

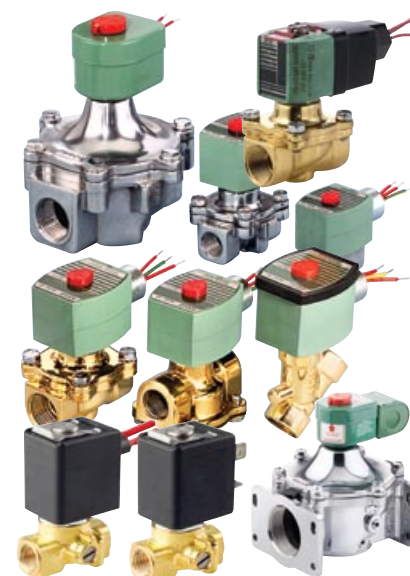
We stock more than 2,000 different ASCO solenoid valves, repair kits, and replacement coils. What we don't stock, we can usually get from the factory within 5 working days! As the local authorized ASCO distributor, we work closely with the factory to get you exactly what you need, when you need it most.

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!

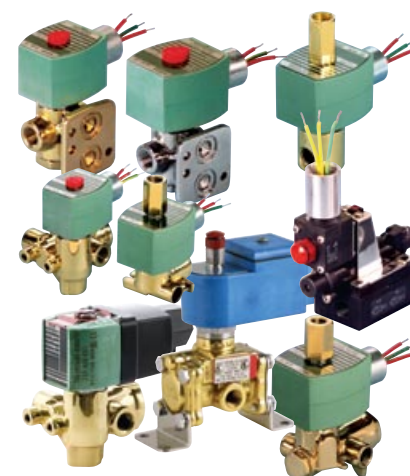


Prices in this catalog are current at the publication date, and are subject to change without notice.

	Prices Start at	See Page
Two-Way Valves		
2-Way and 3-Way Sub-Miniature Solenoid Valves 8256/8356 Series	\$35.00	401
Aluminum Body Solenoid Valves 8040/8215 Series	\$65.00	397
Dust Collector Solenoid Valves 8353 Series	\$60.00	406
Fuel Oil Solenoid Valves 8262/8266 Series	\$49.00	407
Gas Safety Shutoff Valves 8214 Series	\$305.00	409
General Service Brass Solenoid Valves 8210 Series	\$94.00	398
High Pressure Solenoid Valves 8223 Series	\$178.00	402
Hot Water and Steam Solenoid Valves 8210/8220/8263 Series	\$126.00	399
Low Power Consumption Solenoid Valves Next Generation Valves	\$100.00	393
Low Pressure Solenoid Valves 8030 Series	\$99.00	396
Miniature Solenoid Valves 8262 Series	\$45.00	400
Pilot-Operated, Slow-Closing Solenoid Valves 8221 Series	\$200.00	403
Severe Duty Piston Valves 8290 Series	\$170.00	404
Solenoid Valves for Combustion Systems	\$65.00	408



Three-Way Valves		
Air and Water Solenoid Valves 8316 Series	\$318.00	412
Direct-Mount Inline Spool Valves 8351 Series	\$111.00	414
General Service Solenoid Valves 8314 Series	\$117.00	410
General Service Solenoid Valves 8320 Series	\$79.00	411
Intrinsically Safe Solenoid Valves IS Series	\$428.00	415
Low Power Consumption Solenoid Valves Next Generation Valves	\$152.00	393
Pad Mount (Directly on Actuator) Solenoid Valves 8380/8401 Series	\$172.00	415
Quick Exhaust Solenoid Valves 8317/8321 Series	\$157.00	413



Four-Way Valves		
Intrinsically Safe Solenoid Valves IS Series	\$825.00	415
General Service Solenoid Valves 8342 and 8344 Series	\$246.00	416
General Service Two-Position Solenoid Valves 8345 Series	\$218.00	417
Low Power Consumption Solenoid Valves Next Generation Valves	\$267.00	393



Accessories		
Adjustable Electronic Timer	\$96.00	418
Adjustable Flow Control Valves	\$85.00	418
Exhaust Mufflers	\$6.00	418
Two-Way Strainers	\$41.00	418

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	5	8262H001	Brass	NBR	6.1/F	10.6/F	400		
1/8	3/32	0.20	0	275	290	130	150	140	145	180	120	5	8262H014	Brass	NBR	6.1/F	10.6/F	400		
1/8	1/8	0.34	0	155	180	140	80	80	80	200	120	5	8262H002	Brass	NBR	6.1/F	10.6/F	400		
1/4	3/64	0.06	0	750	750	500	500	500	500	180	120	5	8262H019	Brass	NBR	6.1/F	10.6/F	400		
1/4	3/32	0.17	0	360	340	160	150	125	125	180	120	5	8262H086	SS	NBR	6.1/F	10.6/F	400		
1/4	1/8	0.34	0	500	500	330	500	500	330	180	180	5	8262R232	Brass	Buna-N	2/H	2/H	394		
1/4	1/8	0.35	0	140	165	90	65	60	60	180	120	5	8262H022	Brass	NBR	6.1/F	10.6/F	400		
1/4	1/8	0.35	0	140	165	90	65	60	60	180	120	5	8262H007	SS	NBR	6.1/F	10.6/F	400		
1/4	1/8	0.35	0	300	300	200	75	70	70	180	150	5	8262H232	Brass	NBR	10.1/F	11.6/F	400		
1/4	5/32	0.47	0	290	250	250	290	250	250	180	180	5	8262R202	Brass	Buna-N	2/H	2/H	394		
1/4	5/32	0.47	0	290	250	250	290	250	250	180	180	5	8262R220	SS	Buna-N	2/H	2/H	394		
1/4	5/32	0.50	0	180	200	145	40	40	45	180	150	5	8262H202	Brass	NBR	10.1/F	11.6/F	400		
1/4	5/32	0.50	0	180	200	145	40	40	45	180	150	5	8262H220	SS	NBR	10.1/F	11.6/F	400		
1/4	5/32	0.52	0	110	110	—	—	—	—	—	—	—	8263G300	Brass	Teflon	10.1/H	—	399		
1/4	7/32	0.85	0	40	50	40	17	20	21	180	120	5	8262H013	Brass	NBR	6.1/F	10.6/F	400		
1/4	7/32	0.72	0	145	125	120	145	125	120	180	180	5	8262R208	Brass	Buna-N	2/H	2/H	394		
1/4	7/32	0.72	0	145	125	120	145	125	120	180	180	5	8262R226	SS	Buna-N	2/H	2/H	394		
1/4	7/32	0.72	0	90	100	100	25	25	25	180	150	5	8262H208	Brass	NBR	10.1/F	11.6/F	400		
1/4	7/32	0.72	0	90	100	100	25	25	25	180	150	5	8262H226	SS	NBR	10.1/F	11.6/F	400		
1/4	9/32	0.88	0	60	75	60	18	15	18	180	150	5	8262H210	Brass	NBR	10.1/F	11.6/F	400		
1/4	9/32	0.88	0	90	100	90	25	20	22	180	150	5	8262H212	Brass	NBR	17.1/F	22.6/F	400		
1/4	9/32	0.88	0	90	100	90	25	20	22	180	150	5	8262H230	SS	NBR	17.1/F	22.6/F	400		
1/4	9/32	0.96	0	90	85	80	90	85	80	180	180	5	8262R212	Brass	Buna-N	2/H	2/H	394		
1/4	9/32	0.96	0	90	85	80	90	85	80	180	180	5	8262R230	SS	Buna-N	2/H	2/H	394		
1/4	5/16	1.5	10	750	750	750	—	—	—	200	150	5	8223G021	Brass	Nylon	10.5/A	—	402		
1/4	5/16	1.5	10	1500	1500	1500	500	500	500	200	150	5	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	5	8223P025	Brass	Buna-N	2/H	2/H	394		
1/4	3/8	1.1	0	15	—	—	—	—	—	125	—	5	8040H007	Alum	Buna-N	6.1/F	—	397		
3/8	1/8	0.35	0	160	150	90	65	60	60	180	120	5	8263H002	Brass	Buna-N	6.1/F	10.6/F	399		
3/8	5/32	0.52	0	150	150	100	150	150	100	180	180	5	8263R200	Brass	Buna-N	2/H	2/H	394		
3/8	5/32	0.52	0	—	110	—	—	—	—	7	—	5	8263H305	Brass	Teflon	10.1/H	—	399		
3/8	5/32	0.52	0	100	100	100	35	35	35	180	150	5	8263H200	Brass	Buna-N	10.1/F	11.6/F	400		
3/8	7/32	0.72	0	100	100	100	25	25	25	180	150	5	8263H206	Brass	Buna-N	17.1/F	11.6/F	400		
3/8	9/32	0.85	0	100	100	70	—	—	—	180	—	5	8263H210	Brass	Buna-N	17.1/F	—	400		
3/8	9/32	0.85	0	80	80	70	80	80	70	180	180	5	8263R210	Brass	Buna-N	2/H	2/H	394		
3/8	5/16	1.5	10	750	750	750	—	—	—	200	—	5	8223G023	Brass	Nylon	10.1/F	—	402		
3/8	5/16	1.5	10	1500	1500	1500	500	500	500	200	150	5	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	5	8223P027	Brass	Buna-N	2/H	2/H	394		
3/8	3/8	1.8	0	7	5	—	3	3	—	180	120	5	8030G010	Brass	Buna-N	6.1/F	10.6/F	396		
3/8	3/8	1.2	0	15	—	—	—	—	—	125	—	5	8040H008	Alum	Buna-N	6.1/F	—	397		
3/8	3/8	1.8	0	15	15	—	3.5	3.5	—	180	150	5	8030G013	Brass	Buna-N	10.1/F	11.6/F	396		
3/8	3/8	1.5	4	150	125	—	40	40	—	180	150	5	8210G073	Brass	Buna-N	6.1/F	11.6/F	398		
3/8	5/8	3	0	150	150	—	150	150	—	180	180	5	8210P093	Brass	Buna-N	2/H	2/H	394		
3/8	5/8	3	0	150	150	—	40	40	—	180	150	5	8210G093	Brass	Buna-N	10.1/F	11.6/F	398		
3/8	5/8	3	1	—	100	—	40	40	—	210	150	5	8210G093HW	Brass	EthPro	10.1/F	11.6/F	399		
3/8	5/8	3	5	200	150	135	125	100	100	180	150	5	8210G001	Brass	Buna-N	6.1/F	11.6/F	398		
3/8	5/8	3	5	—	125	—	100	100	—	210	150	5	8210G001HW	Brass	EthPro	6.1/F	11.6/F	399		
3/8	5/8	3	5	300	300	300	—	—	—	175	—	5	8210G006	Brass	Buna-N	17.1/F	—	398		
3/8	3/4	3.4	0	50	—	—	25	—	—	125	104	5	8215G010	Alum	Buna-N	10.1/F	11.6/F	397		
1/2	3/8	3.2	25	1500	1500	1500	1500	1500	1500	180	180	5	8223P003	Brass	Buna-N	2/H	2/H	394		
1/2	3/8	3.2	25	1500	1500	1500	1500	1500	1500	180	180	5	8223P010	SS	Buna-N	2/H	2/H	394		
1/2	3/8	3.2	25	1500	1500	1500	500	500	500	200	150	5	8223G003	Brass	Nylon	17.1/F	22.6/F	402		
1/2	7/16	2.8	0	4	6	—	—	—	—	180	—	5	8030G016	Brass	Buna-N	6.1/F	—	396		
1/2	7/16	2.8	0	15	15	—	6	6	—	200	180	5	8030G017	Brass	Buna-N	15.4/F	16.8/F	396		
1/2	7/16	2.2	4	150	125	—	40	40	—	180	150	5	8210G015	Brass	Buna-N	6.1/F	11.6/F	398		
1/2	5/8	4	0	150	150	—	150	150	—	180	180	5	8210P094	Brass	Buna-N	2/H	2/H	394		
1/2	5/8	4	0	150	150	—	40	40	—	180	150	5	8210G094	Brass	Buna-N	10.1/F	11.6/F	398		
1/2	5/8	4	1	—	100	—	40	40	—	210	150	5	8210G094HW	Brass	EthPro	10.1/F	11.6/F	399		
1/2	5/8	4	5	200	150	135	125	100	100	180	150	5	8210G002	Brass	Buna-N	6.1/F	11.6/F	398		
1/2	5/8	4	5	—	125	—	100	100	—	210	150	5	8210G002HW	Brass	EthPro	6.1/F	11.6/F	399		
1/2	5/8	4	5	300	300	300	300	300	300	180	180	5	8210P007	Brass	Buna-N	2/H	2/H	394		
1/2	5/8	4	5	300	300	300	300	300	300	180	180	5	8210P087	SS	Buna-N	2/H	2/H	394		
1/2	5/8	4	5	300	300	300	—	—	—	175	—	5	8210G007	Brass	Buna-N	17.1/F	—	398		
1/2	5/8	4	5	2	150	—	—	—	—	4	—	5	8220G406	Brass	Teflon	10.1/H	—	399		
1/2	3/4	4.4	0	50	—	—	25	—	—	125	104	5	8215G020	Alum	Buna-N	10.1/F	11.6/F	397		
1/2	3/4	4.8	5	125	—	—	125	—	—	125	104	5	8215G002	Alum	Buna-N	6.1/F	11.6/F	397		

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers



Pipe Size (In.)	Orifice Size (In.)	Cv Flow Factor	Min. Press. Req'd	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.	
				Maximum AC			Maximum DC						Body	Elastomer	AC	DC		
				Air/Inert Gas	Water	Light Oil 300SSU	Air/Inert Gas	Water	Light Oil 300SSU									
2-Way Normally Closed (Continued)																		
3/4	5/8	4.5	0	150	125	125	150	150	125	180	180	8210P088	SS	Buna-N	2/H	2/H	394	
3/4	3/4	9.5	0	2	—	—	—	—	—	125	—	8040G023	Alum	Buna-N	10.1/F	—	397	
3/4	3/4	5	0	3	3	—	3	3	—	180	180	8030P003	Brass	Buna-N	2/H	2/H	394	
3/4	3/4	5	0	2	2	—	1	1	—	180	150	8030G003	Brass	Buna-N	10.1/F	11.6/F	396	
3/4	3/4	5	0	4	4	—	—	—	—	180	—	8030G043	Brass	Buna-N	17.1/F	—	396	
3/4	3/4	5.1	0	50	—	—	25	—	—	125	104	8215G030	Alum	Buna-N	10.1/F	11.6/F	397	
3/4	3/4	5	0	150	150	—	150	150	—	180	180	8210P095	Brass	Buna-N	2/H	2/H	394	
3/4	3/4	5	0	150	150	—	40	40	—	180	150	8210G095	Brass	Buna-N	10.1/F	11.6/F	398	
3/4	3/4	5	1	—	100	—	—	40	—	210	150	8210G095HW	Brass	EthPro	10.1/F	11.6/F	399	
3/4	3/4	5	5	150	150	125	100	90	75	180	150	8210G009	Brass	Buna-N	6.1/F	11.6/F	398	
3/4	3/4	5	5	—	125	—	—	100	—	210	150	8210G009HW	Brass	EthPro	6.1/F	11.6/F	399	
3/4	3/4	5	5.2	—	150	—	—	—	—	5	—	8220G409	10	Brass	Teflon	10.1/H	—	399
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	398	
3/4	3/4	6	0	350	300	200	200	180	180	200	77	8210G026	8	Brass	Teflon	15.4/F	30.6/H	398
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	394	
1	1	13	0	150	125	125	100	100	80	180	77	8210G054	Brass	Buna-N	15.4/F	30.6/H	398	
1	1	13	5	150	150	100	150	150	100	180	180	8210P004	Brass	Buna-N	2/H	2/H	394	
1	1	13	5	150	150	100	125	125	125	180	150	8210G004	Brass	Buna-N	6.1/F	11.6/F	398	
1	1	13.5	0	300	225	115	—	—	—	200	—	8210G027	Brass	Buna-N	20/F	—	398	
1	1	13.5	5.3	—	150	—	—	—	—	6	—	8220G410	11	Brass	EthPro	10.1/F	—	399
1	1	13.5	5.3	—	150	—	—	—	—	5	—	8220G411	10	Brass	Teflon	10.1/H	—	399
1	1 5/8	21	0	25	—	—	25	—	—	125	77	8215B050	Alum	Buna-N	15.4/F	14.9/B	397	
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	398	
1 1/4	1 1/8	15	5	150	150	100	150	150	100	180	180	8210P008	Brass	Buna-N	2/H	2/H	394	
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	398	
1 1/4	1 1/8	15	5.3	—	150	—	—	—	—	6	—	8220G009	11	Brass	EthPro	10.1/F	—	399
1 1/4	1 1/8	15	5.3	125	150	—	—	—	—	5	—	8220G027	10	Brass	Teflon	10.1/H	—	399
1 1/4	1 1/8	32	0	25	—	—	25	—	—	125	77	8215B060	Alum	Buna-N	15.4/F	14.9/B	397	
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	398	
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	394	
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	398	
1 1/2	1 1/4	22.5	5.3	—	150	—	—	—	—	6	—	8220G011	11	Brass	EthPro	10.1/F	—	399
1 1/2	1 1/4	22.5	5.3	—	150	—	—	—	—	5	—	8220G029	10	Brass	Teflon	10.1/H	—	399
1 1/2	1 5/8	35	0	25	—	—	25	—	—	125	77	8215B070	Alum	Buna-N	15.4/F	14.9/B	397	
2	1 3/4	43	5	150	125	90	150	125	90	180	180	8210P100	Brass	Buna-N	2/H	2/H	394	
2	1 3/4	43	5	150	125	90	50	50	50	180	150	8210G100	Brass	Buna-N	6.1/F	11.6/F	398	
2	2 3/32	60	0	25	—	—	15	—	—	125	77	8215B080	Alum	Buna-N	15.4/F	14.9/B	397	
2 1/2	3	117	0	5	—	—	—	—	—	125	—	8215A090	Alum	Buna-N	28.2/F	—	397	
3	3	138	0	5	—	—	—	—	—	125	—	8215A040	Alum	Buna-N	28.2/F	—	397	
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	400	
1/4	3/64	0.06	0	750	700	700	500	500	500	140	140	8262G260	12	Brass	Ureth	10.1/F	11.6/F	400
1/4	3/32	0.17	0	300	250	230	300	250	230	180	180	8262P261	12	Brass	Ureth	2/H	2/H	394
1/4	3/32	0.17	0	300	250	230	200	150	125	140	140	8262G261	12	Brass	Ureth	10.1/F	11.6/F	400
1/4	1/8	0.35	0	130	110	100	130	110	100	180	180	8262P262	Brass	Buna-N	2/H	2/H	394	
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	400	
1/4	5/32	0.49	0	85	75	60	85	75	60	180	180	8262P263	Brass	Buna-N	2/H	2/H	394	
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	400	
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	400	
1/4	9/32	0.96	0	30	20	20	30	20	20	180	180	8262P265	Brass	Buna-N	2/H	2/H	394	
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	400	
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	396	
3/8	5/8	3	0	150	150	125	125	125	80	180	150	8210P033	Brass	Buna-N	2/H	2/H	394	
3/8	5/8	3	0	150	150	125	125	125	80	180	150	8210G033	Brass	Buna-N	10.1/F	11.6/F	398	
1/2	7/16	2.2	0	15	15	—	2.5	2.5	—	200	180	8030G071	Brass	Buna-N	20/F	16.8/F	396	
1/2	5/8	4	0	150	150	125	150	150	125	180	180	8210P034	Brass	Buna-N	2/H	2/H	394	
1/2	5/8	4	0	150	150	125	125	125	80	180	150	8210G034	Brass	Buna-N	10.1/F	11.6/F	398	
1/2	3/4	5	0	2	2	—	—	—	—	180	—	8030G082	Brass	Buna-N	10.1/F	—	396	
1/2	3/4	4	0	125	—	—	125	—	—	125	104	8215G023	Alum	Buna-N	10.1/F	11.6/F	397	

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.
- 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.

*DuPont Co. trademark

**GE Co. trademark

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 Open (Continued)																	
3/4	3/4	4.6	0	125	—	—	125	—	—	125	104	8215G033	Alum	Buna-N	10.1/F	11.6/F	397
3/4	3/4	5.5	0	2	2	—	2	2	—	180	180	8030P083	Brass	Buna-N	2/H	2/H	394
3/4	3/4	5.5	0	2	2	—	—	—	—	180	—	8030G083	Brass	Buna-N	10.1/F	—	396
3/4	3/4	5.5	0	150	150	125	150	150	125	180	180	8210P035	Brass	Buna-N	2/H	2/H	394
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	398
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	398
3/4	3/4	7.8	25	750	750	750	—	—	—	200	—	8223G005	Brass	Buna-N	17.1/F	22.6/F	402
1	1	13	0	125	125	125	—	—	—	180	—	8210B057	Brass	Buna-N	20/F	—	398
1	1	13	5	150	150	125	125	125	125	180	180	8210G014	Brass	Buna-N	15.4/F	16.8/F	398
1	1 5/8	22	0	25	—	—	15	—	—	125	77	8215C053	Alum	Buna-N	15.4/F	14.9/B	397
1 1/4	1 1/8	15	0	125	125	125	—	—	—	180	—	8210B058	Brass	Buna-N	20/F	—	398
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	398
1 1/4	1 5/8	33	0	25	—	—	15	—	—	125	77	8215C063	Alum	Buna-N	15.4/F	14.9/B	397
1 1/2	1 1/4	22.5	0	125	125	125	—	—	—	180	—	8210B059	Brass	Buna-N	20/F	—	398
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	398
1 1/2	1 5/8	37	0	25	—	—	15	—	—	125	77	8215C073	Alum	Buna-N	15.4/F	14.9/B	397
2	1 3/4	43	5	125	125	125	125	125	125	180	150	8210G103	Brass	Buna-N	15.4/F	16.8/F	398
2	2 3/32	58	0	25	—	—	15	—	—	125	77	8215C083	Alum	Buna-N	15.4/F	14.9/B	397

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	Lt. Oil 300 SSU2	Air/Inert Gas	Water	Lt. Oil 300 SSU2									
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	411	
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	411	
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	411	
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	411	
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	411	
1/4	5/64	0.12	0	232	232	232	232	232	232	180	180	8320P182	Brass	Buna-N	2/H	2/H	395	
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	411	
1/4	3/32	0.17	0	205	205	205	205	205	205	180	180	8314P035	Brass	Buna-N	2/H	2/H	395	
1/4	3/32	0.17	0	205	205	205	205	205	205	180	180	8314P121	SS	Buna-N	2/H	2/H	395	
1/4	3/32	0.20	5	150	150	100	150	150	100	180	180	8317P035	Brass	Buna-N	2/H	2/H	395	
1/4	3/32 (1/4)	0.2 (.73)	5 3	150	—	—	—	—	—	180	—	8317G023	4	Brass	B/N/Neo	10.1/F	11.6/F	413
1/4	3/32 (1/4)	0.2 (.73)	5 3	150	150	95	75	55	30	180	104	8317G035	4	Brass	B/N/Neo	10.1/F	11.6/F	413
1/4	7/64	0.23	0	150	150	150	150	150	150	180	180	8320P184	Brass	Buna-N	2/H	2/H	395	
1/4	5/32	0.35	0	75	75	75	75	75	75	180	180	8320P186	Brass	Buna-N	2/H	2/H	395	
1/4	1/8	0.25	0	75	60	60	30	40	25	200	104	8314G036	Brass	Bun/Nyl	10.1/F	11.6/F	410	
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	411	
1/4	1/8	0.27	0	145	145	145	145	145	145	180	180	8314P036	Brass	Buna-N	2/H	2/H	395	
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	411	
1/4	9/32 (11/32)	0.8 (1.2)	10	200	200	200	200	200	200	180	120	8321G001	4	Brass	Buna-N	6.1/F	10.6/F	413
1/4	9/32	0.8	10	200	200	200	200	200	200	180	180	8321P001	Brass	Buna-N	2/H	2/H	395	
3/8	9/32 (11/32)	0.8 (1.2)	10	200	200	200	200	200	200	180	120	8321G002	4	Brass	Buna-N	6.1/F	10.6/F	413
3/8	9/32	0.8	10	200	200	200	200	200	200	180	180	8321P002	Brass	Buna-N	2/H	2/H	395	
3/8	5/8	2.5	10	250	250	—	250	250	—	180	180	8316P054	Brass	Buna-N	2/H	2/H	395	
3/8	5/8	3	10 5	150	125	—	125	125	—	180	120	8316G054	Brass	Buna-N	6.1/F	10.6/F	412	
3/8	5/8	3	10 5	250	250	—	250	250	—	180	120	8316G014	Brass	Buna-N	17.1/F	22.6/F	412	
1/2	5/8	3.2	10	250	250	—	250	250	—	180	180	8316P064	Brass	Buna-N	2/H	2/H	395	
1/2	5/8	4	10 5	150	125	—	125	125	—	180	120	8316G064	Brass	Buna-N	6.1/F	10.6/F	412	
1/2	5/8	4	10 5	250	250	—	250	250	—	180	120	8316G024	Brass	Buna-N	17.1/F	22.6/F	412	
3/4	11/16	4.8	10	250	250	—	250	250	—	180	180	8316P074	Brass	Buna-N	2/H	2/H	395	
3/4	11/16	5.5	10 5	150	125	—	125	125	—	180	120	8316G074	Brass	Buna-N	6.1/F	10.6/F	412	
3/4	11/16	5.5	10 5	250	250	—	250	250	—	180	120	8316G044	Brass	Buna-N	17.1/F	22.6/F	412	
1	1	13	10 5	150	125	—	125	125	—	180	120	8316G034	Brass	Buna-N	6.1/F	10.6/F	412	

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers



Pipe Size (In.)	Orifice Size (In.) ¹	Cv Flow Factor ¹	Operating Pressure Differential (PSI)									Std. Solenoid Enclosure RedHat I: 1 RedHat II: 1-4, 3S, 4X		Materials Body Elastomer		Watt Rating/ Class of Coil Insulation AC DC		Page No.
			Min. Press. Req'd	Maximum AC			Maximum DC			Max. Fluid Temp. (°F)								
				Air/Inert Gas	Water	Lt. Oil 300 SSU ²	Air/Inert Gas	Water	Lt. Oil 300 SSU ²	AC	DC							
3-Way Normally Open (Open when de-energized)																		
1/8	3/64	0.06	0	200	200	200	200	200	200	180	120	8320G136	Brass	Buna-N	6.1/F	10.6/F	411	
1/8	3/32	0.12	0	100	100	100	100	100	100	180	120	8320G029	Brass	Buna-N	6.1/F	10.6/F	411	
1/4	1/16	0.09	0	235	250	250	160	160	160	200	150	8320G192	Brass	Buna-N	17.1/F	11.6/F	411	
1/4	5/64	0.12	0	210	210	210	210	210	210	180	180	8320P192	Brass	Buna-N	2/H	2/H	395	
1/4	3/32	0.12	0	150	140	140	100	100	100	200	150	8320G194	Brass	Buna-N	10.1/F	11.6/F	411	
1/4	3/32 (1/4)	0.15 (0.73)	5 3	160	160	95	75	45	25	180	104	8317G053 4	Brass	B/N/Neo	10.1/F	11.6/F	413	
1/4	7/64	0.23	0	150	150	150	150	150	150	180	180	8320P194	Brass	Buna-N	2/H	2/H	395	
1/4	11/64	0.35	0	40	40	40	30	30	30	200	150	8320G198	Brass	Buna-N	10.1/F	11.6/F	411	
1/4	9/32 (11/32)	0.80 (1.20)	10	200	200	200	200	200	200	180	120	8321G003 4	Brass	Buna-N	6.1/F	10.6/F	413	
3/8	9/32 (11/32)	0.80 (1.20)	10	200	200	200	200	200	200	180	120	8321G004 4	Brass	Buna-N	6.1/F	10.6/F	413	
3/8	5/8	3	10 5	150	125	—	125	125	—	180	120	8316G056	Brass	Buna-N	6.1/F	10.6/F	412	
3/8	5/8	3	10 5	250	250	—	250	250	—	180	120	8316G016	Brass	Buna-N	17.1/F	22.6/F	412	
1/2	5/8	4	10 5	150	125	—	125	125	—	180	120	8316G066	Brass	Buna-N	6.1/F	10.6/F	412	
1/2	5/8	4	10 5	250	250	—	250	250	—	180	120	8316G026	Brass	Buna-N	17.1/F	22.6/F	412	
3/4	11/16	5.5	10 5	150	125	—	125	125	—	180	120	8316G076	Brass	Buna-N	6.1/F	10.6/F	412	
3-Way Universal Operation																		
1/8	3/64	0.04	0	160	160	160	70	65	65	200	104	8314G041	Brass	Bun/Nyl	10.1/F	11.6/F	410	
1/8	3/64	0.06	0	175	175	175	125	125	125	140	120	8320G130	Brass	Ureth±	9.1/F	10.6/F	411	
1/8	3/32	0.12	0	50	50	50	50	50	50	180	120	8320G083	Brass	Buna-N	6.1/F	10.6/F	411	
1/8	1/8	0.21	0	30	30	30	20	20	20	180	120	8320G003	Brass	Buna-N	9.1/F	10.6/F	411	
1/8	1/16	0.09	0	100	100	100	65	65	65	180	120	8320G001	Brass	Buna-N	9.1/F	10.6/F	411	
1/4	3/64	0.04	0	160	160	160	70	65	65	200	104	8314G006	Brass	Bun/Nyl	10.1/F	11.6/F	410	
1/4	1/16	0.09	0	125	130	130	75	75	75	200	150	8320G172	Brass	Buna-N	10.1/F	11.6/F	411	
1/4	5/64	0.12	0	116	116	116	116	116	116	180	180	8320P172	Brass	Buna-N	2/H	2/H	395	
1/4	3/32	0.12	0	100	100	100	60	60	60	200	150	8320G174	Brass	Buna-N	17.1/F	11.6/F	411	
1/4	3/32	0.15	0	80	40	40	35	35	15	200	104	8314G007	Brass	Bun/Nyl	10.1/F	11.6/F	410	
1/4	3/32 (1/4)	0.20 (0.73)	5 3	80	50	50	40	30	15	180	104	8317G007 4	Brass	B/N/Neo	10.1/F	11.6/F	413	
1/4	7/64	0.23	0	60	60	60	60	60	60	180	180	8320P174	Brass	Buna-N	2/H	2/H	395	
1/4	1/8	0.25	0	45	25	25	20	15	15	200	104	8314G008	Brass	Bun/Nyl	10.1/F	11.6/F	410	
1/4	1/8	0.25	0	50	50	50	25	25	25	200	150	8320G176	Brass	Buna-N	17.1/F	11.6/F	411	
1/4	5/32	0.35	0	35	35	35	35	35	35	180	180	8320P176	Brass	Buna-N	2/H	2/H	395	
1/4	11/64	0.35	0	20	20	20	12	12	12	200	150	8320G178	Brass	Buna-N	10.1/F	11.6/F	411	
4-Way Valves																		
1/4	1/16	0.09	10	150	150	150	150	150	150	180	180	8345P001	Brass	Buna-N	2/H	2/H	395	
1/4	1/16 (3/32)	0.09	10	150	—	—	100	—	—	180	104	8345H003 2	Brass	Bun/Nyl	10.1/F	10.6/F	417	
1/4	1/16 (3/32)	0.09	10	150	150	150 4	100	100	100 0	180	104	8345G001 2	Brass	Bun/Nyl	10.1/F	10.6/F	417	
1/4	3/16	0.7	0	125	100	100	—	—	—	160	—	8342G001 2	Brass	Vit/Tef	20/F	—	416	
1/4	3/16	0.7	0	125	125	125	—	—	—	160	—	8342G020 3	Brass	Vit/Tef	15.4/F	—	416	
1/4	1/4	0.8 (1.0)	10	250	250	250	250	250	250	180	180	8344P070	Brass	Buna-N	2/H	2/H	395	
1/4	1/4	0.8 (1.0)	10 5	150	125	125	125	125	125	180	150	8344G070 2	Brass	Buna-N	10.1/F	11.6/F	416	
1/4	1/4	0.8 (1.0)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	8344G000 2	Brass	Buna-N	17.1/F	22.6/F	416	
3/8	3/16	0.7	0	125	100	100	—	—	—	160	—	8342G003 2	Brass	Vit/Tef	20/F	—	416	
3/8	3/16	0.7	0	125	125	125	—	—	—	160	—	8342G022 3	Brass	Vit/Tef	15.4/F	—	416	
3/8	1/4	0.8 (1.0)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	8344G001 2	Brass	Buna-N	17.1/F	22.6/F	416	
3/8	3/8	1.4 (2.2)	10 5	150	125	125	125	125	125	180	150	8344G072 2	Brass	Buna-N	10.1/F	11.6/F	416	
3/8	3/8	1.4 (2.2)	10	250	250	250	250	250	250	180	180	8344P072	Brass	Buna-N	2/H	2/H	395	
1/2	3/8	1.4 (2.2)	10 5	150	125	125	125	125	125	180	150	8344G074 2	Brass	Buna-N	10.1/F	11.6/F	416	
1/2	3/8	1.4 (2.2)	10	250	250	250	250	250	250	180	180	8344P074	Brass	Buna-N	2/H	2/H	395	
1/2	3/8	1.4 (2.2)	10 5	250 7	250 7	250 7	250 7	250 7	250 7	180	180	8344G027 2	Brass	Buna-N	17.1/F	22.6/F	416	
3/4	3/4	5.2 (5.6)	10 5	150	125	125	125	125	125	180	150	8344G076 2	Brass	Buna-N	10.1/F	11.6/F	416	
3/4	3/4	5.2 (5.6)	10	250	250	250	250	250	250	180	180	8344P076	Brass	Buna-N	2/H	2/H	395	
1	3/4	5.2 (5.6)	10	250	250	250	250	250	250	180	180	8344P078	Brass	Buna-N	2/H	2/H	395	

Notes

- 1 Exhaust orifice and Cv flow factors, when different from pressure specs, are listed in parentheses.
- 2 8314, 8317, 8325 ratings established with 45 SSU oil.
- 3 Minimum pressure differential on light oil is 10 PSI.
- 4 Quick exhaust construction.
- 5 Valve vents to 0 PSI.
- 6 Valve supplied with cast urethane disc.
- 7 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

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers

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.

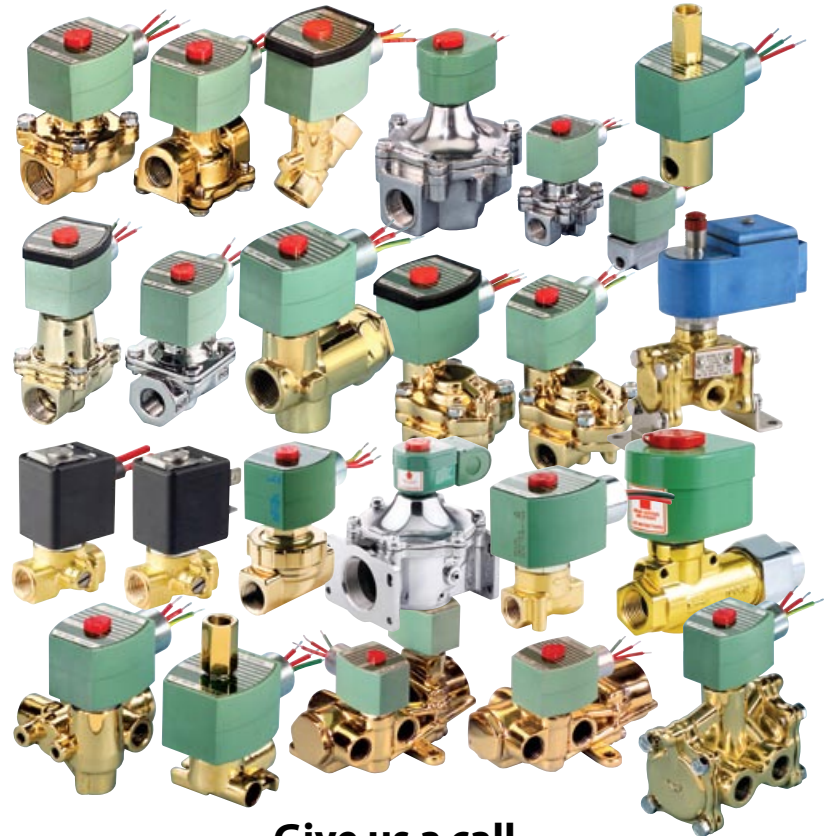
The condensed listing of valves on the following pages is organized by operation, and indexed by pipe size and flow factor to give you a quick look at the key specifications for ASCO general service and hot water/steam valves. Select the valves that meet your needs, then review complete specifications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



ASCO RedHat
NEXT GENERATION

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!

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

See next two pages for model selection guides.

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.

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

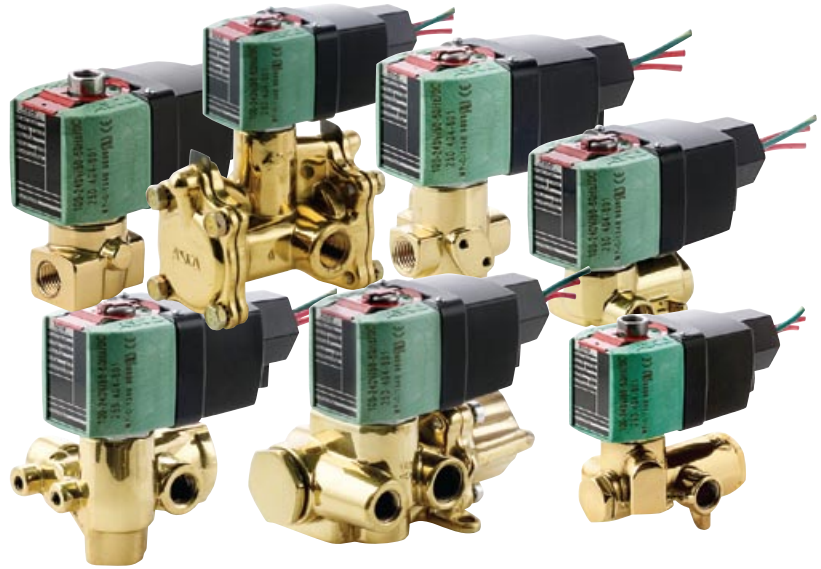
Specify voltage range: 100-240 VAC/VDC, 24-99 VAC/VDC, or 12-24 VDC

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								Light Oil
					Water	Water									
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	\$149.00	323593	\$98.00	
Stainless	1/4	3/32	0.21	0	720	485	420	180°F	SSO	2	8262R183	151.00	323595	65.00	
Brass	1/4	1/8	0.35	0	500	500	330	180°F	SSO		8262R232	100.00	323593	98.00	
Stainless	1/4	1/8	0.35	0	500	500	330	180°F	SSO		8262R185	151.00	323595	65.00	
Brass	1/4	5/32	0.47	0	290	250	250	180°F	SSO	2	8262R202	100.00	323593	98.00	
Stainless	1/4	5/32	0.47	0	290	250	250	180°F	SSO	2	8262R220	130.00	323595	65.00	
Brass	1/4	7/32	0.72	0	145	125	120	180°F	SSO	2	8262R208	104.00	323593	98.00	
Stainless	1/4	7/32	0.72	0	145	125	120	180°F	SSO	2	8262R226	130.00	323595	65.00	
Brass	1/4	9/32	0.96	0	90	85	80	180°F	SSO	2	8262R212	119.00	323593	98.00	
Stainless	1/4	9/32	0.96	0	90	85	80	180°F	SSO	2	8262R230	165.00	323595	65.00	
Brass	1/4	5/16	1.5	10	1500	1500	1500	180°F	-	2	8223P025	282.00	322815	230.00	
Brass	3/8	5/32	0.52	0	150	150	100	180°F	SSO	2	8263R200	137.00	323593	98.00	
Brass	3/8	9/32	0.85	0	80	80	70	180°F	SSO	2	8263R210	183.00	323593	98.00	
Brass	3/8	5/16	1.5	10	1500	1500	1500	180°F	-	2	8223P027	282.00	322815	230.00	
Brass	3/8	5/8	3	0	150	150	-	180°F	SSO	2	8210P093	169.00	322670	111.00	
Brass	1/2	3/8	3.2	25	1500	1500	1500	180°F	-	2	8223P003	500.00	322816	357.00	
Stainless	1/2	3/8	3.2	25	1500	1500	1500	180°F	-	2	8223P010	818.00	322817	443.00	
Brass	1/2	5/8	4	0	150	150	-	180°F	SSO	2	8210P094	169.00	322670	111.00	
Brass	1/2	5/8	4	5	300	300	300	180°F	SSO	2	8210P007	198.00	322654	99.00	
Stainless	1/2	5/8	4	0	150	150	125	180°F	GP	2	8210P087	588.00	322676	256.00	
Stainless	3/4	5/8	4.5	0	150	150	125	180°F	GP	2	8210P088	596.00	322676	256.00	
Brass	3/4	3/4	5	0	150	150	-	180°F	SSO	2	8210P095	179.00	322673	127.00	
Brass	3/4	3/4	5	0	3	3	-	180°F	SSO	2	8030P003	216.00	322758	182.00	
Brass	3/4	3/4	7.8	25	750	750	750	180°F	-	2	8223P005	648.00	322818	371.00	
Brass	1	1	13	5	150	150	100	180°F	SSO	2	8210P004	260.00	322677	141.00	
Brass	1 1/4	1 1/8	15	5	150	150	100	180°F	SSO	2	8210P008	313.00	322677	141.00	
Brass	1 1/2	1 1/4	22.5	5	150	150	100	180°F	SSO	2	8210P022	456.00	322680	204.00	
Brass	2	1 3/4	43	5	150	125	90	180°F	GP	2	8210P100	763.00	322682	357.00	
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	8262P261	137.00	322777	102.00	
Brass	1/4	1/8	0.35	0	130	110	100	180°F	GP	2	8262P262	137.00			
Brass	1/4	5/32	0.49	0	85	75	60	180°F	GP	2	8262P263	137.00			
Brass	1/4	9/32	0.96	0	30	20	20	180°F	GP	2	8262P265	137.00			
Brass	3/8	5/8	3	0	150	150	125	180°F	GP	2	8210P033	261.00	322770	160.00	
Brass	1/2	5/8	4	0	150	150	125	180°F	GP	2	8210P034	261.00	322770	160.00	
Brass	3/4	3/4	5.5	0	150	150	125	180°F	GP	2	8210P035	278.00	322771	179.00	
Brass	3/4	3/4	5.5	0	2	2	-	180°F	GP	2	8030P083	223.00	322763	157.00	

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	8314P035	\$166.00	322864	\$112.00
Stainless	1/4	3/32 c	0.17 c	0	205	205	205	180	GP	2	8314P121	198.00	322872	139.00
Brass	1/4	1/8	0.27	0	145	145	145	180	GP	2	8314P036	180.00	322864	112.00
Brass	1/4	5/64	0.12	0	232	232	232	180	GP	2	8320P182	185.00	322722	99.00
Brass	1/4	7/64	0.23	0	150	150	150	180	GP	2	8320P184	152.00	322722	99.00
Brass	1/4	5/32	0.35	0	75	75	75	180	GP	2	8320P186	156.00	322722	99.00
Brass	1/4	3/32 a	0.20 a	5 d	150	150	100	180	GP	2	8317P035	210.00	322919	200.00
Brass	1/4	9/32 b	0.80 b	10	200	200	200	180	GP	2	8321P001	349.00	322688	316.00
Brass	3/8	9/32 b	0.80 b	10	200	200	200	180	GP	2	8321P002	349.00	322688	316.00
Brass	3/8	5/8	2.5	10	250	250	-	180	GP	2	8316P054	370.00	322690	176.00
Brass	1/2	5/8	3.2	10	250	250	-	180	GP	2	8316P064	376.00	322690	176.00
Brass	3/4	11/16	4.8	10	250	250	-	180	GP	2	8316P074	585.00	322692	410.00
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	185.00	322723	130.00
Brass	1/4	7/64	0.23	0	150	150	150	180	GP	2	8320P194	152.00	322723	130.00
Three-Way Solenoid Valve, General Service - Universal Operation														
Brass	1/4	5/64	0.12	0	116	116	116	180	GP	2	8320P172	152.00	322721	105.00
Brass	1/4	7/64	0.23	0	60	60	60	180	GP	2	8320P174	152.00	322721	105.00
Brass	1/4	5/32	0.35	0	35	35	35	180	GP	2	8320P176	149.00	322721	105.00

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
			Pressure	Exhaust	Min.	Max AC/DC									
						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	\$267.00	322925	\$113.00
Brass	1/4	1/4	0.80	1.00	10 a	250	250	250	180°F	GP	2	8344P070	533.00	322696	218.00
Brass	3/8	3/8	1.40	2.20	10 a	250	250	250	180°F	GP	2	8344P072	655.00	322697	230.00
Brass	1/2	3/8	1.40	2.20	10 a	250	250	250	180°F	GP	2	8344P074	655.00	322697	230.00
Brass	3/4	3/4	5.20	5.60	10 a	250	250	250	180°F	GP	2	8344P076	1512.00	322698	567.00
Brass	1	3/4	5.20	5.60	10 a	250	250	250	180°F	GP	2	8344P078	1512.00	322698	567.00

GP = General Purpose Valve.

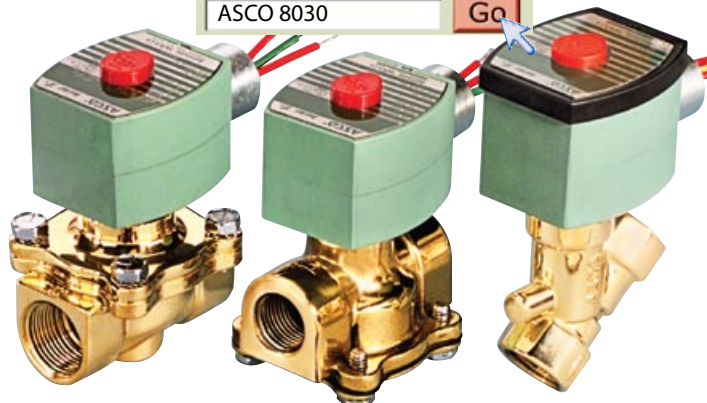
a = 25 psi minimum for light oils.

b = 3/32" exhaust orifice.

Low Pressure 2-Way Solenoid Valves 8030 Series



Search www.lesman.com for
ASCO 8030



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 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 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!!!

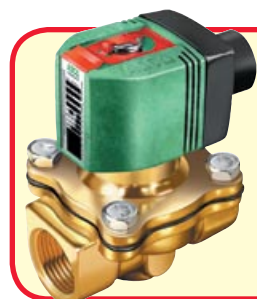
In Chicago Area (630) 834-2386
In Wisconsin (262) 923-1797

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	\$99.00	302787	\$71.00	238210-032-D	\$63.00
3/8	3/8	0-15	0-15	1.8	180°F	°	10.1/F	8030G013	131.00	302788	84.00	238610-032-D	71.00
1/2	7/16	0-4	0-6	2.8	180°F	°	6.1/F	8030G016	101.00	302789	47.00	238210-032-D	63.00
1/2	7/16	0-15	0-15	2.8	200°F	°	15.4/F	8030G017	136.00	302790	101.00	099257-001-D	93.00
3/4	3/4	0-2	0-2	5	180°F	°	10.1/F	8030G003	167.00	302791	74.00	238610-032-D	71.00
3/4	3/4	0-4	0-4	5	180°F	°	17.1/F	8030G043	178.00	302791	74.00	238610-132-D	87.00
Normally Open (Open when de-energized)													
3/8	3/8	0-15	0-15	1.6	200°F	•	15.4/F	8030G070	201.00	302796	105.00	272610-032-D	139.00
1/2	7/16	0-15	0-15	2.2	200°F	•	20/F	8030G071	201.00	302798	133.00	272610-132-D	139.00
1/2	3/4	0-2	0-2	5	180°F	•	10.1/F	8030G082	225.00	302799	79.00	238610-032-D	71.00
3/4	3/4	0-2	0-2	5.5	180°F	•	10.1/F	8030G083	176.00	302799	79.00	238610-032-D	71.00



ASCO's Next Generation is Here!

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

See page 393 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 (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI) Air, Fuel and Gas	Cv Flow Factor	Max. Fluid Temp.	UL Listed	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)												
1/4	3/8	0-15	1.1	125°F	°	6.1/F	8040H007	\$66.00	314692	\$65.00	238210-032-D	\$63.00
3/8	3/8	0-15	1.2	125°F	°	6.1/F	8040H008	65.00	318247	68.00	238210-032-D	63.00
	3/4	0-50	3.4	125°F	°	10.1/F	8215G010	137.00	302350	107.00	238610-032-D	71.00
1/2	3/4	0-50	4.4	125°F	°	10.1/F	8215G020	137.00	302350	107.00	238610-032-D	71.00
	3/4	5-125	4.8	125°F	°	6.1/F	8215G002	131.00	302349	98.00	238210-032-D	63.00
3/4	3/4	0-2	9.5	125°F	°	10.1/F	8040G023	134.00	306633	65.00	238610-032-D	71.00
	3/4	0-50	5.1	125°F	°	10.1/F	8215G030	141.00	302350	107.00	238610-032-D	71.00
3/4	1 5/8	0-50	11	125°F	°	15.4/F	8215 135	250.00	302352	189.00	099257-001-D	93.00
1	1 5/8	0-25	21	125°F	°	15.4/F	8215B050	256.00	302352	189.00	099257-001-D	93.00
1 1/4	1 5/8	0-25	32	125°F	°	15.4/F	8215B060	256.00	302352	189.00	099257-001-D	93.00
1 1/2	1 5/8	0-25	35	125°F	°	15.4/F	8215B070	296.00	302352	189.00	099257-001-D	93.00
2	2 3/32	0-25	60	125°F	°	15.4/F	8215B080	435.00	302353	227.00	099257-001-D	93.00
2 1/2	3	0-5	117	125°F	°	28.2/F	8215A090	661.00	302354	371.00	206409-011-D	193.00
3	3	0-5	138	125°F	°	28.2/F	8215A040	848.00	302354	371.00	206409-011-D	193.00
Normally Open (Open when de-energized)												
1/2	3/4	0-125	4	125°F	•	10.1/F	8215G023	222.00	302361	176.00	238210-032-D	63.00
3/4	3/4	0-125	4.6	125°F	•	10.1/F	8215G033	224.00	302361	176.00	238610-032-D	71.00
1	1 5/8	0-25	22	125°F	•	15.4/F	8215C053	370.00	304691	355.00	099257-001-D	93.00
1 1/4	1 5/8	0-25	33	125°F	•	15.4/F	8215C063	423.00	304691	355.00	099257-001-D	93.00
1 1/2	1 5/8	0-25	37	125°F	•	15.4/F	8215C073	492.00	304691	355.00	099257-001-D	93.00
2	2 3/32	0-25	58	125°F	•	15.4/F	8215C083	597.00	304692	403.00	099257-001-D	93.00

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

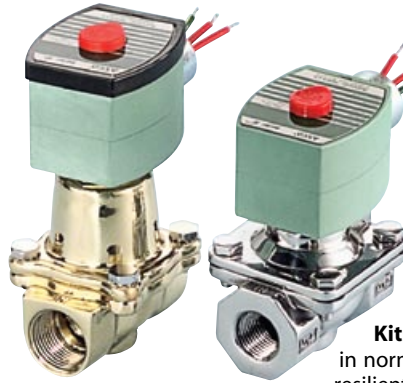
Valve Parts in Contact with Fluids: Body: Brass or Stainless Steel; Seals/Discs: Buna-N or Teflon; Disc Holder: Nylon; Core Tube: 305 S.S.; Core and Plugnut: 430F S.S.; Springs: 302 S.S.; Shading Coil: Copper (brass body); Silver (SS body)

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.



Search www.lesman.com for

ASCO 8210

(Also Available in Stainless Steel. Please Call.)

Model Selection Guide

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

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	\$94.00	302271	\$89.00	238210-032-D	\$63.00
3/8	5/8	0-50	0-50	—	2.8	125°F	◦	10.1/F	8210G074	179.00	304076	131.00	238610-032-D	71.00
3/8	5/8	0-150	0-150	—	3	180°F	◦	10.1/F	8210G093	125.00	302272	92.00	238610-032-D	71.00
3/8	5/8	5-200	5-150	5-135	3	180°F	◦	6.1/F	8210G001	107.00	302273	83.00	238210-032-D	63.00
3/8	5/8	5-130	5-300	5-300	3	175°F	◦	17.1/F	8210G006	154.00	302274	74.00	238610-132-D	87.00
1/2	7/16	5-150	1-125	—	2.2	180°F	•	6.1/F	8210G015	104.00	302275	71.00	238210-032-D	63.00
1/2	5/8	0-50	0-50	—	3.6	125°F	◦	10.1/F	8210G075	179.00	304076	131.00	238610-032-D	71.00
1/2	5/8	0-150	0-150	—	4	180°F	◦	10.1/F	8210G094	125.00	302272	92.00	238610-032-D	71.00
1/2	5/8	5-200	5-150	5-135	4	180°F	◦	6.1/F	8210G002	107.00	302273	83.00	238210-032-D	63.00
1/2	5/8	5-300	5-300	5-300	4	175°F	◦	17.1/F	8210G007	154.00	302274	74.00	238610-132-D	87.00
3/4	3/4	0-50	0-50	—	5.5	125°F	◦	10.1/F	8210G076	196.00	304076	131.00	238610-032-D	71.00
3/4	3/4	5-125	5-125	5-125	5	180°F	◦	6.1/F	8210G009	123.00	302277	83.00	238210-032-D	63.00
3/4	3/4	0-150	0-150	—	5	180°F	◦	10.1/F	8210G095	137.00	302276	96.00	238610-032-D	71.00
3/4	3/4	5-250	5-150	5-100	6.5	180°F	◦	6.1/F	8210G003	169.00	302279	82.00	238210-032-D	63.00
3/4	3/4	0-350	0-300	0-200	6	200°F	•	15.4/F	8210G026	326.00	302278	395.00	272610-032-D	139.00
1	1	0-150	0-125	0-125	13	180°F	◦	15.4/F	8210G054	291.00	302283	268.00	272610-032-D	139.00
1	1	5-150	5-150	5-100	13	180°F	◦	6.1/F	8210G004	216.00	302280	120.00	238210-032-D	63.00
1	1	0-300	0-225	0-115	13.5	200°F	•	20.1/F	8210G027	487.00	302282	322.00	272610-132-D	139.00
1 1/4	1 1/8	0-150	0-125	0-125	15	180°F	•	15.4/F	8210G055	326.00	302283	268.00	272610-032-D	139.00
1 1/4	1 1/8	5-150	5-150	5-100	15	180°F	◦	6.1/F	8210G008	263.00	302280	120.00	238210-032-D	63.00
1 1/2	1 1/4	0-150	0-125	0-125	22.5	180°F	•	15.4/F	8210G056	440.00	302286	322.00	272610-032-D	139.00
1 1/2	1 1/4	5-150	5-150	5-100	22.5	180°F	◦	6.1/F	8210G022	402.00	302284	147.00	238210-032-D	63.00
2	1 3/4	5-150	5-125	5-90	43	180°F	•	6.1/F	8210G100	708.00	304355	317.00	238210-032-D	63.00
Normally Open (Open when de-energized)														
3/8	5/8	0-150	0-150	0-125	3	180°F	•	10.1/F	8210G033	217.00	302334	141.00	238610-032-D	71.00
1/2	5/8	0-150	0-150	0-125	4	180°F	•	10.1/F	8210G034	217.00	302334	141.00	238610-032-D	71.00
3/4	3/4	0-150	0-150	0-125	5.5	180°F	•	10.1/F	8210G035	217.00	302335	139.00	238610-032-D	71.00
3/4	3/4	5-250	5-200	5-200	6.5	180°F	•	15.4/F	8210G013	270.00	302336	119.00	272610-032-D	139.00
1	1	0-125	0-125	0-125	13	180°F	•	20/F	8210B057**	639.00	302337	282.00	099257-005-D	124.00
1	1	5-150	5-150	5-125	13	180°F	•	15.4/F	8210G014	312.00	302338	129.00	272610-032-D	139.00
1 1/4	1 1/8	0-125	0-125	0-125	15	180°F	•	20/F	8210B058**	639.00	302339	372.00	099257-005-D	124.00
1 1/4	1 1/8	5-150	5-150	5-125	15	180°F	•	15.4/F	8210G018	359.00	302338	129.00	272610-032-D	139.00
1 1/2	1 1/4	0-125	0-125	0-125	22.5	180°F	•	20/F	8210B059**	809.00	302340	306.00	099257-005-D	124.00
1 1/2	1 1/4	5-150	5-150	5-125	22.5	180°F	•	15.4/F	8210G032	475.00	302341	156.00	272610-032-D	139.00
2	1 3/4	5-125	5-125	5-125	43	180°F	•	15.4/F	8210G103	805.00	304361	338.00	272610-032-D	139.00

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

① The 8210G27 has a Teflon main disk.

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers

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 (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	5 8210G093HW	\$144.00	1 302306	\$103.00	1 238610-032-D	\$71.00
3/8	5/8	5-125		3	210°F	•	6.1/F	5 8210G001HW	126.00	1 302305	93.00	1 238210-032-D	63.00
1/2	5/8	0-100		4	210°F	•	10.1/F	1 8210G094HW	144.00	1 302306	103.00	1 238610-032-D	71.00
1/2	5/8	5-125		4	210°F	•	6.1/F	1 8210G002HW	126.00	1 302305	93.00	1 238210-032-D	63.00
3/4	3/4	0-100		5	210°F	•	10.1/F	5 8210G095HW	156.00	5 302308	103.00	1 238610-032-D	71.00
3/4	3/4	5-125		5	210°F	•	6.1/F	5 8210G009HW	142.00	1 302307	93.00	1 238210-032-D	63.00

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	5 8263G300	\$135.00	5 302037	\$65.00	1 238810-032-D	\$141.00
3/8	5/32	0-110	0-110	0.52	344	210	•	10.1/H	5 8263G305	148.00	5 302037	65.00	1 238810-032-D	141.00
1/2	1/2	5-50	5-150	4.7	300	210	•	10.1/F	8220G404	151.00	323482	117.00	1 238610-032-D	71.00
1/2	1/2	5-125	5-150	4.7	353	210	•	10.1/H	8220G406	206.00	323468	129.00	1 238810-032-D	141.00
3/4	3/4	5-50	5-150	8.8	300	210	•	10.1/F	8220G407	158.00	323480	122.00	1 238610-032-D	71.00
3/4	3/4	5-125	5-150	8.8	353	210	•	10.1/H	8220G409	264.00	323471	150.00	1 238810-032-D	141.00
1	1	5-50	5-150	11.5	300	210	•	10.1/F	8220G410	349.00	323478	273.00	1 238610-032-D	71.00
1	1	5-125	5-150	11.5	353	210	•	10.1/H	8220G411	532.00	323479	227.00	1 238810-032-D	141.00
1 1/4	1 1/8	5-50	5-150	15	300	210	•	10.1/F	5 8220G009	354.00	5 304394	157.00	1 238610-032-D	71.00
1 1/4	1 1/8	5-125	5-150	15	353	210	•	10.1/H	5 8220G027	609.00	1 304392	227.00	1 238810-032-D	141.00
1 1/2	1 1/4	5-50	5-150	22.5	300	210	•	10.1/F	5 8220G011	460.00	5 304395	206.00	1 238610-032-D	71.00
1 1/2	1 1/4	5-125	5-150	22.5	353	210	•	10.1/H	5 8220G029	788.00	5 304393	279.00	1 238810-032-D	141.00
2	1 3/4	5-125	5-150	43	353	210	•	10.1/H	1 8220G031	1027.00	5 306807	363.00	1 238810-032-D	141.00

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers

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)
- Easy installation and mounting — 5mm tapped holes on body provide quick, easy mounting on any flat surface



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.

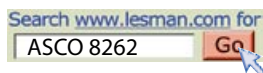
Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight.

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.

Specifications



Model Selection Guide

(Other sizes available. Please Call.)

Pipe 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	\$50.00	323581	\$35.00	238210-032-D	\$63.00	
1/8	3/32	370	330	190	0.20	180°F	°	6.1/F	8262H014	46.00	323581	35.00	238210-032-D	63.00	
1/8	1/8	185	180	120	0.34	180°F	°	6.1/F	8262H002	45.00	323581	35.00	238210-032-D	63.00	
1/4	3/64	750	750	725	0.06	180°F	°	6.1/F	8262H019	60.00	323581	35.00	238210-032-D	63.00	
1/4	1/8	185	180	90	0.35	180°F	°	6.1/F	8262H022	53.00	323581	35.00	238210-032-D	63.00	
1/4	1/8	340	300	215	0.35	180°F	°	10.1/F	8262H232	65.00	323593	98.00	238610-032-D	71.00	
1/4	5/32	210	200	145	0.50	180°F	°	10.1/F	8262H202	62.00	323593	98.00	238610-032-D	71.00	
1/4	7/32	100	100	100	0.72	180°F	°	10.1/F	8262H208	65.00	323593	98.00	238610-032-D	71.00	
1/4	7/32	55	54	40	0.85	180°F	°	6.1/F	8262H013	54.00	323581	35.00	238210-032-D	63.00	
1/4	9/32	65	75	60	0.88	180°F	°	10.1/F	8262H210	62.00	323593	98.00	238610-032-D	71.00	
1/4	9/32	90	90	90	0.88	180°F	°	17.1/F	8262H212	81.00	323593	98.00	238610-132-D	87.00	
3/8	1/8	185	180	90	0.35	180°F	°	6.1/F	8263H002	91.00	323581	35.00	238210-032-D	63.00	
3/8	5/32	210	185	100	0.52	180°F	°	10.1/F	8263H200	99.00	323593	98.00	238610-032-D	71.00	
3/8	7/32	125	100	100	0.72	180°F	°	17.1/F	8263H206	111.00	323593	98.00	238610-132-D	87.00	
3/8	9/32	100	85	70	0.85	180°F	°	17.1/F	8263H210	139.00	323593	98.00	238610-132-D	87.00	
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	88.00	323583	62.00	238210-032-D	63.00	
1/4	3/32	370	330	160	0.17	180°F	°	6.1/F	8262H086	88.00	323583	62.00	238210-032-D	63.00	
1/4	5/32	210	200	145	0.50	180°F	°	10.1/F	8262H220	92.00	323595	65.00	238610-032-D	71.00	
1/4	7/32	100	100	100	0.72	180°F	°	10.1/F	8262H226	92.00	323595	65.00	238610-032-D	71.00	
1/4	9/32	90	90	90	0.88	180°F	°	17.1/F	8262H230	121.00	323595	65.00	238610-132-D	87.00	
Brass Body, NBR Disc, 120 VAC/60 Hz: Normally Open (Open when de-energized)															
* Standard disk on these valves is made of Urethane															
1/8	1/8	125	100	85	0.21	180°F	•	6.1/F	8262G031	84.00	302041	52.00	238210-032-D	63.00	
1/4	3/64	750	700	700	0.06	140°F	•	10.1/F	8262G260*	98.00	302045	122.00	238610-032-D	71.00	
1/4	3/32	300	250	250	0.17	140°F	•	10.1/F	8262G261*	98.00	302045	122.00	238610-032-D	71.00	
1/4	1/8	130	110	100	0.35	180°F	•	10.1/F	8262G262	98.00	302051	130.00	238610-032-D	71.00	
1/4	5/32	85	75	60	0.49	180°F	•	10.1/F	8262G263	98.00	302051	130.00	238610-032-D	71.00	
1/4	7/32	45	45	40	0.83	180°F	•	10.1/F	8262G264	98.00	302051	130.00	238610-032-D	71.00	
1/4	9/32	30	25	20	0.96	180°F	•	10.1/F	8262G265	98.00	302051	130.00	238610-032-D	71.00	

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
- Manual operator option for easy setup and testing

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 11 mm, 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... Obsolete Model	Solenoid Valve		Replacement Coil	
		Air/Inert Gas	Water	Lt. Oil 300SSU					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	\$35.00	⑤ 400115-225-D	\$34.00
1/8	1/16	400	390	230	0.08	180°F	6.3/F	8225B002V	U8256A002V	35.00	⑤ 400115-225-D	34.00
1/8	3/32	180	180	105	0.15	180°F	6.3/F	8225B003V	U8256A004V	35.00	⑤ 400115-225-D	34.00
1/8	7/64	135	126	80	0.19	180°F	6.3/F	8225B004V	⑤ U8256B045V	35.00	⑤ 400115-225-D	34.00
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	45.00	⑤ 400115-225-D	34.00
1/8	1/16	140	140	150	0.09	180°F	6.3/F	8325B006V	U8356A002V	45.00	⑤ 400115-225-D	34.00
1/8	3/32	75	72	77	0.13	180°F	6.3/F	8325B007V	U8356A004V	45.00	⑤ 400115-225-D	34.00
1/8	7/64	70	61	72	0.15	180°F	6.3/F	8325B008V	U8356B045V	45.00	⑤ 400115-225-D	34.00
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	45.00	⑤ 400115-225-D	34.00
1/8	1/16	165	180	175	0.09	180°F	6.3/F	8325B010V	U8356A006V	45.00	⑤ 400115-225-D	34.00
1/8	3/32	160	175	120	0.13	180°F	6.3/F	8325B011V	U8356A008V	45.00	⑤ 400115-225-D	34.00
1/8	7/64	148	180	99	0.15	180°F	6.3/F	8325B012V	U8356B054V	45.00	⑤ 400115-225-D	34.00
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	45.00	⑤ 400115-225-D	34.00
1/8	1/16	72	72	72	0.09	180°F	6.3/F	8325B002V	U8356A010V	45.00	⑤ 400115-225-D	34.00
1/8	3/32	36	33	40	0.13	180°F	6.3/F	8325B003V	U8356A012V	45.00	⑤ 400115-225-D	34.00
1/8	7/64	45	32	27	0.15	180°F	6.3/F	8325B004V	U8356B047V	45.00	⑤ 400115-225-D	34.00
Options and Accessories		Specify a Class F high temperature DIN-type connector (replaces leaded coil connector) Add a screw-type manual operator and tool 1/2" NPT conduit hub kit for leaded coils (10 each: threaded hub, gasket, and attaching screw) DIN connector kit for SC coils (10 each: connector, gasket, and attaching screw) Mounting adapter kit (Two screws and plate)									Add prefix SC \$0.00 Add suffix MS 22.00 224735-001-* 55.00 226061-001-* 37.00 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.

High Pressure 2-Way Solenoid Valves 8223 Series



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 300 S.S., as listed; Seals and Discs: Teflon* and Buna-N (also Nylon on brass valves); Core Tube: 305 S.S.; Springs: 302 S.S.; Shading Coil: Copper (brass body); Silver (stainless steel body)

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 are 120 VAC, 60 Hz.

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., 8223G21.

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.

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

Approvals: CSA certified. UL listed.

Kits: Include 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 must be ordered separately.

*DuPont Co. trademark

Dimensions

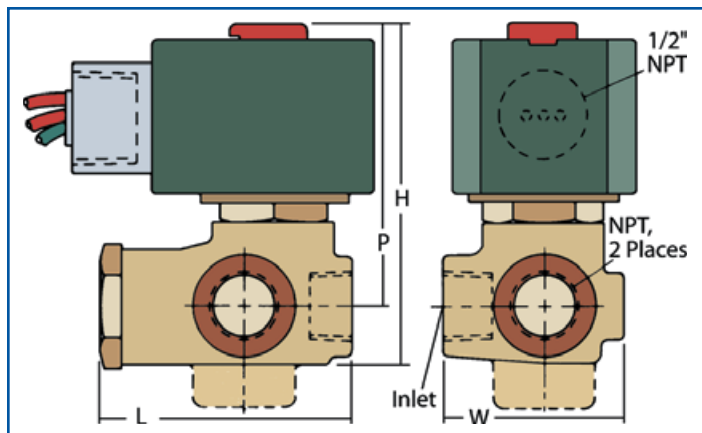
Pipe Size	H	L	P	W
1/4"	3 13/32"	2 7/16"	2 7/8"	1 31/32"
3/8"	3 13/32"	2 7/16"	2 7/8"	1 31/32"
1/2"	4 5/16"	3 1/32"	3 1/8"	1 31/32"
3/4"	5 1/32"	3 19/32"	3 5/8"	2"

Note: Valves may be mounted in any position. Inlet located at bottom for valves 8223G003 and 8223G005.



Search www.lesman.com for ASCO 8223

Don't see the solenoid valve you need? Call us toll free.
Illinois: 800-953-7626
Wisconsin: 800-837-1700



NORMALLY AVAILABLE FROM STOCK

AVAILABLE TO SHIP IN 5 WORKING DAYS OR LESS!

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	
		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)													
1/4	5/16	10-750	10-750	10-750	1.5	200°F	10.1/F	8223G021	\$178.00	302313	\$362.00	238610-032-D	\$71.00
1/4	5/16	10-1500	10-1500	10-1500	1.5	200°F	17.1/F	8223G025	234.00	302314	172.00	238610-132-D	87.00
3/8	5/16	10-750	10-750	10-750	1.5	200°F	10.1/F	8223G023	178.00	302313	362.00	238610-032-D	71.00
3/8	5/16	10-1500	10-1500	10-1500	1.5	200°F	17.1/F	8223G027	234.00	302314	172.00	238610-132-D	87.00
1/2	3/8	25-1500	25-1500	25-1500	3.2	200°F	17.1/F	8223G003	441.00	302315	344.00	238610-132-D	87.00
3/4	3/4	25-750	25-750	25-750	7.8	200°F	17.1/F	8223G005	588.00	302316	177.00	238610-132-D	87.00

Combustion Safety and Efficiency

Process Control Accessories

Pressure and Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Thermometers

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	\$200.00	310387	\$97.00	238210-032-D	\$63.00
1/2	9/16	5-150 PSI	3.5	180°F	6.1/F	8221G003	200.00	310387	97.00	238210-032-D	63.00
3/4	3/4	5-150 PSI	5.5	180°F	6.1/F	8221G005	214.00	310388	107.00	238210-032-D	63.00
1	1	5-150 PSI	11.5	180°F	6.1/F	8221G007	439.00	310420	195.00	238210-032-D	63.00
1 1/4	1 1/8	5-150 PSI	13	180°F	6.1/F	8221G009	523.00	310506	267.00	238210-032-D	63.00
1 1/2	1 1/4	5-150 PSI	24	180°F	6.1/F	8221G011	759.00	310421	311.00	238210-032-D	63.00
2	1 3/4	5-150 PSI	36	180°F	6.1/F	8221G013	918.00	310422	359.00	238210-032-D	63.00

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

The Lesman Satisfaction Guarantee

Guarantee #1

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

Guarantee #2

If you send us your order using Lesman catalog numbers (via fax, mail, e-mail, web-order, or phone), we guarantee complete error-free order processing. What you receive will match exactly what you ordered. If we deviate, bring it to our attention, and you'll receive 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.

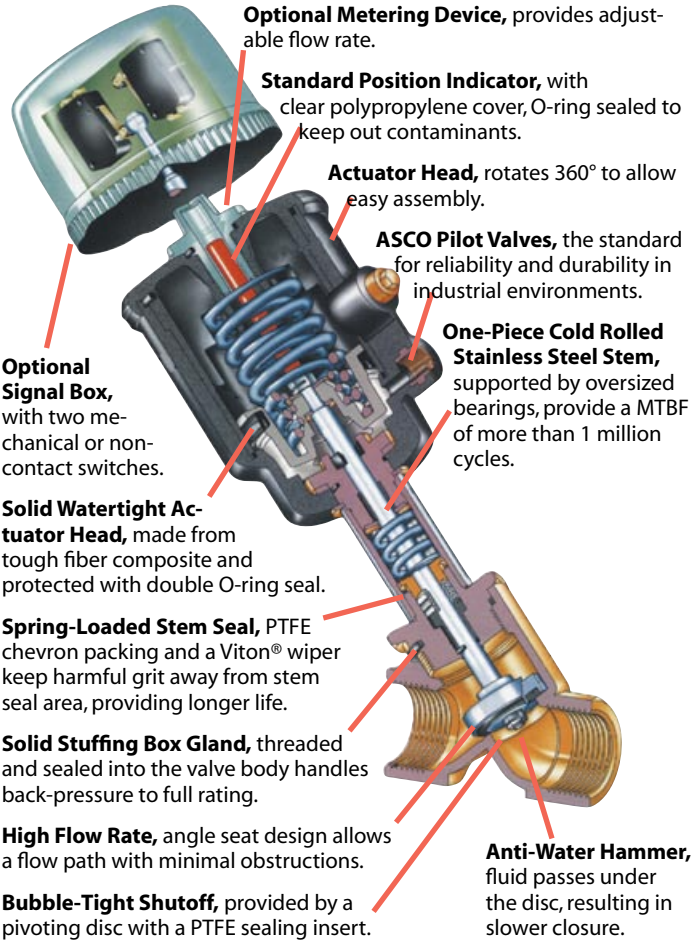


Search www.lesman.com for
ASCO 8221



Great for eliminating water hammer problems in water and light oil systems.

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.

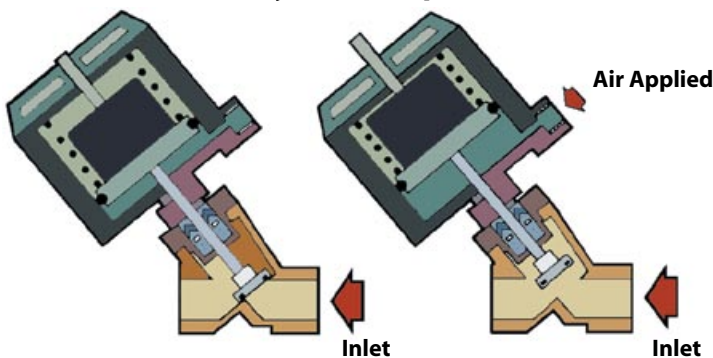


How the Piston Valve Works

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.

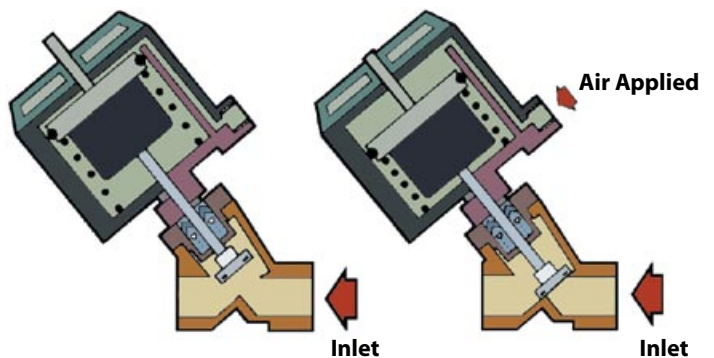
The pressure required for the pilot valve can be between 60 and 100 PSI. Piston valve must be specified as normally open or closed. For a 1/8" NPT three-way solenoid valve, we suggest ASCO's U8325A1V (order separately).

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+FV)

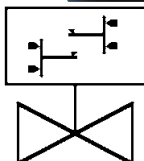


Valve Positioner Indicator Signalling Unit

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 polymethylmentine cover.

Kit Number: 88529001
Price: \$339.00

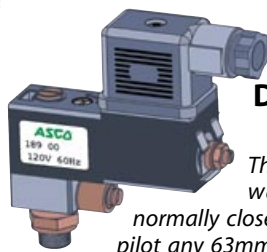


Call for Optional Materials, Low Pressures, or Adapter Plates!

Model Selection Guide

Size (In.)		Max. Pressure (PSI)		Cv Flow Factor	Catalog Number* and Price (by Material)			
Pipe	Orifice	Fluid	Steam		Bronze		316L S.S.	
50mm Head — Normally Closed (Entry Under Disc)								
1/2	1/2	240	150	5.7	8290A384	\$170.00	8290A393	\$275.00
3/4	3/4	150	150	11	8290A385	177.00	8290A394	294.00
1	1	90	90	15	8290A386	760.00	8290A395	327.00
50mm Head — Normally Open (Entry Under Disc)								
1/2	1/2	240	150	5.6	8290A387	170.00	8290A396	275.00
3/4	3/4	240	150	11	8290A388	177.00	8290A397	287.00
1	1	240	150	19	8290A389	194.00	8290A398	327.00
50mm Head — Normally Closed (Entry Above Disc): Rapid Cycling Steam Use								
1/2	1/2	150	150	5.6	8290A390	181.00	8290A399	241.00
3/4	3/4	150	150	11	8290A391	191.00	8290A400	284.00
1	1	150	150	19	8290A392	196.00	8290A401	282.00
63mm Head — Normally Closed (Entry Under Disc)								
3/4	3/4	240	150	11	8290B005	212.00	8290B048	347.00
1	1	150	150	19	8290B010	223.00	8290B053	419.00
1 1/4	1 1/4	90	90	25	8290A016	314.00	8290A059	591.00
1 1/2	1 1/2	60	60	45	8290A020	339.00	8290A063	707.00
2	2	40	40	63	8290A024	392.00	8290A067	743.00
63mm Head — Normally Open (Entry Under Disc)								
3/4	3/4	240	150	11	8290B027	212.00	8290B070	347.00
1	1	240	150	19	8290B028	223.00	8290B071	314.00
1 1/4	1 1/4	240	150	25	8290A030	314.00	8290A073	663.00
1 1/2	1 1/2	160	150	45	8290A032	339.00	8290A075	704.00
2	2	105	105	63	8290A034	392.00	8290A077	743.00
63mm Head — Normally Closed (Entry Above Disc): Rapid Cycling Steam Use								
3/4	3/4	150	150	11	8290B037	225.00	8290B080	373.00
1	1	150	150	19	8290B038	238.00	8290B081	446.00
90mm Head — Normally Closed (Entry Under Disc)								
1	1	240	150	19	8290B011	339.00	8290B054	557.00
1 1/4	1 1/4	180	150	25	8290A017	445.00	8290A060	718.00
1 1/2	1 1/2	120	120	45	8290A021	469.00	8290A064	834.00
2	2	90	90	63	8290A025	498.00	8290A068	891.00
90mm Head — Normally Open (Entry Under Disc)								
1	1	240	150	19	8290B029	297.00	8290B072	645.00
1 1/4	1 1/4	240	150	25	8290A031	445.00	8290A074	794.00
1 1/2	1 1/2	240	150	45	8290A033	469.00	8290A076	834.00
2	2	90	150	63	8290A035	495.00	8290A078	891.00

* 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.



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: \$238.00

Model Selection Guide

Size (In.)		Cv Flow Factor		Max. Press.	Catalog Number (by Voltage)		Price Each
Pipe	Orifice	1–2	2–3		24 VDC		
Direct Mount Pilot Valve — Speed Control on Port 3							
1/8	1/16	0.04	0.06	150 PSI	18900049-24/DC	82900049-120/60	\$111.25
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	97.50

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.

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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	\$107.00	314450	\$82.00		
1 1/2	1 1/2	15	125	35	180°F	17.1/F	8353G001	308.00	300144	221.00		
2	2	15	125	60	180°F	17.1/F	8353G002	369.00	300145	253.00		
Remote Pilot Construction (Minimum Pilot Valve Orifice Size 1/8")												
3/4	3/4	5	125	10.5	180°F	—	L 8353C033	60.00	L 096875	43.00	S 238864	\$372.00
3/4	3/4	5	125	10.5	180°F	—	S 8353C030	74.00	L 096875	43.00	S 238864	372.00
3/4	3/4	5	125	10.5	180°F	—	S 8353C004	69.00	L 096875	43.00	S 238864	372.00
1	1 1/8	5	125	20	140°F	—	S 8353C035	70.00	L 200262	48.00	S 238866	372.00
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	S 8262H002	45.00	S 302014	45.00		
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	S PSF8262C002	117.00	S 302014	45.00		
Normally Closed (Closed when de-energized) Nylon Body (Voltage: 120/60)												
1/4	1/8	0	125	0.3	180°F	24.9/B	S USM8260100	135.00				
1/4	1/8	0	125	0.3	180°F	24.9/B	S USM8260101	135.00				



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Thermometers

8262/8263 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.

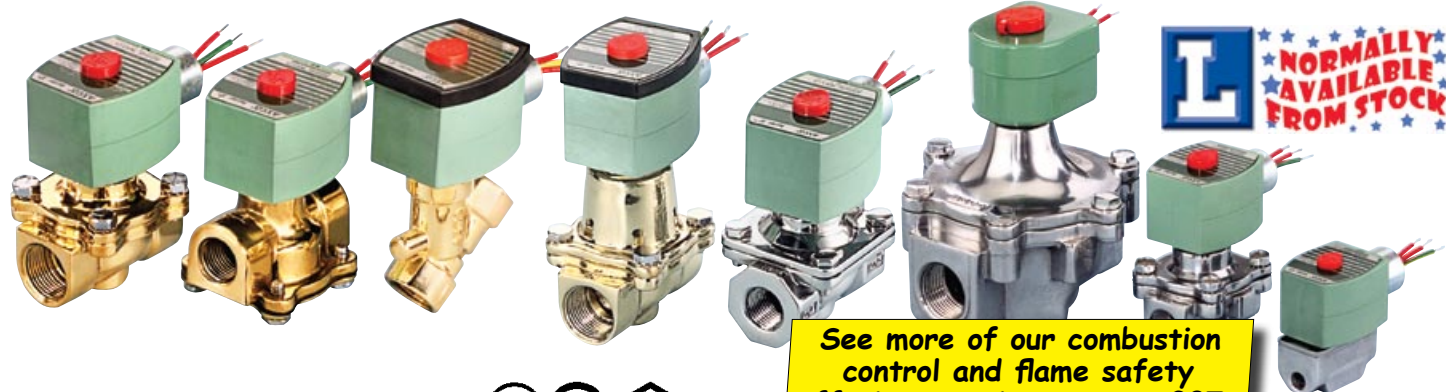
Search www.lesman.com for ASCO 8262



Model Selection Guide

Pipe 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	\$61.00	302014V	\$59.00	238210-132-D	\$78.00
1/8	1/8	0-190	0-140	0.34	180°F	°	°	6.1/F	8262H002V	49.00	302014V	59.00	238210-032-D	63.00
1/4	7/32	0-100	0-100	0.85	200°F	°	°	17.1/F	8262H208V	69.00	304354V	44.00	238610-032-D	71.00
		#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	260.00	304097V	368.00	099257-001-D	93.00
3/8	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D023V	260.00	304099V	309.00	099257-001-D	93.00
1/2	1/8	0-400	0-350	0.34	250°F	°	°	15.4/F	8266D047V	271.00	304097V	368.00	099257-001-D	93.00
1/2	3/16	0-200	0-175	0.68	250°F	°	°	15.4/F	8266D053V	271.00	304098V	340.00	099257-001-D	93.00
1/2	3/16	0-300	0-250	0.68	225°F	°	°	20/F	8266D057V	296.00	304098V	340.00	099257-001-D	93.00
1/2	13/64	0-170	0-140	0.78	250°F	°	°	15.4/F	8266D061V	271.00	304100V	322.00	099257-001-D	93.00
1/2	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D069V	271.00	304099V	309.00	099257-001-D	93.00
1/2	5/16	0-70	0-70	1.8	250°F	°	°	15.4/F	8266D077V	271.00	304101V	322.00	099257-001-D	93.00
1/2	3/8	0-40	0-35	2.5	250°F	°	°	15.4/F	8266D085V	271.00	304102V	339.00	099257-001-D	93.00
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	329.00	304103V	309.00	099257-001-D	93.00
3/8	1/4	0-90	0-75	1.2	250°F	°	—	15.4/F	8266D123V	329.00	304106V	340.00	099257-001-D	93.00
1/2	3/16	0-160	0-150	0.68	250°F	°	—	15.4/F	8266D153V	330.00	304104V	278.00	099257-001-D	93.00
1/2	13/64	0-130	0-125	0.78	250°F	°	—	15.4/F	8266D161V	330.00	304105V	350.00	099257-001-D	93.00
1/2	1/4	0-90	0-75	1.2	250°F	°	—	15.4/F	8266D169V	330.00	304106V	340.00	099257-001-D	93.00
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	1180.00	304102V	339.00	099257-001-D	93.00
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	270.00	304099L	329.00	099257-001-D	93.00
1/2	1/4	0-110	0-100	1.2	250°F	°	°	15.4/F	8266D069L	276.00	304099L	329.00	099257-001-D	93.00
1/2	5/16	0-70	0-70	1.8	250°F	°	°	15.4/F	8266D077L	281.00	304101L	329.00	099257-001-D	93.00
1/2	3/8	0-40	0-35	2.5	250°F	°	°	15.4/F	8266D085L	276.00	304102L	287.00	099257-001-D	93.00
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	335.00	304106L	299.00	099257-001-D	93.00

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	\$65.00	318247	\$68.00	238210-032-D	\$63.00
1/4"	5/16"	1.1	59,000	0	15	10.1/F	8040H007	66.00	318247	68.00	238210-032-D	63.00
3/8"	3/8"	1.8	97,000	0	15	10.1/F	8030G068	154.00	306628	107.00	238610-032-D	71.00
1/2"	7/16"	2.8	151,000	0	8	10.1/F	8030G069	157.00	306629	122.00	238610-032-D	71.00
1/2"	3/4"	5.4	291,000	0	2	10.1/F	8040G022	129.00	306633	65.00	238610-032-D	71.00
3/4"	3/4"	9.5	512,000	0	2	10.1/F	8040G023	134.00	306633	65.00	238610-032-D	71.00
1"	1-5/8"	16.8	900,000	0	0.5	15.4/F	8040C004	160.00	304079	107.00	099257-001-D	93.00
Pilot Operated Gas Shutoff Valves												
3/8"	5/8"	2.8	150,000	0	50	10.1/F	8210G074	179.00	304076	131.00	238610-032-D	71.00
3/8"	3/4"	3.4	183,000	0	50	10.1/F	8215G010	137.00	302350	107.00	238610-032-D	71.00
1/2"	5/8"	3.6	193,000	0	50	10.1/F	8210G075	179.00	304076	131.00	238610-032-D	71.00
1/2"	3/4"	4.4	238,500	0	50	10.1/F	8215G020	137.00	302350	107.00	238610-032-D	71.00
3/4"	5/8"	5.0	295,000	0	50	10.1/F	8210G076	196.00	304076	131.00	238610-032-D	71.00
3/4"	3/4"	5.1	247,500	0	50	10.1/F	8215G030	141.00	302350	107.00	238610-032-D	71.00
3/4"	1-5/8"	11	580,000	0	50	15.4/F	8215 135	250.00	302352	189.00	099257-001-D	93.00
1"	1-5/8"	21	1,119,000	0	25	15.4/F	8215B050	256.00	302352	189.00	099257-001-D	93.00
1-1/4"	1-5/8"	32	1,730,000	0	25	15.4/F	8215B060	256.00	302352	189.00	099257-001-D	93.00
1-1/2"	1-5/8"	35	1,900,000	0	25	15.4/F	8215B070	296.00	302352	189.00	099257-001-D	93.00
2"	2-3/32"	60	3,251,000	0	25	15.4/F	8215B080	435.00	302353	227.00	099257-001-D	93.00
2-1/2"	3"	117	5,821,000	0	5	28.2/F	8215A090	661.00	302354	371.00	206409-011-D	193.00
3"	3"	138	7,430,000	0	5	28.2/F	8215A040	848.00	302354	371.00	206409-011-D	193.00
Gas Shutoff Valves with Waterproof Enclosures												
3/8"	3/4"	3.4	183,000	0	5	17.1/F	8214G010	137.00	316233	162.00	238610-132-D	87.00
1/2"	3/4"	4.4	238,500	0	5	17.1/F	8214G020	137.00	316233	162.00	238610-132-D	87.00
3/4"	3/4"	5.1	247,500	0	5	17.1/F	8214G030	141.00	316233	162.00	238610-132-D	87.00

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ASCO Solenoid Valves

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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)

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	\$305.00	323499	\$251.00	099257-005-D	\$124.00	
1 1/2"	2 3/32"	45	2,406,000	0	5	20/F	8214 275	401.00	323499	251.00	099257-005-D	124.00	
2	2/32"	55	2,940,500	0	5	20/F	8214 280	476.00	323499	251.00	099257-005-D	124.00	
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	305.00	323538	251.00	272610-132-D	139.00	
1 1/2"	2 3/32"	45	2,406,000	0	5	20/F	8214G276	401.00	323538	251.00	272610-132-D	139.00	
2	2/32"	55	2,940,500	0	5	20/F	8214G281	476.00	323538	251.00	272610-132-D	139.00	
Options and Accessories				Visual indication of open and shut position (Add for FM-Approved safety shutoff valve)							Suffix VI		91.00
(For AC voltages only)				1 Amp proof of closure switch (Add for FM-Approved safety shutoff valve)							Suffix C		353.00



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.

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General Service 3-Way Solenoid Valves 8314 Series



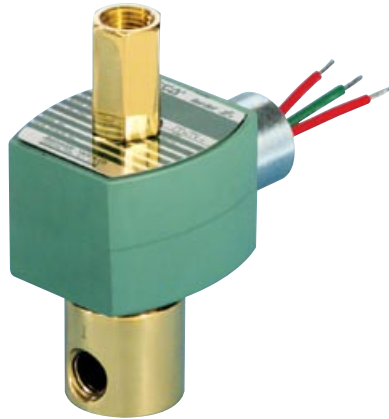
Specifications

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, 60Hz; 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.

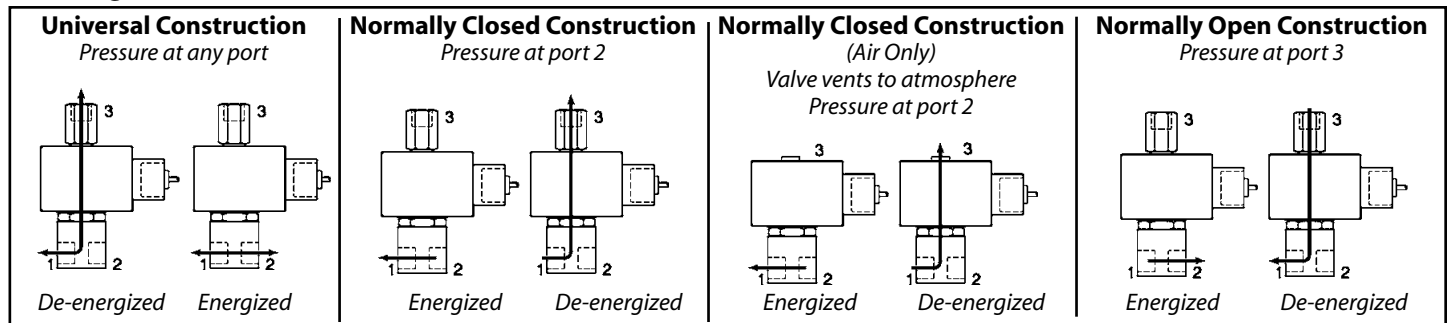
Kits: Include all internal parts that may require replacement in normal service: solenoid base subassembly, cores, resilient discs, seats, springs and all gaskets. Installation/maintenance sheets are included, to simplify installation. Replacement coils must be ordered separately.



As your authorized industrial distributor for ASCO products, the Lesman sales staff is factory-trained to help answer all your solenoid valve applications

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	8314G041	\$120.00	314476	\$90.00	238610-032-D	\$71.00
1/4	3/64	160	160	160	0.04	200°F	10.1/F	8314G006	117.00	314476	90.00	238610-032-D	71.00
1/4	3/32	80	40	40	0.15	200°F	10.1/F	8314G007	120.00	314456	102.00	238610-032-D	71.00
1/4	1/8	45	25	25	0.25	200°F	10.1/F	8314G008	131.00	314477	117.00	238610-032-D	71.00
Normally Closed (Closed when de-energized)													
1/4	1/8	75	60	60	0.25	200°F	10.1/F	8314G036	131.00	314480	102.00	238610-032-D	71.00
Normally Closed (Closed when de-energized) - Air only, Exhaust to atmosphere													
1/4	3/32	150	—	—	0.15	200°F	10.1/F	8314G023	118.00	302870	123.00	238610-032-D	71.00

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 electrical features such as open frame solenoids, junction box enclosures, panel mount constructions, call Lesman.

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. Replacement coils must be ordered separately.



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

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	L 8320G130	\$98.00	S 302084	\$67.00	S 238210-132-D	\$78.00
1/8	1/16	100	100	100	0.09	180°F	9.1/F	L 8320G001	89.00	L 302088	48.00	S 238210-132-D	78.00
1/8	3/32	50	50	50	0.12	180°F	6.1/F	S 8320G083	83.00	S 302092	48.00	L 238210-032-D	63.00
1/8	1/8	30	30	30	0.21	180°F	9.1/F	S 8320G003	92.00	S 302096	58.00	S 238210-132-D	78.00
1/4	1/16	125	130	130	0.09	200°F	10.1/F	L 8320G172	111.00	S 302114	96.00	L 238610-032-D	71.00
1/4	3/32	100	100	100	0.12	200°F	17.1/F	L 8320G174	111.00	L 302116	96.00	S 238610-132-D	87.00
1/4	1/8	50	50	50	0.25	200°F	17.1/F	L 8320G176	107.00	L 302116	96.00	S 238610-132-D	87.00
1/4	11/64	20	20	20	0.35	200°F	10.1/F	S 8320G178	115.00	S 302118	149.00	L 238610-032-D	71.00
Normally Closed (Closed when de-energized)													
1/8	3/64	200	200	200	0.06	180°F	6.1/F	L 8320G132	92.00	S 302120	53.00	L 238210-032-D	63.00
1/8	1/16	150	125	125	0.09	180°F	6.1/F	L 8320G013	79.00	S 302120	53.00	L 238210-032-D	63.00
1/8	3/32	100	100	100	0.12	180°F	6.1/F	S 8320G015	80.00	S 302120	53.00	L 238210-032-D	63.00
1/8	1/8	40	40	40	0.21	180°F	6.1/F	S 8320G017	92.00	302128	58.00	L 238210-032-D	63.00
1/4	1/16	210	225	225	0.09	200°F	17.1/F	8320G182	138.00	S 302141	78.00	S 238610-132-D	87.00
1/4	3/32	150	150	150	0.12	200°F	10.1/F	L 8320G184	111.00	S 302142	78.00	L 238610-032-D	71.00
1/4	1/8	75	85	85	0.25	200°F	10.1/F	S 8320G186	115.00	S 302143	102.00	L 238610-032-D	71.00
1/4	11/64	45	45	45	0.35	200°F	10.1/F	S 8320G188	115.00	S 302144	106.00	L 238610-032-D	71.00
Normally Open (Open when de-energized)													
1/8	3/64	200	200	200	0.06	180°F	6.1/F	L 8320G136	83.00	S 302156	53.00	L 238210-032-D	63.00
1/8	3/32	100	100	100	0.12	180°F	6.1/F	8320G029	83.00	S 302156	53.00	L 238210-032-D	63.00
1/4	1/16	235	250	250	0.09	200°F	17.1/F	L 8320G192	138.00	S 302183	88.00	S 238610-132-D	87.00
1/4	3/32	150	140	140	0.12	200°F	10.1/F	L 8320G194	111.00	S 302184	88.00	L 238610-032-D	71.00
1/4	11/64	40	40	40	0.35	200°F	10.1/F	S 8320G198	115.00	302185	121.00	L 238610-032-D	71.00

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.

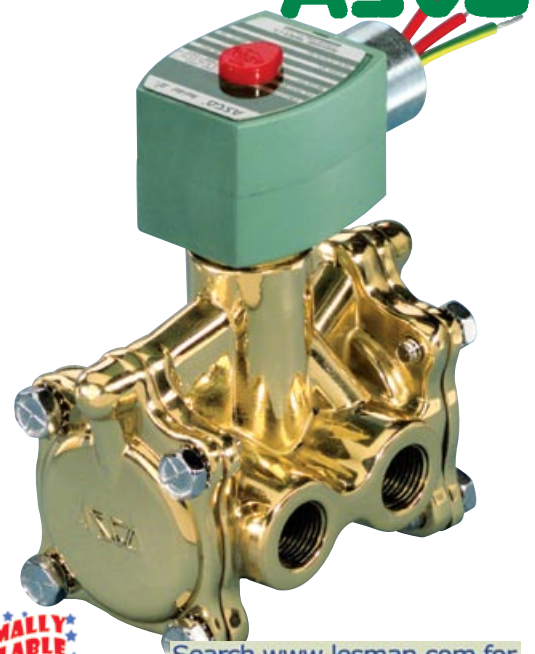
Standard Enclosures: Red-Hat II: Types 1-4, 3S, and 4X Combination General Purpose and Watertight

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



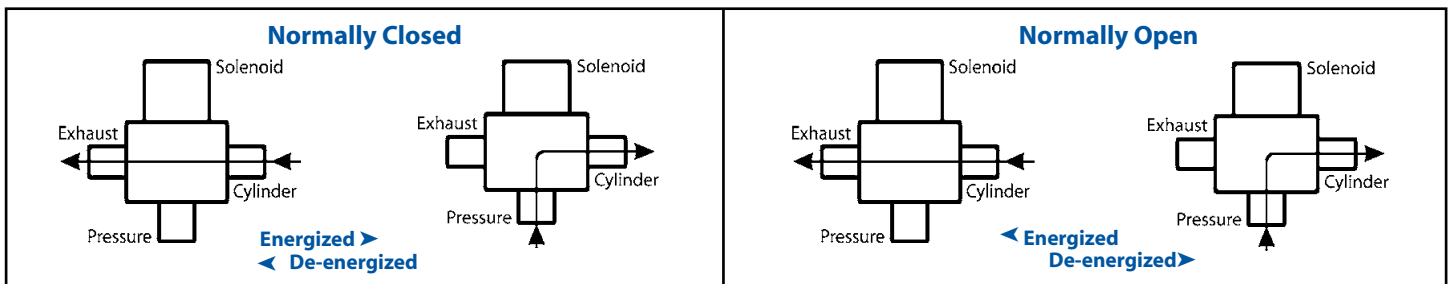
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Asco 8316

Flow Diagrams



Model Selection Guide

Brass Body – 120 volts AC / 60 Hz

(Also Available in Stainless Steel. Please Call.)

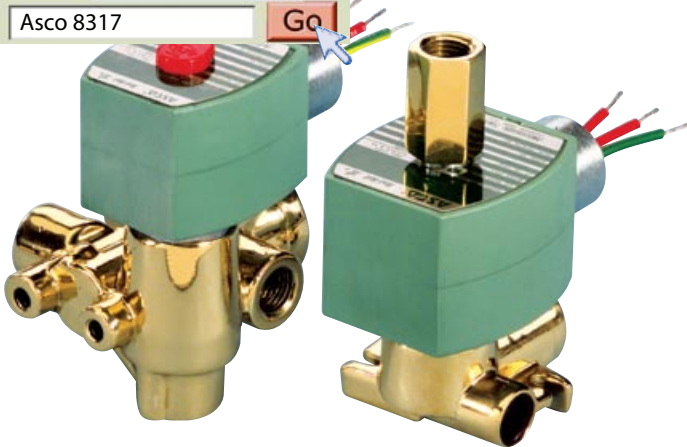
Pipe Size (In.)	Orifice Size (In.)	Operating Pressure Differential (PSI)			Cv Flow Factor	Max. Fluid Temp.	Watt Rating/ Class of Coil Insulation	Solenoid Valve		Repair Kit		Replacement Coil	
		Min. Press. Req'd.	Maximum					Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
			Air/ Inert Gas	Water									
Normally Closed (Closed when de-energized)													
3/8	5/8	10	150	125	3	180°F	6.1/F	8316G054	\$318.00	314491	\$185.00	238210-032-D	\$63.00
3/8	5/8	10	250	250	3	180°F	17.1/F	8316G014	341.00	314495	413.00	238610-132-D	87.00
1/2	5/8	10	150	125	4	180°F	6.1/F	8316G064	324.00	314491	185.00	238210-032-D	63.00
1/2	5/8	10	250	250	4	180°F	17.1/F	8316G024	373.00	314495	413.00	238610-132-D	87.00
3/4	11/16	10	150	125	5.5	180°F	6.1/F	8316G074	526.00	314491	185.00	238610-032-D	71.00
3/4	11/16	10	250	250	5.5	180°F	17.1/F	8316G044	549.00	314495	413.00	238610-132-D	87.00
1	1	10	150	125	13	180°F	6.1/F	8316G034	678.00	302661	175.00	238210-032-D	63.00
Normally Open (Open when de-energized)													
3/8	5/8	10	150	125	3	180°F	6.1/F	8316G056	319.00	314492	162.00	238210-032-D	63.00
3/8	5/8	10	250	250	3	180°F	17.1/F	8316G016	338.00	314496	192.00	238610-132-D	87.00
1/2	5/8	10	150	125	4	180°F	6.1/F	8316G066	321.00	314492	162.00	238210-032-D	63.00
1/2	5/8	10	250	250	4	180°F	17.1/F	8316G026	372.00	314496	192.00	238610-132-D	87.00
3/4	11/16	10	150	125	5.5	180°F	6.1/F	8316G076	526.00	314492	162.00	238210-032-D	63.00

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 (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	Pressure	Exhaust			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	\$162.00	314462	\$117.00	238610-032-D	\$71.00
Normally Closed (Closed when de-energized)														
1/4	3/32	5-150	5-150	5-95	0.20	0.73	180	10.1/F	8317G035	162.00	314463	80.00	238610-032-D	71.00
1/4	9/32	10-200	10-200	10-200	0.80	1.2	180	6.1/F	8321G001	295.00	302925	144.00	238210-032-D	63.00
3/8	9/32	10-200	10-200	10-200	0.80	1.2	180	6.1/F	8321G002	295.00	302925	144.00	238210-032-D	63.00
Normally Closed (Closed when de-energized) – Air only, Exhaust to atmosphere														
1/4	3/32	5-150	—	—	0.20	0.73	—	10.1/F	8317G023	157.00	302902	74.00	238610-032-D	71.00
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	162.00	314464	102.00	238610-032-D	71.00
3/4	9/32	10-200	10-200	10-200	0.80	1.2	180	6.1/F	8321G003	295.00	302927	174.00	238210-032-D	63.00
3/8	9/32	10-200	10-200	10-200	0.80	1.2	180	6.1/F	8321G004	295.00	302927	174.00	238210-032-D	63.00

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	\$111.00	400125-088-*	\$33.00
1/4"	1/4"	0.86	30	150	6.3	Watertight	WT8551A001MS	150.00	266763-902-D	78.00
1/4"	1/4"	0.86	30	150	6.3	Explosion-proof and watertight	EF8551A001MS	180.00	266762-902-D	77.00



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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	\$428.00
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	\$172.00
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	392.00
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	409.00

* Kit 266666-001 (\$8.00 each) required for use with Nelles-Jamesbury SP and SP-SR actuators

Also available For Bettis and Watts Actuators

Special Service Valves

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	WBIS8314A300	\$428.00
Stainless	1/4	1/16	0-150 PSI	0.08	WBIS8314A301	457.00
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	WBIS8317A307*	480.00
Stainless	1/4	**	10-150 PSI	3	WBIS8317A308*	597.00
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	WBIS8316A301	741.00
Brass	3/8	5/16	0-150 PSI	1.8	WBIS8316A302	741.00
Brass	1/2	5/8	10-150 PSI	4	WBIS8316A304	808.00
4-Way Intrinsically Safe Single Solenoid Valve — Brass Body with Buna-N Disc						
Brass	1/4	1/4	10-150 PSI	0.80 (1)	WBIS8344A370*	825.00
Brass	3/8	3/8	10-150 PSI	1.4 (2.2)	WBIS8344A372*	957.00
Brass	1/2	3/8	10-150 PSI	1.4 (2.2)	WBIS8344A374*	957.00

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.

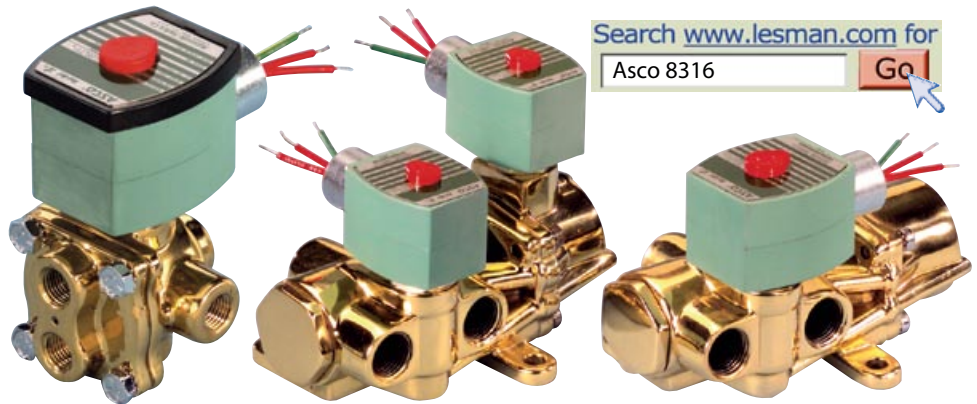
Solenoid Enclosures: 8342 Series valves have Red-Hat metal solenoid enclosures. Series 8344 valves have Red-Hat II molded epoxy solenoids and are identified by the letter G in their catalog numbers, e.g., 8344G70.

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	\$246.00	306191	\$170.00	272610-132-D	\$139.00
3/8	3/16	125	200	100	0.70	160	20/F	8342G003	253.00	306191	170.00	272610-132-D	139.00
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	404.00	306193	239.00	099257-001-D	93.00
3/8	3/16	125	125	125	0.70	160	15.4/F	8342G022	496.00	306193	239.00	099257-001-D	93.00

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	Pressure	Exhaust			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	\$474.00	302709	\$188.00	238610-032-D	\$71.00	
1/4	1/4	10-250 1	10-250 1	25-250 1	0.80	1.0	180	17.1/F	8344G000	495.00	302710	230.00	238610-132-D	87.00	
3/8	3/8	10-150	10-125	25-125	1.4	2.2	180	10.1/F	8344G072	596.00	302711	176.00	238610-032-D	71.00	
3/8	1/4	10-250 1	10-250 1	25-250 1	0.80	1.0	180	17.1/F	8344G001	495.00	302710	230.00	238610-132-D	87.00	
1/2	3/8	10-150	10-125	25-125	1.4	2.2	180	10.1/F	8344G074	596.00	302711	176.00	238610-032-D	71.00	
1/2	3/8	10-250	10-250	25-250	1.4	2.2	180	17.1/F	8344G027	655.00	302712	248.00	238610-132-D	87.00	
3/4	3/4	10-150	10-125	25-125	5.2	5.6	180	10.1/F	8344G076	1453.00	302713	210.00	238610-032-D	71.00	

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

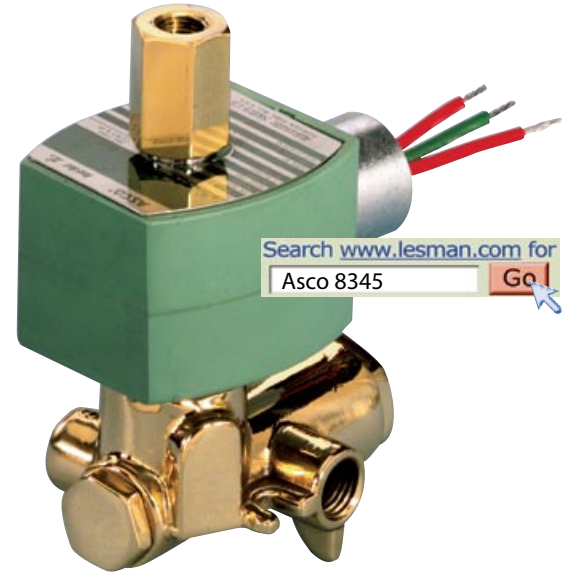
Leakage: *Liquids:* none; *Air:* slight leakage through exhaust when energized.

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.	Air/Inert Gas	Water	Light Oil 300SSU				Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each
Single Solenoid — Energize coil to change state														
1/4	1/16	10	150	150	150	0.09	180	10.1/F	8345G001	\$218.00	314453	\$95.00	238610-032-D	\$71.00
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	8345H003	236.00	302698	95.00	238610-032-D	71.00

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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)	Max. Operating Pressure Differential	Max. Fluid Temp.	Catalog Number	Price Each
		Meter	Free					
1/4"	3/8"	0.22	1.2	1 PSI	300 PSI	180° F	V022A001	\$85.00
3/8"	3/8"	0.90	1.4	1 PSI	300 PSI	180° F	⑤ V022 002	89.00
1/2"	7/16"	1.2	2.6	1 PSI	300 PSI	180° F	⑤ V022 003	101.00
3/4"	17/32"	1.6	4.0	2.5 PSI	300 PSI	180° F	V022 004	140.00

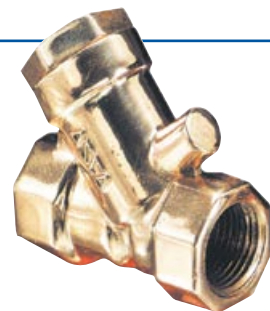
2-Way Strainers

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	④ 8600A003	\$41.00
3/8"	1.9	100 x 100	155	0.0061	400° F	750 PSI	8600A013	98.00
1/2"	2.6	100 x 100	155	0.0061	400° F	750 PSI	⑤ 8600A014	106.00
3/4"	4.7	100 x 100	155	0.0061	400° F	750 PSI	⑤ 8600A015	203.00



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	14.80
	1/4"	1.41"	0.5625"	276790-002	14.60



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.



- 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	④ 272839-001	\$96.00
Power Cord Kit	272852	11.00
DIN Connector Kit	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.

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