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Specialists in Valves, Controls, Pneumatics and Fluid Measurement





Higher DC pressure rating 80% reduction in power consumption Built-in surge suppression 3-year coil warranty Class I, Division 2 coils available







RedHat Next Generation | Electronically Enhanced Solenoid Valve Technology

RedHat Next Generation is the future of solenoid valve technology, designed and manufactured to provide new capabilities. The Next Generation of solenoid valves provides lower operating cost, and represents an advancement in the performance, reliability, and ruggedness that you have come to expect from ASCO.

Electronics technology to manage power

RedHat Next Generation values 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.

Only 2 watts of power

The new solenoid draws only 2 watts of power. A conventional solenoid with the same performance can draw as high as 17 watts of power. The savings in power usage over the installed life of the valve will lower the total cost of ownership up to 14%.

Increased DC performance

The new technology accepts both AC and DC voltages without sacrificing flow or pressure specifications. DC performance has been increased by 150% to 500% from today's industry standards, making the valves' DC characteristics equivalent to AC pressure and flow values. This simplifies your control by eliminating the need for AC output cards, reduces wiring costs, and provides safer working environments for users operating on DC.

RedHat Next Generation coils are offered in three voltage ranges covering most electrical requirements – 100-240/AC or DC, 24-99/AC or DC, or 12-24/DC. Each coil has built-in electrical surge suppression that protects the coil from

external voltage spikes and eliminates inductive voltage spikes associated with conventional solenoids. An optional solenoid is available for use in Class I, Division 2 hazardous locations.

Rugged Design

ASCO RedHat Next Generation addresses many other operating characteristics that will further improve the life of your solenoid valves. These include a much lower temperature rise, and an increase in valve ambient temperature rating to 140°F/60°C. Because of our confidence in the rugged design of the RedHat Next Generation solenoids, ASCO is pleased to extend a 3-year warranty on the coils.

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ELECTRONICALLY ENHANCED SOLENOID VALVES

- 1/2 inch female conduit
- Polyester coated aluminum conduit hub
- Enclosure Types 1 through 4X
- Now standard with 24 inch leads
- Stainless steel nameplate
- Steel clip with epoxy powder coated paint
- LCP overmolded coil
- Optional Class I, Division 2 coil available for hazardous locations



VALVE SELECTION & ORDERING

As you use this catalog to select RedHat Next Generation products, note these key operating features:

- Increase in DC pressure ratings to AC levels on all products (up to a 500% improvement)
- Lower power operation
- Voltage ranging
- Built in surge suppression
- Elimination of AC hum
- Increase in AC and DC operating temperatures
- Low solenoid temperature rise
- Longer coil life due to lower operating temperatures and electrical surge suppression
- Solenoid approvals to UL, CSA, and CE standards

How to order

Find the valve that you are looking for in the provided specifications tables. The tables contain the following information designed to help you in making your selection:

					ng Press ential (p										
Pipe	Orifice				Max. AC	/DC				Agency			Agency		Approx.
Size	Dia.	Cv		Air-Inert		Light Oil	Max Fluid	Brass	Const.		Stainless	Const.		Wattage	Shipping
(in)	(in)	Flow	Min.	Gas	Water	@ 300 SSU	Temp.°F	1	Ref.	UL	Steel	Ref.	UL	AC/DC	Weight (lbs.)
1/2	5/8			150	150			8210P094	4	0		-			3.2

① When ordering a valve product, specify the ASCO base catalog number (Ex. 8210P094). This number will always be 8 digits long.

Choose one of the three operating voltage ranges (100-240V/50-60Hz/DC, 24-99V/50-60Hz/DC or 12-24/DC) and add it to the base catalog number (Ex. 8210P094 24-99V/50-60Hz/DC).

If you want to enhance the product with one or more of the options allowed in the Optional Features Chart for that catalog number, please add the appropriate prefix or suffix (as shown):

		Solenoid Options @	Base Catal	og Number			Res	ilient N	laterial	s 3			Oth	er 3	Standard R	ebuild Kit ④
Pipe Size (in)	Orifice Dia. (in)	Class I, Division 2 Coil	Brass	Stainless Steel	NBR	FKM	EPDM	CR	Oxygen Service	PTFE	Urethane	Vacuum	Manual Operator	Mounting Bracket	Brass AC/DC	Stainless Steel AC/DC
1/2	5/8	EE	8210P094	-	•	V	E	J	N	-	-	VH	MO	MB	322670	-

2 Optional Class I, Division 2 solenoid (Ex. EE8210P094 24-99V/50-60Hz/DC)

③ If an FKM elastomer and manual operator are required, add VMO to the back of the base catalog number. (Ex, 8210P094VMO 24-99V/50-60Hz/DC)

④ When ordering a rebuild kit for a valve, supply the rebuild kit number as shown in the table. (Ex. 322670) When ordering a rebuild kit for a valve with a suffix, add the suffix to the appropriate standard rebuild kit. (Ex. The rebuild kit for the above valve with FKM is 322670-V)

All constructions are available with prefix EE for Class I, Division 2 requirements.

Solenoid Enclosures

Standard: Watertight, Types 1, 2, 3, 3S, 4, and 4X. **Optional:** Class I, Division 2 for Hazardous Locations and Watertight, Types 3, 3S, 4, 4X. (To order, add prefix "EE" to catalog number.)

When ordering a replacement coil, select from the following:

	-	
Voltage Range	Valve Prefix	Replacement Coil Part Number
100-240V/50-60Hz/DC	-	250404-601-*
24-99V/50-60Hz/DC	-	250404-602-*
12-24/DC	-	250404-603-*
100-240V/50-60Hz/DC	EE	250504-601-*
24-99V/50-60Hz/DC	EE	250504-602-*
12-24/DC	EE	250504-603-*

Marning: Improper selection or use of products and related items in this catalog can cause death, serious injury or property damage. If you need any assistance in selecting, specifying, or ordering a valve, please contact ASCO at (800) 972-2726.



2-WAY | Solenoid Valves

- Two-way (2/2) Next Generation solenoid valves have one inlet port and one outlet port.
- Control of air, water, light oil, and non-corrosive media.
- Normally closed (opens when energized) and normally open (closed when energized) operation.
- Pipe sizes 1/8 to 2 inch.

Specifications



ASC⁽⁾ RedH

			O p	erating Press	ure Differen	itial (psi)								
Pipe	Orifice				Max. AC/D	C	Max			Agency			Agency	
Size (in)	Dia. (in)	Cv Flow	Min.	Air-Inert Gas	Water	Light Oil @ 300 SSU	Fluid Temp.°F	Brass	Const. Ref.	UL	Stainless Steel	Const. Ref.	UL	Wattage AC/DC
1/8	ervice - Noi 3/64	0.06	ea O	2200	2200	1700	140	I	-	-	8262R175 (5)	1	•	2
1/8	3/64	0.06	0	1500	1500	1500	140	- 8262R099 (5)	- 1	•	0202h175 @	-		2
1/8	3/32	0.00	0	720	410	410	140	8262R277	1	0	8262R178	1	0	2
	3/32	0.21	0	540	-		180		1			1		
1/8					395	360		8262R105		0	8262R174		0	2
1/8	1/8	0.35	0	200	-	-	167	8262R077 6	1	0	-	-	-	2
1/4	3/64	0.06	0	1500	1500	1500	140	8262R107 (5)	2	•	-	-	-	2
1/4	3/64	0.06	0	2200	2200	1700	140	-	-	-	8262R181 (5)	2	٠	2
1/4	3/32	0.21	0	720	410	410	180	8262R109	2	0	8262R183	2	0	2
1/4	1/8	0.35	0	540	395	360	180	8262R232	2	0	8262R185	2	0	2
1/4	5/32	0.52	0	300	225	225	180	8262R202	2	0	8262R220	2	0	2
1/4	7/32	0.73	0	125	125	125	180	8262R208	2	0	8262R226	2	0	2
1/4	9/32	0.88	0	105	105	105	180	8262R212	2	0	8262R230	2	0	2
1/4	9/32	1.0	0	50	-	-	167	8262R078 ©	2	0	-	-	-	2
1/4	5/16	1.5	10	1500	1500	1500	180	8223P025	18	-	-	-	-	2
3/8	1/8	0.35	0	540	395	360	180	8263R115	3	0	8263R191	3	0	2
3/8	5/32	0.52	0	300	225	225	180	8263R200	3	0	8263R193	3	0	2
3/8	7/32	0.32	0	125	125	125	180	8263R124	3	0	8263R332	3	0	2
3/8	9/32	0.73	0	125	85	85	180	8263R210	3			3		2
										0	8263R333		0	
3/8	5/16	1.5	10	1500	1500	1500	180	8223P027	18	-	-	-	-	2
3/8	5/8	3	0	150	150	-	180	8210P093	4	0	-	-	-	2
3/8	5/8	3	5	300	300	300	180	8210P006	4	•	-	-	-	2
1/2	3/8	3.2	25	1500	1500	1500	180	8223P003	5	-	8223P010	6	-	2
1/2	5/8	4	0	150	150	-	180	8210P094	4	0	-	-	-	2
1/2	5/8	4	0	150	150	125	180	-	-	-	8210P087	7	•	2
1/2	5/8	4	5	300	300	300	180	8210P007	4	0	-	-	-	2
3/4	5/8	4.5	0	150	150	125	180	-	-	-	8210P088	7	•	2
3/4	3/4	5	0	150	150	-	180	8210P095	7	0	-	-	-	2
3/4	3/4	5	0	3	3	-	180	8030P003	8	0	-	-	-	2
3/4	3/4	7.8	25	750	750	750	180	8223P005	9	-	-	-		2
1	1	13	5	150	150	100	180	8210P004	10	0	-	-	-	2
1 1/4	1 1/8	15	5	150	150	100	180	8210P008	10	0	-	-		2
		22.5			150		180				-	-	-	
1 1/2	1 1/4		5	150		100		8210P022	11	0				2
2	1 3/4	43	5	150	125	90	180	8210P100	12	•	-	-	-	2
	ervice - Noi									1	1			
1/8	3/64	0.06	0	1150	900	800	140	8262R155 (\$	13	•	8262R168 (5)	13	•	2
1/8	3/64	0.06	0	750	750	750	180	8262R156	13	•	8262R169	13	•	2
1/8	3/32	0.21	0	275	230	180	180	8262R128	13	•	8262R236	13	•	2
1/8	1/8	0.35	0	160	145	125	180	8262R129	13	٠	8262R237	13	٠	2
1/4	3/64	0.06	0	1150	900	800	140	8262R161 (5)	14	•	8262R199 (5)	14	٠	2
1/4	3/64	0.06	0	750	750	750	180	8262R260	14	•	8262R130	14	٠	2
1/4	3/32	0.21	0	275	230	180	180	8262R261	14	•	8262R134	14	•	2
1/4	1/8	0.35	0	160	145	125	180	8262R262	14	•	8262R138	14	•	2
1/4	5/32	0.54	0	90	90	70	180	8262R263	14	•	8262R142	14	•	2
1/4	7/32	0.83	0	45	45	40	180	8262R264	14	•	8262R148	14	•	2
1/4	9/32	0.96	0	30	30	30	180	8262R265	14	•	8262R152	14	•	2
3/8	1/8	0.35	0	160	145	125	180	8263R070	14	•	8263R080	14	•	2
	5/32	0.35	0		-	70	180			•			•	
3/8				90	90			8263R071	18	-	8263R081	18	-	2
3/8	7/32	0.83	0	45	45	40	180	8263R072	18	•	8263R082	18	•	2
3/8	9/32	0.96	0	30	30	30	180	8263R073	18	•	8263R083	18	•	2
3/8	5/8	3	0	150	150	125	180	8210P033	15	•	-	-	-	-
1/2	5/8	4	0	150	150	125	180	8210P034	15	•	-	-	-	-
3/4	3/4	5.5	0	150	150	125	180	8210P035	16	•	-	-	-	-
3/4	3/4	5.5	0	2	2	-	180	8030P083	17	•	-	-	-	-
0/7														

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2-WAY | Solenoid Valves



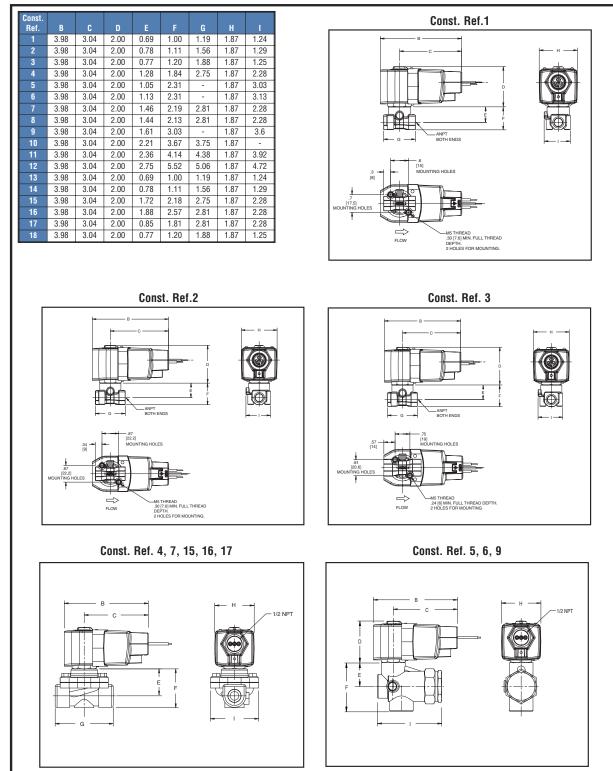
		Base Catal	og Number				Re	silient	Materi	als an	d Suffi	x Optio	ns			Ot	her	Standard I	Rebuild Kit
Pipe Size (in)	Orifice Dia. (in)	Brass	Stainless Steel	Ammonia @	Silicone Free	Dry Air	NBR	LT NBR	FKM	EPDM	CR	Oxygen Service	PTFE @	Urethane	Vacuum	Manual Operator	Mounting Bracket	Brass AC/DC	Stainless Steel AC/DC
1/8	3/64	8262R099 (5)	8262R175 (5)	-	SF	-	-	-	-	-	-	-	-	•	-	-	MB	323593-W	323595-W
1/8	3/64	8262R155 (5)	8262R168 (5)	-	SF	-	-	-		-	-	-	- -	•	-	-	MB	323986-W	323988-W
1/8	3/64	8262R156 8262R277	8262R169 8262R178	NH	SF	-	•	A	V	E	J	N	T	-	-	MS	MB MB	323986 323593	323988 323595
1/8	3/32	8262R277 8262R128		NH	SF	-	•	A	V	E	J	N	T	-	-	MS MS	MB	323593 323987	
1/8 1/8	3/32 1/8	8262R128 8262R105	8262R236 8262R174	NH	SF SF	-	•	A	V	E	J	N	T	-	- VH	MS	MB	323987 323593	323989 323595
1/8	1/8	8262R077 6	0202K174	-	SF	-	•	A	V	-	J	IN		-	VΠ	IVIS	MB	323593	323395
1/8	1/8	8262R129	- 8262R237	- NH	SF	-	•	A	V	E	J	N	T	-	- VH	MS	MB	323039	323989
1/0	3/64	8262R107 (5)	8262R181 (5)	-	-	-		-	- V	-	-	-	-	•	-	-	MB	323593-W	323595-W
1/4	3/64	8262R161 (5)	8262R199 (5)	-	SF	-	-	-	-	-	-	-	-	•	-	-	MB	323986-W	323988-W
1/4	3/64	8262R260	8262R130	NH	SF	-	•	A	v	E	J	N	Т	-	-	MS	MB	323986	323988
1/4	3/32	8262R109	8262R183	NH	SF	Р	•	A	v	E	J	N	Ť	-	-	MS	MB	323593	323595
1/4	3/32	8262R261	8262R134	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
1/4	1/8	8262R232	8262R184	NH	SF	Р	•	A	v	E	J	N	Ť	-	-	MS	MB	323593	323595
1/4	1/8	8262R262	8262R138	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
1/4	5/32	8262R202	8262R220	NH	SF	Р	•	A	v	E	J	N	Ť	-	-	MS	MB	323593	323595
1/4	5/32	8262R263	8262R142	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
1/4	7/32	8262R208	8262R226	NH	SF	Р	•	A	v	E	J	N	Ť	-	-	MS	MB	323593	323595
1/4	7/32	8262R264	8262R148	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
1/4	9/32	8262R212	8262R230	NH	SF	Р	•	A	v	E	J	N	T	-	VH	MS	MB	323593	323595
1/4	9/32	8262R265	8262R152	NH	SF	-	•	A	v	E	J	N	T	-	VH	MS	MB	323987	323989
1/4	9/32	8262R078 ©	-	-	SF	-		•	-	-	-	-	-	-	-	-	MB	325039	-
1/4	5/16	8223P025 ④	-	-	-	-	•	A	-	-	-	-	-	-	-	-	-	322815	-
3/8	1/8	8263R115	8263R191	NH	SF	-	•	A	V	E	J	N	Т	-	-	MS	MB	323593	323595
3/8	1/8	8263R070	8263R080	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
3/8	5/32	8263R200	8263R193	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323593	323595
3/8	5/32	8263R071	8263R081	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323987	323989
3/8	7/32	8263R124	8263R332	NH	SF	-	•	A	v	E	J	N	T	-	-	MS	MB	323593	323595
3/8	7/32	8263R072	8263R082	NH	SF	-	•	A	V	E	J	N	T	-	-	MS	MB	323987	323989
3/8	9/32	8263R210	8263R333	NH	SF	-	•	Α	V	E	J	N	T	-	-	MS	MB	323593	323595
3/8	9/32	8263R073	8263R083	NH	SF	-	•	Α	V	E	J	N	Т	-	-	MS	MB	323987	323989
3/8	5/16	8223P027 ④	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	322815	-
3/8	5/8	8210P093	-	-	-	-	•	-	V	E	J	N	-	-	VH	MO	MB	322670	-
3/8	5/8	8210P033	-	-	-	-	•	-	V	E	J	N	-	-	VH	-	MB	322770	-
3/8	5/8	8210P006	-	-	-	-	•	-	V	E	J	Ν	-	-	-	MO	MB	322654	-
1/2	3/8	8223P003 ④	8223P010 ①	-	-	-	•	-	-	-	-	-	-	-	-	-	-	322816	322817
1/2	5/8	8210P094	-	-	-	-	•	-	V	E	J	Ν	-	-	VH	MO	MB	322670	-
1/2	5/8	8210P034	-	-	-	-	٠	-	V	E	J	Ν	-	-	VH	-	MB	322770	-
1/2	5/8	-	8210P087	-	-	-	•	-	V	E	J	Ν	-	-	-	MO	MB	-	322676
1/2	5/8	8210P007	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO 3	MB	322654	-
3/4	5/8	-	8210P088	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	MB	-	322676
3/4	3/4	8210P095	-	-	-	-	٠	-	V	E	J	Ν	-	-	VH	MO	MB	322673	-
3/4	3/4	8030P003	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	MB	322758	-
3/4	3/4	8210P035	-	-	-	-	٠	-	V	E	J	Ν	-	-	VH	-	MB	322771	-
3/4	3/4	8030P083	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	-	MB	322763	-
3/4	3/4	8223P005 ④	-	-	-	-	٠	-	-	-	-	-	-	-	-	-	-	322818	-
1	1	8210P004	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	-	322677	-
1 1/4	1 1/8	8210P008	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	-	322680	-
1 1/2	1 1/4	8210P022	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	-	322680	-
2	1 3/4	8210P100	-	-	-	-	٠	-	V	E	J	Ν	-	-	-	MO	-	322682	-
 Valve c Cast UF for 826 	ontains PTF R disc supp 2R077 is 1	options may be avai FE main disc; ② Pres lied as standard, lim 8,700 Btu/hr, for 820 ilable for Stainless S	ssure rating reduced hits min. ambient ter 62R078 53,500 Btu/	by 259 np. to 3	%; ③ P 32°F (0°	ressure C). © I	e ratinç Fuel ga	g limite Is servi	d to 25 ce only	0 psi; 0 ; Ambi	④ Valve ent Ter	e conta np40	ins Nyl °F to 14	on 11 µ 40°F, Fli	uid Temp40			acity	

2-WAY | Solenoid Valves





Dimensions: inches

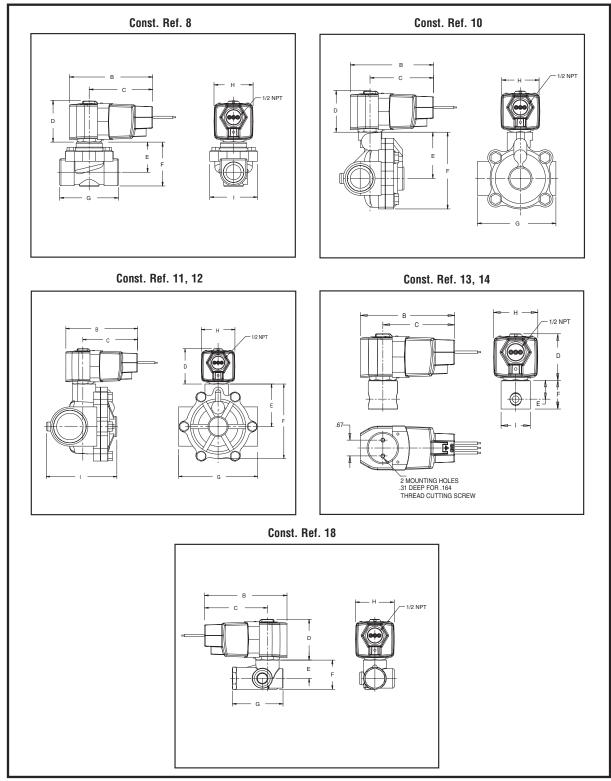






2-WAY | Solenoid Valves

Dimensions: inches



3-WAY | Solenoid Valves

- Three-way (3/2) Next Generation solenoid valves have three ports and two orifices. When one orifice is open, the other is closed.
- Control of air, water, light oil, and other non-corrosive media.
- Normally closed (pressure to cylinder port when energized) operation.
- Normally open (cylinder port exhausts when energized) operation.
- Universal operation (can function as normally open, normally closed, diverter of fluid flow, or selector of 2 fluid sources configurable by piping).
- Pipe sizes 1/4 to 3/4 inch.

Specifications



ASC^Δ Rec

					ng Pressure ential (psi)	•									
Pipe	Orifice				Max. AC/D		Max.			Agency			Agency		Approx
Size (in)	Dia. (in)	Cv Flow	Min.	Air-Inert Gas	Water	Light Oil @ 300 SSU	Fluid Temp.°F	Brass	Const. Ref.	UL	Stainless Steel	Const. Ref.	UL	Wattage AC/DC	Shippir Weight (I
	Service - N														
1/8	3/64	0.05 3	0	300	300	300 @	200 6	8314R031	1	•	8314R037	1	•	2	1.7
1/8	3/32	0.15 ④	0	205	205	190 @	200 6	8314R032	1	•	8314R038	1	•	2	1.7
1/8	1/8	0.25 ④	0	145	145	100 @	200 6	8314R033	1	•	8314R039	1	•	2	1.7
1/4	3/64	0.05 3	0	300	300	300 @	200 6	8314R034	2	•	8314R068	2	•	2	1.8
1/4	3/32	0.15 ④	0	205	205	190 @	200 6	8314R035	2	•	8314R121	2	•	2	1.8
1/4	1/8	0.25 ④	0	145	145	100 @	200 6	8314R036	2	•	8314R126	2	•	2	1.8
1/4	5/32	0.50 @	0	75	75	75 D	200 6	8314R130	2	•	8314R230	2	•	2	1.8
1/4	7/32	0.70 @	0	40	40	40 ⑦	200 6	8314R131	2	•	8314R231	2	•	2	1.8
1/4	9/32	0.85 @	0	25	25	25 D	200 6	8314R132	2	•	8314R232	2	•	2	1.8
1/4	5/64	0.12	0	232	232	232	180	8320P182	3	•	-	-	-	2	2.5
1/4	7/64	0.23	0	150	150	150	180	8320P184	3	•	-	-	-	2	2.5
1/4	5/32	0.35	0	75	75	75	180	8320P186	3	•	-	-	-	2	2.5
/4	3/32 ①	0.2 ①	5 (5)	150	150	100	180	8317P035	4	•	-	-	-	2	2.7
/4	9/32 ②	0.8 @	10	200	200	200	180	8321P001	5	•	-	-	-	2	3.8
8/8	9/32 ②	0.8 @	10	200	200	200	180	8321P002	5	٠	-	-	-	2	3.8
3/8	5/8	2.5	10	250	250	-	180	8316P054	6	٠	-	-	-	2	4.9
/2	5/8	3.2	10	250	250	-	180	8316P064	6	٠	-	-	-	2	4.9
8/4	11/16	4.8	10	250	250	-	180	8316P074	7	•	-	-	-	2	5.1
/UR N	/lount - 3/2	Normally	Closed		1	1									
1/4	3/32	0.12	-	150	-	-	180	8320P704	9	•	8320P714	9	•	2	3.2
ieral S	Service - N	ormally Op	en												
/8	3/64	0.05 ③	0	300	300	300 @	200 ©	8314R049	1	•	8314R055	1	•	2	1.7
/8	3/32	0.15 @	0	175	175	175 D	200 @	8314R050	1	•	8314R056	1	•	2	1.7
/8	1/8	0.25 ④	0	160	160	160 @	200 ©	8314R051	1	•	8314R057	1	•	2	1.7
1/4	3/64	0.05 ③	0	300	300	300 @	200 ©	8314R052	2	•	8314R069	2	•	2	1.8
/4	3/32	0.15 @	0	175	175	175 D	200 @	8314R053	2	•	8314R122	2	•	2	1.8
1/4	1/8	0.25 @	0	160	160	160 @	200 ©	8314R054	2	•	8314R070	2	•	2	1.8
/4	5/32	0.50 @	0	150	150	150 @	200 ©	8314R133	2	•	8314R233	2	•	2	1.8
/4	7/32	0.70 ④	0	100	100	100 @	200 6	8314R134	2	•	8314R234	2	•	2	1.8
/4	9/32	0.85 ④	0	65	65	65 ⑦	200 @	8314R135	2	•	8314R235	2	•	2	1.8
/8	3/64	0.18	-	350	350	350	180	8320P136	8	•	8320P146	8	•	2	2.5
/4	1/32	0.05	-	790	825	825	180	8320P190	3	•	-	-	-	2	2.5
/4	5/64	0.12	0	210	210	210	180	8320P192	3	•	-	-	-	2	2.5
/4	7/64	0.23	0	150	150	150	180	8320P194	3	•	-	-	-	2	2.5
-	Service - U								-	-	·		l		
/8	3/64	0.05 3	0	200	200	200 ⑦	200 6	8314R041	1	•	8314R042	1	•	2	1.7
/8	3/32	0.15 @	0	105	85	60 0	200 @	8314R043	1	•	8314R044	1	•	2	1.7
/8	1/8	0.10 @	0	70	70	40 ⑦	200 @	8314R045	1	•	8314R040	1	•	2	1.7
/4	3/64	0.05 3	0	200	200	200 ⑦	200 @	8314R006	2	•	8314R123	2	•	2	1.8
/4	3/32	0.15 @	0	105	85	60 0	200 @	8314R007	2	•	8314R120	2	•	2	1.8
/4	1/8	0.15 @	0	70	70	40 T	200 @	8314R008	2	•	8314R124	2	•	2	1.8
/4	5/32	0.50 @	0	35	35	35 ⑦	200 @	8314R127	2	•	8314R227	2	•	2	1.8
/4	7/32	0.70 @	0	18	18	18 @	200 @	8314R128	2	•	8314R228	2	•	2	1.8
/4	9/32	0.70 @	0	10	10	10 0	200 @	8314R129	2	•	8314R229	2	•	2	1.8
/4	5/64	0.85 @	0	116	116	116	180	8320P172	3	•	-	-	-	2	2.5
/4	7/64	0.12	0	60	60	60	180	8320P172 8320P174	3	•	-	-	-	2	2.5
/4 /4	5/32	0.23	0	35	35	35	180	8320P174 8320P176	3	•	-	-	-	2	2.5
/4	J 3/32	0.30	U	30	30	30	100	032051/0	э	-	-	-	-	۷	2.0

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Optional Features Chart

		Base Catal	og Number			Resili	ent Mate	rials and	Suffix O	ptions			Oth	er	Standard	Rebuild Kit
Pipe Size (in)	Orifice Dia. (in)	Brass	Stainless Steel	Silicone Free	NBR	FKM	EPDM	CR	Oxygen Service	PTFE ①	Urethane	Vacuum	Manual Operator ©	Mounting Bracket	Brass AC/DC	Stainless Steel AC/DC
1/8	3/64	8314R031	8314R037	SF	•	V @	-	-	N	-	-	-	MS	MB	323957	323959
1/8	3/64	8314R041	8314R042	SF	•	V ②	-	-	N	-	-	-	MS	MB	323961	323963
1/8	3/64	8314R049	8314R055	SF	•	V @	-	-	N	-	-	-	MS	MB	323969	323971
1/8	3/32	8314R032	8314R038	SF	•	V @	-	-	N	-	-	-	MS	MB	323958	323960
1/8	3/32	8314R043	8314R044	SF	•	V @	-	-	N	-	-	-	MS	MB	323966	32396
1/8	3/32	8314R050	8314R056	SF	•	V @	-	-	N	-	-	-	MS	MB	323970	32397
1/8	1/8	8314R033	8314R039	SF	•	V @		-	N	-	-	-	MS	MB	323958	32396
1/8	1/8	8314R045	8314R040	SF	•	V @		-	N	-	-	-	MS	MB	323966	32396
1/8	1/8	8314R051	8314R057	SF	•	V @	-	-	N	-	-	-	MS	MB	323970	32397
1/8	7/16	8320P136	8320P146	5	•	V	E	J	N	T	-	-	M0/MS	MB	323370	322371
1/0	1/32	8320P136 8320P190	0020F140	6	•	V	E	J	N	T	-	-	MO/MS	MB	322715	322/1
1/4	3/64	8320P190 8314R006	- 8314R123	SF	•	V ②	- E	J -	N	-	-	-	MU/MS MS	MB	322744 323961	32396
					-								-			
1/4	3/64	8314R034	8314R068	SF	•	V @	-	-	N	-	-	-	MS	MB	323957	32395
1/4	3/64	8314R052	8314R069	SF	•	V @	-	-	N	-	-	-	MS	MB	323969	32397
/4	5/64	8320P172	-	5	٠	V	E	J	N	T	-	-	MO/MS @	MB	322721	-
/4	5/64	8320P182	-	5	•	V	E	J	N	T	-	-	M0/MS	MB	322722	-
/4	5/64	8320P192	-	5	•	V	E	J	N	T	-	-	MO/MS @	MB	322723	-
/4	3/32	8314R007	8314R120	SF	•	V @	-	-	N	-	-	-	MS	MB	323966	32396
/4	3/32	8314R035	8314R121	SF	•	V @	-	-	N	-	-	-	MS	MB	323958	32396
/4	3/32	8314R053	8314R122	SF	•	V @	-	-	N	-	-	-	MS	MB	323970	32397
/4	3/32	8317P035	-	5	•	V	-	-	N	-	-	-	-	-	322919	-
1/4	3/32	8320P704	8320P714	5	•	V	E	J	N	Т	-	-	M0/MS	-	322821	32282
1/4	7/64	8320P174	-	5	•	V	E	J	N	Т	-	-	MO/MS @	MB	322721	-
1/4	7/64	8320P184	-	5	•	V	E	J	N	Т	-	-	M0/MS	MB	322722	-
1/4	7/64	8320P194	-	5	•	V	E	J	N	Т	-	-	MO/MS @	MB	322723	-
/4	1/8	8314R008	8314R124	SF	•	V @	-	-	N	-	-	-	MS	MB	323966	32396
/4	1/8	8314R036	8314R126	SF	•	V @	-	-	N	-	-	-	MS	MB	323958	32396
/4	1/8	8314R054	8314R070	SF	٠	V @	-	-	N	-	-	-	MS	MB	323970	32397
/4	5/32	8314R127	8314R227	SF	•	V @	-	-	N	-	-	-	MS	MB	323966	32396
/4	5/32	8314R130	8314R230	SF	٠	V @	-	-	N	-	-	-	MS	MB	323958	32396
/4	5/32	8314R133	8314R233	SF	٠	V @	-	-	N	-	-	-	MS	MB	323970	32397
/4	5/32	8320P176	-	5	٠	V	E	J	N	T	-	-	MO/MS @	MB	322721	-
/4	5/32	8320P186	-	5	٠	V	E	J	N	T	-	-	M0/MS	MB	322722	-
/4	7/32	8314R128	8314R228	SF	٠	V @	-	-	N	-	-	-	MS	MB	323966	32396
/4	7/32	8314R131	8314R231	SF	•	V @	-	-	N	-	-	-	MS	MB	323958	32396
/4	7/32	8314R134	8314R234	SF	•	V @	-	-	N	-	-	-	MS	MB	323970	32397
/4	9/32	8314R129	8314R229	SF	•	V @	-	-	N	-	-	-	MS	MB	323966	32396
/4	9/32	8314R132	8314R232	SF	•	V @	-	-	N	-	-	-	MS	MB	323958	32396
1/4	9/32	8314R135	8314R235	SF	•	V @		-	N	-	-	-	MS	MB	323970	32397
/4	9/32	8321P001	-	5	•	V	E	-	-	-	-	-	M0/MS	-	322688	-
3/8	9/32	8321P002	-	5	•	V	E	-	-	-	-	-	M0/MS	-	322688	-
3/8	5/8	8316P054		5	•	V	E	J	N	-	-	-	MO	MB	322690	-
/2	5/8	8316P064		6	•	v	E	J	N	-	-	-	MO	MB	322690	-
3/4	11/16	8316P074	-	6	•	v	E	J	N	-	-	-	MO	MB	322692	-
		ptions may be availa			-								-		OLLOOL	

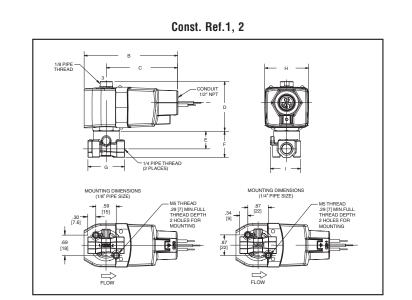


ASC[®] Red



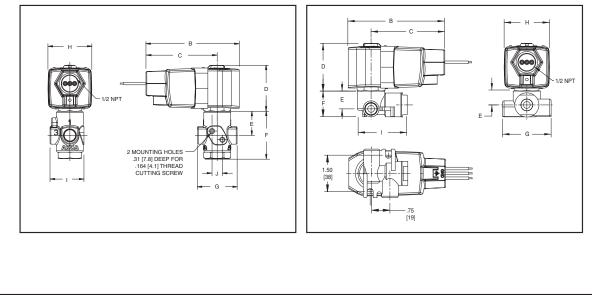
Dimensions: inches

Const. Ref.	В	C	D	E	F	G	н	I	J
1	3.98	3.04	2.09	0.69	1.00	1.19	1.87	1.24	-
2	3.98	3.04	2.09	0.79	1.19	1.56	1.87	1.29	-
3	3.98	3.04	2.00	1.02	2.02	1.69	1.87	1.45	0.44
4	3.98	3.04	2.00	0.57	1.07	2.00	1.87	2.05	-
5	3.98	3.04	2.00	1.00	2.03	1.31	1.87	3.12	1.00
6	3.98	3.04	2.00	2.12	3.77	2.76	1.87	4.29	-
7	3.98	3.04	2.00	2.5	4.19	-	1.87	3.38	-
8	3.98	3.04	2.00	0.67	1.64	1.19	1.87	-	1.81



Const. Ref. 3

Const. Ref. 4

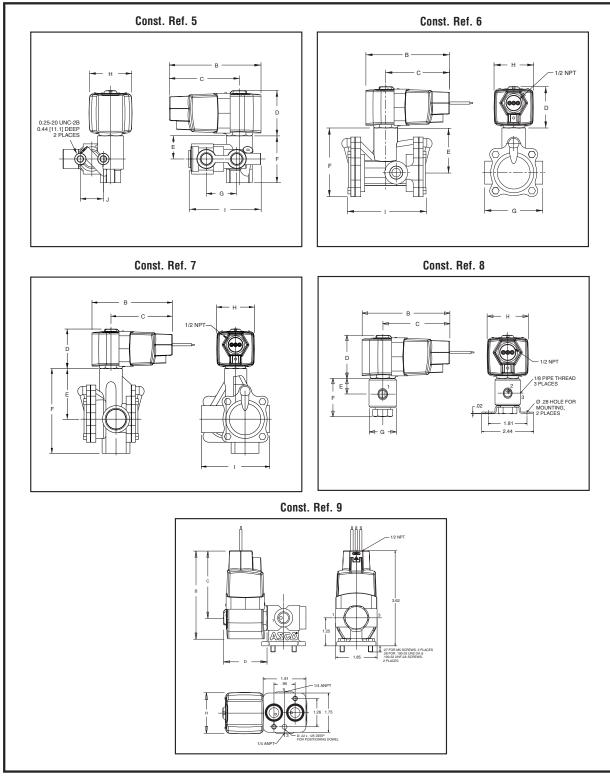






3-WAY | Solenoid Valves

Dimensions: inches





4-WAY | Solenoid Valves

- 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.
- Control of air, water, light oil, and non-corrosive media.
- Single solenoid operation (pressure and exhaust ports and cylinder ports alternate connection based on solenoid operation).
- Pipe sizes 1/4 to 1 inch.



ASC^Δ Re

Specifications

		c	'w			ing Pressu ential (psi									
Pipe Size	Orifice Dia.	Flo	ow	84:	Air-Inert	Max. AC/	Light Oil	Max. Fluid	Droop	Const.	Agency	316L Stainless	Const.	Agency UL	Wattage
(in)	(in)	Pressure	Exhaust	Min.	Gas	Water	@ 300 SSU	Temp.°F	Brass	Ref.	UL	Steel	Ref.	UL	AC/DC
		Single Sole					1		1		r	1		1	
1/4	1/16 ②	0.09	0.09	10	150	150	150 3	180	8345P001	1		-	-	-	2
1/4	1/4	0.8	1.0	10 ①	250	250	250	180	8344P070	2	•	-	-	-	2
3/8	3/8	1.4	2.2	10 ①	250	250	250	180	8344P072	3	•	-	-	-	2
1/2	3/8	1.4	2.2	10 ①	250	250	250	180	8344P074	3	•	-	-	-	2
3/4	3/4	5.2	5.6	10 ①	250	250	250	180	8344P076	4	•	-	-	-	2
1	3/4	5.2	5.6	10 ①	250	250	250	180	8344P078	4	•	-	-	-	2
General	Service -	4/2 Dual So	lenoid										•		
3/8	3/8	1.4	2.2	10 ①	300	300	200	180	8344P080	5	•	-	-	-	2
NAMUR I	Mount - 3/	′2, 5/2 Singl	le Solenoid						•			•	•		
1/4	1/4	0.86	0.86	30	150	-	-	180	EE8551P401*	6	•	EE8551P409	6	•	2
• = Gen	eral Purpo	se Valve. 🛈	25 psi minir	num for	light oils; @) 3/32" exh	aust orifice. * A	Numinum bo	ody. 3 Viscosity 50) SSU max					

Optional Features Chart

		Base Catal	og Number			Resilient	Materials	and Suffi	x Options			Oti	ier	Standard Rebuild Kit
Pipe Size (in)	Orifice Dia. (in)	Brass	316L Stainless Steel	NBR	FKM	EPDM	CR	Oxygen Service	PTFE	Urethane	Vacuum	Manual Operator	Mounting Bracket	Brass AC/DC
1/4	1/16	8345P001	-	•	V	-	-	-	-	-	-	MO	-	322925
1/4	1/4	EE8551P401*	EE8551P409	•	-	-	-	-	-	-	-	MH/MS	-	-
1/4	1/4	8344P070	-	٠	V	-	-	-	-	-	-	MO	-	322696
3/4	3/4	8344P080	-	٠	V	-	-	-	-	-	-	MO		322700
3/8	3/8	8344P072	-	•	V	-	-	-	-	-	-	MO	-	322697
1/2	3/8	8344P074	-	•	V	-	-	-	-	-	-	MO	-	322697
3/4	3/4	8344P076	-	•	V	-	-	-	-	-	-	MO	-	322698
1	3/4	8344P078	-	•	V	-	-	-	-	-	-	MO	-	322698
• = Stand	ard. * Alumi	num body.		•		•								

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.

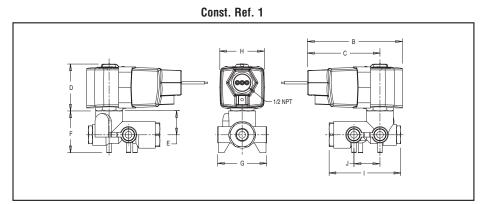




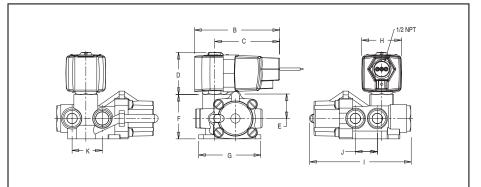
4-WAY | Solenoid Valves

Dimensions: inches

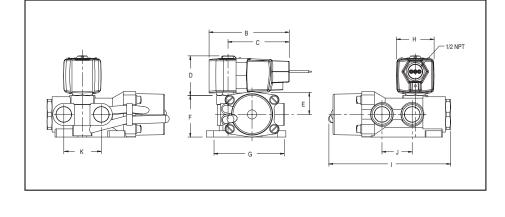
Const. Ref.	В	C	D	E	F	G	Н	I	J	K	Exhaust Pipe Size
1	3.98	3.04	2.09	1.00	1.75	2.06	1.87	3.00	1.09	-	1/4
2	3.98	3.04	2.0	1.12	2.08	2.94	1.87	4.82	1.03	1.41	3/8
3	3.98	3.04	2.0	0.94	2.06	3.18	1.87	6.05	1.50	1.86	1/2
4	3.98	3.04	2.0	1.31	2.86	4.12	1.87	8.25	2.10	2.12	1



Const. Ref. 2



Const. Ref. 3, 4



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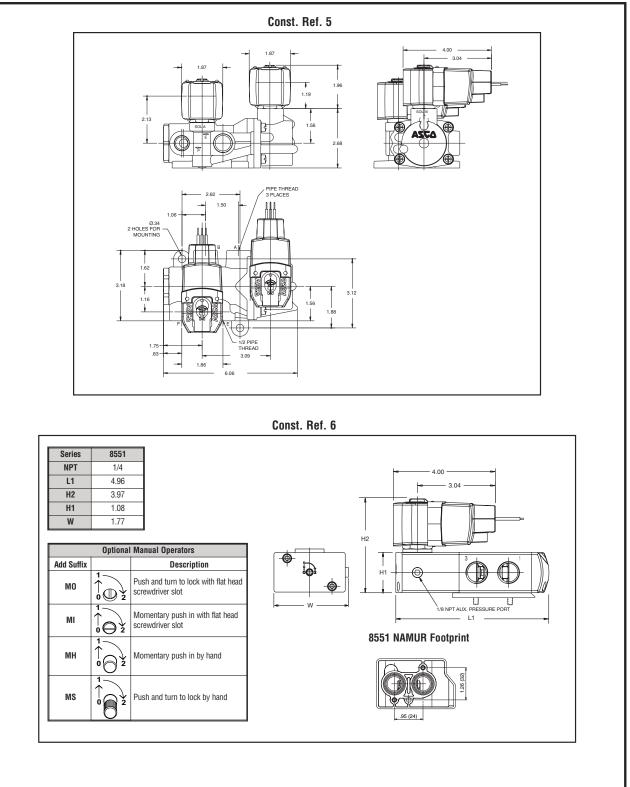
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ASC^Δ Re













Engineering Section

Principles of Operation

A solenoid valve is a combination of two basic functional units:

- A solenoid (electromagnet) with its core.
- A valve body containing one or more orifices.

Flow through an orifice is controlled by the movement of the core when the solenoid is energized or de-energized. The core is enclosed in a sealed tube, providing a compact, leaktight assembly. For additional information on different types and functions of solenoid valves including direct acting, internally pilot operated valves, two-way, three-way, and four-way valves please visit our website at www.ascovalve.com.

Solenoids

All RedHat Next Generation solenoid valves are rated for continuous duty under the operating conditions outlined within this section.

Coil Operating Voltage Ranges

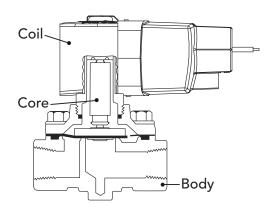
All coils are designed for industrial operating voltages and can be used on the following voltage ranges:

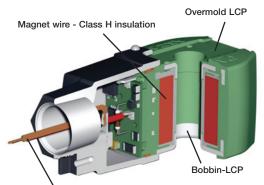
Voltage Range	Minimum Voltage	Maximum Voltage
100-240V/50 or 60Hz/DC	85	264
24-99V/50 or 60Hz/DC	20.4	109
12-24/DC only	10.4	26.4

The coils with voltage ranges of 100-240 and 24-99 have three lead wires, 24 inches long (2 red for power input, and one green lead for grounding where necessary). These two versions are not polarity sensitive.

The coil with a voltage range of 12-24/DC has 3 lead wires, one red, one black, and one green. This coil is polarity sensitive. The red lead is the positive, black is the negative, and green is the ground wire. This solenoid is also polarity protected. Reversing the polarity will not damage the coil, but the coil will not function until the correct polarity is applied.

Note: The 100-240 voltage range is also suitable for battery charging circuits designed around a 125/DC nominal voltage range.





Lead wire - UL and CSA listed 600 volt leads, 6 strand, 18awg, PE coated





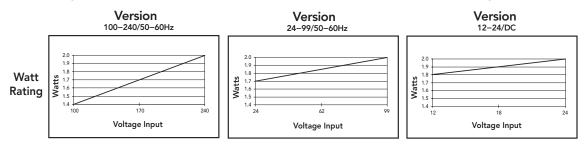
ENGINEERING

Electrical Specifications

2 Watt Electronic Coils	Туре
Maximum Ambient Temperature	140°F
Maximum Cycle Rate	1 Operation/ Second
Standard Coil Class of Insulation	Н

Power Consumption

The Next Generation solenoid nominal power rating is 2 watts. Depending on the input voltage applied, the actual power rating may vary. Please use the charts below to determine your actual power rating.



The advanced technology used in the Next Generation coil includes electronic circuitry which may limit the compatibility with certain control system components. The following issues need to be considered when specifying an output card or device to operate the Next Generation coil. An initial inrush current spike is drawn by the Next Generation coil. This inrush spike is 72 msec in duration, which is sufficient time for the core to reach the plugnut. The electrical requirement then drops to the holding value.

Inrush Current: The power source, wiring, and output device used need to have surge ratings equal to or greater than the inrush current value (appropriate to the voltage range) specified in the table below.

Inrush Current Rating			
Coil Version	Peak Inrush Current (Amps)		
12-24/DC	3.2		
24-99/50-60Hz/DC	1.4		
100-240/50-60Hz/DC	0.32		
Maximum Duration = 72 ms			

Holding Current: The power source, wiring, and output device used need to have continuous current ratings equal to or greater than the holding current value (appropriate to the voltage range) specified in the table below.

Holding Current Rating					
Coil Version	Input Voltage	Average Holding Current (Amps)	Average Holding Volt-Amps (VA)		
12-24/DC	12	0.340	4.0		
12-24/00	24	0.250	6.0		
24-99/50-60Hz/DC	24	0.170	4.0		
24-99/00-0012/00	99	0.100	10.0		
100-240/50-60Hz/DC	100	0.040	4.0		
100-240/30-0002/00	240	0.032	7.5		

Leakage Currents: The leakage current is defined as a current that is supplied from an output device when the device is in its off or de-activated state. Operation of Next Generation coil in a system that utilizes supervisory currents is not recommended.

Maximum Leakage Current	3 mA







Solenoid Enclosures

The Next Generation solenoid coil is fully encapsulated using Dupont[™] Zenite[®] Liquid Crystal Polymer resin (LCP). Zenite (LCP) is a thermoplastic polyester resin which exhibits several advantages over other thermoplastics. The advantages include excellent resistance to a wide range of organic solvents and automotive fluids^{*}, resistance to impact, and long term retention of properties at continuous-use temperatures.

*Chemical resistance of Zenite LCP may not be suitable for all applications. Zenite LCP is not suitable for caustic solution. Please consult ASCO for appropriate product solutions.

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General Purpose/Watertight – Intended for indoor and outdoor use and provides protection classifications from NEMA types 1 through 4X.

Type 1 General Purpose – Intended for indoor use, primarily to provide protection for enclosed parts in locations without unusual service conditions. DIN-type terminals meeting ISO 4400 and DIN Standard 43650.

Type 2 Dripproof – Intended for indoor use, primarily to provide protection against limited amounts of falling water or dirt.

Type 3 Raintight, Dusttight, and Sleet (Ice) Resistant – Intended for outdoor use, primarily to provide protection against wind-blown dust, rain, and sleet; undamaged by the formation of ice on the enclosure.

Type 3S Raintight, Dusttight, and Sleet (Ice) Resistant – Intended for outdoor use, primarily to provide protection against wind-blown dust, rain, and sleet; external mechanism remains operable when ice laden.

Type 3R Rainproof, Sleet (Ice) Resistant – Intended for outdoor use, primarily to provide protection against falling rain and sleet; undamaged by the formation of ice on the enclosure.

Type 4 Watertight and Dusttight – Intended for indoor or outdoor use to provide protection against splashing water, water seepage, falling or hose-directed water, and severe external condensation; undamaged by the formation of ice on the enclosure.

Type 4X Watertight, Dusttight, and Corrosion Resistant – Same as Type 4 but provides additional protection to resist corrosion.

Class I, Division 2 for Hazardous Locations/Watertight – Meets Types 1 through 4X and is UL listed and CSA certified for Class I, Division 2, Groups A, B, C, and D and Class II, Division 2, Groups F and G. Operating temperature code T4A (120°C).







Valve Specifications

Minimum Operating Pressure Differential

The minimum operating pressure differential is 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 operating pressure differential is measured between the pressure and exhaust ports and must be maintained through the operating cycle to ensure complete transfer from one position to the other.

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

Maximum Operating Pressure Differential (MOPD)

The maximum operating pressure differential refers to 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.

Minimum Ambient Temperature

The nominal limitation of $32^{\circ}F$ (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 the products listed in this catalog is $14^{\circ}F$ (-10°C). Special constructions are available with low temperature elastomers to provide service at -40°F (-40°C) ambient temperatures. Consult ASCO for more information.

Maximum Ambient Temperature

The maximum ambient temperature is 140°F (60°C). This limit is based on continuous energization with the maximum fluid temperatures as shown on each catalog page.

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. The response times for Next Generation are defined as:

- Small direct acting valves 10 to 60 msec
- Large direct acting valves 25 to 90 msec

Internally pilot operated valves:

- Small diaphragm types 20 to 100 msec
- Large diaphragm types 80 to 150 msec
- 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, however, response times of large direct acting and internally piloted valves may be lengthened by 50% to 100%.

Viscosity

All valves with a pressure rating for light oil are designed for use with oils rated for a maximum of 300 SSU's with the following exceptions:

- Series 8314, 8317, 8321 45 SSU
- Series 8345 50 SSU



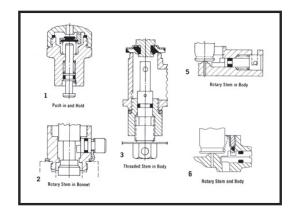




Manual Operators

Manual operators are 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 valves, please see the Optional Features Chart on the relevant valve catalog page. Once it is determined that the subject valve can accommodate a manual operator, the chart below will tell you the type of manual operator. The chart also references the relevant cutaway illustration.

Series Number	Const. Ref.	Manual Operator Suffix	Manual Operator Type	Illustration Number
8030	8	MO	Maintained	3
8210	4, 7, 10, 11, 12	MO	Maintained	2
8262	1	MS	Maintained	6
8263	1	MS	Maintained	6
8314	1	MS	Maintained	6
8316	5, 6	MO	Maintained	2
8320	2	MO	Momentary	1
8320	2	MS	Maintained	6
8321	4	MO	Momentary	1
8321	4	MS	Maintained	3
8344	1, 3, 4	MO	Maintained	2
8345	2	MO	Maintained	5



Resilient Material Selection

Acetal (POM) – A high performance engineered plastic with good fatigue life, low moisture sensitivity, and high resistance to solvents and chemicals.

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

FKM – FKM is a fluorocarbon elastomer primarily developed for handling such hydrocarbons as jet fuels, gasolines, solvents, etc., which normally cause detrimental swelling to NBR. FKM has a high temperature range similar to EPDM, but more resistant to "dry heat." FKM has a wide range of chemical compatibility. It has a useful temperature range of 0°F to 350°F (-18°C to 177°C).

CR (Chloroprene, Neoprene) – CR is principally used as an external seal in refrigeration applications. It is also utilized for oxygen service. It has a useful temperature range of 0°F to 180°F (-18°C to 82°C).

NBR (Buna "N", Nitrile) – NBR is commonly referred to as a nitrile rubber and is the standard synthetic elastomer for accomplishing resilient-type seating or sealing in ASCO valves. It has excellent compatibility for most air, water, and light oil applications. It has a useful temperature range of 0°F to 180°F (-18°C to 82°C).

Oxygen Service – All valve parts are degreased and blacklight inspected for cleanliness. They are assembled and tested in a clean area using oil-free air or nitrogen; helium mass spectrometer tested for external leakage. The pipe connections are sealed with plugs, and each valve is tagged certifying testing. All valves are shipped in sealed bags.

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

Urethane – Urethane is primarily used on high pressure valves, and/or for long life applications, because of its high strength and abrasion resistance. The physical and chemical properties of urethane vary depending on whether the compound is polyester or polyether based. Urethane has a wide range of chemical resistance including alcohols, non-aromatic compounds, ethers, edible fats and oils, hydraulic fluid, and water. It has a useful temperature range of -90°F to 200°F for ethers, and -30°F to 200°F for esters. Polyester based Urethanes in contact with moisture should be limited to a maximum temperature of 140°F.

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Valve Parts in Contact with Fluids						
Series	Body	Seals and Discs	Disc Holder	Core Guide	Springs	Shading Coil
8030	Brass	NBR	-	-	302 Stainless Steel	Copper
0010	304 Stainless Steel	NBR	-	-	302 Stainless Steel	Silver
8210	Brass	NBR	1	-	302 Stainless Steel	Copper
0000	304 Stainless Steel	PTFE, NBR	-	-	302 Stainless Steel	Silver
8223	Brass	NBR, PA, PTFE	-	-	302 Stainless Steel	Copper
8262	304 Stainless Steel	NBR	-	-	302 Stainless Steel	Silver
8262P261	304 Stainless Steel	UR	-	-	302 Stainless Steel	Silver
8262R099	304 Stainless Steel	UR	-	-	302 Stainless Steel	Silver
8262R107	304 Stainless Steel	UR	-	-	302 Stainless Steel	Silver
8262R175	304 Stainless Steel	UR		-	302 Stainless Steel	Silver
8262R178	304 Stainless Steel	UR	-	-	302 Stainless Steel	Silver
8262	Brass	NBR	-	-	302 Stainless Steel	Copper
8262R077	Brass	LT NBR	-	-	Inconel	Copper
8262R078	Brass	LT NBR	-	POM	Inconel	Copper
8263	304 Stainless Steel	NBR	-	-	302 Stainless Steel	Silver
8263	Brass	NBR	-	-	302 Stainless Steel	Copper
8314	304 Stainless Steel	NBR, FKM	-	POM	302 Stainless Steel	Silver
8314	Brass	NBR, FKM	-	POM	302 Stainless Steel	Copper
8316	Brass	NBR	POM	POM	302, 17-7PH Stainless Steels	Copper
8317	Brass	NBR, FKM, CR	-	POM	302, 17-7PH Stainless Steels	Copper
8320	303 Stainless Steel	NBR	POM	POM	302 Stainless Steel	Silver
8320	Brass	NBR	POM	POM	302 Stainless Steel	Copper
8321	Brass	NBR	POM	POM	302 Stainless Steel	Copper
8344	Brass	NBR	POM	POM	302, 17-7PH Stainless Steels	Copper
8345	Brass	NBR, PA	-	POM	302 Stainless Steel	Copper
8551	316 Stainless Steel	NBR, PA	-	POM	302 Stainless Steel	Copper
8551	Anodized Aluminum	NBR, PA	-	POM	302 Stainless Steel	Copper

Note: All core tubes are 305 stainless steel and all cores and plugnuts are 430F stainless steel. 10 8210P033, 8210P034, and 8210P035 with PA Disc Holder







Approvals

Approval Listing Code and Information

UL, CSA, and CE listings are indicated on each series of valves in this catalog. Listing codes and other information follow in this section.

Agency Valve Classifications and Code Reference

Solenoid Recognized Components – Solenoids in this category are intended for use as factory-installed components of equipment where final acceptability must be determined by UL or CSA. ASCO RedHat Next Generation solenoids are listed in the UL recognized component index under Guide No. YSYI2 for ordinary locations and VAPT for hazardous locations.

General Purpose Valves – Normally open or normally closed valves intended to control the fluid flow, but not to be depended upon to act as safety valves. This is a UL and CSA classification and is not intended to indicate valve service or application. General purpose valves are listed in UL index under Guide No YIOZ or YIOZ2 for ordinary locations and YTSX or YTSX2 for hazardous locations.

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. This is a UL and CSA classification. Safety shutoff valves are listed in UL index under Guide YIOZ or Y1OZ2 for ordinary locations and YTSX or YTSX2 for hazardous locations.

Underwriters Laboratories (UL)

UL429, "Electrically Operated Valves." UL1604, "Electrical Equipment for use in Class I and II, Division 2 and Class III hazardous classified locations."

Canadian Standards Association (CSA)

Standard C22.2 No. 139, "Electrically Operated Valves." Standard C22.2 No. 213, "Electrical equipment for use in Class I, Division 2 hazardous locations."

C€ European Directive (CE)

The council of the European Communities under the treaty establishing the European Economic Community (EEC) adopted into law a series of directives to harmonize technical standards. Solenoid valves are controlled by:

Council	Directive #
Machinery	89/392/EEC
EMC (Electromagnetic Capability)	89/336/7EC
Low Voltage	72/23/EEC
PED(Pressure Equipment Directive)	97/23/EC

ASCO RedHat Next Generation valves comply with these directives, through third party or self-certification. The General Purpose/Watertight coils each bear the CE approval mark on the coil.



Quality Assurance

ASCO's Quality Assurance Program meets all the requirements of ISO9001-2000. ASCO can provide product from 17 ISO-certified facilities around the world.