

We stock more than 2,000 different ASCO solenoid valves, repair kits, and replacement coils. What we don't stock, we can usually get from the factory within 5 working days! As the local authorized ASCO distributor, we work closely with the factory to get you exactly what you need, when you need it most.

New from ASCO! Need to reduce inventory and costs? Take a look at the Next Generation solenoid valves. Three power ranges fit most applications, and the new design runs smoother, quieter, and with only a two-watt power draw!

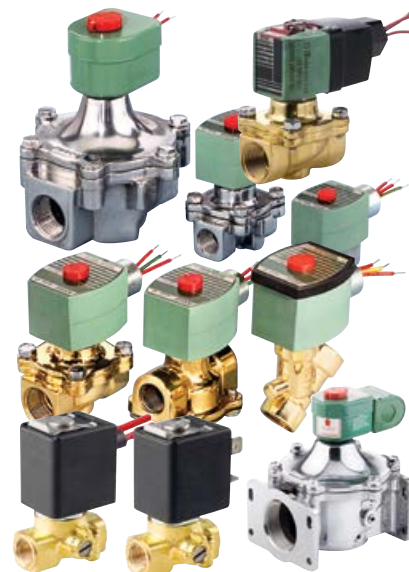


**Prices
Start at** **See
Page**

Prices in this catalog are current at the publication date, and are subject to change without notice.

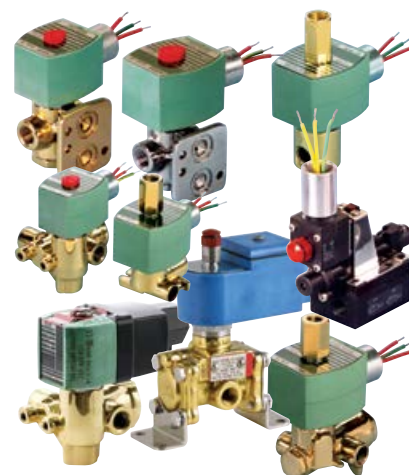
Two-Way Valves

Aluminum Body Solenoid Valves 8040/8215 Series	\$74.00	399
Dust Collector Solenoid Valves 8353 Series	\$68.00	408
Fuel Oil Solenoid Valves 8262/8266 Series	\$53.00	409
Gas Safety Shutoff Valves 8214 Series	\$341.00	411
General Service Brass Solenoid Valves 8210 Series	\$103.00	400
High Pressure Solenoid Valves 8223 Series	\$210.00	404
Hot Water and Steam Solenoid Valves 8210/8220/8263 Series	\$141.00	401
Lead-Free Composite Body Solenoid Valves 212 Series	\$132.00	405
Low Power Consumption Solenoid Valves Next Generation Valves	\$109.00	395
Low Pressure Solenoid Valves 8030 Series	\$115.00	398
Miniature Solenoid Valves 8262 Series	\$49.00	402
Pilot-Operated, Slow-Closing Solenoid Valves 8221 Series	\$237.00	405
Severe Duty Piston Valves 8290 Series	\$189.00	406
Solenoid Valves for Combustion Systems	\$74.00	410
Sub-Miniature Solenoid Valves 8256/8356 Series	\$40.00	403



Three-Way Valves

Air and Water Solenoid Valves 8316 Series	\$356.00	414
Direct-Mount Inline Spool Valves 8551 Series	\$125.00	416
General Service Solenoid Valves 8314 Series	\$132.00	412
General Service Solenoid Valves 8320 Series	\$89.00	413
Intrinsically Safe Solenoid Valves IS Series	\$498.00	417
Low Power Consumption Solenoid Valves Next Generation Valves	\$171.00	395
Pad Mount (Directly on Actuator) Solenoid Valves 8380/8401 Series	\$535.00	417
Quick Exhaust Solenoid Valves 8317/8321 Series	\$188.00	415
Sub-Miniature Solenoid Valves 8256/8356 Series	\$40.00	403



Four-Way Valves

Intrinsically Safe Solenoid Valves IS Series	\$498.00	417
General Service Solenoid Valves 8342 and 8344 Series	\$300.00	418
General Service Two-Position Solenoid Valves 8345 Series	\$250.00	419
Low Power Consumption Solenoid Valves Next Generation Valves	\$308.00	395

Accessories

Adjustable Electronic Timer	\$133.00	420
Adjustable Flow Control Valves	\$148.00	420
Exhaust Mufflers	\$6.00	420
Two-Way Strainers	\$58.00	420





390

SOLENOID
VALVES

V03.2016

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Fax: 262-923-1797

Condensed Model Selection Guide



Pipe Size (In.)	Orifice Size (In.)	Cv Flow Factor	Operating Pressure Differential (PSI)									Max. Fluid Temp (°F)		Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X		Materials		Watt Rating/ Class of Coil Insulation		Page No.
			Min. Press. Req'd	Maximum AC			Maximum DC													
				Air/Inert Gas	Water	Light Oil 300SSU	Air/Inert Gas	Water	Light Oil 300SSU											
2-Way Normally Closed (Closed when de-energized)																				
1/8	3/64	0.06	0	750	750	530	650	640	550	180	120	8262H001	Brass	NBR	6.1/F	10.6/F	402			
1/8	3/32	0.20	0	275	290	130	150	140	145	180	120	8262H014	Brass	NBR	6.1/F	10.6/F	402			
1/8	1/8	0.34	0	155	180	140	80	80	80	200	120	8262H002	Brass	NBR	6.1/F	10.6/F	402			
1/4	3/64	0.06	0	750	750	500	500	500	500	180	120	8262H019	Brass	NBR	6.1/F	10.6/F	402			
1/4	3/32	0.17	0	360	340	160	150	125	125	180	120	8262H086	SS	NBR	6.1/F	10.6/F	402			
1/4	1/8	0.34	0	500	500	330	500	500	330	180	180	8262R232	Brass	Buna-N	2/H	2/H	396			
1/4	1/8	0.35	0	140	165	90	65	60	60	180	120	8262H022	Brass	NBR	6.1/F	10.6/F	402			
1/4	1/8	0.35	0	140	165	90	65	60	60	180	120	8262H007	SS	NBR	6.1/F	10.6/F	402			
1/4	1/8	0.35	0	300	300	200	75	70	70	180	150	8262H232	Brass	NBR	10.1/F	11.6/F	402			
1/4	5/32	0.47	0	290	250	250	290	250	250	180	180	8262R202	Brass	Buna-N	2/H	2/H	396			
1/4	5/32	0.47	0	290	250	250	290	250	250	180	180	8262R220	SS	Buna-N	2/H	2/H	396			
1/4	5/32	0.50	0	180	200	145	40	40	45	180	150	8262H202	Brass	NBR	10.1/F	11.6/F	402			
1/4	5/32	0.50	0	180	200	145	40	40	45	180	150	8262H220	SS	NBR	10.1/F	11.6/F	402			
1/4	5/32	0.52	0	110	110	—	—	—	—	210	210	8263H300	Brass	Teflon	10.1/H	—	401			
1/4	7/32	0.85	0	40	50	40	17	20	21	180	120	8262H013	Brass	NBR	6.1/F	10.6/F	402			
1/4	7.32	0.72	0	145	125	120	145	125	120	180	180	8262R208	Brass	Buna-N	2/H	2/H	396			
1/4	7.32	0.72	0	145	125	120	145	125	120	180	180	8262R226	SS	Buna-N	2/H	2/H	396			
1/4	7/32	0.72	0	90	100	100	25	25	25	180	150	8262H208	Brass	NBR	10.1/F	11.6/F	402			
1/4	7/32	0.72	0	90	100	100	25	25	25	180	150	8262H226	SS	NBR	10.1/F	11.6/F	402			
1/4	9/32	0.88	0	60	75	60	18	15	18	180	150	8262H210	Brass	NBR	10.1/F	11.6/F	402			
1/4	9/32	0.88	0	90	100	90	25	20	22	180	150	8262H212	Brass	NBR	17.1/F	22.6/F	402			
1/4	9/32	0.88	0	90	100	90	25	20	22	180	150	8262H230	SS	NBR	17.1/F	22.6/F	402			
1/4	9/32	0.96	0	90	85	80	90	85	80	180	180	8262R212	Brass	Buna-N	2/H	2/H	396			
1/4	9/32	0.96	0	90	85	80	90	85	80	180	180	8262R230	SS	Buna-N	2/H	2/H	396			
1/4	5/16	1.5	10	750	750	750	—	—	—	200	150	8223G021	Brass	Nylon	10.5/A	—	402			
1/4	5/16	1.5	10	1500	1500	1500	500	500	500	200	150	8223G025	Brass	Teflon	17.1/F	22.6/F	402			
1/4	5/16	1.5	10	1500	1500	1500	1500	1500	1500	180	180	8223P025	Brass	Buna-N	2/H	2/H	396			
1/4	3/8	1.1	0	15	—	—	—	—	—	125	—	8040H007	Alum	—	6.1/F	—	399			
3/8	1/8	0.35	0	160	150	90	65	60	60	180	120	8263H002	Brass	—	6.1/F	10.6/F	402			
3/8	5/32	0.52	0	150	150	100	150	150	100	180	180	8263R200	Brass	Buna-N	2/H	2/H	396			
3/8	5/32	0.52	0	—	110	—	—	—	—	7	—	8263H305	Brass	Teflon	10.1/H	—	401			
3/8	5/32	0.52	0	100	100	100	35	35	35	180	150	8263H200	Brass	—	10.1/F	11.6F	402			
3/8	7/32	0.72	0	100	100	100	25	25	25	180	150	8263H206	Brass	—	17.1/F	11.6/F	402			
3/8	9/32	0.85	0	100	100	70	—	—	—	180	—	8263H210	Brass	—	17.1/F	—	402			
3/8	9/32	0.85	0	80	80	70	80	80	70	180	180	8263R210	Brass	Buna-N	2/H	2/H	396			
3/8	5/16	1.5	10	750	750	750	—	—	—	200	—	8223G023	Brass	Nylon	10.1/F	—	402			
3/8	5/16	1.5	10	1500	1500	1500	500	500	500	200	150	8223G027	Brass	Teflon	17.1/F	22.6/F	402			
3/8	5/16	1.5	10	1500	1500	1500	1500	1500	1500	180	180	8223P027	Brass	Buna-N	2/H	2/H	396			
3/8	3/8	1.8	0	7	5	—	3	3	—	180	120	8030G010	Brass	Buna-N	6.1/F	10.6/F	398			
3/8	3/8	1.2	0	15	—	—	—	—	—	125	—	8040H008	Alum	Buna-N	6.1/F	—	399			
3/8	3/8	1.8	0	15	15	—	3.5	3.5	—	180	150	8030G013	Brass	Buna-N	10.1/F	11.6/F	398			
3/8	3/8	1.5	4	150	125	—	40	40	—	180	150	8210G073	Brass	Buna-N	6.1/F	11.6/F	400			
3/8	5/8	3	0	150	150	—	150	150	—	180	180	8210P093	Brass	Buna-N	2/H	2/H	396			
3/8	5/8	3	0	150	150	—	40	40	—	180	150	8210G093	Brass	Buna-N	10.1/F	11.6/F	400			
3/8	5/8	3	1	—	100	—	—	40	—	210	150	8210G093HW	Brass	EthPro	10.1/F	11.6/F	401			
3/8	5/8	3	5	200	150	135	125	100	100	180	150	8210G001	Brass	Buna-N	6.1/F	11.6/F	400			
3/8	5/8	3	5	—	125	—	—	100	—	210	150	8210G001HW	Brass	EthPro	6.1/F	11.6/F	401			
3/8	5/8	3	5	300	300	300	—	—	—	175	—	8210G006	Brass	Buna-N	17.1/F	—	400			
3/8	3/4	3.4	0	50	—	—	25	—	—	125	104	8215G010	Alum	Buna-N	10.1/F	11.6/F	399			
1/2	3/8	3.2	25	1500	1500	1500	1500	1500	1500	180	180	8223P003	Brass	Buna-N	2/H	2/H	396			
1/2	3/8	3.2	25	1500	1500	1500	1500	1500	1500	180	180	8223P010	SS	Buna-N	2/H	2/H	396			
1/2	3/8	3.2	25	1500	1500	1500	500	500	500	200	150	8223G003	Brass	Nylon	17.1/F	22.6/F	402			
1/2	7/16	2.8	0	4	6	—	—	—	—	180	—	8030G016	Brass	Buna-N	6.1/F	—	398			
1/2	7/16	2.8	0	15	15	—	6	6	—	200	180	8030G017	Brass	Buna-N	15.4/F	16.8/F	398			
1/2	7/16	2.2	4	150	125	—	40	40	—	180	150	8210G015	Brass	Buna-N	6.1/F	11.6/F	400			
1/2	5/8	4	0	150	150	—	150	150	—	180	180	8210P094	Brass	Buna-N	2/H	2/H	396			
1/2	5/8	4	0	150	150	—	40	40	—	180	150	8210G094	Brass	Buna-N	10.1/F	11.6/F	400			
1/2	5/8	4	1	—	100	—	—	40	—	210	150	8210G094HW	Brass	EthPro	10.1/F	11.6/F	401			
1/2	5/8	4	5	200	150	135	125	100	100	180	150	8210G002	Brass	Buna-N	6.1/F	11.6/F	400			
1/2	5/8	4	5	—	125	—	—	100	—	210	150	8210G002HW	Brass	EthPro	6.1/F	11.6/F	401			
1/2	5/8	4	5	300	300	300	300	300	300	180	180	8210P007	Brass	Buna-N	2/H	2/H	396			
1/2	5/8	4	5	300	300	300	300	300	300	180	180	8210P087	SS	Buna-N	2/H	2/H	396			
1/2	5/8	4	5	300	300	300	—	—	—	175	—	8210G007	Brass	Buna-N	17.1/F	—	400			
1/2	1/8	4	5	2	—	—	—	—	—	4	—	8220G406	Brass	Teflon	10.1/H	—	401			
1/2	3/4	4.4	0	50	—	—	25	—	—	125	104	8215G020	Alum	Buna-N	10.1/F	11.6/F	399			
1/2	3/4	4.8	5	125	—	—	125	—	—	125	104	8215G002	Alum	Buna-N	6.1/F	11.6/F	399			

Rotary and Smart
Actuator Motors

Instrument Valves

Process Control
AccessoriesPressure and
Temperature Switches

ASCO Solenoid

Pipe Size (In.)	Orifice Size (In.)	Cv Flow Factor	Operating Pressure Differential (PSI)							Max. Fluid Temp. (°F)		Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X	Materials		Watt Rating/ Class of Coil Insulation		Page No.	
			Min. Press. Req'd	Maximum AC			Maximum DC											
				Air/Inert Gas	Water	Light Oil 300SSU	Air/Inert Gas	Water	Light Oil 300SSU	AC	DC							
2-Way Normally Closed (Continued)																		
3/4	5/8	4.5	0	150	150	125	150	150	125	180	180	8210P088	SS	Buna-N	2/H	2/H	396	
3/4	3/4	9.5	0	2	—	—	—	—	—	125	—	8040G023	Alum	Buna-N	10.1/F	—	399	
3/4	3/4	5	0	3	3	—	3	3	—	180	180	8030P003	Brass	Buna-N	2/H	2/H	396	
3/4	3/4	5	0	2	2	—	1	1	—	180	150	8030G003	Brass	Buna-N	10.1/F	11.6/F	398	
3/4	3/4	5	0	4	4	—	—	—	—	180	—	8030G043	Brass	Buna-N	17.1/F	—	398	
3/4	3/4	5.1	0	50	—	—	25	—	—	125	104	8215G030	Alum	Buna-N	10.1/F	11.6/F	399	
3/4	3/4	5	0	150	150	—	150	150	—	180	180	8210P095	Brass	Buna-N	2/H	2/H	396	
3/4	3/4	5	0	150	150	—	40	40	—	180	150	8210G095	Brass	Buna-N	10.1/F	11.6/F	400	
3/4	3/4	5	1	—	100	—	—	40	—	210	150	8210G095HW	Brass	EthPro	10.1/F	11.6/F	401	
3/4	3/4	5	5	150	150	125	100	90	75	180	150	8210G009	Brass	Buna-N	6.1/F	11.6/F	400	
3/4	3/4	5	5	—	125	—	—	100	—	210	150	8210G009HW	Brass	EthPro	6.1/F	11.6/F	401	
3/4	3/4	5	5 2	—	150	—	—	—	—	5	—	8220G409	Brass	Teflon	10.1/H	—	401	
3/4	3/4	6.5	5	250	150	100	125	125	125	180	150	8210G003	Brass	Buna-N	6.1/F	11.6/F	400	
3/4	3/4	6	0	350	300	200	200	180	180	200	77	8210G026	Brass	Teflon	15.4/F	30.6/H	400	
3/4	3/4	7.8	0	750	750	750	450	450	450	200	150	8223G005	Brass	Teflon	17.1/F	22.6/P	402	
3/4	3/4	7.8	25	750	750	750	750	750	750	180	180	8223P005	Brass	Buna-N	2/H	2/H	396	
1	1	13	0	150	125	125	100	100	80	180	77	8210G054	Brass	Buna-N	15.4/F	30.6/H	400	
1	1	13	5	150	150	100	150	150	100	180	180	8210P004	Brass	Buna-N	2/H	2/H	396	
1	1	13	5	150	150	100	125	125	125	180	150	8210G004	Brass	Buna-N	6.1/F	11.6/F	400	
1	1	13.5	0	300	225	115	—	—	—	200	—	8210G027	Brass	Buna-N	20/F	—	400	
1	1	13.5	5 3	—	150	—	—	—	—	6	—	8220G410	Brass	EthPro	10.1/F	—	401	
1	1	13.5	5 3	—	150	—	—	—	—	5	—	8220G411	Brass	Teflon	10.1/H	—	401	
1	1 5/8	21	0	25	—	—	25	—	—	125	77	8215B050	Alum	Buna-N	15.4/F	14.9/B	399	
1 1/4	1 1/8	15	0	150	125	125	100	100	80	180	77	8210G055	Brass	Buna-N	15.4/F	30.6/F	400	
1 1/4	1 1/8	15	5	150	150	100	150	150	100	180	180	8210P008	Brass	Buna-N	2/H	2/H	396	
1 1/4	1 1/8	15	5	150	150	100	125	125	125	180	150	8210G008	Brass	Buna-N	6.1/F	11.6/F	400	
1 1/4	1 1/8	15	5 3	—	150	—	—	—	—	6	—	8220G009	Brass	EthPro	10.1/F	—	401	
1 1/4	1 1/8	15	5 3	125	150	—	—	—	—	5	—	8220G027	Brass	Teflon	10.1/H	—	401	
1 1/4	1 1/8	32	0	25	—	—	25	—	—	125	77	8215B060	Alum	Buna-N	15.4/F	14.9/B	399	
1 1/2	1 1/4	22.5	0	150	125	125	100	100	80	180	77	8210G056	Brass	Buna-N	15.4/F	30.6/H	400	
1 1/2	1 1/4	22.5	5	150	150	100	150	150	100	180	180	8210P022	Brass	Buna-N	2/H	2/H	396	
1 1/2	1 1/4	22.5	5	150	150	100	125	125	125	180	150	8210G022	Brass	Buna-N	6.1/F	11.6/F	400	
1 1/2	1 1/4	22.5	5 3	—	150	—	—	—	—	6	—	8220G011	Brass	EthPro	10.1/F	—	401	
1 1/2	1 1/4	22.5	5 3	—	150	—	—	—	—	5	—	8220G029	Brass	Teflon	10.1/H	—	401	
1 1/2	1 5/8	35	0	25	—	—	25	—	—	125	77	8215B070	Alum	Buna-N	15.4/F	14.9/B	399	
2	1 3/4	43	5	150	125	90	150	125	90	180	180	8210P100	Brass	Buna-N	2/H	2/H	396	
2	1 3/4	43	5	150	125	90	50	50	50	180	150	8210G100	Brass	Buna-N	6.1/F	11.6/F	400	
2	2 3/32	60	0	25	—	—	15	—	—	125	77	8215B080	Alum	Buna-N	15.4/F	14.9/B	399	
2 1/2	3	117	0	5	—	—	—	—	—	125	—	8215A090	Alum	Buna-N	28.2/F	—	399	
3	3	138	0	5	—	—	—	—	—	125	—	8215A040	Alum	Buna-N	28.2/F	—	399	
2-Way Normally Open (Open when de-energized)																		
1/8	1/8	0.21	0	125	100	85	80	60	50	180	120	8262G031	Brass	Buna-N	6.1/F	10.6/F	402	
1/4	3/64	0.06	0	750	700	700	500	500	500	140	140	8262G260	Brass	Ureth	10.1/F	11.6/F	402	
1/4	3/32	0.17	0	300	250	230	300	250	230	180	180	8262P261	Brass	Ureth	2/H	2/H	396	
1/4	3/32	0.17	0	300	250	230	200	150	125	140	140	8262G261	Brass	Ureth	10.1/F	11.6/F	402	
1/4	1/8	0.35	0	130	110	100	130	110	100	180	180	8262P262	Brass	Buna-N	2/H	2/H	396	
1/4	1/8	0.35	0	130	110	100	80	60	60	180	150	8262G262	Brass	Buna-N	10.1/F	11.6/F	402	
1/4	5/32	0.49	0	85	75	60	85	75	60	180	180	8262P263	Brass	Buna-N	2/H	2/H	396	
1/4	5/32	0.49	0	85	75	60	45	30	30	180	150	8262G263	Brass	Buna-N	10.1/F	11.6/F	402	
1/4	7/32	0.83	0	45	45	40	25	20	20	180	150	8262G264	Brass	Buna-N	10.1/F	11.6/F	402	
1/4	9/32	0.96	0	30	20	20	30	20	20	180	180	8262P265	Brass	Buna-N	2/H	2/H	396	
1/4	9/32	0.96	0	30	25	20	15	15	15	180	150	8262G265	Brass	Buna-N	10.1/F	11.6/F	402	
3/8	3/8	1.6	0	15	15	—	2.4	2.4	—	200	180	8030G070	Brass	Buna-N	15.4/F	16.8/F	398	
3/8	5/8	3	0	150	150	125	125	125	80	180	150	8210P033	Brass	Buna-N	2/H	2/H	396	
3/8	5/8	3	0	150	150	125	125	125	80	180	150	8210G033	Brass	Buna-N	10.1/F	11.6/F	400	
1/2	7/16	2.2	0	15	15	—	2.5	2.5	—	200	180	8030G071	Brass	Buna-N	20/F	16.8/F	398	
1/2	5/8	4	0	150	150	125	150	150	125	180	180	8210P034	Brass	Buna-N	2/H	2/H	396	
1/2	5/8	4	0	150	150	125	125	125	80	180	150	8210G034	Brass	Buna-N	10.1/F	11.6/F	400	
1/2	3/4	5	0	2	2	—	—	—	—	180	—	8030G082	Brass	Buna-N	10.1/F	—	398	
1/2	3/4	4	0	125	—	—	125	—	—	125	104	8215G023	Alum	Buna-N	10.1/F	11.6/F	399	

Notes

- 1 AC model: 0 PSI; DC model: 1/4 PSI
- 2 Once opened at higher pressure, valve remains open to 0 PSI at inlet.
- 3 Once opened at higher pressure, valve remains open to 3 PSI at inlet.
- 4 5 PSI on air, 1 PSI on water.

- 5 210° F. for hot water, 353° F. for steam.
- 6 210° F. for hot water, 300° F. for steam.
- 7 210°F for hot water, 344°F for steam.
- 8 Valve provided with Teflon* seat.
- 9 Valve includes Ultem** piston.

*DuPont Co. trademark

**GE Co. trademark

- 10 Valves with Teflon* discs are limited to 125 PSI max. and 353° F. max. saturated steam.
- 11 Valves with ethylene propylene discs are limited to 50 PSI max. and 300° F. max. saturated steam.
- 12 Cast urethane disc supplied as standard.

Condensed Model Selection Guide



Pipe Size Size (In.)	Orifice Size (In.)	Cv Flow Factor	Operating Pressure Differential (PSI)							Max. Fluid Temp. (°F)		Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X	Materials		Watt Rating/ Class of Coil Insulation		Page No.	
			Min. Press. Req'd	Maximum AC			Maximum DC											
				Air/Inert Gas	Water	Light Oil 300SSU	Air/Inert Gas	Water	Light Oil 300SSU									
2-Way Normally Open (Continued)																		
3/4	3/4	4.6	0	125	—	—	125	—	—	125	104	 8215G033	Alum	Buna-N	10.1/F	11.6/F	399	
3/4	3/4	5.5	0	2	2	—	2	2	—	180	180	 8030P083	Brass	Buna-N	2/H	2/H	396	
3/4	3/4	5.5	0	2	2	—	—	—	—	180	—	 8030G083	Brass	Buna-N	10.1/F	—	398	
3/4	3/4	5.5	0	150	150	125	150	150	125	180	180	 8210P035	Brass	Buna-N	2/H	2/H	396	
3/4	3/4	5.5	0	150	150	125	125	125	80	180	150	 8210G035	Brass	Buna-N	10.1/F	11.6/F	400	
3/4	3/4	6.5	5	250	200	200	250	200	200	180	180	 8210G013	Brass	Buna-N	15.4/F	16.8/F	400	
3/4	3/4	7.8	25	750	750	750	—	—	—	200	—	 8223G005	Brass	Buna-N	17.1/F	22.6/F	404	
1	1	13	0	125	125	125	—	—	—	180	—	 8210B057	Brass	Buna-N	20/F	—	400	
1	1	13	5	150	150	125	125	125	125	180	180	 8210G014	Brass	Buna-N	15.4/F	16.8/F	400	
1	1 5/8	22	0	25	—	—	15	—	—	125	77	 8215C053	Alum	Buna-N	15.4/F	14.9/B	399	
1 1/4	1 1/8	15	0	125	125	125	—	—	—	180	—	 8210B058	Brass	Buna-N	20/F	—	400	
1 1/4	1 1/8	15	5	150	150	125	125	125	125	180	150	 8210G018	Brass	Buna-N	15.4/F	16.8/F	400	
1 1/4	1 5/8	33	0	25	—	—	15	—	—	125	77	 8215C063	Alum	Buna-N	15.4/F	14.9/B	399	
1 1/2	1 1/4	22.5	0	125	125	125	—	—	—	180	—	 8210B059	Brass	Buna-N	20/F	—	400	
1 1/2	1 1/4	22.5	5	150	150	125	125	125	125	180	150	 8210G032	Brass	Buna-N	15.4/F	16.8/F	400	
1 1/2	1 5/8	37	0	25	—	—	15	—	—	125	77	 8215C073	Alum	Buna-N	15.4/F	14.9/B	399	
2	1 3/4	43	5	125	125	125	125	125	125	180	150	 8210G103	Brass	Buna-N	15.4/F	16.8/F	400	
2	2 3/32	58	0	25	—	—	15	—	—	125	77	 8215C083	Alum	Buna-N	15.4/F	14.9/B	399	

Pipe Size (In.)	Orifice Size (In.) ¹	Cv Flow Factor ¹	Operating Pressure Differential (PSI)							Max. Fluid Temp. (°F)		Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X	Materials		Watt Rating/ Class of Coil Insulation		Page No.
			Min. Press. Req'd	Maximum AC			Maximum DC										
				Air/ Inert Gas		Lt. Oil 300 SSU ²	Air/ Inert Gas	Water	Lt. Oil 300 SSU ²								
3-Way Normally Closed (Closed when de-energized)																	
1/8	3/64	0.06	0	200	200	200	200	200	200	180	120	8320G132	Brass	Buna-N	6.1/F	10.6/F	413
1/8	1/16	0.09	0	150	125	125	125	125	125	180	120	8320G013	Brass	Buna-N	6.1/F	10.6/F	413
1/8	3/32	0.12	0	100	100	100	100	100	100	180	120	8320G015	Brass	Buna-N	6.1/F	10.6/F	413
1/8	1/8	0.21	0	40	40	40	40	40	40	180	120	8320G017	Brass	Buna-N	6.1/F	10.6/F	403
1/4	1/16	0.09	0	210	225	225	160	160	160	200	150	8320G182	Brass	Buna-N	17.1/F	11.6/F	413
1/4	5/64	0.12	0	232	232	232	232	232	232	180	180	8320P182	Brass	Buna-N	2/H	2/H	397
1/4	3/32	0.12	0	150	150	150	115	115	115	200	150	8320G184	Brass	Buna-N	10.1/F	11.6/F	413
1/4	3/32	0.17	0	205	205	205	205	205	205	180	180	8314R035	Brass	Buna-N	2/H	2/H	397
1/4	3/32	0.17	0	205	205	205	205	205	205	180	180	8314R121	SS	Buna-N	2/H	2/H	397
1/4	3/32	0.20	5	150	150	100	150	150	100	180	180	8317P035	Brass	Buna-N	2/H	2/H	397
1/4	3/32 (1/4)	0.2 (.73)	5 3	150	—	—	—	—	—	180	—	8317G023	Brass	B/N/Neo	10.1/F	11.6/F	415
1/4	3/32 (1/4)	0.2 (.73)	5 3	150	150	95	75	55	30	180	104	8317G035	Brass	B/N/Neo	10.1/F	11.6/F	415
1/4	7/64	0.23	0	150	150	150	150	150	150	180	180	8320P184	Brass	Buna-N	2/H	2/H	397
1/4	5/32	0.35	0	75	75	75	75	75	75	180	180	8320P186	Brass	Buna-N	2/H	2/H	397
1/4	1/8	0.25	0	75	60	60	30	40	25	200	104	8314H036	Brass	Bun/Nyl	10.1/F	11.6/F	412
1/4	1/8	0.25	0	85	85	85	60	60	60	200	150	8320G186	Brass	Buna-N	10.1/F	11.6/F	413
1/4	1/8	0.27	0	145	145	145	145	145	145	180	180	8314R036	Brass	Buna-N	2/H	2/H	397
1/4	11/64	0.35	0	45	45	45	25	25	25	200	150	8320G188	Brass	Buna-N	10.1/F	11.6/F	413
1/4	9/32 (11/32)	0.8 (1.2)	10	200	200	200	200	200	200	180	120	8321G001	Brass	Buna-N	6.1/F	10.6/F	415
1/4	9/32	0.8	10	200	200	200	200	200	200	180	180	8321P001	Brass	Buna-N	2/H	2/H	397
3/8	9/32 (11/32)	0.8 (1.2)	10	200	200	200	200	200	200	180	120	8321G002	Brass	Buna-N	6.1/F	10.6/F	415
3/8	9/32	0.8	10	200	200	200	200	200	200	180	180	8321P002	Brass	Buna-N	2/H	2/H	397
3/8	5/8	2.5	10	250	250	—	250	250	—	180	180	8316P054	Brass	Buna-N	2/H	2/H	397
3/8	5/8	3	10 5	150	125	—	125	125	—	180	120	8316G054	Brass	Buna-N	6.1/F	10.6/F	414
3/8	5/8	3	10 5	250	250	—	250	250	—	180	120	8316G014	Brass	Buna-N	17.1/F	22.6/F	414
1/2	5/8	3.2	10	250	250	—	250	250	—	180	180	8316P064	Brass	Buna-N	2/H	2/H	397
1/2	5/8	4	10 5	150	125	—	125	125	—	180	120	8316G064	Brass	Buna-N	6.1/F	10.6/F	414
1/2	5/8	4	10 5	250	250	—	250	250	—	180	120	8316G024	Brass	Buna-N	17.1/F	22.6/F	414
3/4	11/16	4.8	10	250	250	—	250	250	—	180	180	8316P074	Brass	Buna-N	2/H	2/H	397
3/4	11/16	5.5	10 5	150	125	—	125	125	—	180	120	8316G074	Brass	Buna-N	6.1/F	10.6/F	414
3/4	11/16	5.5	10 5	250	250	—	250	250	—	180	120	8316G044	Brass	Buna-N	17.1/F	22.6/F	414
1	1	13	10 5	150	125	—	125	125	—	180	120	8316G034	Brass	Buna-N	6.1/F	10.6/F	414

Pipe Size (In.)	Orifice Size (In.) ¹	Cv Flow Factor ¹	Operating Pressure Differential (PSI)									Max. Fluid Temp. (°F)		Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X	Materials		Watt Rating/ Class of Coil Insulation		Page No.
			Min. Press. Req'd	Maximum AC			Maximum DC												
				Air/ Inert Gas	Water	Lt. Oil 300 SSU ²	Air/ Inert Gas	Water	Lt. Oil 300 SSU ²										
3-Way Normally Open (Open when de-energized)																			
1/8	3/64	0.06	0	200	200	200	200	200	200	180	120	120	8320G136	Brass	Buna-N	6.1/F	10.6/F	413	
1/8	3/32	0.12	0	100	100	100	100	100	100	180	120	120	8320G029	Brass	Buna-N	6.1/F	10.6/F	413	
1/4	1/16	0.09	0	235	250	250	160	160	160	200	150	150	8320G192	Brass	Buna-N	17.1/F	11.6/F	413	
1/4	5/64	0.12	0	210	210	210	210	210	210	180	180	180	8320P192	Brass	Buna-N	2/H	2/H	397	
1/4	3/32	0.12	0	150	140	140	100	100	100	200	150	150	8320G194	Brass	Buna-N	10.1/F	11.6/F	413	
1/4	3/32 (1/4)	0.15 (0.73)	5 3	160	160	95	75	45	25	180	104	104	8317G053 4	Brass	B/N/Neo	10.1/F	11.6/F	415	
1/4	7/64	0.23	0	150	150	150	150	150	150	180	180	180	8320P194	Brass	Buna-N	2/H	2/H	397	
1/4	11/64	0.35	0	40	40	40	30	30	30	200	150	150	8320G198	Brass	Buna-N	10.1/F	11.6/F	413	
1/4	9/32 (11/32)	0.80 (1.20)	10	200	200	200	200	200	200	180	120	120	8321G003 4	Brass	Buna-N	6.1/F	10.6/F	415	
3/8	9/32 (11/32)	0.80 (1.20)	10	200	200	200	200	200	200	180	120	120	8321G004 4	Brass	Buna-N	6.1/F	10.6/F	415	
3/8	5/8	3	10 5	150	125	—	125	125	—	180	120	120	8316G056	Brass	Buna-N	6.1/F	10.6/F	414	
3/8	5/8	3	10 5	250	250	—	250	250	—	180	120	120	8316G016	Brass	Buna-N	17.1/F	22.6/F	414	
1/2	5/8	4	10 5	150	125	—	125	125	—	180	120	120	8316G066	Brass	Buna-N	6.1/F	10.6/F	414	
1/2	5/8	4	10 5	250	250	—	250	250	—	180	120	120	8316G026	Brass	Buna-N	17.1/F	22.6/F	414	
3/4	11/16	5.5	10 5	150	125	—	125	125	—	180	120	120	8316G076	Brass	Buna-N	6.1/F	10.6/F	414	
3-Way Universal Operation																			
1/8	3/64	0.04	0	160	160	160	70	65	65	200	104	104	8314H041	Brass	Bun/Nyl	10.1/F	11.6/F	412	
1/8	3/64	0.06	0	175	175	175	125	125	125	140	120	120	8320G130	Brass	Ureth±	9.1/F	10.6/F	413	
1/8	3/32	0.12	0	50	50	50	50	50	50	180	120	120	8320G083	Brass	Buna-N	6.1/F	10.6/F	413	
1/8	1/8	0.21	0	30	30	30	20	20	20	180	120	120	8320G003	Brass	Buna-N	9.1/F	10.6/F	413	
1/8	1/16	0.09	0	100	100	100	65	65	65	180	120	120	8320G001	Brass	Buna-N	9.1/F	10.6/F	413	
1/4	3/64	0.04	0	160	160	160	70	65	65	200	104	104	8314H006	Brass	Bun/Nyl	10.1/F	11.6/F	412	
1/4	1/16	0.09	0	125	130	130	75	75	75	200	150	150	8320G172	Brass	Buna-N	10.1/F	11.6/F	413	
1/4	5/64	0.12	0	116	116	116	116	116	116	180	180	180	8320P172	Brass	Buna-N	2/H	2/H	397	
1/4	3/32	0.12	0	100	100	100	60	60	60	200	150	150	8320G174	Brass	Buna-N	17.1/F	11.6/F	413	
1/4	3/32	0.15	0	80	40	40	35	35	15	200	104	104	8314H007	Brass	Bun/Nyl	10.1/F	11.6/F	412	
1/4	3/32 (1/4)	0.20 (0.73)	5 3	80	50	50	40	30	15	180	104	104	8317G007 4	Brass	B/N/Neo	10.1/F	11.6/F	415	
1/4	7/64	0.23	0	60	60	60	60	60	60	180	180	180	8320P174	Brass	Buna-N	2/H	2/H	397	
1/4	1/8	0.25	0	45	25	25	20	15	15	200	104	104	8314H008	Brass	Bun/Nyl	10.1/F	11.6/F	412	
1/4	1/8	0.25	0	50	50	50	25	25	25	200	150	150	8320G176	Brass	Buna-N	17.1/F	11.6/F	413	
1/4	5/32	0.35	0	35	35	35	35	35	35	180	180	180	8320P176	Brass	Buna-N	2/H	2/H	397	
1/4	11/64	0.35	0	20	20	20	12	12	12	200	150	150	8320G178	Brass	Buna-N	10.1/F	11.6/F	413	
4-Way Valves																			
1/4	1/16	0.09	10	150	150	150	150	150	150	180	180	180	8345P001	Brass	Buna-N	2/H	2/H	397	
1/4	1/16 (3/32)	0.09	10	150	—	—	100	—	—	180	104	104	8345H003 2	Brass	Bun/Nyl	10.1/F	10.6/F	419	
1/4	1/16 (3/32)	0.09	10	150	150	150 4	100	100	100 0	180	104	104	8345G001 2	Brass	Bun/Nyl	10.1/F	10.6/F	419	
1/4	3/16	0.7	0	125	100	100	—	—	—	160	—	—	8342G001 2	Brass	Vit/Tef	20/F	—	418	
1/4	3/16	0.7	0	125	125	125	—	—	—	160	—	—	8342G020 3	Brass	Vit/Tef	15.4/F	—	418	
1/4	1/4	0.8 (1.0)	10	250	250	250	250	250	250	180	180	180	8344P070	Brass	Buna-N	2/H	2/H	397	
1/4	1/4	0.8 (1.0)	10 5	150	125	125	125	125	125	180	150	150	8344G070 2	Brass	Buna-N	10.1/F	11.6/F	418	
1/4	1/4	0.8 (1.0)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	180	8344G000 2	Brass	Buna-N	17.1/F	22.6/F	418	
3/8	3/16	0.7	0	125	100	100	—	—	—	160	—	—	8342G003 2	Brass	Vit/Tef	20/F	—	418	
3/8	3/16	0.7	0	125	125	125	—	—	—	160	—	—	8342G022 3	Brass	Vit/Tef	15.4/F	—	418	
3/8	1/4	0.8 (1.0)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	180	8344G001 2	Brass	Buna-N	17.1/F	22.6/F	418	
3/8	3/8	1.4 (2.2)	10 5	150	125	125	125	125	125	180	150	150	8344G072 2	Brass	Buna-N	10.1/F	11.6/F	418	
3/8	3/8	1.4 (2.2)	10	250	250	250	250	250	250	180	180	180	8344P072	Brass	Buna-N	2/H	2/H	405	
1/2	3/8	1.4 (2.2)	10 5	150	125	125	125	125	125	180	150	150	8344G074 2	Brass	Buna-N	10.1/F	11.6/F	418	
1/2	3/8	1.4 (2.2)	10	250	250	250	250	250	250	180	180	180	8344P074	Brass	Buna-N	2/H	2/H	397	
1/2	3/8	1.4 (2.2)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	180	8344G027 2	Brass	Buna-N	17.1/F	22.6/F	418	
3/4	3/4	5.2 (5.6)	10 5	150	125	125	125	125	125	180	150	150	8344G076 2	Brass	Buna-N	10.1/F	11.6/F	418	
3/4	3/4	5.2 (5.6)	10	250	250	250	250	250	250	180	180	180	8344P076	Brass	Buna-N	2/H	2/H	405	
1	3/4	5.2 (5.6)	10	250	250	250	250	250	250	180	180	180	8344P078	Brass	Buna-N	2/H	2/H	405	

Notes

- Exhaust orifice and Cv flow factors, when different from pressure specs, are listed in parentheses.
- 8314, 8317, 8325 ratings established with 45 SSU oil.
- Minimum pressure differential on light oil is 10 PSI.
- Quick exhaust construction.
- Valve vents to 0 PSI.
- Valve supplied with cast urethane disc.
- For best results, do not use valve rated 250 PSI on mainline pressure of less than 125 PSI.

Key to Elastomer Abbreviations

B/N/NEO – Buna-N, Nylon, Neoprene
BUN/NYL – Buna-N, Nylon
VIT/TEF – Viton™, Teflon™ (DuPont)
URETH – Cast Urethane

Selecting the Right Valve

This catalog has been designed to make it easier to select and order the right valve for your application from the world's broadest line of solenoid valves.

The information you need to know to select a solenoid valve includes:

- **Type:** Two-way, three-way, four-way two-position, or four-way three-position blocked.
- **Operation:** Normally closed (closed when the coil is de-energized, open when energized), normally open (open when the coil is de-energized, closed when energized), or universal (three- and four-way valves only)
- **Media:** Air, water, light oil, steam, or other.
- **Size:** NPT threads, and gallons per hour, square cubic feet per hour (SCFH), pounds of steam per hour or flow coefficient (Cv).
- **Pressure:** Inlet maximum and minimum, or pressure drop.
- **Atmospheric Conditions:** Ambient temperatures, indoor/outdoor application, hazardous location, or hosedown environment.
- **Voltage:** Value (24, 120, or 240), AC (Hz) or DC.
- **Extra Options:** Special leads, manual operator, or other.

The condensed listing of valves on the following pages is organized by operation, and indexed by pipe size and flow factor to give you a quick look at the key specifications for ASCO general service and hot water/steam valves. Select the valves that meet your needs, then review complete specifications in the expanded catalog pages.

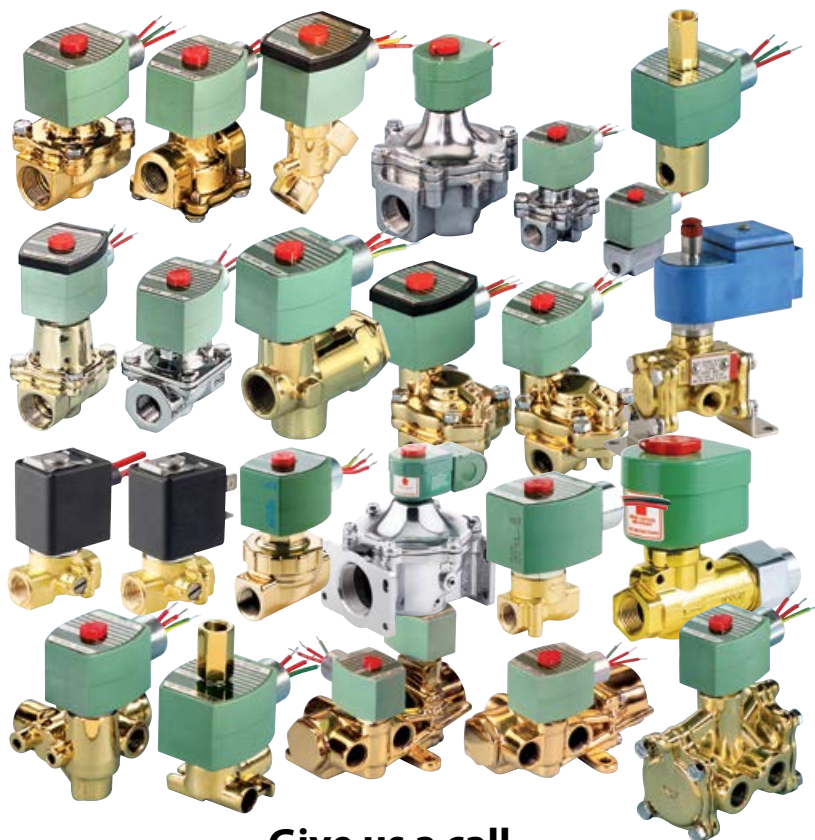
If you know the series that you need, you can go directly to the appropriate pages. Two-way, three-way and four-way valves are grouped into sections, and the series appear numerically within each section.

If you have any questions or can't find a valve you are looking for, feel free to call Lesman. If you're in Illinois, Indiana, or Michigan, dial 800-953-7626. From Wisconsin, call 800-837-1700.



Look for the Block L for ASCO valves, kits, and coils that are normally available from Lesman stock, ready to ship to you within 24 hours!

Don't see the valve you're looking for?



Give us a call...

With more than 20,000 variations available, we're sure to have the valve you need!!!

More than 20,000 types and sizes of ASCO valves are available to control many acids, alcohols, bases, solvents, corrosive gases, and liquids. Modified or special designs are sometimes required, depending upon the application.

Corrosion occurs either as a chemical or electrochemical reaction. Therefore, you need to consider both the galvanic and electromotive force series, as well as the pressure, temperature, and other factors that might be involved in your specific application.

General Information on Elastomer Materials

Buna-N: Commonly referred to as a nitrile rubber and ASCO's standard synthetic elastomer for accomplishing resilient-type seating or sealing. It has excellent compatibility for most air, water and light oil applications and has a useful temperature range of 0° to 180° F (-18° to 82° C).

Neoprene: Used principally as an external seal in refrigeration applications and for oxygen service as well. It has a useful temperature range of 0° to 180° F (-18° to 82° C).

Ethylene Propylene: Selected for applications above the Buna-N temperature range, such as handling hot water and steam. It has an extremely wide range of fluid compatibility but has the distinct advantage that it cannot be used with petroleum-based fluids or fluids so contaminated (such as lubricated air). It has a useful temperature range of -10° to 300° F (-23° to 149° C).

Viton*/Fluorel, etc.:** A fluorocarbon elastomer developed primarily for handling hydrocarbons, such as jet fuels, gasolines, solvent, etc., which normally caused detrimental swelling to Buna-N. Viton has a high temperature range similar to ethylene propylene but has the advantage of being somewhat more resistant to "dry heat." It has a rather wide range of chemical compatibility and a useful temperature range of 0° to 350° F (-18° to 177° C).

Teflon: Teflon and teflon with fillers are considered more of a plastic than a resilient-type material. They are virtually unattacked by any fluid. Their temperature usage has ranged from discs for cryogenic valves to discs for steam valves. They are not easily fabricated and are known to have "cold flow" characteristics that may contribute to objectionable leakage, particularly on gases.

*DuPont Co. trademark

**3M trademark

Low Power Consumption Solenoid Valves

Key Features

- DC coil pressures are increased to match AC ratings (up to a 500% improvement)
- Lower power operation — two watt power draw!
- Voltage ranging capabilities
- AC/DC interchangeability
- Eliminates AC hum — better design for quiet operation
- Longer coil life due to lower operating temperatures and built-in electrical surge suppression
- Internal stainless steel drive pins for support
- Standard Class H coils for ambient temperatures to 175°F
- New 24" lead lengths
- One-piece molded coil structure, two-piece welded core tube, and liquid crystal polymer (LCP) solenoid housing
- Steel and powder coated RedHat snap ring to hold the coil to the core tube for easier assembly and disassembly
- Solenoid approvals to UL, CSA, and CE standards
- Laser etched solenoid with AC/DC ratings, part number of the solenoid, and manufacturing code (traceability)

Specifications

Operating Pressure Differential: *Minimum:* Required to fully open the valve and keep it open. For 2-way valves with a floating diaphragm, the valve may start to close below the minimum pressure differential. For 3- and 4-way valves, the minimum differential is measured between the pressure and exhaust ports, and must be maintained to ensure complete transfer from one position to the other. *Maximum (MOPD):* The maximum difference in pressure between the inlet and outlet ports, against which the solenoid can safely operate the valve. If the pressure at the outlet is not known, it is safest to regard the supply pressure as the MOPD.

Note: Hung diaphragm constructions do not require a minimum pressure differential. However, they may not yield maximum flow rates at low-pressure differentials.

Ambient Temperature: *Minimum:* Nominal limitation of 32°F (0°C) is advisable for any valve that might contain moisture (water vapor). Where freezing water is not a factor, the minimum ambient temperature of these valves is 14°F (-10°C). Special constructions are available with low temperature elastomers to provide service at -40°F (-40°C) ambient temperatures. *Maximum:* The maximum ambient temperature is 140°F (60°C), based on continuous energizing with the maximum fluid temperatures as shown on each catalog page.

Viscosity: All valves with a pressure rating for light oil are designed for use with oils rated for a maximum of 300 SSU except Series 8314, 8317, 8321 (45 SSU) and Series 8345 (50 SSU)

Optional Manual Operators: Provided to operate the valves manually when electric actuation is not provided. There are two basic types of manual operators; momentary and maintained. To determine which type of manual operator is available for your valve, call Lesman.

Electrical Specifications

Coil Version	Input Voltage	Minimum Voltage	Maximum Voltage	Peak Inrush Current	Average Holding Current	Average Holding Volt-Amps	Power Draw
12/24 DC	12	10.4	26.4	3.2 Amps	0.340 Amps	4.0 VA	2 Watts
	24	10.4	26.4	3.2 Amps	0.250 Amps	6.0 VA	2 Watts
24-99/DC (50-60 Hz)	24	20.4	109	1.4 Amps	0.170 Amps	4.0 VA	2 Watts
	99	20.4	109	1.4 Amps	0.100 Amps	10.0 VA	2 Watts
100-240/DC (50-60 Hz)	100	85	264	0.32 Amps	0.040 Amps	4.0 VA	2 Watts
	240	85	264	0.32 Amps	0.032 Amps	7.5 VA	2 Watts



Two-watt power draw lowers operating costs up to 14 percent!

Three voltage ranges fit almost any electrical requirement: 100-240 AC/DC, 24-99 AC/DC, and 12-24 DC

Built-in surge suppression protects the coil from voltage spikes!

Response Time: Response time from fully closed to fully open or vice versa depends on valve size, operating mode, fluids, temperature, inlet pressure, and pressure drop. *Small direct acting valves:* 10 to 60 msec; *Large direct acting valves:* 25 to 90 msec; *Internal pilot operated valves:* Small diaphragm types: 20 to 100 msec; Large diaphragm or small piston types: 80 to 150 msec; Large piston types: 105 to 200 msec; Operation on liquids has relatively little effect on small direct acting valves. Response times of large direct acting and internally piloted valves may be lengthened by 50% to 100%.

Approvals: UL, CSA, and CE listings are indicated on each series of valves in this catalog. Listing codes and other information follow in this section. UL: UL429, Electrically Operated Valves; CSA: Standard C22.2 No. 139, Electrically Operated Valves. covers the standards governing solenoid valves. CE: Machinery: 89/392/EEC; EMC (Electromagnetic Capability): 89/336/7EC; Low Voltage: 72/23/EEC; PED (Pressure Equipment Directive): 97/23/EC. General Purpose/Watertight coils each bear the CE approval mark on the coil.

Solenoid Recognized Components: Intended for use as factory-installed components of equipment where final acceptability must be determined by UL. Next Generation solenoids are listed in the UL recognized component index under Guide No. YSY12 for ordinary locations.

General Purpose Valves: Normally open or normally closed valves intended to control fluid flow, but not to be depended upon to act as safety valves.

Safety Shutoff Valves: Normally closed valves of the "on" and "off" type. Intended to be actuated by a safety control or emergency device to prevent unsafe fluid delivery. They may also be used as General Purpose valves. Multiple port valves may be designated as safety shutoff valves only with respect to the normally closed port.

See next two pages for model selection guides.

Low Power Consumption Solenoid Valves

2-Way Valves

- Two-way (2/2) Next Generation solenoid valves have one inlet port and one outlet port.
- Normally closed (opens when energized) and normally open operation.
- Three voltage ranges available: 100-240 VAC/VDC, 24-99 VAC/VDC, and 12-24 VDC

High pressure, low power consumption!



ASCO Next Generation solenoid valves provide lower operating cost without sacrificing the performance, reliability, and ruggedness that you have come to expect from ASCO. NextGen valves use electronics technology to manage power, providing a new standard of operation.

The solenoid incorporates a power management circuit providing lower power consumption, enhanced pressure and flow ratings, and electrical surge suppression to both the solenoid and electronic controls.

**NORMALLY
AVAILABLE
FROM STOCK**
Stock models are available
in all three voltage ranges.

Model Selection Guide

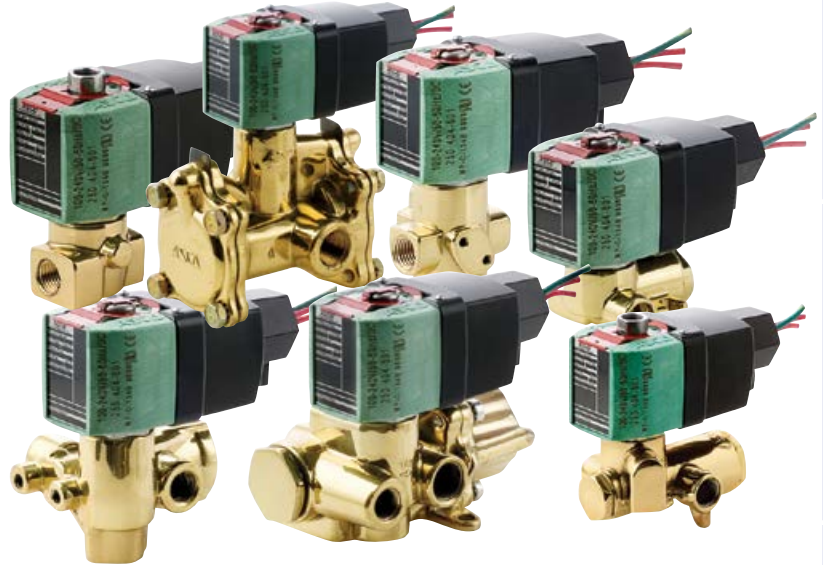
Specify voltage range: 100-240 VAC/VDC, 24-99 VAC/VDC, or 12-24 VDC

Material	Pipe Size (In)	Orifice Diam. (In)	Cv Flow Factor	Operating Pressure Differential (PSI)				Max. Fluid Temp.	UL	Wattage AC/DC	Catalog Number	Price	Rebuild Kit	Price
				Min.	Max AC/DC									
					Air/Inert Gas	Water	Light Oil							
Two-Way Solenoid Valve, General Service - Normally Closed (Opens when Energized)														
Brass	1/4	3/32	0.21	0	720	485	420	180°F	SSO	2	8262R109	\$109.00	—	—
Stainless	1/4	3/32	0.21	0	720	485	420	180°F	SSO	2	8262R183	164.00	—	—
Brass	1/4	1/8	0.35	0	500	500	330	180°F	SSO		8262R232	109.00	—	—
Stainless	1/4	1/8	0.35	0	500	500	330	180°F	SSO		8262R185	164.00	—	—
Brass	1/4	5/32	0.47	0	290	250	250	180°F	SSO	2	8262R202	109.00	—	—
Stainless	1/4	5/32	0.47	0	290	250	250	180°F	SSO	2	8262R220	164.00	—	—
Brass	1/4	7/32	0.72	0	145	125	120	180°F	SSO	2	8262R208	113.00	—	—
Stainless	1/4	7/32	0.72	0	145	125	120	180°F	SSO	2	8262R226	171.00	—	—
Brass	1/4	9/32	0.96	0	90	85	80	180°F	SSO	2	8262R212	130.00	—	—
Stainless	1/4	9/32	0.96	0	90	85	80	180°F	SSO	2	8262R230	178.00	—	—
Brass	1/4	5/16	1.5	10	1500	1500	1500	180°F	-	2	8223P025	334.00	322815	\$272.00
Brass	3/8	5/32	0.52	0	150	150	100	180°F	SSO	2	8263R200	156.00	—	—
Brass	3/8	9/32	0.85	0	80	80	70	180°F	SSO	2	8263R210	208.00	—	—
Brass	3/8	5/16	1.5	10	1500	1500	1500	180°F	-	2	8223P027	334.00	322815	272.00
Brass	3/8	5/8	3	0	150	150	-	180°F	SSO	2	8210P093	183.00	322670	121.00
Brass	1/2	3/8	3.2	25	1500	1500	1500	180°F	-	2	8223P003	591.00	322816	465.00
Stainless	1/2	3/8	3.2	25	1500	1500	1500	180°F	-	2	8223P010	968.00	322817	577.00
Brass	1/2	5/8	4	0	150	150	-	180°F	SSO	2	8210P094	183.00	322670	121.00
Brass	1/2	5/8	4	5	300	300	300	180°F	SSO	2	8210P007	217.00	322654	118.00
Stainless	1/2	5/8	4	0	150	150	125	180°F	GP	2	8210P087	639.00	322676	371.00
Stainless	3/4	5/8	4.5	0	150	150	125	180°F	GP	2	8210P088	648.00	322676	371.00
Brass	3/4	3/4	5	0	150	150	-	180°F	SSO	2	8210P095	194.00	322673	161.00
Brass	3/4	3/4	5	0	3	3	-	180°F	SSO	2	8030P003	248.00	—	—
Brass	3/4	3/4	7.8	25	750	750	750	180°F	-	2	8223P005	766.00	—	—
Brass	1	1	13	5	150	150	100	180°F	SSO	2	8210P004	283.00	322677	205.00
Brass	1 1/4	1 1/8	15	5	150	150	100	180°F	SSO	2	8210P008	340.00	322677	205.00
Brass	1 1/2	1 1/4	22.5	5	150	150	100	180°F	SSO	2	8210P022	495.00	322680	268.00
Brass	2	1 3/4	43	5	150	125	90	180°F	GP	2	8210P100	828.00	322682	516.00
Two-Way Solenoid Valve, General Service - Normally Open (Closed when Energized)														
Brass	1/4	3/32	0.17	0	300	250	230	180°F	GP	2	8262R261	164.00	322777	122.00
Brass	1/4	1/8	0.35	0	130	110	100	180°F	GP	2	8262R262	164.00		
Brass	1/4	5/32	0.49	0	85	75	60	180°F	GP	2	8262R263	164.00		
Brass	1/4	9/32	0.96	0	30	20	20	180°F	GP	2	8262R265	164.00		
Brass	3/8	5/8	3	0	150	150	125	180°F	GP	2	8210P033	284.00	322770	191.00
Brass	1/2	5/8	4	0	150	150	125	180°F	GP	2	8210P034	284.00	322770	191.00
Brass	3/4	3/4	5.5	0	150	150	125	180°F	GP	2	8210P035	302.00	322771	216.00
Brass	3/4	3/4	5.5	0	2	2	-	180°F	GP	2	8030P083	257.00	—	—

SSO = Safety Shut-off Valve, GP = General Purpose Valve.

3-Way and 4-Way Valves

- Three-way (3/2) Next Generation solenoid valves have three ports and two orifices. When one orifice is open, the other is closed.
- Normally closed, normally open, and universal operation (can function as normally open, normally closed, diverter of fluid flow, or selector of 2 fluid sources configurable by piping.)
- Four-way, four port (4/2) and five port (5/2) Next Generation solenoid valves have one pressure port, 2 cylinder ports, and either 1 or 2 exhaust ports.
- Single solenoid operation, pressure and exhaust ports and cylinder ports alternate connection based on solenoid operation.



Model Selection Guide

Specify voltage range: 100-240 VAC/VDC, 24-99 VAC/VDC, or 12-24 VDC

Material	Pipe Size (In)	Orifice Diam. (In)	Cv Flow Factor	Operating Pressure Differential (PSI)				Max. Fluid Temp.	UL	Wattage AC/DC	Catalog Number	Price	Rebuild Kit	Price
				Min.	Max AC/DC									
					Air/Inert Gas	Water	Light Oil							
Three-Way Solenoid Valve, General Service - Normally Closed (Pressure to Cylinder Port when Energized)														
Brass	1/4	3/32 c	0.17 c	0	205	205	205	180	GP	2	8314R035	\$185.00	322864	\$138.00
Stainless	1/4	3/32 c	0.17 c	0	205	205	205	180	GP	2	8314R121	250.00	—	—
Brass	1/4	1/8	0.27	0	145	145	145	180	GP	2	8314R036	202.00	322864	138.00
Brass	1/4	5/64	0.12	0	232	232	232	180	GP	2	8320P182	207.00	322722	122.00
Brass	1/4	7/64	0.23	0	150	150	150	180	GP	2	8320P184	171.00	322722	122.00
Brass	1/4	5/32	0.35	0	75	75	75	180	GP	2	8320P186	175.00	322722	122.00
Brass	1/4	3/32 a	0.20 a	5 d	150	150	100	180	GP	2	8317P035	248.00	—	—
Brass	1/4	9/32 b	0.80 b	10	200	200	200	180	GP	2	8321P001	414.00	—	—
Brass	3/8	9/32 b	0.80 b	10	200	200	200	180	GP	2	8321P002	414.00	—	—
Brass	3/8	5/8	2.5	10	250	250	-	180	GP	2	8316P054	414.00	322690	218.00
Brass	1/2	5/8	3.2	10	250	250	-	180	GP	2	8316P064	421.00	322690	218.00
Brass	3/4	11/16	4.8	10	250	250	-	180	GP	2	8316P074	654.00	—	—
Three-Way Solenoid Valve, General Service - Normally Open (Cylinder Port Exhausts when Energized)														
Brass	1/4	5/64	0.12	0	210	210	210	180	GP	2	8320P192	207.00	—	—
Brass	1/4	7/64	0.23	0	150	150	150	180	GP	2	8320P194	171.00	—	—
Three-Way Solenoid Valve, General Service - Universal Operation														
Brass	1/4	5/64	0.12	0	116	116	116	180	GP	2	8320P172	171.00	—	—
Brass	1/4	7/64	0.23	0	60	60	60	180	GP	2	8320P174	171.00	—	—
Brass	1/4	5/32	0.35	0	35	35	35	180	GP	2	8320P176	168.00	—	—

GP = General Purpose Valve.

a = 1/4" exhaust orifice with 0.73 Cv flow.
c = 3/32" exhaust orifice with 0.27 Cv flow.

b = 11/32" exhaust orifice with 1.2 Cv flow.
d = 10 psi minimum for light oils.

Model Selection Guide

Specify voltage range: 100-240 VAC/VDC, 24-99 VAC/VDC, or 12-24 VDC

Material	Pipe Size (In)	Orifice Diam. (In)	Cv Flow Factor		Operating Pressure Differential (PSI)				Max. Fluid Temp.	UL	Wattage AC/DC	Catalog Number	Price	Rebuild Kit	Price
					Min.	Max AC/DC									
			Pressure	Exhaust		Air/Inert Gas	Water	Light Oil							
Four-Way Solenoid Valve, General Service - Single Solenoid															
Brass	1/4	1/16 b	0.09	0.09	10	150	150	150	180°F	GP	2	8345P001	\$308.00	322925	\$157.00
Brass	1/4	1/4	0.80	1.00	10 a	250	250	250	180°F	GP	2	8344P070	612.00	322696	319.00
Brass	3/8	3/8	1.40	2.20	10 a	250	250	250	180°F	GP	2	8344P072	755.00	322697	352.00
Brass	1/2	3/8	1.40	2.20	10 a	250	250	250	180°F	GP	2	8344P074	755.00	322697	352.00
Brass	3/4	3/4	5.20	5.60	10 a	250	250	250	180°F	GP	2	8344P076	1740.00	322698	864.00
Brass	1	3/4	5.20	5.60	10 a	250	250	250	180°F	GP	2	8344P078	1740.00	322698	864.00

GP = General Purpose Valve.

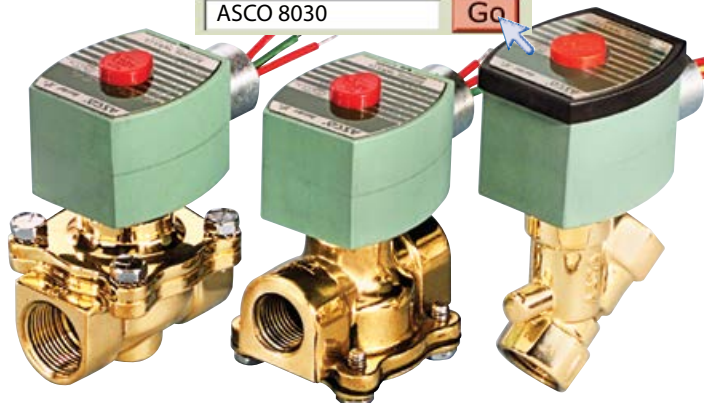
a = 25 psi minimum for light oils.

b = 3/32" exhaust orifice.

Low Pressure 2-Way Solenoid Valves 8030 Series



Search www.lesman.com for
ASCO 8030 Go



Specifications

Nominal Ambient Temperature Ranges: Red-Hat and Red-Hat II Valves/AC Construction: 32° F to 125° F

Valve Parts in Contact with Fluids: Body: Brass or 18.8 S.S., as listed; Seals and Disc: Buna-N; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Core Spring: 302 S.S.; Shading Coil: Copper (brass body); Silver (stainless steel body); Stem: Nylon (Normally Open valves)

Electrical: Standard Voltage: 120 volts AC, 60 Hz; Other voltages available: 24, 240, 480 volts, AC, 60 Hz (or 110, 220 volts, AC, 50 Hz); 6, 12, 24, 120, 240 volts, DC. Call Lesman for price and availability.

Coil: Continuous duty molded Class F

Solenoid Enclosures: Valves in this series have either Red-Hat metal solenoid enclosures or Red-Hat II molded epoxy solenoids. Red-Hat II valves are identified by the letter G in their catalog numbers, e.g., 8030G10.

Standard Enclosures: Red-Hat: Type 1 General Purpose; Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose/ Watertight

Optional Enclosures: Red-Hat: Types 3, 7 and 9 Combination Explosion-proof and Raintight. Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call Lesman for price and availability.

Approvals: CSA certified. UL listing — if denoted with (•) valve is UL approved in normal service. If denoted (o) valve is UL approved for use as a safety valve. FM approved on Normally Closed valves only, except Catalog Numbers 8030A17 and 8030A67.

Kits: Each kit includes all the internal parts that would require replacement in normal service. Included are the solenoid base sub-assembly, cores, resilient discs, seats, springs and all gaskets. Installation and maintenance sheets are packaged with each kit to simplify installation. Replacement Coils are not included.

*DuPont Co. trademark



Fax Us!!!

In Chicago Area (630)595-2386
In Wisconsin (262)923-1797

Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)		Cv Flow Factor	Max. Fluid Temp.	UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/ Inert Gas	Water					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Normally Closed (Closed when de-energized)													
3/8	3/8	0-7	0-5	1.8	180°F	°	6.1/F	 8030G010	\$115.00	 302787	\$92.00	 238210-032-D	\$88.00
3/8	3/8	0-15	0-15	1.8	180°F	°	10.1/F	 8030G013	151.00	 302788	127.00	 238610-032-D	98.00
1/2	7/16	0-4	0-6	2.8	180°F	°	6.1/F	 8030G016	117.00	 302789	65.00	 238210-032-D	88.00
1/2	7/16	0-15	0-15	2.8	200°F	°	15.4/F	 8030G017	156.00	 302790	126.00	 099257-001-D	128.00
3/4	3/4	0-2	0-2	5	180°F	°	10.1/F	 8030G003	192.00	 302791	108.00	 238610-032-D	98.00
3/4	3/4	0-4	0-4	5	180°F	°	17.1/F	 8030G043	205.00	 302791	108.00	 238610-132-D	121.00
Normally Open (Open when de-energized)													
3/8	3/8	0-15	0-15	1.6	200°F	•	15.4/F	8030G070	232.00	302797	188.00	 272610-032-D	122.00
1/2	7/16	0-15	0-15	2.2	200°F	•	20/F	 8030G071	232.00	 302798	196.00	 272610-132-D	127.00
1/2	3/4	0-2	0-2	5	180°F	•	10.1/F	8030G082	259.00	 302799	110.00	 238610-032-D	98.00
3/4	3/4	0-2	0-2	5.5	180°F	•	10.1/F	 8030G083	201.00	 302799	110.00	 238610-032-D	98.00



ASCO's Next Generation is Here!

- Lower power consumption
- Voltage ranging capabilities — one coil covers multiple voltages

ASCO Red Hat
NEXT GENERATION

See page 395
for details.

**NORMALLY
AVAILABLE
FROM STOCK**

**AVAILABLE TO SHIP IN 5
WORKING DAYS OR LESS!**

8040/8215 Series Aluminum Body 2-Way Solenoid Valves

Specifications

Nominal Ambient Temperature Ranges: AC Constructions: 32° to 125° F; DC Construction: Red-Hat Valves: 32° to 77° F (104° F occasionally); Red-Hat II Valves: 32° to 104° F

Valve Parts in Contact with Fluids: Body: Aluminum; Seals, Diaphragms, Discs: Buna-N; Disc Holder: Nylon (10.1 and 11.6 watt N/O only); Core Guide: Acetal; Rider Rings: Filled Teflon*; Core / Plugnut: 430F SS, Silicone Steel (8215A40, 8215A90); Springs: 302 SS; Shading Coil: Copper

Electrical: Standard Voltage: 120 volts AC, 60 Hz; Other Voltages Available: 24, 240, 480 volts, AC, 60 Hz (or 110, 220 volts, AC, 50 Hz); 6, 12, 24, 120, 240 volts, DC. Call Lesman for price and availability.

Coil: Continuous duty molded Class B or F, as listed

Solenoid Enclosures: Valves in this series have Red-Hat metal solenoid enclosures or Red-Hat II molded epoxy solenoids. Red-Hat II valves are identified by the letter G in their catalog numbers, e.g., 8040G10.

Standard Enclosures: Red-Hat: Type 1 General Purpose; Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight

Optional Enclosures: Red-Hat: Types 3, 7 and 9 Combination Explosion-proof and Raintight. Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number, except EF8215A40, EF8215A90 and EF8215B93. Call Lesman for price and availability.

Approvals: CSA certified. UL listing — if denoted with (•) valve is UL approved for General Purpose use. If denoted (o), valve is UL approved for use as a safety valve. FM approved on Normally Closed valves only except Catalog Numbers 8215A40 and 8215A90.

Kits: Include internal parts that may require replacement in normal service, solenoid base subassembly, cores, resilient discs, seats, springs, and gaskets. Installation and maintenance sheets packaged with each kit to simplify installation. Replacement coils must be ordered separately. All coils shown are 120V AC, 60 Hz.



Additional constructions are available. For optional electrical features, such as open frame solenoids, junction box enclosures, panel mount constructions, call Lesman.

Model Selection Guide

Aluminum Body — 120 volts AC/60 Hz

Pipe Size Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)	Cv Flow Factor	Max. Fluid Temp.	UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air, Fuel and Gas					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Normally Closed (Closed when de-energized)												
1/4	3/8	0-15	1.1	125°F	°	6.1/F	 8040H007	\$75.00	 314692	\$81.00	 238210-032-D	\$88.00
3/8	3/8	0-15	1.2	125°F	°	6.1/F	 8040H008	74.00	 318247	61.00	 238210-032-D	88.00
3/8	3/4	0-50	3.4	125°F	°	10.1/F	 8215G010	157.00	 302350	129.00	 238610-032-D	98.00
1/2	3/4	0-50	4.4	125°F	°	10.1/F	 8215G020	157.00	302350	129.00	238610-032-D	98.00
1/2	3/4	5-125	4.8	125°F	°	6.1/F	8215G002	151.00	302349	122.00	238210-032-D	88.00
3/4	3/4	0-2	9.5	125°F	°	10.1/F	8040G023	148.00	306633	81.00	238610-032-D	98.00
3/4	3/4	0-50	5.1	125°F	°	10.1/F	8215G030	163.00	302350	129.00	238610-032-D	98.00
3/4	1 5/8	0-50	11	125°F	°	15.4/F	8215 135	305.00	302352	239.00	099257-001-D	128.00
1	1 5/8	0-25	21	125°F	°	15.4/F	8215B050	294.00	302352	239.00	099257-001-D	128.00
1 1/4	1 5/8	0-25	32	125°F	°	15.4/F	8215B060	294.00	302352	239.00	099257-001-D	128.00
1 1/2	1 5/8	0-25	35	125°F	°	15.4/F	8215B070	340.00	302352	239.00	099257-001-D	128.00
2	2 3/32	0-25	60	125°F	°	15.4/F	8215B080	501.00	302353	305.00	099257-001-D	128.00
2 1/2	3	0-5	117	125°F	°	28.2/F	8215A090	760.00	302354	470.00	206409-011-D	318.00
3	3	0-5	138	125°F	°	28.2/F	8215A040	975.00	302354	470.00	206409-011-D	318.00
Normally Open (Open when de-energized)												
1/2	3/4	0-125	4	125°F	•	10.1/F	8215G023	256.00	302361	194.00	238210-032-D	88.00
3/4	3/4	0-125	4.6	125°F	•	10.1/F	8215G033	258.00	302361	194.00	238610-032-D	98.00
1	1 5/8	0-25	22	125°F	•	15.4/F	8215C053	425.00	304691	321.00	099257-001-D	128.00
1 1/4	1 5/8	0-25	33	125°F	•	15.4/F	8215C063	486.00	304691	321.00	099257-001-D	128.00
1 1/2	1 5/8	0-25	37	125°F	•	15.4/F	8215C073	566.00	304691	321.00	099257-001-D	128.00
2	2 3/32	0-25	58	125°F	•	15.4/F	8215C083	687.00	304692	511.00	099257-001-D	128.00



400

SOLENOID
VALVES

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Fax: 262-923-1797

General Service Brass 2-Way Solenoid Valves 8210 Series

Specifications

Nominal Ambient Temperature Ranges: AC Models: 32° to 125° F; DC Models: Red-Hat Valves: 32° to 77° F (104° F occasionally); Red-Hat II Valves: 32° to 104° F

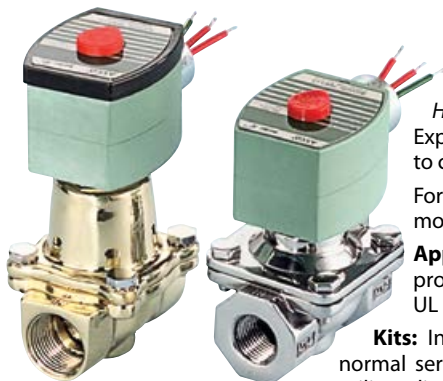
Valve Parts in Contact with Fluids: Body: Brass or Stainless Steel; Seals/Discs: Buna-N or Teflon; Disc Holder: Nylon; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Springs: 302 S.S.; Shading Coil: Copper (brass body); Silver (SS body)

Coil: Continuous duty molded Class F or H, as listed.

Electrical: Standard Voltage: 120 volts AC, 60 Hz; Other voltages available: 24, 240, 480 volts, AC, 60 Hz (or 110, 220 volts, AC, 50 Hz); 6, 12, 24, 120, 240 volts, DC. Call Lesman for price and availability.

Solenoid Enclosures: Valves in this series have either Red-Hat metal solenoids or Red-Hat II molded epoxy solenoids. Red-Hat II valves are identified by the letter G in their catalog numbers, e.g., 8210G4.

Standard Enclosures: Red-Hat: Type 1 General Purpose; Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight



Optional Enclosures: Red-Hat: Types 3, 7 and 9 Combination Explosion-proof and Raintight. Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call for price and availability.

For open frame solenoids, junction box enclosures, panel mount constructions, call Lesman.

Approvals: CSA certified. If denoted (+), valve is UL approved for General Purpose use. If denoted (o), valve is UL approved as a safety shutoff valve.

Kits: Include all internal parts that require replacement in normal service. Includes solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Simple installation and maintenance sheets are packaged with each kit. Replacement Coils must be ordered separately. All coils shown are 120 volts AC, 60 Hz.



Model Selection Guide

Brass Body, Buna-N or Teflon® Seating – 120 volts AC / 60 Hz

Search www.lesman.com for

ASCO 8210

Go

(Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)			Cv Flow Factor	Max. Fluid Temp.	UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/ Inert Gas	Water	Lt. Oil 300SSU					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Normally Closed (Closed when de-energized)														
3/8	3/8	5-150	1-125	—	1.5	180°F	•	6.1/F	8210G073	\$103.00	5302271	\$84.00	238210-032-D	\$88.00
3/8	5/8	0-50	0-50	—	2.8	125°F	•	10.1/F	8210G074	194.00	5304076	157.00	238610-032-D	98.00
3/8	5/8	0-150	0-150	—	3	180°F	•	10.1/F	8210G093	136.00	5302272	113.00	238610-032-D	98.00
3/8	5/8	5-200	5-150	5-135	3	180°F	•	6.1/F	8210G001	117.00	5302273	97.00	238210-032-D	88.00
3/8	5/8	5-130	5-300	5-300	3	175°F	•	17.1/F	8210G006	167.00	5302274	108.00	238610-132-D	121.00
1/2	7/16	5-150	1-125	—	2.2	180°F	•	6.1/F	8210G015	113.00	5302275	86.00	238210-032-D	88.00
1/2	5/8	0-50	0-50	—	3.6	125°F	•	10.1/F	8210G075	194.00	5304076	157.00	238610-032-D	98.00
1/2	5/8	0-150	0-150	—	4	180°F	•	10.1/F	8210G094	136.00	5302272	113.00	238610-032-D	98.00
1/2	5/8	5-200	5-150	5-135	4	180°F	•	6.1/F	8210G002	117.00	5302273	97.00	238210-032-D	88.00
1/2	5/8	5-300	5-300	5-300	4	175°F	•	17.1/F	8210G007	167.00	5302274	108.00	238610-132-D	121.00
3/4	3/4	0-50	0-50	—	5.5	125°F	•	10.1/F	8210G076	215.00	5304076	157.00	238610-032-D	98.00
3/4	3/4	5-125	5-125	5-125	5	180°F	•	6.1/F	8210G009	134.00	5302277	100.00	238210-032-D	88.00
3/4	3/4	0-150	0-150	—	5	180°F	•	10.1/F	8210G095	147.00	5302276	121.00	238610-032-D	98.00
3/4	3/4	5-250	5-150	5-100	6.5	180°F	•	6.1/F	8210G003	183.00	5302279	99.00	238210-032-D	88.00
3/4	3/4	0-350	0-300	0-200	6	200°F	•	15.4/F	8210G026	355.00	5302278	301.00	272610-032-D	122.00
1	1	0-150	0-125	0-125	13	180°F	•	15.4/F	8210G054	315.00	5302283	256.00	272610-032-D	122.00
1	1	5-150	5-150	5-100	13	180°F	•	6.1/F	8210G004	235.00	5302280	145.00	238210-032-D	88.00
1	1	0-300	0-225	0-115	13.5	200°F	•	20.1/F	8210G027①	529.00	5302282	386.00	272610-132-D	122.00
1 1/4	1 1/8	0-150	0-125	0-125	15	180°F	•	15.4/F	8210G055	355.00	5302283	256.00	272610-032-D	122.00
1 1/4	1 1/8	5-150	5-150	5-100	15	180°F	•	6.1/F	8210G008	286.00	5302280	145.00	238210-032-D	88.00
1 1/2	1 1/4	0-150	0-125	0-125	22.5	180°F	•	15.4/F	8210G056	478.00	5302286	386.00	272610-032-D	122.00
1 1/2	1 1/4	5-150	5-150	5-100	22.5	180°F	•	6.1/F	8210G022	435.00	5302284	210.00	238210-032-D	88.00
2	1 3/4	5-150	5-125	5-90	43	180°F	•	6.1/F	8210G100	768.00	5304355	417.00	238210-032-D	88.00
Normally Open (Open when de-energized)														
3/8	5/8	0-150	0-150	0-125	3	180°F	•	10.1/F	8210G033	236.00	5302334	168.00	238610-032-D	98.00
1/2	5/8	0-150	0-150	0-125	4	180°F	•	10.1/F	8210G034	236.00	5302334	168.00	238610-032-D	98.00
3/4	3/4	0-150	0-150	0-125	5.5	180°F	•	10.1/F	8210G035	236.00	5302335	194.00	238610-032-D	98.00
3/4	3/4	5-250	5-200	5-200	6.5	180°F	•	15.4/F	8210G013	294.00	5302336	156.00	272610-032-D	122.00
1	1	0-125	0-125	0-125	13	180°F	•	20/F	8210B057**	693.00	5302337	372.00	099257-005-D	170.00
1	1	5-150	5-150	5-125	13	180°F	•	15.4/F	8210G014	339.00	5302338	170.00	272610-032-D	122.00
1 1/4	1 1/8	0-125	0-125	0-125	15	180°F	•	20/F	8210B058**	705.00	5302339	537.00	099257-005-D	170.00
1 1/4	1 1/8	5-150	5-150	5-125	15	180°F	•	15.4/F	8210G018	390.00	5302338	170.00	272610-032-D	122.00
1 1/2	1 1/4	0-125	0-125	0-125	22.5	180°F	•	20/F	8210B059**	878.00	5302340	440.00	099257-005-D	170.00
1 1/2	1 1/4	5-150	5-150	5-125	22.5	180°F	•	15.4/F	8210G032	516.00	5302341	227.00	272610-032-D	122.00
2	1 3/4	5-125	5-125	5-125	43	180°F	•	15.4/F	8210G103	873.00	5304361	445.00	272610-032-D	122.00

** Models not available with the explosion-proof enclosure option.

① The 8210G27 has a Teflon main disk.

8210/8220/8263 Series Hot Water and Steam 2-Way Solenoid Valves

Specifications

Construction: *Hot Water:* Pilot-operated diaphragm valves (8210HW Series); *Hot Water/Steam:* Direct-acting valves (8263 Series); Pilot-operated piston valves (8220 Series)

Solenoid Enclosures: Valves listed in this series have either Red-Hat metal solenoid enclosures or Red-Hat II molded epoxy solenoids. Red-Hat II valves identified by change letter G in catalog number, e.g., 8210G93HW.

Standard Enclosures: *Red-Hat:* Type 1 General Purpose; *Red-Hat II:* Types 1-4, 3S, and 4X Combination General Purpose, Watertight

Optional Enclosures: *Red-Hat:* Types 3, 7 and 9 Combination Explosion-proof and Raintight. *Red-Hat II:* Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call for price and availability. For optional open frame solenoids, junction box enclosures, panel mount constructions, call Lesman.

Nominal Ambient Temperature Ranges: *Red-Hat and Red-Hat II Valves/AC Construction:* 32° to 125° F; *Red-Hat II Valves/DC Construction:* 32° to 104° F (8210HW Series only).

Coil: Continuous duty molded Class F or H, as listed

Electrical: *Standard Voltage:* 120 volts AC, 60 Hz; *Other voltages available:* 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC (8210HW Series only). Call Lesman for price and availability.

Valve Parts in Contact with Fluids: *Body:* Brass; *Core Tube:* 305 SS; *Core/Plugnut:* 430F SS; *Springs:* Inconel, 17-7PH SS; *Shading Coil:* Copper. *8210HW Series: Seals, Discs and Diaphragms:* Ethylene Propylene; *8263 Series: Disc/Seals:* Teflon*; *8220 Series: Piston:* Stainless Steel; *Discs:* Ethylene Propylene or Teflon*, as listed; *Seals:* Rulon**, Ethylene Propylene

*DuPont Co. trademark

**Dixon Industries Co. trademark

This is a combined listing of ASCO solenoid valves proven for hot water or steam service.



Approvals: CSA certified. 8210 Series is UL listed as General Purpose valve on AC voltage only. All other valves are UL listed for General Purpose use.

Important: Explosion-proof Catalog Numbers EF8210HW, EF8220 and EF8263 are not UL listed. They are suitable for Types 4, 7 (C and D) and 9 (E and F) only and have a temperature range code of T3A.

Kits: Include all internal parts that require replacement in normal service (i.e., solenoid base sub-assembly, cores, resilient discs, seats, springs and all gaskets). Installation and maintenance sheets are packaged with each kit to simplify installation. Replacement Coils must be ordered separately. All coils shown are 120 volts AC, 60 Hz.

Model Selection Guide

Hot Water Service Only — Brass Body, Ethylene Propylene Diaphragm — 120 volts AC/60 Hz

(Also Available in Stainless Steel. Please Call.)

Pipe Size Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)	Cv Flow Factor	Max. Fluid Temp.	UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil		
		Hot Water Only					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Normally Closed (Closed when de-energized)													
3/8	5/8	0-100	3	210°F	•	10.1/F	 8210G093HW	\$160.00	 302306	\$124.00	 238610-032-D	\$98.00	
3/8	5/8	5-125	3	210°F	•	6.1/F	 8210G001HW	141.00	 302305	112.00	 238210-032-D	88.00	
1/2	5/8	0-100	4	210°F	•	10.1/F	 8210G094HW	160.00	 302306	124.00	 238610-032-D	98.00	
1/2	5/8	5-125	4	210°F	•	6.1/F	 8210G002HW	141.00	 302305	112.00	 238210-032-D	88.00	
3/4	3/4	0-100	5	210°F	•	10.1/F	 8210G095HW	170.00	 302308	141.00	 238610-032-D	98.00	
3/4	3/4	5-125	5	210°F	•	6.1/F	 8210G009HW	158.00	 302307	112.00	 238210-032-D	88.00	

Hot Water and Steam Service — Brass Body — 120 volts AC / 60 Hz

(8263 Series Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)		Cv Flow Factor	Maximum Fluid Temp. °F		UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil		
		Steam	Hot Water		Steam	Hot Water			Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Normally Closed (Closed when de-energized)															
1/4	5/32	0–110	0–110	0.52	344	210	•	10.1/H	🔗 8263H300	\$152.00	🔗 302037	\$98.00	🔗 238810-032-D	\$194.00	
3/8	5/32	0–110	0–110	0.52	344	210	•	10.1/H	🔗 8263H305	166.00	🔗 302037	98.00	🔗 238810-032-D	194.00	
1/2	1/2	5–50	5–150	4.7	300	210	•	10.1/F	🔗 8220G404	166.00	🔗 323482	135.00	🔗 238610-032-D	98.00	
1/2	1/2	5–125	5–150	4.7	353	210	•	10.1/H	🔗 8220G406	228.00	🔗 323468	127.00	🔗 238810-032-D	194.00	
3/4	3/4	5–50	5–150	8.8	300	210	•	10.1/F	🔗 8220G407	173.00	🔗 323480	140.00	🔗 238610-032-D	98.00	
3/4	3/4	5–125	5–150	8.8	353	210	•	10.1/H	🔗 8220G409	292.00	🔗 323471	180.00	🔗 238810-032-D	194.00	
1	1	5–50	5–150	11.5	300	210	•	10.1/F	🔗 8220G410	384.00	🔗 323478	229.00	🔗 238610-032-D	98.00	
1	1	5–125	5–150	11.5	353	210	•	10.1/H	🔗 8220G411	586.00	🔗 323479	329.00	🔗 238810-032-D	194.00	
1 1/4	1 1/8	5–50	5–150	15	300	210	•	10.1/F	🔗 8220G009	384.00	🔗 304394	208.00	🔗 238610-032-D	98.00	
1 1/4	1 1/8	5–125	5–150	15	353	210	•	10.1/H	🔗 8220G027	661.00	🔗 304392	329.00	🔗 238810-032-D	194.00	
1 1/2	1 1/4	5–50	5–150	22.5	300	210	•	10.1/F	🔗 8220G011	499.00	🔗 304395	271.00	🔗 238610-032-D	98.00	
1 1/2	1 1/4	5–125	5–150	22.5	353	210	•	10.1/H	🔗 8220G029	854.00	🔗 304393	403.00	🔗 238810-032-D	194.00	
2	1 3/4	5–125	5–150	43	353	210	•	10.1/H	🔗 8220G031	1115.00	🔗 306807	523.00	🔗 238810-032-D	194.00	

Miniature General Service 2-Way Solenoid Valves 8262 Series

Features

- New models now available
- AC pressure ratings increased 30% over older model 8262G valves; DC pressure ratings increased by 60% over older models
- UL, CSA, and CE approvals available on most models; Normally closed valves FM approved
- Increased ambient temperature range, so valves can be used in more environments. Minimum ambient temperature -13°F for air and gas applications, maximum ambient temperature 131°F standard on AC and DC models; Optional 140°F max for AC valves (call for option pricing)
- ^a Easy installation and mounting — 5mm tapped holes on body provide quick, easy mounting on any flat surface



Specifications



Ambient Temperature: AC Units: -13° to 131°F; DC Units: -13° to 104°F.

Valve Parts in Contact with Fluids: Body: Brass or 304 SS; Seals and Discs: NBR or Cast Urethane; Core Tube: 305 SS; Core and Plugnut: 430F SS; Shading Coil: Copper (brass body); Silver (SS body); Springs: 302 SS. All 1/8"NPT N/O valves contain Acetal. All 1/4"NPT N/O valves contain Nylon.

Coil: Continuous duty molded Class F. Coils shown: 120VAC, 60Hz.

Electrical: Standard Voltage: 120 VAC, 60 Hz; Others available: 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call for prices.

Solenoid Enclosures: Valves in this series have Red-Hat II molded epoxy solenoids, identified by the letter G in their catalog numbers, e.g., 8262G2.

Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight.

Optional Enclosures: Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-Proof and Watertight. Add prefix EF to catalog number. Call for price and availability. For optional open frame solenoids, junction box enclosures, or panel mount constructions, call Lesman.

Approvals: CSA certified. UL listing: if denoted with (•) valve is UL approved for General Purpose use. If denoted (•) valve is UL approved for use as a safety valve. FM approved (N/C valves only).

Kits: Include all internal parts that may require replacement in normal service. (Solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets.) Installation/maintenance sheets are packed with each kit to simplify installation. Replacement coils must be ordered separately.

Model Selection Guide

(Other sizes available. Please Call.)

Pipe Size Size (In.)	Orifice Size (In.)	Maximum Operating Pressure Differential (PSI)			Cv Flow Factor	Max. Fluid Temp.	UL Listed	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil		
		Air/ Inert Gas	Water	Lt. Oil 300SSU					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Brass Body, NBR Disc, 120 VAC/60 Hz: Normally Closed (Closed when de-energized)															
1/8	3/64	750	750	725	0.06	180°F	°	6.1/F	8262H001	\$54.00	—	—	238210-032-D	\$88.00	
1/8	3/32	370	330	190	0.20	180°F	°	6.1/F	8262H014	50.00	—	—	238210-032-D	88.00	
1/8	1/8	185	180	120	0.34	180°F	°	6.1/F	8262H002	49.00	—	—	238210-032-D	88.00	
1/4	3/64	750	750	725	0.06	180°F	°	6.1/F	8262H019	66.00	—	—	238210-032-D	88.00	
1/4	1/8	185	180	90	0.35	180°F	°	6.1/F	8262H022	58.00	—	—	238210-032-D	88.00	
1/4	1/8	340	300	215	0.35	180°F	°	10.1/F	8262H232	71.00	—	—	238610-032-D	98.00	
1/4	5/32	210	200	145	0.50	180°F	°	10.1/F	8262H202	68.00	—	—	238610-032-D	98.00	
1/4	7/32	100	100	100	0.72	180°F	°	10.1/F	8262H208	71.00	—	—	238610-032-D	98.00	
1/4	7/32	55	54	40	0.85	180°F	°	6.1/F	8262H013	60.00	—	—	238210-032-D	88.00	
1/4	9/32	65	75	60	0.88	180°F	°	10.1/F	8262H210	68.00	—	—	238610-032-D	98.00	
1/4	9/32	90	90	90	0.88	180°F	°	17.1/F	8262H212	90.00	—	—	238610-132-D	121.00	
3/8	1/8	185	180	90	0.35	180°F	°	6.1/F	8263H002	101.00	—	—	238210-032-D	88.00	
3/8	5/32	210	185	100	0.52	180°F	°	10.1/F	8263H200	110.00	—	—	238610-032-D	98.00	
3/8	7/32	125	100	100	0.72	180°F	°	17.1/F	8263H206	125.00	—	—	238610-132-D	121.00	
3/8	9/32	100	85	70	0.85	180°F	°	17.1/F	8263H210	156.00	—	—	238610-132-D	121.00	
Cast 304 Stainless Steel Body, NBR Disc, 120 VAC/60 Hz: Normally Closed (Closed when de-energized)															
1/4	1/8	185	180	90	0.35	180°F	°	6.1/F	8262H007	97.00	—	—	238210-032-D	88.00	
1/4	3/32	370	330	160	0.17	180°F	°	6.1/F	8262H086	97.00	—	—	238210-032-D	88.00	
1/4	5/32	210	200	145	0.50	180°F	°	10.1/F	8262H220	101.00	—	—	238610-032-D	98.00	
1/4	7/32	100	100	100	0.72	180°F	°	10.1/F	8262H226	101.00	—	—	238610-032-D	98.00	
1/4	9/32	90	90	90	0.88	180°F	°	17.1/F	8262H230	132.00	—	—	238610-132-D	121.00	
Brass Body, NBR Disc, 120 VAC/60 Hz: Normally Open (Open when de-energized)															
* Standard disk on these valves is made of Urethane															
1/4	3/64	750	700	700	0.06	140°F	•	10.1/F	8262H260*	107.00	302045	89.00	238610-032-D	98.00	
1/4	3/32	300	250	250	0.17	140°F	•	10.1/F	8262H261*	107.00	302045	89.00	238610-032-D	98.00	
1/4	1/8	130	110	100	0.35	180°F	•	10.1/F	8262H262	107.00	302051	218.00	238610-032-D	98.00	
1/4	5/32	85	75	60	0.49	180°F	•	10.1/F	8262H263	107.00	302051	218.00	238610-032-D	98.00	
1/4	7/32	45	45	40	0.83	180°F	•	10.1/F	8262H264	107.00	302051	218.00	238610-032-D	98.00	
1/4	9/32	30	25	20	0.96	180°F	•	10.1/F	8262H265	107.00	302051	218.00	238610-032-D	98.00	

8256/8356 Series Sub-Mini General Service Solenoid Valve

Features

- Increased maximum pressure ratings over predecessor model 8225/8236 valves
- Optimized coil and core design for long life and trouble-free operation — reduced noise, improved response times, and increased cycle rate
- Reduced size for light weight and ease of installation and service
- 2-way normally closed, 3-way normally closed, normally open, or universal operation
- NSF 61 and 169 versions available for potable water and food service. Call Lesman for pricing.
- General service, NSF, gas shutoff and safety shutoff models are RoHS compliant (European directive 2002/95/EC)
- Brass and 316 stainless steel body constructions
- Mountable in any position

Specifications

Construction: Body: Brass with stainless steel core tube and plated steel bonnet (general purpose), or 316 stainless steel body, core tube, and bonnet (general purpose or NSF); Core, springs, and plugnut: Stainless steel; Seals and disc: FKM; NSF models: EPDM; Shading coil: Copper; NSF models: Silver

Standard Voltages: 24, 120, 240 VAC, 50-60 Hz; 12, 24, or 120 VDC



Approvals: UL recognized coil, File MH28173 CSA recognized coil, CSA certificate No. 235748; Available as NSF 61 drinking water system components, NSF 169 special purpose food equipment and devices

Solenoid Enclosures: Standard: Open frame (Prefix U) 18" leads; Optional: DIN (size 11mm, form B) (Prefix SC). Watertight/IP-65 when used with DIN connector kit for SC coils

Kits: 1/2" NPT conduit hub kit for leaded coils [224735-001-*]. DIN connector kit for SC coils [226061-001-*], Mounting adapter kit [289719].



Model Selection Guide

(Also available in general purpose or NSF-listed stainless steel bodies. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Maximum Operating Pressure Differential (PSI)			Cv** Flow Factor	Max. Fluid Temp.	Watt Rating/ Class of Coil Insulation	Replaces...	Solenoid Valve		Replacement Coil		
		Air/ Inert Gas	Water	Lt. Oil 300SSU				Obsolete Model	Catalog Number	Price Each	Catalog Number	Price Each	
Two-Way, Normally Closed (Closed when de-energized) — General Service, Brass Body, 120 VAC, 50-60 Hz													
1/8	3/64	500	500	400	0.05	180°F	6.3/F	8225B001V	U8256A001V	\$40.00	5	400117-225-D	\$50.00
1/8	1/16	400	390	230	0.08	180°F	6.3/F	8225B002V	U8256A002V	40.00	5	400117-225-D	50.00
1/8	3/32	180	180	105	0.15	180°F	6.3/F	8225B003V	U8256A004V	40.00	5	400117-225-D	50.00
1/8	7/64	135	126	80	0.19	180°F	6.3/F	8225B004V	5 U8256B045V	40.00	5	400117-225-D	50.00
Three-Way, Normally Closed (Closed when de-energized) — General Service, Brass Body, 120 VAC, 50-60 Hz													
1/8	3/64	230	235	245	0.06	180°F	6.3/F	8325B005V	U8356A001V	52.00	5	400117-225-D	50.00
1/8	1/16	140	140	150	0.09	180°F	6.3/F	8325B006V	U8356A002V	52.00	5	400117-225-D	50.00
1/8	3/32	75	72	77	0.13	180°F	6.3/F	8325B007V	U8356A004V	52.00	5	400117-225-D	50.00
1/8	7/64	70	61	72	0.15	180°F	6.3/F	8325B008V	U8356B045V	52.00	5	400117-225-D	50.00
Three-Way, Normally Open (Open when de-energized) — General Service, Brass Body, 120 VAC, 50-60 Hz													
1/8	3/64	175	180	175	0.06	180°F	6.3/F	8325B009V	U8356A005V	52.00	5	400117-225-D	50.00
1/8	1/16	165	180	175	0.09	180°F	6.3/F	8325B010V	U8356A006V	52.00	5	400117-225-D	50.00
1/8	3/32	160	175	120	0.13	180°F	6.3/F	8325B011V	U8356A008V	52.00	5	400117-225-D	50.00
1/8	7/64	148	180	99	0.15	180°F	6.3/F	8325B012V	U8356B054V	52.00	5	400117-225-D	50.00
Three-Way, Universal Operation — General Service, Brass Body, 120 VAC, 50-60 Hz													
1/8	3/64	135	135	135	0.06	180°F	6.3/F	8325B001V	U8356A009V	52.00	5	400117-225-D	50.00
1/8	1/16	72	72	72	0.09	180°F	6.3/F	8325B002V	U8356A010V	52.00	5	400117-225-D	50.00
1/8	3/32	36	33	40	0.13	180°F	6.3/F	8325B003V	U8356A012V	52.00	5	400117-225-D	50.00
1/8	7/64	45	32	27	0.15	180°F	6.3/F	8325B004V	U8356B047V	52.00	5	400117-225-D	50.00
Options and Accessories		Specify a Class F high temperature DIN-type connector (replaces leaded coil connector)								Add prefix SC		\$0.00	
		1/2" NPT conduit hub kit for leaded coils (10 each: threaded hub, gasket, and attaching screw)								224735-001-*		75.00	
		DIN connector kit for SC coils (10 each: connector, gasket, and attaching screw)								226061-001-*		50.00	
		Mounting adapter kit (Two screws and plate)								289719		5.00	

** Cv flow factor shown for three-way valves is for Port 2. Cv at Port 3 is 0.06 for all models shown.

8221 Series 2-Way Pilot-Operated Slow Closing Solenoid Valves

Specifications

Solenoid Enclosures: Valves in this series have Red-Hat metal solenoid enclosures or Red-Hat II molded epoxy solenoids. Red-Hat II solenoids are identified by the letter G in their catalog numbers, e.g., 8221G1.

Standard Enclosures: *Red-Hat:* Type 1 General Purpose; *Red-Hat II:* Types 1–4, 3S, and 4X combination General Purpose and Watertight.

Optional Enclosures: *Red-Hat:* Types 3, 7, and 9 combination Explosion-proof and raintight. *Red-Hat II:* Types 3, 3S, 4, 4X, 6, 6P, 7, and 9 combination Explosion-proof and Watertight. To order, add prefix EF to catalog number. Call Lesman for price and availability.

Additional constructions are available. Call for options (open frame solenoids, junction box enclosures, and panel mount constructions).

Electrical: *Standard Voltage:* 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz); 6, 12, 24, 120, 240 volts DC; Other voltages available as required. Call Lesman for price and availability.

Coil: Continuous duty molded Class F.

Valve Parts in Contact with Fluids: *Body:* Brass; *Disc:* Buna-N; *Seals:* Rulon[®]; *Core Tube:* 305 SS; *Core/Plugnut:* 430F SS; *Springs:* Stainless steel; *Piston:* Stainless steel or brass; *Shading Coil:* Copper

Nominal Ambient Temperature Ranges: *AC Constructions:* 32° to 125° F. *Red Hat Valves/DC Construction:* 32° to 77° F (104° F occasionally); *Red Hat II Valves/DC Construction:* 32° to 104° F.

Approvals: CSA certified. UL listed general purpose valves.

** Dixon Industries Co. trademark

Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (Water)	Cv Flow Factor	Max. Fluid Temp.	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
						Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Normally Closed (Closed when de-energized)											
3/8	9/16	5–150 PSI	3	180°F	6.1/F	 8221G001	\$237.00	 310387	\$127.00	 238210-032-D	\$88.00
1/2	9/16	5–150 PSI	3.5	180°F	6.1/F	 8221G003	237.00	 310387	127.00	 238210-032-D	88.00
3/4	3/4	5–150 PSI	5.5	180°F	6.1/F	 8221G005	255.00	 310388	140.00	 238210-032-D	88.00
1	1	5–150 PSI	11.5	180°F	6.1/F	 8221G007	519.00	 310420	281.00	 238210-032-D	88.00
1 1/4	1 1/8	5–150 PSI	13	180°F	6.1/F	 8221G009	619.00	 310506	348.00	 238210-032-D	88.00
1 1/2	1 1/4	5–150 PSI	24	180°F	6.1/F	 8221G011	897.00	 310421	468.00	 238210-032-D	88.00
2	1 3/4	5–150 PSI	36	180°F	6.1/F	 8221G013	1087.00	 310422	562.00	 238210-032-D	88.00

Need larger size valves? Call us at 800-837-1700.

212 Series 2-Way Lead-Free Composite Body Solenoid Valves

No lead! Meets NSF standards for drinking water and food equipment applications.

Specifications

Application: On/off service for clean, potable water

Fluid Temperature: 180°F max.

Operating Pressure Differential (Water): *Normally Closed:* 5–150 PSI; *Normally Open:* 5–120 PSI

Coil: Continuous duty molded Class F.

Valve Parts in Contact with Fluids: *Body:* Composite engineered PPE plastic; *Core Tube, Bonnet, Core, Plugnut, and Springs:* Stainless Steel; *Seals and Disc:* EPDM, TPE; *Shading Coil:* Copper

Standard Voltages: 120/60 VAC standard, 24/60 and 240/60 VAC. 12 or 24 VDC

Approvals: UL recognized and CSA certified coil



ASCO 212 valves are certified to meet:

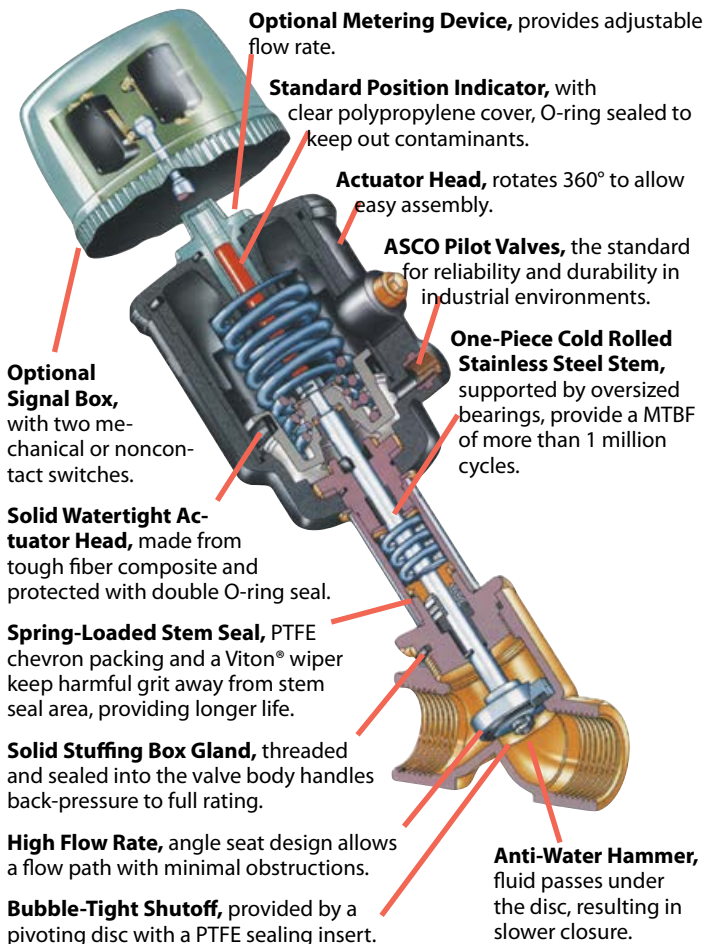
- NSF 61 Annex G drinking water system component
- NSF 169 special purpose food equipment
- NSF 42 drinking water treatment units
- NSF 372 drinking water system components (lead content certification).

Model Selection Guide

Composite Plastic Body – 120 volts AC / 60 Hz

Pipe Size (In.)	Orifice Size (In.)	Cv Flow Factor	Watt Rating/ Class of Coil Insulation	Solenoid Valve	
				Catalog Number	Price
Normally Closed (Closed when de-energized), Threaded Ends, NSF 372 Lead Content Certified					
1/2	3/4	4.5	6.9/F	 8212A519L1100F0	\$132.00
3/4	3/4	7.0	6.9/F	 8212A537L1100F0	157.00
Normally Open (Open when de-energized), Threaded Ends, NSF 372 Lead Content Certified					
1/2	3/4	4.5	10/F	 8212A520L1100F2	245.00
3/4	3/4	7.0	10/F	 8212A538L1100F2	245.00

Severe Duty Piston Valves 8290 Series



The Toughest Valve Available

You wouldn't think of putting a solenoid valve where this valve likes to operate! Give this valve any application where you have an actuated ball valve now, and watch it thrive. Put it where you have pipes clanking with the infamous sounds of water hammer, and listen to the quiet. It just loves places where you have suspended solids running through your lines.

There's no diaphragm to rip, no expensive actuator to attach to a cheap ball valve, and best of all, it requires almost no maintenance! It's called the suspended solids valve because it handles nearly anything you can think of flowing.

How many times have you found yourself rebuilding a solenoid valve because the diaphragm ripped . . . or worse, it just stopped operating? The 8290 solves the problem by combining the reliability of actuated ball valves with the simplicity of a solenoid, for a truly economical solution!

The simple design builds reliability into a valve that operates well in harsh applications. It also allows very high flow coefficients when compared to solenoid valves of the same size. Anti-water-hammer is inherent, making this valve great for stopping the flow of any liquid. Imagine . . . no longer worrying about pipes jarring themselves off the walls!

Available in both forged brass and stainless steel, you can match the material of the valve to the corrosiveness of your media. Choose either normally open or normally closed operation, in sizes from 1/2" to 2" NPT connections.

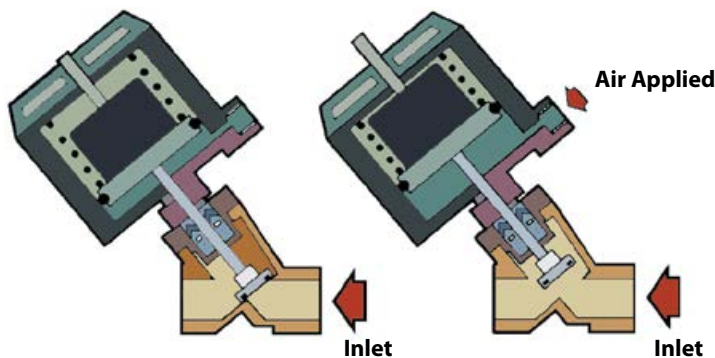


How the Piston Valve Works

The 8290 Series Piston Valves are air actuated on-off (two-position) valves. The air actuated piston moves the plug and stem assembly up or down (open or closed). A small 1/8" NPT three-way solenoid valve is used as a pilot valve to supply the air to the valve, just like an air actuated ball valve.

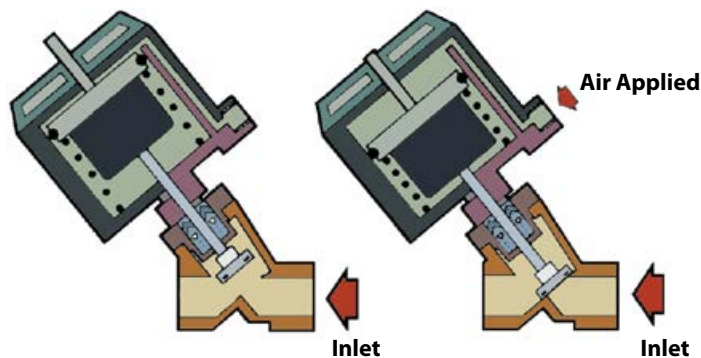
The pressure required for the pilot valve can be between 60 and 100 PSI. Piston valve must be specified as normally open or closed. For a 1/8" NPT three-way solenoid valve, we suggest ASCO's U8325A1V (order separately).

Normally Closed Operation



When air is applied to the pilot port, the plug and stem assembly move up off the seat. When the air pressure is removed, the spring returns the valve to the closed position and flow stops.

Normally Open Operation



When air is applied to the pilot port, the plug and stem assembly move down onto the seat. When the air pressure is removed, the spring returns the valve to the open position and flow resumes.



These auxiliary-piloted two-way angle-body piston valves feature an extra stable shaft with oversized bearings for extended service life — tested to more than 1 million cycles.

A preloaded stem seal and Viton shaft wiper allow these valves to be used in aggressive and corrosive services. The watertight actuator head is double-walled for superior strength. Fluid passes under the valve seat to eliminate damaging water hammer. The valves can handle back pressure to their full rating. A reversed flow version for rapid cycling steam use is also available.

Specifications

Temperature: Fluid: 15°–366° F; Ambient: 15°–150° F

Differential Pressure: Fluid: 0–240 PSI; Steam: 0–150 PSI

Pressure: Operating: 240 PSI max.; Pilot Range: 60–150 PSI

Pilot Valve Cv: 50mm/63mm Head: 0.06 (Recommended); 90mm: 0.1

Pilot Fluids: Filtered air or water

Pilot Port: 50mm/3mm Head: 1/8" NPT; 90mm: 1/4" NPT

Installation: Valves are mountable in any position

Valve Parts in Contact with Media: Body: Bronze or 316L stainless steel (SS); Stem: 303 SS; Stuffing Box: Brass or 303 SS; Disc: Brass or 303 SS; Seals: PTFE; Wiper Seal: Viton; Actuator: Fiberglass reinforced polyamide (PA+PV)

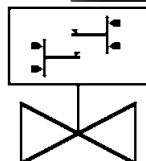


Valve Positioner Indicator Signalling Unit

Fits all 8290 valves. Supplied as a kit with two mechanical switches, and mounts on top of the valve actuator in place of the standard unit.

As the valve cycles, cams on the signalling unit plunger operate the switches to provide electrical signalling of valve position. The unit has a polyamide body and transparent polymethylmethacrylate cover.

Kit Number: 88529001
Price: \$627.00

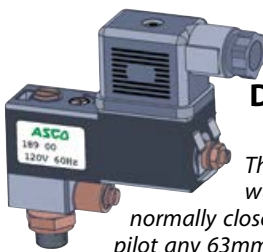


Call for Optional Materials, Low Pressures, or Adapter Plates!

Model Selection Guide

Size (In.)		Max. Pressure (PSI)		Cv Flow	Catalog Number* and Price (by Material)			
Pipe	Orifice	Fluid	Steam	Factor	Bronze		316L S.S.	
50mm Head — Normally Closed (Entry Under Disc)								
1/2	1/2	240	150	5.7	8290A384	\$189.00	8290A393	\$308.00
3/4	3/4	150	150	11	8290A385	197.00	8290A394	330.00
1	1	90	90	15	8290A386	218.00	8290A395	365.00
50mm Head — Normally Open (Entry Under Disc)								
1/2	1/2	240	150	5.6	8290A387	189.00	8290A396	308.00
3/4	3/4	240	150	11	8290A388	197.00	8290A397	320.00
1	1	240	150	19	8290A389	218.00	8290A398	365.00
50mm Head — Normally Closed (Entry Above Disc): Rapid Cycling Steam Use								
1/2	1/2	150	150	5.6	8290A390	202.00	8290A399	269.00
3/4	3/4	150	150	11	8290A391	214.00	8290A400	317.00
1	1	150	150	19	8290A392	220.00	8290A401	315.00
63mm Head — Normally Closed (Entry Under Disc)								
3/4	3/4	240	150	11	8290B005	237.00	8290B048	388.00
1	1	150	150	19	8290B010	249.00	8290B053	468.00
1 1/4	1 1/4	90	90	25	8290A016	350.00	8290A059	659.00
1 1/2	1 1/2	60	60	45	8290A020	379.00	8290A063	790.00
2	2	40	40	63	8290A024	437.00	8290A067	828.00
63mm Head — Normally Open (Entry Under Disc)								
3/4	3/4	240	150	11	8290B027	237.00	8290B070	388.00
1	1	240	150	19	8290B028	249.00	8290B071	350.00
1 1/4	1 1/4	240	150	25	8290A030	350.00	8290A073	740.00
1 1/2	1 1/2	160	150	45	8290A032	379.00	8290A075	787.00
2	2	105	105	63	8290A034	437.00	8290A077	828.00
63mm Head — Normally Closed (Entry Above Disc): Rapid Cycling Steam Use								
3/4	3/4	150	150	11	8290B037	251.00	8290B080	417.00
1	1	150	150	19	8290B038	266.00	8290B081	498.00
90mm Head — Normally Closed (Entry Under Disc)								
1	1	240	150	19	8290B011	379.00	8290B054	621.00
1 1/4	1 1/4	180	150	25	8290A017	496.00	8290A060	801.00
1 1/2	1 1/2	120	120	45	8290A021	523.00	8290A064	931.00
2	2	90	90	63	8290A025	556.00	8290A068	995.00
90mm Head — Normally Open (Entry Under Disc)								
1	1	240	150	19	8290B029	333.00	8290B072	719.00
1 1/4	1 1/4	240	150	25	8290A031	496.00	8290A074	886.00
1 1/2	1 1/2	240	150	45	8290A033	523.00	8290A076	931.00
2	2	90	150	63	8290A035	553.00	8290A078	995.00

* Models above do not include the pilot valve. Call for pricing and delivery on assemblies.



Direct Mount Pilot Valve

These special three-way direct-acting, normally closed pilot valves can pilot any 63mm-head Series 8290 valves. To order, use catalog numbers below, specifying the voltage.

Model Selection Guide

Size (In.)		Cv Flow Factor		Max. Press.	Catalog Number (by Voltage)		Price Each
Pipe	Orifice	1–2	2–3		24 VDC	120/60	
Direct Mount Pilot Valve — Speed Control on Port 3							
1/8	1/16	0.04	0.06	150 PSI	🔗 18900049-24/DC	🔗 18900049-120/60	\$131.25
Direct Mount Pilot Valve — No Speed Control on Port 3							
1/8	1/16	0.04	0.06	150 PSI	🔗 18900036-24/DC	🔗 18900036-120/60	116.25



Metering Device

Adjusts flow from 0% to 100%. Mounts on top of any 8290 series valve in place of the standard position indicator. For normally open or normally closed valves with fluid entry under the disk.

Kit Number: 88529003
Price: \$508.00

Dust Collector Solenoid Valves 8353 Series

Series 8353 diecast aluminum diaphragm-operated valves are specially designed for reverse jet-type dust collectors. High flow, long life, and fast opening combine to produce a superior design for dust collector systems.

Specifications

Solenoid Enclosures: Valves with integral solenoids in this series have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8262G1V.

Standard Enclosures: *Red-Hat II:* Types 1-4, 3S, and 4X Combination General Purpose and Watertight.

Optional Enclosures: *Red-Hat II:* Types 3, 3S, 4, 4X, 6, 6P, 7, and 9 combination Explosion-proof and Watertight. To order, add prefix EF to catalog number. Additional constructions available are open frame solenoids and junction box. Call Lesman for details.

Valve Parts in Contact with Fluids: *Body:* Die cast aluminum (<0.4% copper); *Seals:* Buna-N; *Diaphragms:* Buna-N, Hytrel, or Neoprene as noted; *Discs:* Buna-N or Nylon. Call Lesman for other options.

Coil: Continuous duty molded Class F.

Media: Air and inert gas.

Pressure: *Minimum:* 5 or 15 PSI. (*Neoprene diaphragm/nylon disc:* 15 PSI min.) *Maximum:* 125 PSI. For DC constructions, call Lesman.

Ambient Temperature Ranges: *AC construction:* 0° to 180° F. 140° F max. for valves with Hytrel diaphragm. Call for DC constructions.

Fluid Temperature: 0° to 180°F max., except as noted. For temps to 250° F, specify Viton, suffix V except as noted otherwise.



Buy ASCO solenoid valves, repair kits, and replacement coils online at Lesman.com.

Place your order anytime, day or night, through our secure web store.



Model Selection Guide

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)		Cv Flow Factor	Max. Fluid Temp.	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Diaphragm Only 10-Pack "Zip" Kit		
		Required Minimum	Required Maximum				Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Integral Pilot Standard Solenoid Enclosures (Red Hat II — Types 1, 2, 3, 3S, 4, and 4X)													
1	1 1/8	5	125	20	180°F	9.1/F	8353G041	\$120.00	314450	\$119.00			
1 1/2	1 1/2	15	125	35	180°F	17.1/F	8353G001	344.00	300144	209.00			
2	2	15	125	60	180°F	17.1/F	8353G002	412.00	300145	340.00			
Remote Pilot Construction (Minimum Pilot Valve Orifice Size 1/8")													
3/4	3/4	5	125	10.5	180°F	—	8353C033	68.00	096875	56.00	238864	\$501.00	
3/4	3/4	5	125	10.5	180°F	—	8353C030	83.00	096875	56.00	238864	501.00	
3/4	3/4	5	125	10.5	180°F	—	8353C004	78.00	096875	56.00	238864	501.00	
1	1 1/8	5	125	20	140°F	—	8353C035	79.00	200262	65.00	238866	501.00	
Standard Solenoid Enclosures (Red Hat: Type 1. Red Hat II – Types 1, 2, 3, 3S, 4, and 4X). Normally Closed (Closed when de-energized) Brass Body													
1/8	1/8	0	125	0.34	180°F	6.1/F	8262H002	49.00	302014	71.00			
Red Hat Panel Mount Solenoids with Spade Terminal Coils Standard. Normally Closed (Closed when de-energized) Brass Body. (Voltage: 120/60)													
1/8	1/8	0	125	0.34	180°F	6/F	PSF8262C002	127.00	302014	71.00			



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8262 and 8266 Series 2-Way Fuel Oil Solenoid Valves

Specifications

Valve Parts in Contact with Fluids: *Body:* Brass; *Seals/ Discs:* Buna-N, Viton, or stainless steel; *Core/Plugnut:* 430F SS; *Springs:* 302 SS; *Shading Coil:* Copper

Solenoid Enclosures: Valves in this series have Red-Hat metal solenoid enclosures or Red-Hat II molded epoxy solenoids. Red-Hat II solenoids are identified by the letter G in their catalog numbers, e.g., 8262G1V.

Standard Enclosures: *Red-Hat:* Type 1 General Purpose; *Red-Hat II:* Types 1-4, 3S, and 4X combination General Purpose, Watertight.

Optional Enclosures: *Red-Hat:* Type 3R Rainproof. To order, add prefix R to catalog number. *Red-Hat:* Types 3, 4, 7, and 9 combination Explosion-proof and Watertight. *Red-Hat II:* Types 3, 3S, 4, 4X, 6, 6P, 7, and 9 combination Explosion-proof and Watertight. To order, add prefix EF to catalog number. Call for price and availability.

Ambient Temperature Ranges: *Series 8262 and 8263:* Suitable for 32° to 125° F. *Series 8266:* Suitable for 32° to 122° F.

Electrical: *Standard Voltage:* 24, 120, 240, 480 volts AC, 60 Hz; Call for DC voltages, price, and availability.

Coil: Continuous duty molded Class F.

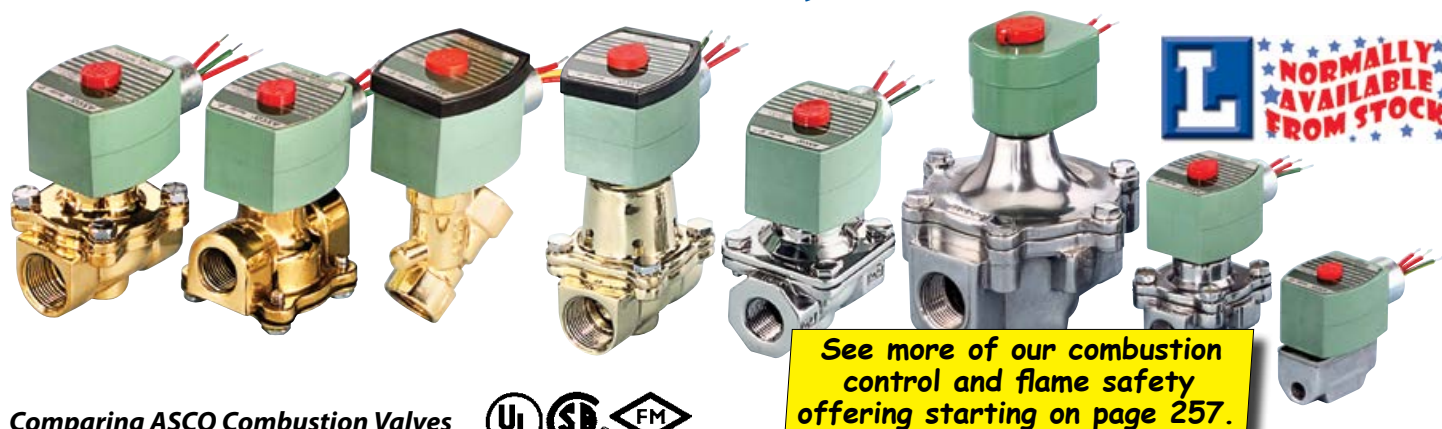
Search www.lesman.com for
ASCO 8262 Go



Model Selection Guide

Pipe Size Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)		Cv Flow Factor	Max. Fluid Temp.	Approvals		Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil		
		#2 Fuel Oil 60SSU	#4 Fuel Oil 300SSU			UL	FM		Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Normally Closed (Closed when de-energized) Brass Body with Viton Seating															
1/8	3/32	0-360	0-300	0.20	180°F	°	°	9.1/F	8262H011V	\$67.00	302014V	\$66.00	🔗 238210-132-D	\$108.00	
1/8	1/8	0-190	0-140	0.34	180°F	°	°	6.1/F	🔗 8262H002V	53.00	302014V	66.00	🔗 238210-032-D	88.00	
1/4	7/32	0-100	0-100	0.85	200°F	°	°	17.1/F	🔗 8262H208V	75.00	🔗 304354V	55.00	🔗 238610-032-D	98.00	
		#2/#4 Light Oil	#5/#6 Heavy Oil												
Normally Closed (Closed when de-energized) (Shutoff) Without Bypass — Brass Body with Viton Seating															
3/8	1/8	0-400	0-350	0.34	250°F	°	°	15.4/F	8266D001V	320.00	304097V	260.00	🔗 099257-001-D	128.00	
3/8	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D023V	320.00	304099V	260.00	🔗 099257-001-D	128.00	
1/2	1/8	0-400	0-350	0.34	250°F	°	°	15.4/F	8266D047V	334.00	304097V	260.00	🔗 099257-001-D	128.00	
1/2	3/16	0-200	0-175	0.68	250°F	°	°	15.4/F	8266D053V	334.00	304098V	269.00	🔗 099257-001-D	128.00	
1/2	3/16	0-300	0-250	0.68	225°F	°	°	20/F	8266D057V	365.00	304098V	269.00	🔗 099257-001-D	128.00	
1/2	13/64	0-170	0-140	0.78	250°F	°	°	15.4/F	8266D061V	334.00	304100V	270.00	🔗 099257-001-D	128.00	
1/2	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D069V	334.00	304099V	260.00	🔗 099257-001-D	128.00	
1/2	5/16	0-70	0-70	1.8	250°F	°	°	15.4/F	8266D077V	334.00	304101V	270.00	🔗 099257-001-D	128.00	
1/2	3/8	0-40	0-35	2.5	250°F	°	°	15.4/F	8266D085V	334.00	304102V	270.00	🔗 099257-001-D	128.00	
Normally Open (Open when de-energized) Without Bypass — Brass Body with Viton Seating															
3/8	1/8	0-425	0-400	0.34	250°F	°	—	15.4/F	8266D101V	404.00	—	—	🔗 099257-001-D	128.00	
3/8	1/4	0-90	0-75	1.2	250°F	°	—	15.4/F	8266D123V	404.00	304106V	328.00	🔗 099257-001-D	128.00	
1/2	3/16	0-160	0-150	0.68	250°F	°	—	15.4/F	8266D153V	405.00	304104V	329.00	🔗 099257-001-D	128.00	
1/2	13/64	0-130	0-125	0.78	250°F	°	—	15.4/F	8266D161V	405.00	304105V	329.00	🔗 099257-001-D	128.00	
1/2	1/4	0-90	0-75	1.2	250°F	°	—	15.4/F	8266D169V	405.00	304106V	328.00	🔗 099257-001-D	128.00	
Normally Closed (Closed when de-energized) (Shutoff) With 1/2" NPT Bypass — Brass Body with Viton Seating															
3/4	3/8	0-75	0-70	2.5	225°F	°	°	20/F	8266C247V	1447.00	304102V	270.00	🔗 099257-001-D	128.00	
Normally Closed (Closed when de-energized) (Shutoff) Without Bypass — Brass Body with Stainless Steel Seating															
3/8	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D023L	325.00	304099L	264.00	🔗 099257-001-D	128.00	
1/2	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D069L	339.00	304099L	264.00	🔗 099257-001-D	128.00	
1/2	5/16	0-70	0-70	1.8	250°F	°	°	15.4/F	8266D077L	339.00	304101L	277.00	🔗 099257-001-D	128.00	
1/2	3/8	0-40	0-35	2.5	250°F	°	°	15.4/F	8266D085L	339.00	304102L	277.00	🔗 099257-001-D	128.00	
Normally Open (Open when de-energized) Without Bypass — Brass Body with Stainless Steel Seating															
1/2	1/4	0-90	0-75	1.2	250°F	°	—	15.4/F	8266D169L	410.00	—	—	🔗 099257-001-D	128.00	

Solenoid Valves for Combustion Systems



Comparing ASCO Combustion Valves



	8030	8040	8210	8214	8215	8262
Valve Parts In Contact with Fluids	Brass body 305 SS core tube NBR seals/disc 430F SS core/plugnut Copper shading coil 302 SS springs	Aluminum body 305 SS core tube NBR seals/disc 430F SS core/plugnut Copper shading coil 302 SS springs Zinc-plated steel pipe plug	Brass body 305 SS core tube NBR seals/disc 430F SS core/plugnut Copper shading coil	Aluminum body 305 SS core tube NBR seals/disc 430F SS core/plugnut Copper shading coil 302 SS springs Zinc-plated steel pipe plug	Aluminum body 305 SS core tube NBR seals/disc/ diaphragm 430F SS core/plugnut 302 SS or 17-7 PH springs Copper shading coil CA core guide 305 SS core tube	Brass body 305 SS core tube NBR seals/disc 430F SS core/plugnut Copper shading coil Inconel 600 springs Acetal core guide PTFE rider ring
Approvals	UL, FM, CSA	UL, CSA, FM (3/8" to 3/4" only)	UL, FM, CSA	UL, FM, CSA	UL, CSA, FM (except 8215A090 and 8215A040)	UL, FM, CSA

Model Selection Guide

120 volts AC/60 Hz — All Valves Shown Here are Normally Closed (Closed when De-Energized), Suitable for Use in Fluids to Maximum Temperatures 125°F

Pipe Size	Orifice Size	Cv Flow Factor	Gas Capacity BTU/Hr	Operating Pressure Differential (PSI)		Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
				Min.	Max.		Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Direct Acting Gas Shutoff Valves												
1/8"	5/16"	1	53,700	0	15	6.1/F	8040H006	\$74.00	318247	\$61.00	238210-032-D	\$88.00
1/4"	5/16"	1.1	59,000	0	15	10.1/F	8040H007	75.00	318247	61.00	238210-032-D	88.00
3/8"	3/8"	1.8	97,000	0	15	10.1/F	8030G068	182.00	306628	136.00	238610-032-D	98.00
1/2"	7/16"	2.8	151,000	0	8	10.1/F	8030G069	185.00	306629	151.00	238610-032-D	98.00
1/2"	3/4"	5.4	291,000	0	2	10.1/F	8040G022	147.00	306633	81.00	238610-032-D	98.00
3/4"	3/4"	9.5	512,000	0	2	10.1/F	8040G023	148.00	306633	81.00	238610-032-D	98.00
1"	1-5/8"	16.8	900,000	0	0.5	15.4/F	8040C004	182.00	304079	135.00	099257-001-D	128.00
Pilot Operated Gas Shutoff Valves												
3/8"	5/8"	2.8	150,000	0	50	10.1/F	8210G074	194.00	304076	157.00	238610-032-D	98.00
3/8"	3/4"	3.4	183,000	0	50	10.1/F	8215G010	157.00	302350	129.00	238610-032-D	98.00
1/2"	5/8"	3.6	193,000	0	50	10.1/F	8210G075	194.00	304076	157.00	238610-032-D	98.00
1/2"	3/4"	4.4	238,500	0	50	10.1/F	8215G020	157.00	302350	129.00	238610-032-D	98.00
3/4"	5/8"	5.0	295,000	0	50	10.1/F	8210G076	215.00	304076	157.00	238610-032-D	98.00
3/4"	3/4"	5.1	247,500	0	50	10.1/F	8215G030	163.00	302350	129.00	238610-032-D	98.00
3/4"	1-5/8"	11	580,000	0	50	15.4/F	8215 135	305.00	302352	239.00	099257-001-D	128.00
1"	1-5/8"	21	1,119,000	0	25	15.4/F	8215B050	294.00	302352	239.00	099257-001-D	128.00
1-1/4"	1-5/8"	32	1,730,000	0	25	15.4/F	8215B060	294.00	302352	239.00	099257-001-D	128.00
1-1/2"	1-5/8"	35	1,900,000	0	25	15.4/F	8215B070	340.00	302352	239.00	099257-001-D	128.00
2"	2-3/32"	60	3,251,000	0	25	15.4/F	8215B080	501.00	302353	305.00	099257-001-D	128.00
2-1/2"	3"	117	5,821,000	0	5	28.2/F	8215A090	760.00	302354	470.00	206409-011-D	318.00
3"	3"	138	7,430,000	0	5	28.2/F	8215A040	975.00	302354	470.00	206409-011-D	318.00
Gas Shutoff Valves with Waterproof Enclosures												
3/8"	3/4"	3.4	183,000	0	5	17.1/F	8214G010	154.00	316233	126.00	238610-132-D	121.00
1/2"	3/4"	4.4	238,500	0	5	17.1/F	8214G020	154.00	316233	126.00	238610-132-D	121.00
3/4"	3/4"	5.1	247,500	0	5	17.1/F	8214G030	158.00	316233	126.00	238610-132-D	121.00

Looking for another ASCO solenoid valve? Call Lesman's solenoid valve specialists at 800-837-1700. We stock deep!



8214 Series 2-Way Gas Shutoff Valves

Features

- Unique double disc design with overtravel provides redundant sealing for leak tight shutoff
- FM approved as safety shutoff valve with visual indicator and proof-of-closure switch options (Suffix "VI" & "C")
- Zero differential piloted diaphragm
- For on-off control of fuel gas in commercial and industrial gas burners
- Valves provided with 1/8" NPT upstream and downstream pipe taps with plugs for routine testing
- Optional flange adapters for ease of installation and service
- Modular design for flexibility to configure double solenoid gas train with a small footprint
- Low ambient operating temperature range — valves can be installed in frigid environments as low as -40° C/F

Specifications

Construction: Body: Aluminum; Seals and disc: NBR; Core tube: 305 stainless steel; Core guide: Acetal; Rider ring: PTFE; Core and plugnut: 430F SS; Springs: 302 SS; Shading coil: Copper; Pipe plug: Zinc-plated steel

Standard Voltages: 24, 120, 240 VAC, 60 Hz (or 110, 200 VAC, 50 Hz); 12, 24 VDC; Visual indicator and Proof-of-Closure switch only available on AC constructions

General Purpose Solenoid Enclosures: RedHat metal Type 1; General Purpose housing has a 7/8" diameter hole to accept standard conduit hubs or connectors. Add prefix JB to catalog number for a Junction Box construction with two 7/8" diameter knockouts. (i.e. JB8214 265)



FM approved as safety shutoff valve when ordered with optional visual indication or proof-of-closure switch.

Watertight Solenoid Enclosures: RedHat II molded epoxy Type 1, 2, 3, 3S, 4 and 4X combination. General Purpose and Watertight solenoid enclosures with 1/2" conduit hub as standard. Add prefix JKP to Watertight catalog number for a Watertight Junction Box. (i.e. JKP8214G266)

Valve Response Time: Opening Time: <1 second; Closing Time: <1 second

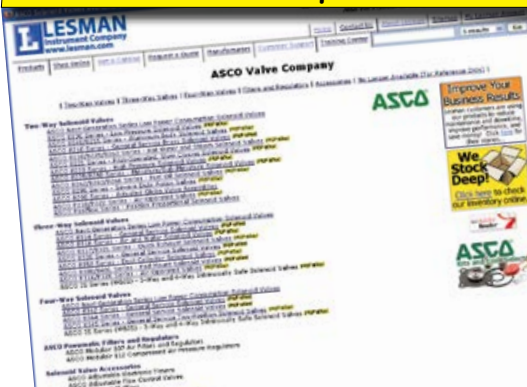
Approvals: UL Listed: Standard 429 "Electrically Operated Valves," Guide YIOZ, File MP618 Safety Shutoff Valves. FM Approved: Class 7400 "liquid and gas safety shutoff valves" when ordered with C, VI options. CSA Certified: Standard C22.2 No. 139 "Electrically Operated Valves," File 010381. Automatic Gas Valves Z21.21 (6.5), C/I, File 112872. 3) Automatic Gas Safety Shutoff Valves (3.9), File 112872.

Model Selection Guide

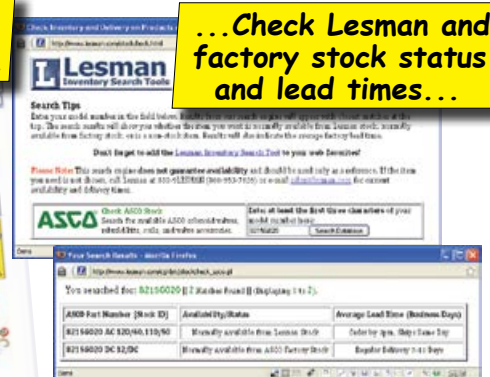
120 volts AC/60 Hz — All Valves Shown Here are Normally Closed (Closed when De-Energized), Suitable for Use in Fluids to Maximum Temperatures 125°F

Pipe Size	Orifice Size	Cv Flow Factor	Gas Capacity BTU/Hr	Operating Pressure Differential (PSI)		Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil		
				Min.	Max.		Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each	
Two-Way, Normally Closed General Purpose Gas Valves (UL, CSA Approved as Safety Shutoff Valves)													
1 1/4"	2 3/32"	36	1,925,000	0	5	20/F	8214 265	\$341.00	323499	Call	 099257-005-D	\$170.00	
1 1/2"	2 3/32"	45	2,406,000	0	5	20/F	8214 275	448.00	323499	Call	 099257-005-D	170.00	
2	2/32"	55	2,940,500	0	5	20/F	8214 280	532.00	323499	Call	 099257-005-D	170.00	
Two-Way, Normally Closed Watertight Gas Valves (UL, CSA Approved as Safety Shutoff Valves). Only available in AC voltages.													
1 1/4"	2 3/32"	36	1,925,000	0	5	20/F	8214G266	334.00	323538	Call	272610-132-D	127.00	
1 1/2"	2 3/32"	45	2,406,000	0	5	20/F	8214G276	439.00	323538	Call	272610-132-D	127.00	
2	2/32"	55	2,940,500	0	5	20/F	8214G281	521.00	323538	Call	272610-132-D	127.00	
Options and Accessories (For AC voltages only)			Visual indication of open and shut position (Add for FM-Approved safety shutoff valve)									Suffix VI	
			1 Amp proof of closure switch (Add for FM-Approved safety shutoff valve)									Suffix C	
													106.00
													413.00

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General Service 3-Way Solenoid Valves 8314 Series



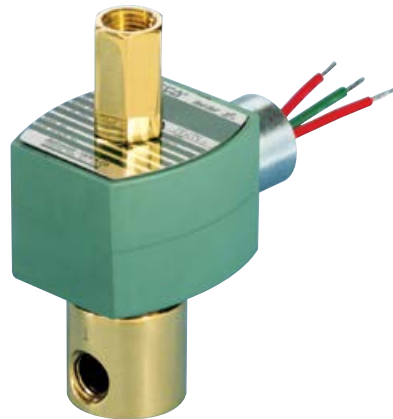
Specifications

Nominal Ambient Temperature: AC Units: 32° to 125° F. DC Units: 32° to 104° F.

Valve Parts in Contact with Fluids: Body: Brass or 303 S.S.; Seals and Discs: Buna-N and Nylon; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Core Springs: 302 S.S. and 17-7PH S.S.; Shading Coil: Copper (brass body); Silver (stainless steel body); Core Guide: Acetal (all AC valves and 1/8" orifice N/O DC valves)

Solenoid Enclosures: Valves in this series have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8314G41.

Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight.



Optional Enclosures: Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call Lesman for price and availability.

Additional constructions are available. Call for optional open frame solenoids, junction box enclosures, or panel mount constructions.

Electrical: Standard Voltage: 120VAC, 60 Hz; Other voltages available: 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call Lesman for price and availability.

Coil: Continuous duty molded Class F. Coils shown: 120VAC, 60Hz.

Approvals: CSA certified. All are UL listed general purpose valves.

Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets are included, to simplify installation. Replacement coils must be ordered separately.

Search www.lesman.com for

Asco 8314

Go

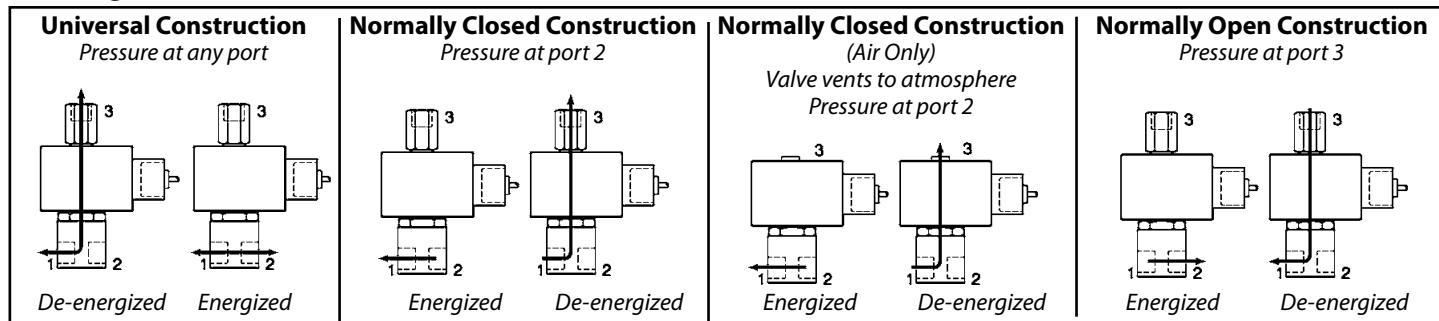


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Look for the **Block L** and **5 Circle** to see how fast we can deliver the ASCO solenoid valves in this catalog.

Block L=In Stock items can ship within 24 hours. **5 Circle** items can ship to you within 5 working days. Or, call Lesman Inside Sales for faster delivery!

Flow Diagrams



Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Maximum Operating Pressure (PSI)			Cv Flow Factor	Max. Fluid Temp.	Watt Rating Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/ Inert Gas	Water	Light Oil 45SSU				Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Universal Operation – Apply pressure at any port													
1/8	3/64	160	160	160	0.04	200°F	10.1/F	8314H041	\$135.00	314476	\$111.00	L 238610-032-D	\$98.00
1/4	3/64	160	160	160	0.04	200°F	10.1/F	S 8314H006	132.00	314476	111.00	L 238610-032-D	98.00
1/4	3/32	80	40	40	0.15	200°F	10.1/F	S 8314H007	135.00	314456	126.00	L 238610-032-D	98.00
1/4	1/8	45	25	25	0.25	200°F	10.1/F	L 8314H008	147.00	314477	143.00	L 238610-032-D	98.00
Normally Closed (Closed when de-energized)													
1/4	1/8	75	60	60	0.25	200°F	10.1/F	L 8314H036	147.00	314480	126.00	L 238610-032-D	98.00
Normally Closed (Closed when de-energized) – Air only, Exhaust to atmosphere													
1/4	3/32	150	—	—	0.15	200°F	10.1/F	8314G023	133.00	302870	108.00	L 238610-032-D	98.00

8320 Series General Service 3-Way Solenoid Valves

Specifications

Nominal Ambient Temperature Ranges: AC Construction: 32° to 125° F;
DC Construction: 32° to 104° F.

Valve Parts in Contact with Fluids: Body: Brass or 303 S.S.; Seals and Discs:
Buna-N or Cast Urethane; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.;
Core Springs: 302 S.S.; Shading Coil: Copper (brass body); Silver (stainless
steel body); Disc Holder: Acetal; Core Guide: Acetal (10.1 and 17.1 watt only)

Coil: Continuous duty molded Class F; Coils shown: 120VAC, 60Hz.

Electrical: Standard Voltage: 120 VAC, 60 Hz; Other voltages available: 24,
240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call
Lesman for price and availability.

Solenoid Enclosures: Valves in this series have Red-Hat II molded epoxy
solenoids and are identified by the letter G in their catalog numbers, e.g.,
8320G130.

Standard Enclosures: Red-Hat II: Types 1–4, 3S and 4X Combination General
Purpose and Watertight

Optional Enclosures: Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination
Explosion-proof and Watertight. To order, add prefix EF to catalog number
and call for price and availability.

Additional constructions are available. For optional open frame solenoids,
junction box enclosures, panel mount constructions, call Lesman.

Approvals: CSA certified. UL listed General Purpose Valves.



**Look for the Block L and 5 Circle to see
how fast Lesman can deliver!**

Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets are included. Replacement coils must be ordered separately.

Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Maximum Operating Pressure (PSI)			Cv Flow Factor	Max. Fluid Temp.	Watt Rating Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/Inert Gas	Water	Light Oil 45SSU				Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Universal Operation – Apply pressure at any port													
1/8	3/64	175	175	175	0.06	140°F	9.1/F	8320G130	\$109.00	302084	\$83.00	238210-132-D	\$108.00
1/8	1/16	100	100	100	0.09	180°F	9.1/F	8320G001	99.00	302088	59.00	238210-132-D	108.00
1/8	3/32	50	50	50	0.12	180°F	6.1/F	8320G083	93.00	302092	59.00	238210-032-D	88.00
1/8	1/8	30	30	30	0.21	180°F	9.1/F	8320G003	102.00	302096	83.00	238210-132-D	108.00
1/4	1/16	125	130	130	0.09	200°F	10.1/F	8320G172	125.00	302114	98.00	238610-032-D	98.00
1/4	3/32	100	100	100	0.12	200°F	17.1/F	8320G174	125.00	302116	98.00	238610-132-D	121.00
1/4	1/8	50	50	50	0.25	200°F	17.1/F	8320G176	121.00	302116	98.00	238610-132-D	121.00
1/4	11/64	20	20	20	0.35	200°F	10.1/F	8320G178	130.00	302118	105.00	238610-032-D	98.00
Normally Closed (Closed when de-energized)													
1/8	3/64	200	200	200	0.06	180°F	6.1/F	8320G132	102.00	302120	66.00	238210-032-D	88.00
1/8	1/16	150	125	125	0.09	180°F	6.1/F	8320G013	89.00	302120	66.00	238210-032-D	88.00
1/8	3/32	100	100	100	0.12	180°F	6.1/F	8320G015	90.00	302120	66.00	238210-032-D	88.00
1/8	1/8	40	40	40	0.21	180°F	6.1/F	8320G017	102.00	302128	83.00	238210-032-D	88.00
1/4	1/16	210	225	225	0.09	200°F	17.1/F	8320G182	155.00	302141	96.00	238610-132-D	121.00
1/4	3/32	150	150	150	0.12	200°F	10.1/F	8320G184	125.00	302142	96.00	238610-032-D	98.00
1/4	1/8	75	85	85	0.25	200°F	10.1/F	8320G186	130.00	302143	105.00	238610-032-D	98.00
1/4	11/64	45	45	45	0.35	200°F	10.1/F	8320G188	130.00	302144	105.00	238610-032-D	98.00
Normally Open (Open when de-energized)													
1/8	3/64	200	200	200	0.06	180°F	6.1/F	8320G136	93.00	302156	66.00	238210-032-D	88.00
1/8	3/32	100	100	100	0.12	180°F	6.1/F	8320G029	93.00	302156	66.00	238210-032-D	88.00
1/4	1/16	235	250	250	0.09	200°F	17.1/F	8320G192	155.00	302183	99.00	238610-132-D	121.00
1/4	3/32	150	140	140	0.12	200°F	10.1/F	8320G194	125.00	302184	99.00	238610-032-D	98.00
1/4	11/64	40	40	40	0.35	200°F	10.1/F	8320G198	130.00	302185	105.00	238610-032-D	98.00
Normally Closed (Closed when de-energized). NAMUR interface for mounting directly to spring return actuators													
1/4	1/16	150	–	–	0.09	180°F	6.1/F	8320G701	92.00	318814	75.00	238210-032-D	88.00
1/4	1/16	210	–	–	0.09	200°F	17.1/F	8320G703	131.00	318816	106.00	238610-132-D	121.00
1/4	3/32	100	–	–	0.12	180°F	6.1/F	8320G702	92.00	318814	75.00	238210-032-D	88.00
1/4	3/32	150	–	–	0.12	200°F	10.1/F	8320G704	128.00	318818	103.00	238610-032-D	98.00
1/4	3/8	100	–	–	0.21	200°F	17.1F	8320G705	131.00	318816	106.00	238610-132-D	121.00

Valves also available in stainless steel.

Air and Water 3-Way Solenoid Valves 8316 Series

Specifications

Nominal Ambient Temperature Ranges: AC Units: 32° to 125° F; DC Units: 32° to 104° F.

Valve Parts in Contact with Fluids: Body: Brass; Seals and Discs: Buna-N; Diaphragm Assembly: Buna-N with Brass and Stainless Steel trim; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Core Springs: 302 S.S. and 17-7PH S.S.; Shading Coil: Copper; Pilot Seat Cartridge/Disc Holder: Acetal

Electrical: Standard Voltage: 120 VAC, 60 Hz; Other voltages available: 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call Lesman for price and availability.

Coil: Continuous duty molded Class F

Solenoid Enclosures: Valves in this series have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8316G54.

Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight

Optional Enclosures: Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call for price and availability. Additional constructions are available. For optional open frame solenoids, junction box enclosures, panel mount constructions, call Lesman.

Approvals: CSA certified.

Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets included. Replacement coils must be ordered separately.

Important: A minimum operating pressure differential must be maintained between pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and similar components must be installed in cylinder lines only



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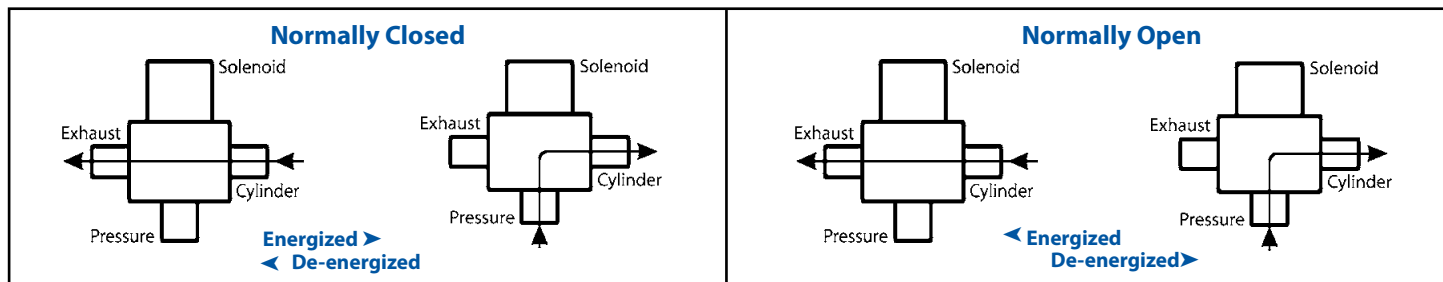
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Flow Diagrams



Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

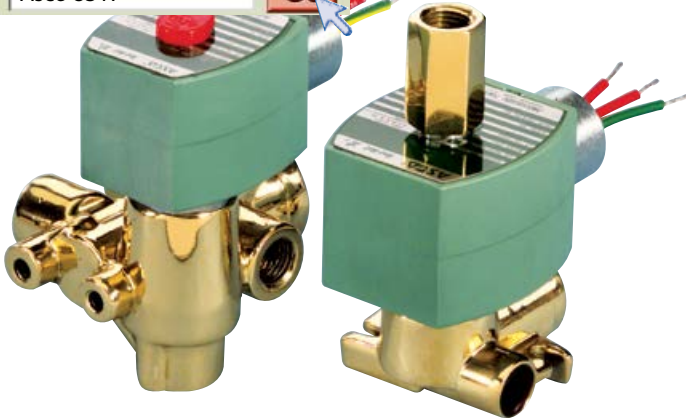
Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)			Cv Flow Factor	Max. Fluid Temp.	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Min. Press. Req'd.	Maximum					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
			Air/ Inert Gas	Water									
Normally Closed (Closed when de-energized)													
3/8	5/8	10	150	125	3	180°F	6.1/F	 8316G054	\$356.00	314491	\$287.00	 238210-032-D	\$88.00
3/8	5/8	10	250	250	3	180°F	17.1/F	 8316G014	381.00	 314495	277.00	 238610-132-D	121.00
1/2	5/8	10	150	125	4	180°F	6.1/F	 8316G064	362.00	314491	287.00	 238210-032-D	88.00
1/2	5/8	10	250	250	4	180°F	17.1/F	 8316G024	418.00	 314495	277.00	 238610-132-D	121.00
3/4	11/16	10	150	125	5.5	180°F	6.1/F	 8316G074	587.00	314491	287.00	 238610-032-D	98.00
3/4	11/16	10	250	250	5.5	180°F	17.1/F	 8316G044	614.00	 314495	277.00	 238610-132-D	121.00
1	1	10	150	125	13	180°F	6.1/F	 8316G034	758.00	 302661	258.00	 238210-032-D	88.00
Normally Open (Open when de-energized)													
3/8	5/8	10	150	125	3	180°F	6.1/F	 8316G056	357.00	 314492	232.00	 238210-032-D	88.00
3/8	5/8	10	250	250	3	180°F	17.1/F	 8316G016	378.00	 314496	271.00	 238610-132-D	121.00
1/2	5/8	10	150	125	4	180°F	6.1/F	 8316G066	359.00	 314492	232.00	 238210-032-D	88.00
1/2	5/8	10	250	250	4	180°F	17.1/F	 8316G026	417.00	 314496	271.00	 238610-132-D	121.00
3/4	11/16	10	150	125	5.5	180°F	6.1/F	 8316G076	587.00	 314492	232.00	 238210-032-D	88.00

8317/8321 Series Quick Exhaust 3-Way Solenoid Valves

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Asco 8317

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Specifications

Nominal Ambient Temperature Ranges: AC Construction: 32° to 125° F; DC Construction: 32° to 104° F.

Valve Parts in Contact with Fluids: Body: Brass or 304 S.S.; Seals and Discs: Buna-N; Nylon upper disc for 8317; Diaphragm: Neoprene for 8317; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Core Springs: 302 S.S. and 17-7PH S.S.; Shading Coil: Copper (brass body); Silver (stainless steel body); Pilot Seat Cartridge/Disc Holder: Acetal for 8321; Piston: 303 S.S. for 8321

Electrical: Standard Voltage: 120 VAC, 60 Hz; Other voltages available: 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call Lesman for price and availability.

Solenoid Enclosures: These valves have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8317G7.

Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight

Optional Enclosures: Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number and call for price and availability.

Additional constructions are available. Call for optional open frame solenoids, junction box enclosures, and panel mount constructions.

Coil: Continuous duty molded Class F; Coils shown: 120VAC/60Hz.

Approvals: CSA certified. UL listed General Purpose Valves.

Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets included. Replacement coils must be ordered separately.

Important for 8321 Series: A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and other similar components must be installed in the cylinder lines only.

Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(8317 Series Also Available in Stainless Steel. Please Call.)

Pipe Size Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)			Cv Flow Factor		Max. Fluid Temp. °F	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/Inert Gas	Water	Lt. Oil 45SSU					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
		Universal Operation – Pressure applied at ports 2 or 3												
1/4	3/32	5–80	5–50	5–50	0.20	0.73	180	10.1/F	8317G007	\$193.00	314462	\$152.00	T 238610-032-D	\$98.00
Normally Closed (Closed when de-energized)														
1/4	3/32	5–150	5–150	5–95	0.20	0.73	180	10.1/F	T 8317G035	193.00	S 314463	105.00	T 238610-032-D	98.00
1/4	9/32	10–200	10–200	10–200	0.80	1.2	180	6.1/F	8321G001	350.00	S 302925	188.00	T 238210-032-D	88.00
3/8	9/32	10–200	10–200	10–200	0.80	1.2	180	6.1/F	S 8321G002	350.00	S 302925	188.00	T 238210-032-D	88.00
Normally Closed (Closed when de-energized) – Air only, Exhaust to atmosphere														
1/4	3/32	5–150	—	—	0.20	0.73	—	10.1/F	T 8317G023	188.00	S 302902	97.00	T 238610-032-D	98.00
Normally Open (Open when de-energized)														
1/4	3/32	5–160	5–160	5–95	0.15	0.73	180	10.1/F	8317G053	193.00	S 314464	133.00	T 238610-032-D	98.00
3/4	9/32	10–200	10–200	10–200	0.80	1.2	180	6.1/F	S 8321G003	350.00	S 302927	227.00	T 238210-032-D	88.00
3/8	9/32	10–200	10–200	10–200	0.80	1.2	180	6.1/F	S 8321G004	350.00	S 302927	227.00	T 238210-032-D	88.00

If you place your order after 12 noon and need it next day, have it marked **RUSH** for priority shipment. Any emergency order placed after 3:30 p.m. must be shipped Federal Express.

Direct-Mount Inline Spool Valves 8551 Series

Features

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

Specifications

Construction: Body: Black anodized aluminum; Spring: Phosphate-treated black steel; Shading coil: Copper; Seals: NBR + PUR; Core/Core tube: Stainless Steel, Brass; End covers/Plate: 6/6 glass-filled PA/FV; Spool: Aluminum; Internal parts: Zamak, Steel, CA

Solenoid Enclosures: Standard (SC): IP65 type DIN (open frame) per 46244; Combination General Purpose and Watertight (WT): Types 1, 2, 3, 3S, 4, and 4X; Combination Explosion-proof and Watertight (EF): 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)

Standard Voltages: SC: 24, 120, 240 VAC, 50-60 Hz; 12, 24, 120 VDC. WT and EF: 24/50-60HZ, (120/60, 110-120/50), (240/60, 220-240/50) VAC; 6, 12, 24, 120 VDC.



Nominal Ambient Temperature: SC: AC/DC: 5° to 140°F (-15° to 60°C); WT/EF: AC: 5° to 140°F (-15° to 60°C) DC: 5° to 77°F (-15° to 25°C); **Note:** For temperatures below 32°F (0°C) moisture-free air must be used.

Approvals: SC: (2.5W and 3W only) UL recognized component, CSA certified. WT: UL recognized component, CSA certified. EF: UL and CSA solenoid approval. Meets applicable CE directives.

Model Selection Guide

Anodized aluminum body, NAMUR mount – 120 volts AC / 60 Hz

Pipe Size	Orifice Size	Cv Flow Factor	Operating Pressure Differential (PSI)		Watt Rating/ Class of Coil Insulation	Solenoid Enclosure Style	Solenoid Valve		Replacement Coil	
			Min.	Max.			Catalog Number	Price Each	Catalog Number	Price Each
Direct mount inline spool valve, single solenoid										
1/4"	1/4"	0.86	30	150	2.5	Open frame, DIN coil	 SC8551A001MS	\$125.00	 400127-088-*	\$45.00
1/4"	1/4"	0.86	30	150	6.3	Watertight	 WT8551A001MS	170.00	 266763-902-D	108.00
1/4"	1/4"	0.86	30	150	6.3	Explosion-proof and watertight	 EF8551A001MS	190.00	 266762-902-D	160.00

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Pad-Mounted Pilot Valves 8380/8401 Series

Specifications

Solenoid Enclosures: Valves listed in this series have molded Ryton solenoids with a 1/2" male conduit connection.

Standard Enclosures: Those beginning with prefix WT are types 1-4, 3S, and 4X Combination General Purpose and Watertight.

Optional Enclosures: For types 3, 3S, 4, 4X, 6, 6P, 7, and 9 Combination Explosion-Proof and Watertight, order catalog numbers with prefix EF. For molded epoxy DIN coil per ISO 440/DIN 43650, that meets IP65 requirements, call Lesman for price and availability.

Electrical: *Standard Voltage:* 120 VAC, 60 Hz (or 110, 220 VAC, 50 Hz). For other voltages, such as 24 or 240 VAC, 60 Hz, or 6, 12, 24, 120, 240 VDC, call Lesman for price and availability.

Nominal Ambient Temperature Ranges: *AC Construction:* 0° to 135° F; *DC Construction:* 0° to 104° F. **Note:** For temperatures below 32° F, moisture-free air must be used.

Coil: Watertight/Explosion-Proof solenoids constructed of Class H materials. DIN coils and open-frame leaded coils are continuous duty Class F.

Valve Parts in Contact with Fluids: *Core Tube:* 305 S.S.; *Core and Plugnut:* 430F S.S.; *Spring:* 302 S.S.; *Seals:* Low friction, low wear Buna-N; *Interface Plate:* Molded Zytel Nylon; **3-Way Valves Only** *Main Body:* Molded Zytel Nylon; **4-Way Valves Only:** *Pressure Port:* 303 S.S.; *Main and Pilot Bodies, Metering End Caps:* Molded Zytel Nylon; *Spool and Slide:* Molded Delrin; *Flow Plate:* Ceramic (alumina)

Standard Features: **4-Way Valves Only** Built-in linear flow device controls Cv from 0.10 to 0.50. 3-way/4-way selector gasket to provide Breather Block capability (protection from corrosive air).

Approvals: WT is a UL recognized component general purpose valve, CSA certified. EF is a UL listed solenoid, CSA certified. U and SC options are UL recognized components, CSA certified.



Model Selection Guide

Pipe Size (In.)	Orifice Size (In.)	Main Line Supply Pressure (Air/Inert Gas)	Cv Flow Factor	Catalog Number	Price Each
For Worcester 390 Actuators: Standard Solenoid, Combination General Purpose and Watertight, 3- and 4-Way Single Solenoid					
1/4	1/4	20-150 PSIG	0.50	WT8401B200M	\$584.00
For Keystone and Nelles-Jamesbury* Actuators: Standard Solenoid, Combination General Purpose and Watertight, 3-Way Normally Closed					
1/4	3/64	0-150 PSIG	0.05	WT8380B202	Call
For Keystone and Nelles-Jamesbury* Actuators: Standard 3- and 4-Way Single Solenoid, Combination General Purpose and Watertight					
1/4	1/4	20-150 PSIG	0.50	WT8401B202M	\$535.00
For Keystone and Nelles-Jamesbury* Actuators: Explosion-Proof Solenoid, 3- and 4-Way Single Solenoid					
1/4	1/4	20-150 PSIG	0.50	EF8401B202M	\$554.00

* Kit 266666-001 (\$#VALUE! each) required for use with Nelles-Jamesbury SP and SP-SR actuators

Also available For Bettis and Watts Actuators

IS Series Intrinsically Safe Solenoid Valves

Specifications

Media: Clean dry air or inert gas (filtered to 50µm or better, dewpoint 18° below min. exposure temperature)

Enclosure: Red Hat Type 4; *Standard:* Type 4 Watertight Splice Box; *Optional:* 316 SS. Type 4 Watertight Splice Box. (Specify prefix WS.)

Valve Parts in Contact with Fluid: *Body:* Brass or Stainless Steel; *Seals and Discs:* Buna-N or Neoprene; *Core Tube:* 304L SS; *Core and Plugnut:* 430F SS; *Core Springs:* 302 SS; *Rider Rings:* Teflon; *Spring Retainer:* Celcon; *Pilot Seat Cartridge:* (Series 8316 and 8344 only) Acetal

Temperature: *Nominal Ambient Range:* -4° to 140°F; *Series 8314 Only:* -40° to 140°F; *Nominal Rise:* 4°F (@ 24VDC, 300Ω); *Fluid/Ambient Temperature:* 140°F max.

Voltage: *Standard:* 24V, DC only; *Operating:* 24VDC ±10%

Current: *Operating:* 0.028 amps min., (V-2.4)/(R_B+R_L+150) max.; *Charging:* (V-1.8)/(R_B+R_L+52) max.; where V=supply voltage, R_B=barrier or current limiting resistance, and R_L=line resistance (wiring); *Allowable Leakage:* 1 mA max.; *Drop to Reset Electronic Coil:* 2 mA minimum.

Operating Parameters (@86°F)	21.5V	24.0V	26.5V
Maximum Series Resistance	510Ω	610Ω	690Ω
Maximum Holding Current, with 300Ω Barrier	43	48	54
Nominal Coil Watts, with 300Ω Barrier	0.38	0.46	0.57

Important: Minimum series resistance of 200Ω required in wiring circuit if a safety barrier is not used.

Coil: Continuous duty molded Class A.

Capacitor Charge Time: 1 second maximum.

Time Between Cycles: 1 second minimum.

Recommended Wire (#18) Length: 1.5 miles maximum.

Approvals: FM approved under J.I.3W8A8.AX (3610), [NFPA 493]; FM Nonincendive for Class I, Div. 2. CSA certified (LR-13976-116C).

Entity Parameters: **Groups A-D:** V max.: 30 VDC; I max.: 100 mA; Capacitance/Inductance: 0; **Groups C-D:** V max.: 34 VDC; I max.: 125 mA; Capacitance/Inductance: 0.



Model Selection Guide

Body Material	Size (In.)		Op. Pressure Differential	Cv Flow Factor (a)	Catalog Number	Price
	Pipe	Orifice				
3-Way Intrinsically Safe Single Solenoid Valve — Universal Operation (Pressure at any port), with Buna-N Disc						
Brass	1/4	1/16	0–150 PSI	0.08	JPIS8314B300	\$498.00
Stainless	1/4	1/16	0–150 PSI	0.08	JPIS8314B301	535.00
3-Way Intrinsically Safe Single Solenoid Valve — Universal (N/O or N/C), “Quick Exhaust” with Neoprene Diaphragm and Buna-N Disc						
Brass	1/4	**	10–150 PSI	3	JPIS8317B307*	549.00
Stainless	1/4	**	10–150 PSI	3	JPIS8317B308*	696.00
3-Way Intrinsically Safe Single Solenoid Valve — Normally Closed (Closed when de-energized), with Buna-N Diaphragm						
Brass	1/4	5/16	0–150 PSI	1.5	JPIS8316B301	858.00
Brass	3/8	5/16	0–150 PSI	1.8	JPIS8316B302	858.00
Brass	1/2	5/8	10–150 PSI	4	JPIS8316B304	937.00
4-Way Intrinsically Safe Single Solenoid Valve — Brass Body with Buna-N Disc						
Brass	1/4	1/4	10–150 PSI	0.80 (1)	JPIS8344B370*	996.00
Brass	3/8	3/8	10–150 PSI	1.4 (2.2)	JPIS8344B372*	1167.00
Brass	1/2	3/8	10–150 PSI	1.4 (2.2)	JPIS8344B374*	1030.00

a Pressure to Cylinder (Cylinder to Exhaust)

* There are two exhaust flows in the exhaust mode (pilot and main).

** For Quick Exhaust valves, pressure port is 1/16" and exhaust port is 1/4". Pilot exhaust must be connected to the main exhaust when the air or inert gas cannot be exhausted to atmosphere.



General Service 4-Way Solenoid Valves 8342 and 8344 Series

Specifications

Series 8342 Valve Parts in Contact with Fluids:

Body: Brass or 304 S.S.; Seals and Discs: Buna-N, Viton*; Core Tube: 305 S.S.; Core/Plugnut: 430F S.S.; Springs: 302 S.S.; Shading Coil: Copper (brass body); Silver (stainless steel body); Sleeve: Nylon; Seats: Rulon**

Series 8344 Valve Parts in Contact with Fluids:

Body: Brass; Seals and Discs: Buna-N; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Springs: 302 S.S. and 17-7PH S.S.; Shading Coil: Copper; Pilot Seat Cartridge/Disc Holder: Acetal; Shift Gasket: Lead/Copper

Electrical: Standard Voltage: 120 VAC, 60 Hz; Other voltages: 24, 240, 480 VAC, 60 Hz (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call Lesman for price and availability.

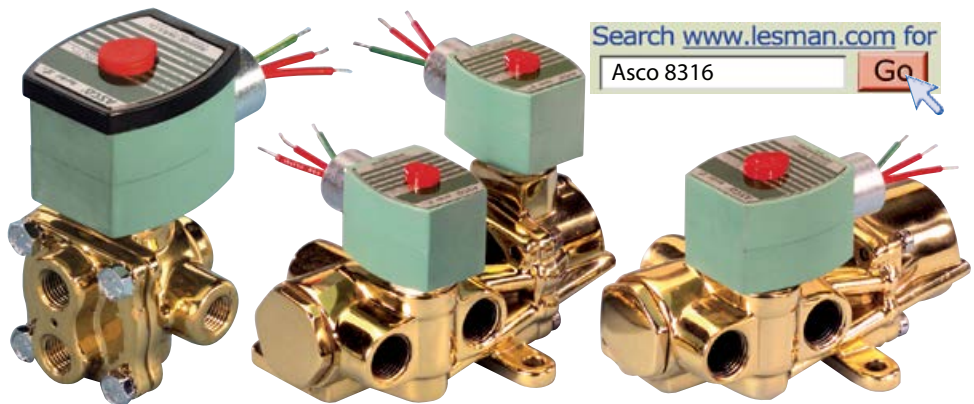
Solenoid Enclosures: 8342 Series valves have Red-Hat metal solenoid enclosures. Series 8344 valves have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8344G70.

Standard Enclosures: Red-Hat: Type 1 General Purpose; Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight.

Optional Enclosures: Red-Hat: Types 3, 7 and 9 combination Explosion-proof and Watertight. Red-Hat II: Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add prefix EF to catalog number. Call Lesman for price and availability.

Additional constructions are available. Call for optional open frame solenoids, junction box enclosures, panel mount constructions.

Dual Solenoid Operation: 8342: Solenoid may be energized momentarily (1/10 second) or energized continuously. 8344: Minimum coil on-time for dual solenoid valves is 0.3 second on air service and 1.0 second on liquids. **Caution:** Do not energize both solenoids simultaneously.



Coil: Continuous duty molded Class F. Coils shown: 120VAC/60Hz

Optional: Adjustable flow controls regulate speed of the cylinder pistons in either direction. Flow adjustment of both Cylinder A and B ports is independently controlled.

Nominal Ambient Temperature Ranges: AC Construction: 32° to 125° F; DC Construction: 32° to 104° F.

Approvals: 8342: CSA certified. UL listed General Purpose Valve. 8344: CSA certified.



Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets included. Replacement coils must be ordered separately.

Series 8344 Warning: A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and other similar components must be installed in the cylinder lines only.

Model Selection Guide

Pipe Size (In.)	Orifice Size (In.)	Maximum Operating Pressure (PSI)			Cv Flow Factor	Max. Fluid Temp. °F	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/ Inert Gas	Water	Light Oil 300SSU				Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
8342 Series: Single Solenoid Construction – Energize coil to change state; Brass body 120VAC/60Hz													
1/4	3/16	125	100	100	0.70	160	20/F	 8342G001	\$300.00	 306191	\$229.00	 272610-132-D	\$127.00
3/8	3/16	125	200	100	0.70	160	20/F	 8342G003	309.00	 306191	229.00	 272610-132-D	127.00
8342 Series: Dual Solenoid Construction – Pulse one coil or the other to change state; Brass body 120VAC/60Hz													
1/4	3/16	125	125	125	0.70	160	15.4/F	 8342G020	493.00	 306193	320.00	 099257-001-D	128.00
3/8	3/16	125	125	125	0.70	160	15.4/F	 8342G022	606.00	 306193	320.00	 099257-001-D	128.00

Model Selection Guide

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)			Cv Flow Factor		Max. Fluid Temp. °F	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Air/Inert Gas	Water	Light Oil 300SSU					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
		8344 Series: Single Solenoid Construction; Brass body 120VAC/60Hz												
1/4	1/4	10–150	10–125	25–125	0.80	1.0	180	10.1/F	 8344G070	\$546.00	 302709	\$275.00	 238610-032-D	\$98.00
1/4	1/4	10–250 	10–250 	25–250 	0.80	1.0	180	17.1/F	 8344G000	570.00	 302710	333.00	 238610-132-D	121.00
3/8	3/8	10–150	10–125	25–125	1.4	2.2	180	10.1/F	 8344G072	687.00	 302711	266.00	 238610-032-D	98.00
3/8	1/4	10–250 	10–250 	25–250 	0.80	1.0	180	17.1/F	 8344G001	570.00	 302710	333.00	 238610-132-D	121.00
1/2	3/8	10–150	10–125	25–125	1.4	2.2	180	10.1/F	 8344G074	687.00	 302711	266.00	 238610-032-D	98.00
1/2	3/8	10–250	10–250	25–250	1.4	2.2	180	17.1/F	8344G027	755.00	 302712	416.00	 238610-132-D	121.00
3/4	3/4	10–150	10–125	25–125	5.2	5.6	180	10.1/F	8344G076	1671.00	 302713	321.00	 238610-032-D	98.00

1 For best results, do not use valve rated 250 PSI on pressures less than 125 PSI.

8345 Series General Service 4-Way 2-Position Solenoid Valves

Specifications

Solenoid Enclosures: Valves in this series have Red-Hat II molded epoxy solenoids, identified by the letter G in their catalog numbers, e.g., 8345G1.

Standard Enclosures: *Red-Hat II:* Types 1–4, 3S, and 4X Combination General Purpose and Watertight

Optional Enclosures: *Red-Hat II:* Types 3, 3S, 4, 4X, 6, 6P, 7 and 9 Combination Explosion-proof and Watertight. To order, add the prefix EF to the catalog number and call Lesman for price and availability. Additional constructions are available. Call for optional open frame solenoids, junction box enclosures, and panel mount constructions.

Nominal Ambient Temperature Ranges: *AC Construction:* 32° to 125°F; *DC Construction:* 32° to 104°F.

Valve Parts in Contact with Fluids: *Body:* Brass; *Seals and Discs:* Buna-N and Nylon; *Core Tube:* 305 S.S.; *Core and Plugnut:* 430F S.S.; *Springs:* 302 S.S.; *Shading Coil:* Copper; *Piston:* Nylon

Leakage: *Liquids:* none; *Air:* slight leakage through exhaust when energized.

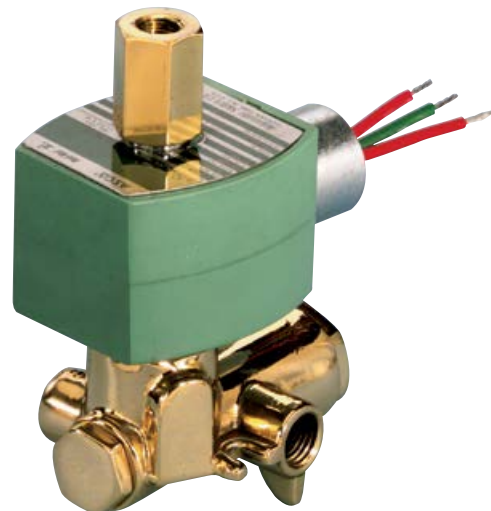
Electrical: *Standard Voltage:* 120 VAC, 60 Hz; *Other voltages available:* 24, 240, 480 VAC, 60 Hz, (or 110, 220 VAC, 50 Hz); 6, 12, 24, 120, 240 VDC. Call Lesman for price and availability.

Coil: Continuous duty molded Class F. Coils shown: 120VAC/60Hz

Approvals: CSA certified. UL listed General Purpose Valves.

Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets are included to simplify installation. Replacement coils must be ordered separately.

Important: A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASCO flow controls and other similar components must be installed in the cylinder lines only.



Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)				Inlet/ Exhaust Cv Flow Factor	Max. Fluid Temp. °F	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Min. Press. Req'd.	Maximum						Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
			Air/ Inert Gas	Water	Light Oil 300SSU									
Single Solenoid — Energize coil to change state														
1/4	1/16	10	150	150	150	0.09	180	10.1/F	L 8345G001	\$250.00	G 314453	\$133.00	L 238610-032-D	\$98.00
Single Solenoid — Air only construction, Exhaust to atmosphere, Energize coil to change state														
1/4	1/16	10	150	—	—	0.09	180	10.1/F	L 8345H003	272.00	G 302698	139.00	L 238610-032-D	98.00



Buy Your ASCO from the Top Banana!

If you're not careful, buying ASCO can be a little like slipping on a banana peel! Lots of people say they sell ASCO, but very few are actual Authorized Distributors. Authorized Distributors are the only ones with factory-trained staffs and open communication links directly into the factory.

As Authorized ASCO Distributor for Chicago and Milwaukee areas, we can get you immediate answers on your most difficult questions, and help you specify valves for the most demanding applications. You'll also find the most extensive inventories to satisfy even the most demanding delivery requirements.

Lesman has more than 1,700 ASCO valves in stock, and thousands more available to you within a week.

Look for the Block L and 5 Circle to the left of the catalog number for each solenoid valve, repair or rebuild kit, and replacement coil. They'll let you know how quickly we can deliver. Just call our Inside Sales staff and make your request. Our staff will bend over backwards to make sure you're satisfied!

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Guarantee #1

We guarantee that the material you receive matches the Lesman packing slip! If we deviate, bring it to our attention and we'll send you a coupon worth \$25 off your next invoice.

Guarantee #2

Fax or mail your order in to us using our catalog numbers, and we guarantee complete error-free order processing. This means what you receive will exactly match what you ordered. If we deviate, bring it to our attention and we'll send you a coupon worth \$25 off your next invoice.

Guarantee #3

Your Satisfaction is 100% Guaranteed! If, for any reason, you are not completely satisfied with the material you receive, just give us a call and let us know. Without hassle, you will immediately be issued return authorization. All we ask is that you return the material in its original packaging in resalable condition.

Solenoid Valve Accessories



Adjustable Flow Control Valves

ASCO's patented adjustable flow control design has greater flow capacity than most conventional constructions where a separate adjustment speed control and ball check for free flow are utilized.

A spring-loaded disc allows free flow in one direction and an adjustable or controlled flow in the opposite direction. Flow adjustment is performed by a tapered brass stem that controls the flow through the cross hole in the disc.

The adjustable knob contains a locking device with a plastic metering knob and a thumb latch pawl. The valve bonnet is scribed with graduations that serve as a position indicator for the stem.

Specifications

Valve Parts in Contact with Fluids: Body and Stem: Brass; Seals: Buna-N; Disc: Acetal; Spring: 302 S.S.; Retainer: 17-7PH SS

Nominal Ambient Temperature: 125°F Maximum

Important: Valves may be mounted in any position.

Model Selection Guide

Pipe Size	Orifice Size	Cv Flow Factor		Operating Pressure (PSI)	Operating Pressure Differential	Max. Fluid Temp.	Catalog Number	Price Each
		Meter	Free					
1/4"	3/8"	0.22	1.2	1 PSI	300 PSI Max.	180° F	⑤ V022A001	\$148.00
3/8"	3/8"	0.90	1.4	1 PSI	300 PSI Max.	180° F	⑤ V022 002	155.00
1/2"	7/16"	1.2	2.6	1 PSI	300 PSI Max.	180° F	⑤ V022 003	176.00
3/4"	17/32"	1.6	4.0	2.5 PSI	300 PSI Max.	180° F	V022 004	268.00



2-Way Strainers

ASCO's rugged self-cleaning "Y" type body strainers have an easily removable strainer element of perforated stainless steel sheet. They are suitable for air, water, oil and steam.

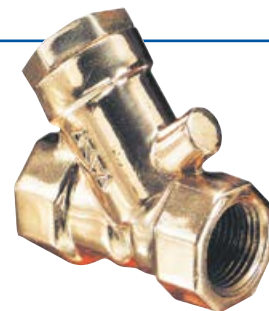
Strainers should be used wherever it is essential that the fluid flowing through pipe lines be maintained free of foreign solid matter. This is necessary to assure proper flow and to prevent damage to controls and other equipment.

ASCO strainers are made of a forged brass body with stainless steel strainer element and Teflon or Viton seals.

The strainers can be mounted in any position. When installed with solenoid valves, the strainer should be connected in the upstream (inlet) side of the valve — as close to the valve as possible.

Model Selection Guide

Pipe Size	Cv Flow Factor	Screen Mesh Size	Particle Retention Size		Max. Fluid Temp.	Safe Working Pressure	Catalog Number	Price Each
			Microns	Inches				
1/4"	1.7	60 x 60	155	0.0061	400° F	750 PSI	⑤ 8600A002	\$58.00
3/8"	1.9	100 x 100	155	0.0061	400° F	750 PSI	8600A013	139.00
1/2"	2.6	100 x 100	155	0.0061	400° F	750 PSI	⑤ 8600A014	150.00
3/4"	4.7	100 x 100	155	0.0061	400° F	750 PSI	⑤ 8600A015	286.00



Exhaust Mufflers

Use the muffler to silence exhaust from compressed air devices. The muffler-speed control combination will reduce noise and control the speed of cylinders, and can be used on dry or lubricated air up to 150 PSI and up to 200°F. Made of sintered bronze.

Model Selection Guide

	Conn. (NPT)	Length	Hex	Catalog Number	Price
Air Muffler	1/8"	1.29"	0.4375"	264645-001	\$6.00
	1/4"	1.41"	0.5625"	264645-002	8.00
Air Muffler and Speed Control	1/8"	1.29"	0.4375"	276790-001	19.00
	1/4"	1.41"	0.5625"	276790-002	21.00



Adjustable Electronic Timer

Solid state electronic timer can be used to automatically control ASCO solenoid valves for automatic draining of condensate in compressed air systems. LED lights indicate timing phase.

Specifications

Duty Cycle: 100%

Accuracy: Repeat: ±0.1%; Scale: ±10%

Adjustable Timing: On: From 2–40 seconds; Off: From 30 seconds to 45 minutes

Operating Temperature: 114° to 122° F

Reset/Test: Manual override touch switch



Supply Voltage: 24–240V, AC/DC, 50/60 Hz

Capacity: Switch: 1 Amp; Inrush: 10 Amps for 10 mSec

Current Consumption: 4 mA max

Environmental Protection: NEMA 4

Connection: DIN 43650, ISO-4400/6952

Model Selection Guide

Description	Catalog No.	Price
Adjustable Electronic Timer	⑤ 272839-001	\$133.00
Power Cord Kit	⑤ 272852	19.00
DIN Connector Kit	⑤ 272873	3.00



Timer and valve can be assembled in the field. Red-Hat II valve with DIN connection coil must be used. Be sure to select a valve with a current draw not exceeding 1 Amp max. switch capacity.