.17	2.4	1/8
1/4       1.2       .05       103       103       76       33       33       31       60       60       82626200       17       ●       -       -       -       11       1/4       1.2       .05       152       138       76       -       -       -       60       60       -       -       -       82626214       12       ●       11         1/4       2.4       .15       25       23       11       10       9       9       81       48       8262622       16       ○       8262667       11       ○       6         1/4       3.2       .30       10       11       6       4       4       4       81       48       82626232       17       ○       -       -       -       11       0       6       6       7       7       2       2       2       81       65       82626202       4       ○       82626220       12       ○       11       1/4       4.0       4.0       82626220       12       ○       82626220       12       ○       11       1/4       5.6       6       7       7       2       2       2       81       65	6.1/F 10.6/F	6.1	О	1	8262G6	0	1	8262G2	48	81	6	6	6	10	12	11	.29	3.2	1/8
1/4         1.2         .05         152         138         76         -         -         -         60         60         -         -         -         8262G214         12         ●         11           1/4         2.4         .15         25         23         11         10         9         9         81         48         8262G20         16         ○         8262G67         11         ○         6           1/4         3.2         .30         10         11         6         4         4         4         81         48         8262G22         16         ○         8262G7         11         ○         6           1/4         3.2         .30         21         21         14         5         5         5         81         65         8262G220         1         ○         8262G220         12         ○         11           1/4         4.0         4.3         12         14         10         3         3         3         1         1         1         8262G202         4         ○         8262G220         12         ○         11           1/4         5.6         6.2         6	6.1/F 10.6/F	6.1	О	11	8262G80	О	16	8262G19	48	81	34	34	34	34	52	52	.05	1.2	1/4
1/4	0.1/F 11.6/F	10.	-	-	-	•	17	8262G200	60	60	31	33	33	76	103	103	.05	1.2	1/4
1/4   3.2   3.30   10   11   6   4   4   4   81   48   8262622   16   O   8262G7   11   O   6	0.1/F -	10.	•	12	8262G214	-	-	-	60	60	-	-	-	76	138	152	.05	1.2	1/4
1/4 3.2 3.9 21 21 14 5 5 5 5 81 65 8262632 17	6.1/F 10.6/F	6.1	О	11	8262G86	0	16	8262G20	48	81	9	9	10	11	23	25	.15	2.4	1/4
1/4       4.0       .43       12       14       10       3       3       3       81       65       8262G202       4       ○       8262G220       12       ○       11         1/4       5.6       .62       6       7       7       2       2       2       81       65       8262G208       4       ○       8262G226       12       ○       11         1/4       5.6       .73       3       3       3       1       1       1       81       48       8262G13       2       ○       8262G36       11       ○       6         1/4       7.1       .75       4       5       4       1       1       1       81       65       8262G210       4       ○       -       -       -       -       11         1/4       7.1       .75       6       7       6       2       1       2       81       65       8262G210       4       ○       .       -       -       -       11         1/4       7.1       .82       2       2       2       1       1       1       81       48       8262G31       3       9 <td< td=""><td>6.1/F 10.6/F</td><td>6.1</td><td>О</td><td>11</td><td>8262G7</td><td>0</td><td>16</td><td>8262G22</td><td>48</td><td>81</td><td>4</td><td>4</td><td>4</td><td>6</td><td>11</td><td>10</td><td>.30</td><td>3.2</td><td>1/4</td></td<>	6.1/F 10.6/F	6.1	О	11	8262G7	0	16	8262G22	48	81	4	4	4	6	11	10	.30	3.2	1/4
1/4         5.6         .62         6         7         7         2         2         2         81         65         8262G208         4         .0         8262G266         12         .0         11         1/4         5.6         .73         3         3         3         1         1         1         81         48         8262G13         2         .0         8262G36         11         .0         6         1/4         7.1         .75         4         5         4         1         1         1         81         65         8262G210         4         .0	0.1/F 11.6/F	10.	-	-	-	0	17	8262G232	65	81	5	5	5	14	21	21	.30	3.2	1/4
1/4         5.6         .73         3         3         1         1         1         81         48         8262G13         2         O         8262G36         11         O         6           1/4         7.1         .75         4         5         4         1         1         1         81         65         8262G210         4         O         -         -         -         11           1/4         7.1         .75         6         7         6         2         1         2         81         65         8262G212         6         O         8262G33         13         O         17           1/4         7.1         .82         2         2         2         1         1         1         81         48         8262G212         6         O         8263G33         13         O         17           3/8         3.3         3.0         11         10         6         4         4         4         81         48         8263G20         5         O         8263G331         5         O         10           3/8         5.6         .62         7         7         7         2	0.1/F 11.6/F	10.	О	12	8262G220	0	4	8262G202	65	81	3	3	3	10	14	12	.43	4.0	1/4
1/4       7.1       .75       4       5       4       1       1       1       1       81       65       8262G210       4       O       -       -       -       -       1         1/4       7.1       .75       6       7       6       2       1       2       81       65       8262G212       6       O       8262G30       13       O       11         1/4       7.1       .82       2       2       2       1       1       1       81       48       8262G90       2       O       8263G330       3       O       6         3/8       3.3       3.0       11       10       6       4       4       4       81       48       8263G200       5       O       8263G331       5       O       10         3/8       5.6       .62       7       7       7       2       2       2       81       65       8263G200       5       O       8263G331       5       O       12         3/8       7.1       .73       7       7       7       2       2       2       81       65       8263G200       5       O	0.1/F 11.6/F	10.	О	12	8262G226	0	4	8262G208	65	81	2	2	2	7	7	6	.62	5.6	1/4
1/4       7.1       .75       6       7       6       2       1       2       81       65       8262G212       6       O       8262G30       13       O       11         1/4       7.1       .82       2       2       2       1       1       1       81       48       8262G90       2       O       8262G38       11       O       6         3/8       33       .30       11       10       6       4       4       4       81       48       8263G20       3       O       8263G330       3       O       6         3/8       4.0       .45       7       7       7       2       2       2       81       65       8263G200       5       O       8263G331       5       O       11         3/8       5.6       .62       7       7       7       2       2       2       81       65       8263G200       5       O       8263G333       7       O       17         3/8       7.1       .73       7       7       5       -       -       -       81       -       8263G210       7       O       8263G333	6.1/F 10.6/F	6.1	О	11	8262G36	О	2	8262G13	48	81	1	1	1	3	3	3	.73	5.6	1/4
1/4       7.1       .82       2       2       2       1       1       1       81       48       8262G90       2       ○       8262G38       11       ○       6         3/8       33       .30       11       10       6       4       4       4       81       48       8263G20       3       ○       8263G330       3       ○       6         3/8       4.0       .45       7       7       7       2       2       2       81       65       8263G200       5       ○       8263G331       5       ○       10         3/8       5.6       .62       7       7       7       2       2       2       81       65       8263G206       5       ○       8263G332       5       ○       11         3/8       7.1       .73       7       7       5       -       -       -       81       -       8263G210       7       ○       8263G333       7       ○       11         NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)         1/8       1.6       .08       34       21       16       28       17       10	0.1/F 11.6/F	10.	-	-	-	0	4	8262G210	65	81	1	1	1	4	5	4	.75	7.1	1/4
3/8 3.3 3.0 11 10 6 4 4 4 4 81 48 8263G2 3 ○ 8263G330 3 ○ 6 3/8 4.0 .45 7 7 7 2 2 2 2 81 65 8263G200 5 ○ 8263G331 5 ○ 10 3/8 5.6 .62 7 7 7 7 2 2 2 2 81 65 8263G206 5 ○ 8263G332 5 ○ 17 3/8 7.1 .73 7 7 5 81 - 8263G210 7 ○ 8263G333 7 ○ 17  NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)  1/8 1.6 .08 34 21 16 28 17 10 81 48 8262G91 8 ● 8262G92 8 ● 6 1/8 2.4 .13 19 14 10 13 8 8 8 81 48 8262G93 8 ● 8262G94 8 ● 6 1/8 3.2 .18 9 7 6 6 4 4 3 81 48 8262G31 8 ● 8262G35 8 ● 6 1/4 1.2 .05 52 48 48 34 34 34 34 59 59 8262G260 9 ● 8262G130 0 14 ● 10 1/4 2.4 .15 21 17 16 14 10 9 59 59 8262G260 9 ● 8262G134 0 14 ● 10 1/4 3.2 .30 9 8 7 6 4 4 81 65 8262G262 9 ● 8262G138 14 ● 10 1/4 4.0 .42 6 5 4 3 2 2 81 65 8262G263 4 ● 8262G142 14 ● 10 1/4 5.6 .71 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 10	7.1/F 22.6/F	17.	О	13	8262G230	0	6	8262G212	65	81	2	1	2	6	7	6	.75	7.1	1/4
3/8	6.1/F 10.6/F	6.1	O	11	8262G38	0	2	8262G90	48	81	1	1	1	2	2	2	.82	7.1	1/4
3/8 5.6 6.62 7 7 7 7 2 2 2 2 81 65 8263G206 5 ○ 8263G332 5 ○ 13/8 7.1 7.73 7 7 5 81 - 8263G210 7 ○ 8263G332 7 ○ 13/8 NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)  1/8 1.6 0.8 34 21 16 28 17 10 81 48 8262G91 8 ● 8262G92 8 ● 61/8 2.4 1.3 19 14 10 13 8 8 8 81 48 8262G93 8 ● 8262G94 8 ● 61/8 3.2 1.8 9 7 6 6 6 4 3 81 48 8262G31 8 ● 8262G35 8 ● 61/4 1.2 0.05 52 48 48 34 34 34 34 34 59 59 8262G260 ① 9 ● 8262G130 ① 14 ● 11/4 2.4 1.15 21 17 16 14 10 9 59 59 8262G260 ① 9 ● 8262G130 ① 14 ● 11/4 1/4 3.2 3.0 9 8 7 6 4 4 4 81 65 8262G262 9 ● 8262G138 14 ● 11/4 4.0 4.0 4.2 6 5 4 3 2 2 81 65 8262G264 4 ● 8262G148 14 ● 11/4 1/4 5.6 7.71 3 3 3 3 2 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/8 1/4 5.6 7.71 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/8 1/4 5.6 7.71 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/8 1/4 5.6 7.71 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 ● 11/4 5.6 7.71 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4 ● 11/4 ● 11/4 5.6 7.71 3 3 3 3 3 3 2 1 1 1 81 65 8262G264 4 ● 8262G148 14 ● 11/4	6.1/F 10.6/F	6.1	О	3	8263G330	0	3	8263G2	48	81	4	4	4	6	10	11	.30	33	3/8
3/8         7.1         .73         7         5         -         -         -         81         -         8263G210         7         ○         8263G333         7         ○         17           NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)           1/8         1.6         .08         34         21         16         28         17         10         81         48         8262G91         8         ●         8262G92         8         ●         6           1/8         2.4         .13         19         14         10         13         8         8         81         48         8262G93         8         ●         8262G94         8         ●         6           1/8         3.2         .18         9         7         6         6         4         3         81         48         8262G31         8         ●         8262G35         8         ●         6           1/4         1.2         .05         52         48         48         34         34         59         59         8262G260         9         ●         8262G130         14         ●         10           1/4	0.1/F 11.6/F	10.	О	5	8263G331	0	5	8263G200	65	81	2	2	2	7	7	7	.45	4.0	3/8
NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)  1/8	7.1/F 11.6/F	17.	О	5	8263G332	0	5	8263G206	65	81	2	2	2	7	7	7	.62	5.6	3/8
1/8       1.6       .08       34       21       16       28       17       10       81       48       8262G91       8       •       8262G92       8       •       6         1/8       2.4       .13       19       14       10       13       8       8       81       48       8262G93       8       •       8262G94       8       •       6         1/8       3.2       .18       9       7       6       6       4       3       81       48       8262G31       8       •       8262G35       8       •       6         1/4       1.2       .05       52       48       48       34       34       59       59       8262G260 ©       9       •       8262G130 ©       14       •       11         1/4       2.4       .15       21       17       16       14       10       9       59       59       8262G261 ©       9       •       8262G134 ©       14       •       10         1/4       3.2       .30       9       8       7       6       4       4       81       65       8262G262       9       •       8262G138	7.1/F -	17.	О	7	8263G333	0	7	8263G210	-	81	-	-	-	5	7	7	.73	7.1	3/8
1/8       2.4       .13       19       14       10       13       8       8       81       48       8262G93       8       •       8262G94       8       •       6         1/8       3.2       .18       9       7       6       6       4       3       81       48       8262G31       8       •       8262G35       8       •       6         1/4       1.2       .05       52       48       48       34       34       59       59       8262G260 ①       9       •       8262G130 ②       14       •       10         1/4       2.4       .15       21       17       16       14       10       9       59       59       8262G261 ②       9       •       8262G134 ②       14       •       10         1/4       3.2       .30       9       8       7       6       4       4       81       65       8262G262       9       •       8262G138       14       •       10         1/4       4.0       .42       6       5       4       3       2       2       81       65       8262G263       4       •       8262G142		NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)										NORMA							
1/8       3.2       .18       9       7       6       6       4       3       81       48       8262G31       8       •       8262G35       8       •       6         1/4       1.2       .05       52       48       48       34       34       59       59       8262G260 ①       9       •       8262G130 ②       14       •       11         1/4       2.4       .15       21       17       16       14       10       9       59       59       8262G261 ①       9       •       8262G134 ②       14       •       10         1/4       3.2       .30       9       8       7       6       4       4       81       65       8262G262       9       •       8262G138       14       •       10         1/4       4.0       .42       6       5       4       3       2       2       81       65       8262G263       4       •       8262G142       14       •       10         1/4       5.6       .71       3       3       3       2       1       1       81       65       8262G264       4       •       8262G148	6.1/F 10.6/F	6.1	•	8	8262G92	•	8	8262G91	48	81	10	17	28	16	21	34	.08	1.6	1/8
1/4       1.2       .05       52       48       48       34       34       59       59       8262G260 ①       9       ●       8262G130 ①       14       ●       10         1/4       2.4       .15       21       17       16       14       10       9       59       59       8262G261 ①       9       ●       8262G134 ②       14       ●       10         1/4       3.2       .30       9       8       7       6       4       4       81       65       8262G262       9       ●       8262G138       14       ●       10         1/4       4.0       .42       6       5       4       3       2       2       81       65       8262G263       4       ●       8262G142       14       ●       10         1/4       5.6       .71       3       3       3       2       1       1       81       65       8262G264       4       ●       8262G148       14       ●       10	6.1/F 10.6/F	6.1	•	8	8262G94	•	8	8262G93	48	81	8	8	13	10	14	19	.13	2.4	1/8
1/4     2.4     .15     21     17     16     14     10     9     59     59     8262G261 ①     9     ●     8262G134 ②     14     ●     16       1/4     3.2     .30     9     8     7     6     4     4     81     65     8262G262     9     ●     8262G138     14     ●     10       1/4     4.0     .42     6     5     4     3     2     2     81     65     8262G263     4     ●     8262G142     14     ●     10       1/4     5.6     .71     3     3     3     2     1     1     81     65     8262G264     4     ●     8262G148     14     ●     10	6.1/F 10.6/F	6.1	•	8	8262G35	•	8	8262G31	48	81	3	4	6	6	7	9	.18	3.2	1/8
1/4     3.2     .30     9     8     7     6     4     4     81     65     8262G262     9     •     8262G138     14     •     10       1/4     4.0     .42     6     5     4     3     2     2     81     65     8262G263     4     •     8262G142     14     •     10       1/4     5.6     .71     3     3     3     2     1     1     81     65     8262G264     4     •     8262G148     14     •     10	0.1/F 11.6/F	10.	•	14	8262G130 ①	•	9	8262G260 ①	59	59	34	34	34	48	48	52	.05	1.2	1/4
1/4     4.0     .42     6     5     4     3     2     2     81     65     8262G263     4     ●     8262G142     14     ●     10       1/4     5.6     .71     3     3     3     2     1     1     81     65     8262G264     4     ●     8262G148     14     ●     10	0.1/F 11.6/F	10.	•	14	8262G134 ①	•	9	8262G261 ①	59	59	9	10	14	16	17	21	.15	2.4	1/4
1/4 5.6 .71 3 3 3 2 1 1 81 65 8262G264 4 • 8262G148 14 • 10	0.1/F 11.6/F	10.	•	14	8262G138	•	9	8262G262	65	81	4	4	6	7	8	9	.30	3.2	1/4
W. 616 W. 6 6 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.1/F 11.6/F	10.	•	14	8262G142	•	4	8262G263	65	81	2	2	3	4	5	6	.42	4.0	1/4
	0.1/F 11.6/F	10.	•	14	8262G148	•	4	8262G264	65	81	1	1	2	3	3	3	.71	5.6	1/4
1/4   7.1   .82   2   2   1   1   1   1   81   65   8262G265   4   ●   8262G152   14   ●   10	0.1/F 11.6/F	10.	•	14	8262G152	•	4	8262G265	65	81	1	1	1	1	2	2	.82	7.1	1/4

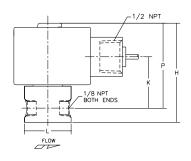
Notes: ① Cast UR disc supplied as standard.
② On 50 Hertz service, the rating for the 6.1/F solenoid is 8.1 watts.
③ ○ Safety Shutoff Valve; ● General Purpose Valve. Refer to Engineering Section (Approvals) for details.

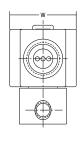


#### **Dimensions**: inches (mm)

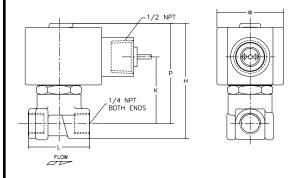
Constr. Ref. No.		Н	K	L	Р	W
1	ins.	2.52	1.30	1.19	2.16	1.69
	mm	64	33	30	55	43
2	ins.	2.98	1.71	1.56	2.57	1.69
	mm	76	43	40	65	43
3	ins.	3.07	1.63	1.88	2.49	1.69
	mm	78	41	48	63	43
4	ins.	3.20	1.78	1.56	2.79	1.95
	mm	81	45	40	71	50
5	ins.	3.25	1.70	2.00	2.77	1.95
	mm	83	43	51	70	50
6	ins.	3.16	1.78	1.56	2.75	1.95
	mm	80	45	40	70	50
7	ins.	3.25	1.70	2.00	2.67	1.95
	mm	83	43	51	68	50
8	ins.	3.15	1.32	1.19	2.18	1.69
	mm	80	34	30	55	43
9	ins.	3.23	1.67	1.25	2.81	1.95
	mm	82	42	32	71	50
11	ins.	2.94	1.71	1.56	2.57	1.69
	mm	75	43	40	65	43
12	ins.	3.12	1.78	1.56	2.75	1.95
	mm	79	45	40	70	50
13	ins.	3.12	1.78	1.56	2.75	1.95
	mm	79	45	40	70	50
14	ins.	3.16	1.65	1.56	2.79	1.95
	mm	80	42	40	71	50
16	ins.	3.01	1.73	1.25	2.59	1.69
	mm	76	44	32	66	43
17	ins.	3.19	1.80	1.25	2.77	1.95
	mm	81	46	32	70	50

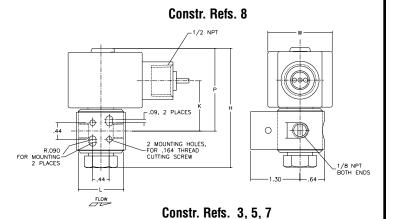
#### Constr. Refs. 1



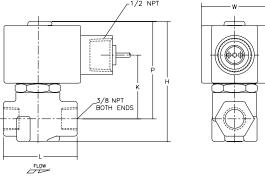


Constr. Refs. 2, 4, 6, 9

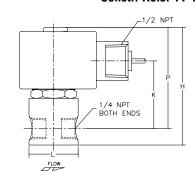


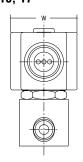


1/2 NPT

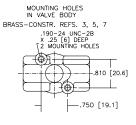


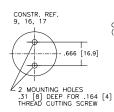
#### Constr. Refs. 11-14, 16, 17

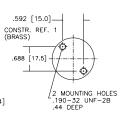


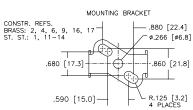


#### **Mounting Details**











## Optional Features Electrical

**Important Note:** One-piece molded epoxy Red-Hat II® solenoids are a unique combination of coil and enclosure. When ordering some Red-Hat II options, it may be necessary to specify the appropriate catalog number prefixes for both the enclosure and the coil.

Type 1 General Purpose Solenoids with Class F High-Temperature Coils	<ul> <li>Enclosures:</li> <li>Also meet Type 2 Dripproof, Types 3 and 3S Raintight, and Types 4 and 4X Watertight requirements.</li> <li>Supplied standard with 1/2" threaded conduit hub and built-in strain relief for leads.</li> <li>Coils:</li> <li>Insulation system for coil temperatures up to 311°F (155°C).①</li> <li>For ambient temperature requirement, refer to specific Series and charts in Engineering Information Section, beginning on page 11.00.</li> <li>Suitable for 50 and 60 Hz.②</li> </ul>	Ordering Information: Supplied standard on all Red-Hat II valves.	
Type 1 General Purpose Solenoids with Class H High-Temperature Coils	Enclosures: Same as Class F. Coils: Insulation system suitable for coil temperatures up to 356°F (180°C). For ambient temperature requirements, refer to specific Series and charts in Engineering Information Section, page 11.00. Suitable for 50 and 60 Hz.2	Ordering Information: Depending on wattage, use catalog number prefix "HT" or "HB" (e.g., HT8210G2).	
Panel Mount Type 1 General Purpose Solenoids with Class F or H High-Temperature Coils	Enclosures:  Same as above, but with provision for mounting on a panel (panel not included).  Coils:  Same as Class F or H above.	Ordering Information: For Class F coil, use catalog number prefix "GP" (e.g., GP8210G2) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "GPHT" or "GPHB" (e.g., GPHT8210G2) and specify voltage.	
Type 7 (A, B, C, and D) (Explosionproof Solenoids with (Class F (High-Temperature Coils)	Enclosures:  • Also meets Types 3 and 3S Raintight, Types 4 and 4X Watertight, Types 6 and 6P Submersible, and Type 9 (E, F, and G) Dust Ignitionproof requirements. Refer to Engineering Information Section, beginning on page 11.00 for details.  Colls: • Insulation systems suitable for coil temperatures up to 311°F (155°C) ① For ambient temperature requirements, refer to specific Series charts in Engineering Section, page 11.00. • Suitable for 50 and 60 Hz. ②	Approvals: UL listed; CSA certified.  Ordering Information: Use catalog number prefix "EF" (e.g., EF8210G2) and specify voltage.	

Notes: ① UL limitations are 284°F (140°C) for Class F insulation systems and 320°F (160°C) for Class H insulation systems.
② Can be supplied for 50 Hz at a reduced voltage, which is standard throughout the world; i.e., 120/60, 110/50.



## Engineering Information Solenoid Valves

#### Solenoid Enclosures

ASCO offers two types of enclosures, each for a variety of applications: a one-piece molded epoxy construction called the Red-Hat II<sup>€</sup> solenoid and a conventional Red-Hat metallic construction. Both meet ICS-6 ANSI/NEMA, and UL Standards 429, 508, and/or 1002. These standards define enclosure protection levels and the tests passed by Red Hat II

#### Red-Hat II®

Red-Hat II\* solenoid enclosures are of one-piece molded epoxy construction, with an integral 1/2" NPT conduit hub. This epoxy encapsulation serves as the enclosure. The magnetic frame is molded into the coil.

#### **General Purpose Enclosures:**

The standard Red Hat II Enclosure is green and comes equipped with three 18" long leads. The third lead is green and serves as a ground for the enclosure. This Enclosure meets the requirements for Types 2 (Dripproof), 3 and 3S (Raintight), and 4 and 4X (Watertight-Corrrosion Resistant).

An optional Junctionbox/Terminal coil constrution is also available for spade and screw terminal constructions.

#### Type 7 Enclosure:

The Type 7 Red Hat II Enclosure is black and comes equippedwith three 18" long leads. The third lead is green and serves as a ground for the enclosure. This enclosure meets the requirements to Types for Types 2 (Drop-off), 3 and 3S(raintight), and 4 and 4X (Watertight-Corrrosion Resistant), Type 6 and 6P (Submersible) as well as Type 7 (A,B,C,D) Explosionproof and 9 (E, F, and G) Dust-ignition-proof for Class 1, Division 1, Groups A, B, C and D and Class II, Division 1, Groups E, F and G.

#### **Enclosure Classifications and Types**

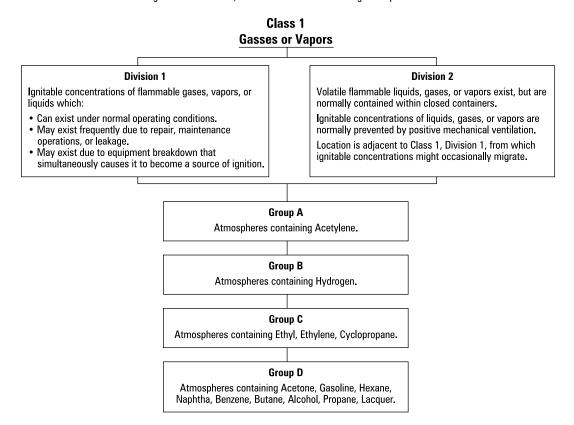
	C Classificati	oris and Types					
Type 1	General Purpose	Intended for indoor use, primarily to provide protection for enclosed parts in locations without unusual service conditions.					
Type 2	Dripproof	Intended for indoor use, primarily to provide protection against limited amounts of falling water or dirt.					
Туре 3	Raintight, Dusttight, and Sleet (Ice) Resistant	Intended for outdoor use, primarily to provide protection against windblown dust, rain, and sleet; undamaged by the formation of ice on the enclosure.					
Type 3S	Raintight, Dusttight, and Sleet (Ice) Resistant	Intended for outdoor use, primarily to provide protection against wind- blown dust, rain, and sleet; external mechanism remains operable when ice laden.					
Type 3R	Rainproof, Sleet (Ice) Resistant	Intended for outdoor use, primarily to provide protection against falling rain and sleet; undamaged by the formation of ice on the enclosure.					
Type 4	Watertight and Dusttight	Intended for indoor or outdoor use to provide protection against splashing water, water seepage, falling or hose-directed water, and severe external condensation; undamaged by the formation of ice on the enclosure.					
Type 4X	Watertight, Dusttight, and Corrosion Resistant	Same as Type 4, but provides additional protection to resist corrosion.					
Type 6	Submersible	Intended for indoor or outdoor use to provide protection against entry of water during submersion at a limited depth. (Tested to 6' for 30 minutes.)					
Туре 6Р	Submersible	Same as Type 6 Enclosure, but provides prolonged submersion protection at a limited depth. (Tested to 6' for 24 hours.)					
Type 7 and Type 9	See charts on next page						



## Engineering Information Solenoid Valves

#### **Type 7 (A, B, C, and D)**

Explosionproof enclosures are designed to contain an internal explosion, without causing an external hazard, when installed in the following atmospheres or locations:



#### Type 9 (E, F, and G)

Dust-ignitionproof enclosures are designed to prevent the entrance of dust, and the enclosed devices do not produce sufficient heat to cause external surface temperatures capable of igniting dust on the enclosure or in the surrounding atmosphere.

