

ON/OFF Solenoid Valves



Advantages/Benefits

- ▶ High quality valves at competitive prices
- ▶ A wide variety of valves available to choose from in order to fulfill your application requirements
- ▶ Burkert offers standards that would cost you extra elsewhere
- ▶ First rate Customer Service
- ▶ Better delivery on custom items
- ▶ UL, UR, CSA, FM, CGA, CE, ATEX approvals and more

ASCO® Valve Series Listed in this Guide Include:

8210	pg. 4
8221	pg. 4
8225	pg. 5
8262	pg. 5
8314	pg. 5
8316	pg. 6
8320	pg. 6
8325	pg. 6
8342	pg. 7
8345	pg. 7

Applications

Fluids

Lubricated or Non-Lubricated Compressed Air, Inert Gases, Water, hydraulic Fluids, Oils and Acids

Applications

- Water/waste water
- HVAC
- Chemical Processing
- Pneumatic Actuation
- Compressors and many, many more

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bürkert
 Fluid Control Systems

ASCO® Red-Hat® to Burkert Crossover Guide

Please read this page thoroughly before continuing.

The following crossover list is a recommendation of Burkert valves that are similar to the operation and specifications of the ASCO® valves. In many cases the Burkert valve may exceed ASCO's® specifications and in some cases it may not. Below are several rules to follow when specifying a Burkert valve to replace an existing ASCO® valve.

1. Always ask the customer why he/she wants to replace the ASCO® valve. If the valve is failing prematurely, then it may not be the correct valve for the application. In this case, get as much application data as possible and contact your Burkert Irvine Sales Representative for the best possible solution.
2. The ASCO® valves part number does not specify the voltage requirement. Always get the required voltage as well as the complete part number, including any prefix and suffix codes. These codes will tell you if there are any special features added to the ASCO® valve, such as, manual overrides, FKM seals or Explosion proof coils. Code explanations can be found on page 3.
3. Always review the data sheets of the ASCO® valve and Burkert valve and familiarize yourself with any differences between the two valves that may effect the customers application. For your convenience, a comparison sheet has been provided on the last page so that you can easily compare the specifications of the two valves. ASCO® data sheets can be found on their website at www.ascovalve.com . Burkert data sheets are available at our website www.burkert-usa.com or in our Product & Systems Reference Guide 6.0, available on CD only.

How to use this crossover guide

1. Simply refer to the page that corresponds to the valve series you are trying to crossover.
2. Locate the ASCO® part number in the far left column.
3. Follow the row to the right and you will first see the valve series that Burkert recommends in the second column. The ID numbers for the recommended Burkert valves for standard air and liquid applications are located in the third (24VDC) and fourth (120VAC) columns. Some valve series are available for steam and some are available with FM Class 1 Division 1 approvals. These ID numbers are located in the columns to the right of the standard valves.

The majority of the Burkert valves listed are UL Listed with H-class coils. Those that are not are tagged with an asterisk and a note at the bottom of the page. Asterisks and notes have also been given to valves that have extreme differences in specifications to that of the ASCO® valve. If the series that you are trying to replace is not listed, please contact Burkert Irvine sales. We may be able to find a solution for the customer with the proper application data. Special options, such as manual override, flying leads and special approvals may also be available by calling Irvine Sales.

List of ASCO® Prefixes and Suffixes

Table 1 lists the optional electrical feature prefixes available for Red-Hat II® solenoids and coils. Table 2 lists the suffixes for optional construction features available for each valve series.

Table 1

Code	Solenoid
EF	Type 7 Explosionproof
EV	Type 7 Explosionproof with 316 Stainless Steel Hub and Base Plate
GP	Panel Mount Type 1 General Purpose Solenoid
J	Junction Box
JP	Panel Mount Junction Box
OF	Open Frame Spade and Screw Terminal
OP	"Panel Mount Spade, Screw and DIN Terminal"
Code	Coil
HB	Class H - Intermediate Power
HC	Class H - Battery Charging Coil
HT	Class H - High Temperature
KB	Class H - Intermediate Power - Screw Terminals
KC	Class H - Battery Charging Circuit - Screw Terminals
KF	Class F - High Temperature - Screw Terminals
KH	Class H - High Temperature - Screw Terminals
KP	Class F - Intermediate Power Screw Terminals
SC	Class F - High Temperature - DIN Connection
SD	Class F - Intermediate Power - DIN Connection
SF	Class F - High Temperature - Spade Terminals
SP	Class F - Intermediate Power - Spade Terminals
SS	Class H - Intermediate Power - Spade Terminals
ST	Class H - High Temperature - Spade Terminals
SU	Class H - High Temperature - DIN Connection
SV	Class H - Intermediate Power - DIN Connection
SW	Class H - Battery Charging Circuit - Spade Terminals

Table 2

Suffix I	
Code	Seat/Disc/Etc. Material
E	EPDM (Ethylene Propylene)
J	CR (Neoprene)
K	Air Operated, 3-30 PSI
N	Oxygen
Q	Long-life Construction
R	Resilient
T	PTFE
V	FKM

Suffix III	
Code	Feature
HW	Hot Water Construction
LT	Low Temperature
M	Metering Device
MB	Mounting Bracket
MO	Manual Operator
MS	Manual Operator, Screw Type
VH	High Vacuum
VM	Medium Vacuum

Suffix II	
Code	Form of Flow
F	Normally Closed
G	Normally Open
U	Universal

8210 Series

Asco #	Burkert Series	"UL Listed, FM Class 1 Div 2"		FM Class 1 Div 1	
		24VDC	120VAC	24VDC	120VAC
8210B26	5404	US07203	TBD	US08734	US08735
8210B27	5404	TBD	US05851	US08737	US08738
8210B54	6213	457980X *	457340L		
8210B55	6213	457981L *	457343B		
8210B56	6213	457982M *	457346E		
8210G1	6213	456534J	456536L		
8210G2	5281	457395Y	457397S	US08695	US08696
8210G3	5404	US07203	TBD	US08734	US08735
8210G4	5281	457403Z	457405T	US08701	US08702
8210G7	5404	TBD	US05870	US08731	US08732
8210G8	5281	457407V	457409F	US08704	US08705
8210G9	5281	457399C	457401X	US08698	US08699
8210G12	281-B	458919E **	458921Y		
8210G13	281-B	458923S **	458925U		
8210G15	5281	457395Y	457397S	US08695	US08696
8210G22	5281	457411Q	457413J	US08707	US08708
8210G36	6213	458800L	458802A		
8210G37	6213	458804C	458806E		
8210G54	6213	457980X	457340L		
8210G73	6213	456534J	456536L	not avail.	US08744
8210G87	6213	458804C	458806E		
8210G88	6213	458808Q	458810D		
8210G93	6213	456534J	456536L	not avail.	US08744
8210G94	6213	456538W	456540C	not avail.	US08747
8210G95	6213	456542S	456544U	not avail.	US08750
8210G100	5281	457415L	457417N	US08710	US08711
8210G103	281-B	458939A	458941C		

* Available as UL Recognized Only.

** Pmax 140 PSI Compared to ASCO 200 PSI Rating

8221 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM CLASS 1 DIV 1	
		24VDC	120VAC	24VDC	120VAC
8221G3	5281	457395Y	457397S	US08695	US08696
8221G5	5281	457399C	457401X	US08698	US08699
8221G7	5281	457403Z	457405T	US08701	US08702
8221G9	5281	457407V	457409F	US08704	US08705
8221G11	5281	457411Q	457413J	US08707	US08708
8221G13	5281	457415L	457417N	US08710	US08711
822123 & 8221G23	281-B	458919E	458921Y		
822125 & 8221G25	281-B	458923S	458925U		
822127 & 8221G27	281-B	458927W	458929G		
822129 & 8221G29	281-B	458931S	458933U		
822131 & 8221G31	281-B	458935W	458937Y		
822133 & 8221G33	281-B	458939A	458941C		

8225 Series

Asco #	Burkert Series	UL Recognized Only	
		24VDC	120VAC
U8225B1V	6011	TBD	US05394
U8225B2V	6011	456780D	456782T
U8225B3V	6011	456788H	456790F
U8225B6V	6011	457151T	457153V
U8225B7V	6011	457159B	457161V

8262 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		Burkert # (Steam)		FM Class 1 Div 1	
		24VDC	120VAC	24VDC	120VAC	24VDC	120VAC
8262G2	6013	456506X	456508H			US08815	US08816
8262G6	6013	456522N	456524Q			US08821	US08822
8262G7	6013	456526J	456528U			US08824	US08825
8262G14	6013	456502T	456504V				
8262G22	6013	456510W	456512L	457380D*	457382T*	US08818	US08819
8262G31	211	US00799	453209J				
8262G90	6013	US06153	TBD			US08827	
8262G202	6013	456514N	456516Q				
8262G220	6013	456530S	456532Q				
8262G262	211	453203C	453205E				

* Not UL Listed. For UL Listings please contact the Burkert sales department.

8314 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM Class 1 Div 1	
		24VDC	120VAC	24VDC	120VAC
8314G6	6014	TBD	US06182		
8314G31	6014	456570A	456572Y		
8314G35	6014	456586P	456588Z		
8314G36	6014	456586P	456588Z		
8314G41	6014	456618E	456620C	US08803	US08804
8314G49	6014	456594P	456596R	US08779	US08780
8314G53	6014	456610A	456612Y		
8314G54	6014	456610A	456612Y		

8316 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM CLASS 1 DIV 1	
		24VDC	120VAC	24VDC	120VAC
8316G34	340	453298B	453300R	US08851	US08852
8316G36	340	TBD	453320C		
8316G54	340	US00534	453378J		
8316G56	340	US02483	454091Q		
8316G64	340	453290F	453292V		
8316G66	340	453310A	453312Y		
8316G74	340	US00981	453296Z	US08848	US08849
8316G76	340	US01676	453316U		

8320 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM CLASS 1 DIV 1	
		24VDC	120VAC	24VDC	120VAC
8320G1	6014	456618E	456620C	US08803	US08804
8320G13	6014	456570A	456572Y	US08779	US08780
8320G15	6014	456582K	456584M		
8320G27	6014	456594P	456596R		
8320G29	6014	456606B	456608M		
8320G41	6014	456658N	456660L	US08806	US08807
8320G45	6014	456646A	456648L	US08785	US08786
8320G47	6014	456650J	456652G		
8320G130	6014	456618E	456620C	US08803	US08804
8320G132	6014	456570A	456572Y	US08779	US08780
8320G136	6014	456594P	456596R		
8320G140	6014	456658N	456660L	US08806	US08807
8320G142	6014	456646A	456648L	US08785	US08786
8320G184	6014	456586P	456588Z		
8320G186	6014	456586P	456588Z		
8320G194	6014	456610A	456612Y		
8320G196	6014	456610A	456612Y		
8320G202	6014	456654A	456656C	459296F	458674Q

8325 Series

Asco #	Burkert Series	UL Recognized Only	
		24VDC	120VAC
U8325B5V	6012	456808E	456810T
U8325B6V	6012	456812R	456814K
U8325B9V	6012	456832M	456834P
U8325B10V	6012	456836R	456838T
U8325B35V	6012	US06810	US06811
U8325B36V	6012	US06613	US06423

8342 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM CLASS 1 DIV 1	
		24VDC	120VAC	24VDC	120VAC
8342G1	6519	US08979	460172F	459232E	459233F
8342G20	6519	US05725 *	US05871	TBD	US06656
8342G701	6519	US08979	460172F	459232E	459233F
8342G720	6519	US05725 *	US05871	TBD	US06656

* NOT UL LISTED, FOR UL LISTING PLEASE CONTACT BURKERT SALES DEPARTMENT

8345 Series

Asco #	Burkert Series	UL Listed, FM Class 1 Div 2		FM CLASS 1 DIV 1	
		24VDC	120VAC	24VDC	120VAC
8345G1	6519	US08979	460172F	459232E	459233F
8345G81	6519	US08979	460172F	459232E	459233F

Comparison Worksheet

Item	Part Number Competitor/ Burkert	Valve Operation	Port Connection	Orifice Size	CV	Seal Material	Body Material	Pressure		Temp Max
								Min	Max	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										