## Αςτω

#### How to Select and Specify

Not all optional features are appropriate or available for all valves.

Table 1 lists the optional electrical feature prefixes available for each RedHat II solenoid and coil. Specify these features by adding the indicated prefixes to the valve catalog number.

For those prefixes marked with a " $\bullet$ " or for optional RedHat electrical features not covered here, contact your local ASCO sales office.

Table 2 lists the suffixes for optional construction features available for each valve Series. Specify these features by adding the indicated suffixes to the valve catalog number.

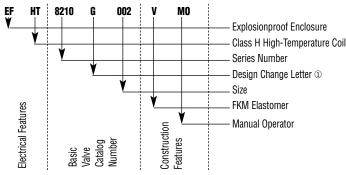
Table 2: Suffixes for	r Optional	Construction	Features
-----------------------	------------	--------------	----------

	SUFFIX I	SUFFIX II SUFFIX III		SUFFIX III	
Code	Seat/Disc/Etc. Material	Code	Form of Flow	Code	Feature
Е	EPDM (Ethylene Propylene)	<b>F</b> ①	Normally Closed	$\mathbf{HW} \ \texttt{1}$	Hot Water Construction
J	CR (Chloroprene, Neoprene)	<b>G</b> ①	Normally Open	<b>LT</b> ①	Low Temperature
<b>K</b> ①	Air Operated, 3-30 psi	<b>U</b> ①	Universal	М	Metering Device
Ν	Oxygen			<b>MB</b> ①	Mounting Bracket
<b>Q</b> (1)	Long-Life Construction			MO	Manual Operator
<b>R</b> ①	Resilient			MS	Screw Type Manual Operator
Т	PTFE			VH ①	High Vacuum
v	FKM			VM ①	Medium Vacuum
① Covered on the pages of the Series in which it is used.					

**Table 1:** Optional RedHat II Electrical FeaturePrefixes (For RedHat optional electricalfeatures, contact your local sales office.)

Code	Solenoid
EF	Class I, Division 1 Explosionproof
EV	Class I, Division 1 Explosionproof with 316 Stainless Steel Hub and Stainless Steel Base Plate
EE	Class I, Division 2 General Purpose
GP	Panel Mount Type 1 General Purpose Solenoid
J	Junction Box
JP	Panel Mount Junction Box
OF	Open Frame Spade and Screw Terminal Solenoids
OP	Panel Mount Spade, Screw and DIN Terminal Solenoids
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
VT	Class F - High Temperature - Micro 4 Pin Connector
VB	Class F - Intermediate Power - Micro 4 Pin Connector
ZT	Class F - High Temperature - Mini 3 Pin Connector
ZB	Class F - Intermediate Power - Mini 3 Pin Connector
Code	Feature
●L	72" continuous leads
ΦX	Other special constructions
Note: See c	hart on next page for specific power and temperature ratings.





① The Design Change Letter indicates a major design change affecting spare parts kits, rebuild kits, and coils. The correct replacement parts for each change letter are shown in ASCO's Rebuild Kits and Coils Catalog.



-青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

#### **Optional Features**

Electrical



#### **Optional Electrical Features**

Most optional electrical features shown here can be included on ASCO valves approved by UL, FM, and CSA.

Identify the options you want by adding the appropriate prefix to the catalog number of the valve you are specifying.

To determine the proper prefix, use the Valve Series Specification Table for the valve you are ordering to determine its watt rating/class of coil insulation.

#### **RedHat II Solenoid Options**

Using Table 3, find the desired solenoid option in the left column and the watt rating/class of coil insulation in the next column. The choice of prefixes is shown in the next two columns on that line. The first column indicates the prefix if Class F temperature protection is sufficient for your requirements. The second column provides the desired solenoid option, plus the higher temperature protection of a Class H coil.

For example, to select an 8262H002 valve with a Class H Open Frame Spade Terminal Solenoid, assuming the voltage to be 120 volts AC, 60 Hz:

- In the Specification Table for Series 8262, the Watt Rating/Class of Coil Insulation is 6.1/F for Catalog Number 8262H002.
- Using Table 3, find the listing for "Open Frame Solenoid with Spade Terminal Coil" in the left column. Then, find 6.1/F under AC coils in the next column. Reading across the column headed "Class H Coil," you'll find the prefix "OFST." To order, specify Catalog Number OFST8262H002, 120/60.

(Note: Always include the voltage and frequency.)

Table 3: Solenoid	d Options for RedHat II \	Valves
-------------------	---------------------------	--------

Solenoid	Class of	Rating/ Insulation	Class F Coil	Class H Coil
Option Required	AC	DC	Prefix	Prefix
General Purpose Solenoid	6.1/F 10.1/F 16.1/F	1.4/F 10.6/F 11.6/F	-	- HT HT
(Standard Valve Construction)	9.1/F 17.1/F 20.1/F	22.6/F	-	НВ
Panel Mount Type 1 General	6.1/F 10.1/F	10.6/F 11.6/F	GP	GPHT
Purpose Solenoid	9.1/F 17.1/F	22.6/F	GP	GPHB
	6.1/F 10.1/F 16.1/F	10.6/F 11.6/F	EF	EFHT
Type 7 Explosionproof Solenoid	9.1/F 17.1/F 20.1/F	22.6/F	EF	EFHB
	10.1/F 15.1/F 17.1/F	1.4/F 11.6/F 22.6/F	EV	- EVHT EVHB
Open Frame Solenoid with	6.1/F 10.1/F	10.6/F 11.6/F	OFSF	OFST
Spade Terminal Coil	9.1/F 17.1/F	22.6/F	OFSP	OFSS
Panel Mount Solenoid with	6.1/F 10.1/F 16.1/F	10.6/F 11.6/F	OPSF	OPST
Spade Terminal Coil	9.1/F 17.1/F 20.1/F	22.6/F	OPSP	OPSS
Open Frame Solenoid with	6.1/F 10.1/F	10.6/F 11.6/F	OFKF	OFKH
Screw Terminal Coil	9.1/F 17.1/F	22.6/F	OFKP	OFKB
Panel Mount Solenoid with Screw Terminal Coil	6.1/F 10.1/F	10.6/F 11.6/F	OPKF	ОРКН
	9.1/F 17.1/F	22.6/F	ОРКР	ОРКН
Junction Box with Spade	6.1/F 10.1/F	10.6/F 11.6/F	JSF	JST
Terminal Coil	9.1/F 17.1/F	22.6/F	JSP	JSS
Panel Mount Junction Box with	6.1/F 10.1/F	10.6/F 11.6/F	JPSF	JPST
Spade Terminal Coil	9.1/F 17.1/F	22.6/F	JPSP	JPSS
Junction Box with Screw	6.1/F 10.1/F 16.1/F	10.6/F 11.6/F	JKF	JKH
Terminal Coil	9.1/F 17.1/F 20.1/F	22.6/F	JKP	JKB
Panel Mount Junction Box with	6.1/F 10.1/F	10.6/F 11.6/F	JPKF	JPKH
Screw Terminal Coil	9.1/F 17.1/F	22.6/F	JPKP	JPKB
DIN Connection	6.1/F 10.1/F 16.1/F	10.6/F 11.6/F	SC	SU
Solenoid	9.1/F 17.1/F 20.1/F	22.6/F	SD	sv
Panel Mount DIN	6.1/F 10.1/F	10.6/F 11.6/F	OPSC	OPSU
Connection Solenoid	9.1/F 17.1/F	22.6/F	OPSD	OPSV
Micro 4 Pin Connector Selencid	10.1/F	11.6/F	VT	-
Connector Solenoid	17.1/F	22.6/F	VB	-
Mini 3 Pin Connector Selencid	10.1/F	11.6/F	ZT	-
Connector Solenoid	17.1/F	22.6/F	ZB	-



服务<del>熟线:4006-918-365</sub></del> 网址:http://www.ivalve.cc <del>传真:(86-532)585-10-30</del>5 Email:sales@bechinas.com

## ASCO®

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

ngineering           Ordering Information:           Depending on wattage, use catalog           number prefix "HT" or "HB"           (e.g., HT8210H002).
on for included). For Class F coil, use catalog number prefix "GP" (e.g., GP8210G2) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "GPHT" or "GPHB" (e.g., GPHT8210G002) and specify voltage.
Approvals:       ght, Types 4     UL listed; CSA certified.       P     Ordering Information:       d G) Dust     Use catalog number prefix "EF"       to     (e.g., EF8210G002) and specify voltage.
SP d G)



### Optional Features Electrical



Type 7 (A, B, C, and D) Explosionproof Solenoids with Class H High-Temperature Coils	<ul> <li>Enclosure:</li> <li>Same as Class F Explosionproof Coil: Insulation system suitable for coil temperatures up to 356°F (180°C). ①</li> <li>For ambient temperature requirements, refer to specific Series and charts in Engineering Information Section.</li> <li>Suitable for 50 and 60 Hz. ②</li> </ul>	Approvals: UL listed; CSA certified.Ordering Information: Depending on wattage, use catalog number prefix "EFHT" or "EFHB" (e.g., EFHT8210G002) and specify voltage.	
Type 7 (A,B, C, and D) Explosionproof Solenoids with Class F or H High-Temperature Coils	Enclosure: • Same as above, but with 316 stainless steel conduit hub and stainless steel base plate. Coils: • Same as Class F or H Coil	ATEX Approved for:         II 2G Ex d mb IIC T* Gb under SIRA         14ATEX1192X         II 2D Ex mb tb IIIC t* Db IP67 under SIRA         14ATEX1192X         IECEx Approved for:         Ex d mb IIC T* Gb under IECEx SIR 14.0064X         Ex mb tb IIIC T* Db IP67 under IECEx SIR         14.0064X         *T-codes and temperature ratings will vary based on coil wattages         Ordering Information:         For Class F Coil, use catalog number prefix "EV"         (e.g., EV8262H220) and specify voltage. For Class         H coil, depending on wattage, use catalog number prefix "EVHT" or "EVHB" (e.g., EVHT8327G002) and specify voltage.	
Type 7 (A,B, C, and D) Low Power Solenoids with Class F DC Surge Suppression Coils	Enclosure: • Same as Class F Explosionproof coil. Coils: • Built-in surge suppression diodes. • Low power – 1.7 Watts. • Class F insulation only.	Ordering Information: For Surge Suppression coils, use catalog number prefix "EFMF" or "EVMF" (e.g., EFMF8314H300), and specify voltage. Note: Surge Suppression coils are only available for Explosionproof Low Power coils.	
Open Frame Solenoids with Class F or H High-Temperature Spade Terminal Coils	<ul> <li>Valves with Open Frame solenoid construction are intended for use when a solenoid enclosure is not needed; e.g., mounting in a control cabinet.</li> <li>Same as Class F or H above, but with 1/4" spade terminals.</li> <li>Suitable for 50 and 60 Hz. ②</li> </ul>	Ordering Information: For Class F coil, depending on wattage, use catalog number prefix "OFSF" or "OFSP" (e.g., OFSF8210G002) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "OFSS" or "OFST" (e.g., OFST8210G002) and specify voltage. <b>Note:</b> Spade Terminal Coils are not available above 250 volts AC or DC.	
Panel Mount Solenoids with Class F or H High-Temperature Spade Terminal Coils	Same as above, but with provision for mounting on a panel (panel not included).	Ordering Information: For Class F coil, use catalog number prefix "OPSF" or "OPSP" (e.g., OPSF8210G002) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "OPSS" or "OPST" (e.g., OPST8210G002) and specify voltage. Note: Spade Terminal Coils are not available above 250 volts AC or DC.	
	 Class F insulation systems and 320°F (160° ed voltage, which is standard throughout th		l

**OPTIONAL** FEATURES



青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼<sub>7</sub>F

服务热线:4006-918-365 网址:http://www.ivalve.cc 传真:(86-532)585-10-365 Email : sales@bechinas.com

### ASCQ<sup>®</sup>

### **Optional Features**

FI	lectrical
	ecuicai

Open Frame Solenoids with Class F or H High-Temperature Screw Terminal Coils	<ul> <li>Valves with Open Frame solenoid construction are intended for use when a solenoid enclosure is not needed; e.g., mounting in a control cabinet. (1)</li> <li>Same as Class F or H above, but with #8 screws terminals.</li> <li>Suitable for 50 and 60 Hz. (2)</li> </ul>	Ordering Information: For Class F coil, depending on wattage, use catalog number prefix "OFKF" or "OFKP"(e.g., OFKF8210G002) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "OFKH" or "OFKB" (e.g., OFKH8210G002) and specify voltage. Note: Screw Terminal Coils are not available above 250 volts AC or DC. Note: For replacement screw terminal connector kit, order 256104-*	
Panel Mount Solenoids with Class F or H High-Temperature Screw Terminal Coils	Coils: • Same as above, but with provision for mounting on a panel (panel not included).	Ordering Information: For Class F coil, depending on wattage, use catalog number prefix "OPKF" or "OPKP" (e.g., OPKP8210G002) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "OPKH" or "OPKB" (e.g., OPKH8210G002) and specify voltage. Note: Screw Terminal Coils are not available above 250 volts AC or DC. Note: For replacement screw terminal connector kit, order 256104-*	
Junction Box Solenoids with Class F or H High-Temperature Spade or Screw Terminal Coils	<ul> <li>Enclosures meet Type 1 General Purpose, Type 2 Dripproof, Types 3 and 3S Raintight, and Types 4 and 4X Watertight requirements.</li> <li>Supplied standard with 1/2" threaded conduit hub and grounding provision.</li> <li>Must be ordered with spade or screw terminals.</li> </ul>	Ordering Information: For Class F coil, depending on wattage, use catalog number prefix "JSP," "JSP," "JKF," or "JKP" (e.g., JSF8210G2) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "JSS," "JST," "JKH," or "JKB" (e.g., JKH8210G002) and specify voltage. Note: Junction Box Options are not available above 250 volts AC or DC.	
Class F General Purpose Only with Quick Disconnect Pin Connectors	<ul> <li>Available for wattages 10.1, 17.1, 11.6, and 22.6.</li> <li>VT, VB: Micro 4 pin anodized aluminum electrical termination. Electrical connection size:</li> <li>Dual keyway 1/2-20 UNF (AC)</li> <li>Single keyway M12 x 1 (DC)</li> <li>ZT, ZB: Mini 3 pin epoxy coated zinc electrical termination. Electrical connection size:</li> <li>7/8-16 UNS-2A (AC &amp; DC)</li> </ul>	Ordering Information: For Class F coil, depending on wattage, use catalog number prefix VT, VB, ZT, or ZB. (e.g. VT8262H232) and specify voltage.	
	for Class F insulation systems and 320°F (160°C) f duced voltage, which is standard throughout the wo		1



青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

### **Optional Features** Electrical



Class F or H High-Temperature Coils with DIN Connections	<ul> <li>Meets ISO 4400/DIN 43650 requirements.</li> <li>Class F insulation system suitable for coil temperatures up to 311°F (155°C). ① For ambient temperature requirements, refer to specific Series and charts in Engineering Information Section.</li> <li>Class H insulation system suitable for coil temperatures up to 356°F (180°C). ① For ambient temperature requirements, refer to specific Series and charts in Engineering Information Section.</li> <li>Enclosure protection.</li> <li>Enclosure protection with DIN connector equivalent to Types 1 and 4.</li> <li>Suitable for 50 and 60 Hz. ②</li> </ul>	Ordering Information: For Class F Coil, depending on wattage, use catalog number prefix "SC" or "SD" (e.g., SC8210G002) and specify voltage. For Class H coil, depending on wattage, use catalog number prefix "SU" or "SV" (e.g., SU8210G002) and specify voltage. Note: DIN Connection Coils are not available above 250 volts AC or DC. Note: For replacement DIN terminal connector kit, order 276983 Note: Optional Female DIN connector kits are listed in the "Accessories" section under "Electrical Connectors".	
Junction Box for Class F or H Coils	Junction box (shown installed on RedHat II solenoid) is a zinc coated steel housing with two 7/8" knock-outs for through wiring. UL listed when ordered factory assembled. Also available, without UL listing, as a kit with grounding screw for field installation.	Ordering Information: For factory assembly, add prefix "JB" to Valve Catalog Number. For kit, use number 272140-001*.	
Sub-Miniature Coils for Series 8256, 8356, 8380, 8401, and 8551 Class F High-Temperature Molded Coils with DIN Connection	<ul> <li>These sub-miniature coils meet 3 x DIN 46244 requirements.</li> <li>Insulation system suitable for coil temperatures up to 311°F (155°C). (1) For ambient temperature requirements, refer to specific Series and charts in Engineering Information Section.</li> <li>Suitable for 50 and 60 Hz. (2)</li> <li>"Enclosure Protection" with DIN connector equivalent to Types 1 and 4.</li> </ul>	Ordering Information: Use catalog prefix "SC" (e.g., SC8256A001V) and specify voltage. Note: Optional Female DIN connector kits are listed in the "Accessories" section under "Electrical Connectors".	
1/2" Threaded Conduit Hubs for Series 8256, 8356, 8380, 8401, and 8551	These conventional threaded hubs allow connection with 1/2" BX cable. Can be supplied with leaded coil only. Kit includes gasket and attaching screw.	<b>Ordering Information:</b> Order separate Kit No. 224735-001*.	
1/2" NPT threaded Conduit - Dual Approved Stainless Steel Encapsulated Coil – Class F	ATEX/IECEx: Ex d IIB+H2 T4 Gb / Ex tb IIIC T135C Db IP66 – IP67 UL/CSA: CLI, Div 1, Gp A, B, C, D / CLII, Div 1, Gp E, F, G Nominal ambiant temperature range: - Standard FKM : -10°F to 194°F ( -23°C to 90°C) Wattage: 1.8W	Ordering Information: For complete 362, 562 or 364 valve, see corresponding pages for exact part number. - spare part 505434	



青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼<sub>7</sub>F

服务热线:4006-918-365 网址:http://www.ivalve.cc 传真:(86-532)585-10-365 Email : sales@bechinas.com

### **Optional Features**

Explosionproof Junction Box for Hazardous Locations

# **ASCO**<sup>®</sup>

#### Features

- Junction Box Enclosures for the wiring of ASCO solenoids are Raintight Type 3 and 3S, Watertight Type 4 and 4X, Submersible Type 6 and 6P, Explosion-proof Type 7, Class I, Groups B, C, and D Dust-Ignition proof Type 9, Class II, Div. 1, Groups E, F and G, Nonincendive Class I, Div. 2 (1.4 watts only)
- Approvals: UL, CSA
- Electrostatic powder paint, stainless steel screws, and molded epoxy coils provide excellent protection in corrosion environments
- Factory pre-wired and assembled to any explosionproof ASCO RedHat II solenoid valve
- Reduces installation costs by eliminating the need to use a separate explosionproof splice box to terminate the solenoid valve's wiring

#### **Materials of Construction**

Housing and Cover	Epoxy painted die-cast aluminum	
Gasket	NBR	
Cover Screws	Stainless Steel	
Coil	Epoxy Molded	
Ground Screws	Steel	
Terminal Block	Plastic	
Lock Nut	Zinc	

#### Electrical

 
 Standard
 AC:
 24, 120, 240, 480 volts, 60 Hz or (110, 220 volts, 50 Hz)

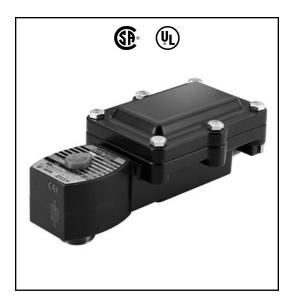
 DC:
 6, 12, 24, 120, 240

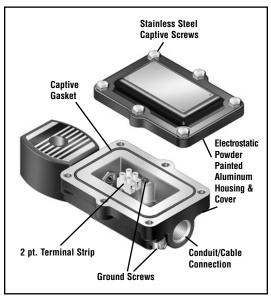
**Note:** Valves with JBEF housing maintain wattage and current ratings as shown on individual catalog sheets.

Conduit	1/2" NPT	JBEF Prefix
Sizes	3/4" NPT	JCEF Prefix

#### Approvals

Explosionproof Junction Box Agency Approvals						
	Min. Temperature					
	JB	EF	JCEF		Gas	
Agency	°F	°C	°F	°C	Groups	
UL	-40	-40	-13	-25	Class I, Groups B, C, & D	
CSA	-40	-40	-13	-25	Class I, Groups B, C, & D	
USA	-40	-40	-40	-40	Class I, Groups C & D	





#### **Ordering Information**

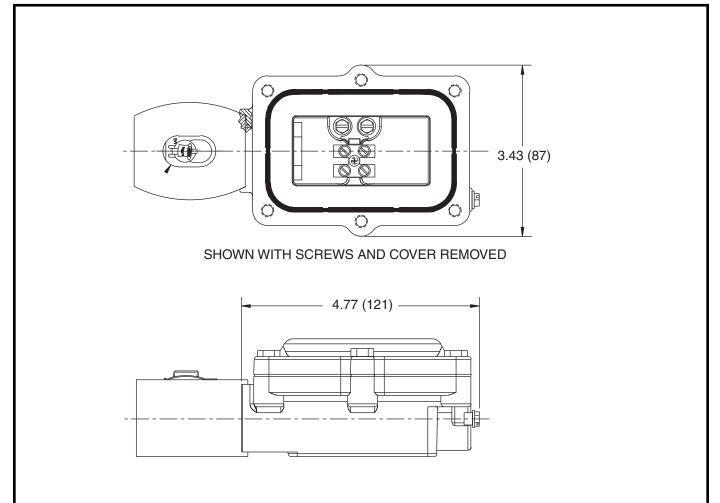
Add prefix corresponding to specific conduit size required to any RedHat II valve catalog numbers & specify the voltage. Example: JBEF8210G095, 120/60.



**Optional Features** Explosionproof Junction Box for Hazardous Locations

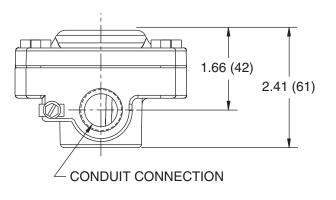


#### **Dimensions:** inches (mm)



#### **Replacement Coil Kits**

Kit Number	Size (watts)	Voltage	Prefix
278000-032	6.1	120/60	
278000-132	9.1	120/60	
278001-006	10.6	24DC	
278012-032	10.1	120/60	
278012-132	17.1	120/60	JBEF
278013-006	11.6	24DC	JDLI
278024-032	16.1	120/60	
278024-132	20.1	120/60	
278013-903	1.4	12DC	
278013-902	1.4	24DC	



Ĩ





#### **Optional Construction Features**

Standard valve construction materials for standard valves are shown on the Series pages. If handling fluids other than those listed in the Specifications section, you may require special constructions, however. The most frequently used elastomers are listed in Table 4 along with the Valve Series in which they are available. Other considerations for a variety of liquids and gases are included in the Valve Material Selection Guide located in the Engineering Section. A solenoid valve must use certain construction material for proper electrical function. If you cannot find the specific fluid in the guide, please consult your local ASCO office.

Certain fluids may also require that we change the solenoid shading coil. The standard valves use a copper shading coil. Aluminum and silver are also available and, due to their different magnetic properties, additional electrical changes may be necessary. When a change in shading coil material is indicated in the guide, please consult your local ASCO office.

Table 4: Optional Construction Features for ASCO Solenoid Valves Handling Liquids and Gases other than Air, Inert Gas, Water, and Light Oil. Orders entered using this table MUST state actual fluid and pressure of application.

			Special Construction Features ③ ELASTOMERS					
Pipe	Series	Valve	EPDM	Oxygen Service	PTFE	FKM	CR	
Size (in)	Number or Valve Type	Construction Number	Use Suffix "E"	Use Suffix "N" ①	Use Suffix "T" ②	Use Suffix "V"	Use Suffix "J"	
Solenoid Operated Valves								
3/8 - 3/4	8030, 8040	1-10, 13			Not Available	Available		
3/8 - 1 1/2	8210	1, 2, 5, 6, 7, 8, 9, 11, 12, 16, 18, 23, 24, 25, 26, 28, 29, 31-51	Available		Not Available	Available		
3/4 - 2 1/2	8210	10, 20, 21, 27, 30			Available	Available		
3/8 - 3	8215	All	Not Available		Not Available	Available		
All	8260	1, 2, 3	Availa		Not Available	Available		
All	8260	4, 5, 6		Available	Not Available	Not Available	Available	
1/8 - 3/8	8262, 8263	1-6			Available	Available		
1/8 & 1/4	8262	1-4	Available	Available	Available	Available		
3/8 & 1/2	8316	1, 2			Not Available	Available		
3/4 & 1	8316	3, 4, 5				Not Available	Available	
All	8320, 8360	All		Available	Available			
Air Operated V	alves							
1/4	2 Ports	1, 2, 22			Available			
3/8 - 3/4	2 Ports	8			Not Available			
3/8 - 3/4	2 Ports	3, 4			Not Available			
3/8 - 3/4	2 Ports	6, 7, 16, 17			Not Available			
1 & 1 1/4	2 Ports	10, 12, 18, 19	Available	e Available	Not Available	Available	Available	
1 1/2	2 Ports	14, 20			Not Available			
1/4	3 Ports	1			Available			
3/8 & 1/2	3 Ports	2			Not Available			
3/4 & 1	3 Ports	3, 4			Not Available			

② Pressure ratings must be reduced by 25%.

③ Unless otherwise indicated in the Series Specification Tables, all soft seating valves are supplied with NBR discs, diaphragms, or gaskets.



#### **Optional Features**

Construction



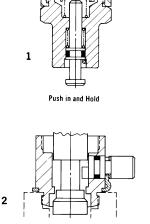
#### **Manual Operators**

Manual operators are provided to operate the valve manually when electric power is off. There are basically two types of manual operators: momentary and maintained. Series 8320, 8321, and 8342 can be fitted with either type.

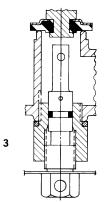
To determine which type is available for your valves, check the Construction Reference Numbers in their Series Specification Tables against the Table below. Schematics of the manual operators and how they are fitted to the valves are shown on the right. If no manual operator is listed or a different type is required, consult your local ASCO office. Add suffix "MO" or "MS" to the catalog number.

Table	5:	Manual	0	perators
-------	----	--------	---	----------

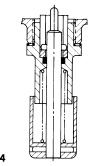
Series Number	Pipe Size (in)	Valve Construction Reference Number	Valve Body Materials	Manual Operator Suffix	Type of Manual Operator	Illustration Number
8030	3/8, 1/2	1, 2, 3, 11	Brass	MO	Maintained	5
8030	3/4	9	Brass	MO	Maintained	3
8030	3/8, 1/2	1, 2, 3, 11	Stainless Steel	MO	Maintained	5
8030	3/4	10	Stainless Steel	MO	Maintained	3
8210	3/8, 1/2	1, 2	Stainless Steel	MO	Maintained	5
8210	3/8, 1/2	1, 2	Brass	MO	Maintained	5
8210	3/8 to 2 1/2	3, 5, 6, 8, 9, 11, 12, 16, 18, 20, 21	Brass	МО	Maintained	2
8210	3/4 to 1 1/2	10, 31, 32, 33	Brass	MO	Maintained	3
8210	1	42	Brass	MO	Maintained	4
8210	3/4	7	Stainless Steel	MO	Maintained	2
8221	3/8 to 2 1/2	1, 2, 5, 6 ,7, 11, 12	Brass	MO	Maintained	2
8262	1/8	1	Brass	MO	Maintained	3
8262	1/8	1	Stainless Steel	MO	Maintained	3
8262	1/8	8	Brass	MS MO	Maintained Momentary	3 1
8262	1/8	8	Stainless Steel	MS MO	Maintained Momentary	3 1
8262	1/4	2, 4, 6, 16, 17	Brass	MO	Maintained	2
8262	1/4	11, 12 ,13	Stainless Steel	M0 6	Maintained	2
8263	3/8	3, 5, 7	Brass	MO	Maintained	2
MANUAL O	PERATORS ④ I	FOR 3-WAY SOLENOID VALVE	S			
8300	All	All	Brass	MO	Maintained	4
8300	All	All	Stainless Steel	MO	Maintained	4
8316	All	All	Brass	MO	Maintained	2
8320	1/8, 1/4	All	Brass/SS	MS (5) MO (1)	Maintained Momentary	3 1
8321	All	All	Brass	MS MO	Maintained Momentary	3 1
MANUAL O	PERATORS ④	FOR 4-WAY SOLENOID VALVE	S			
8340	1/4	8340A001, A003, A004	Aluminum	MO	Momentary	1
8342	1/4, 3/8	Single Solenoid Only	Brass/SS	MS MO	Maintained Momentary	4 1
8344 3	All	All	Brass	MO	Maintained	2
8345	1/4	1	Brass	MO	Maintained	5
8401	1/8, 1/4	All	Aluminum	2	Momentary Maintained	-
		E ALSO AVAILABLE FOR ALL Y). USE SUFFIX "MO."	LOW POWER AND	INTRINSICALLY	SAFE VALVES	
<ol> <li>Limited to</li> <li>Supplied</li> <li>Two man</li> <li>Limited to</li> <li>Valves with</li> </ol>	o 100 psi (7 ba as standard, n ual operators r o 250 psi (17 b ith MS suffix m	r) maximum on Normally Ope o suffix required. equired for Dual Solenoid con ar) pressure, except where m aintain full catalog ratings. ailable for this series with stea	struction. bted otherwise.	peration.		



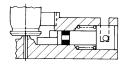
Rotary Stem in Bonnet



Threaded Stem in Body



Push in and Lock



Rotary Stem in Body

<del>传真:(86-532)585-10-30</del>5 Email : sales@bechinas.com

458

青岛秉诚自动化设备有限公司

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

服务热线:4006-918-365 网址:http://www.ivalve.cc

5

## ASCO®

#### Optional Features Construction

#### **Metering Devices**

Metering Devices are used for obtaining an exact flow from solenoid valves for dispensing or for moving an air operator in a given time period. Valves which can be fitted with metering devices are 8260, 8401, 8402, and 8342. Add suffix "M" to catalog numbers.

#### **Special Cleaning and Testing Procedures:**

If special cleaning and testing procedures are required, they must be specified when ordered. These procedures cannot be done after the valve is built.

Fluid	Description of Cleaning or Testing Procedure	Order by Specifying		
Freon	All valve parts inspected for oil, grease, metal dust, and other foreign matter and degreased, if necessary. Assembled in clean, dry area and helium mass spectrometer tested for external leakage. Pipe connections sealed with plugs.	Clean and test per ASCO AP-1-005 Procedure.		
Oxygen	All valve parts degreased and blacklight inspected for cleanliness. Assembled and tested in clean area using oil-free air or nitrogen. Helium mass spectrometer tested for external leakage. Pipe connec- tions sealed with plugs. Each valve tagged covering certification of tests and put in a sealed bag.	Clean and test per ASCO AP-1-004 Procedure. Add Suffix "N" to catalog Number.		
Sanitary distilled water and other clean systems	All valve parts inspected for oil, grease, metal dust, and other foreign matter and degreased, if necessary. Valves assembled in clean area and tested with clean, dry air or nitrogen. Pipe connections sealed with plugs.	Clean and test per ASCO AP-1-008 Procedure.		

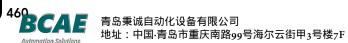
#### Table 6: ASCO Special Cleaning and Testing Procedures



BCAE

青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼<sub>7</sub>F





服务热线:4006-918-365 网址:http://www.ivalve.cc

传真:(86-532)585-10-365 Email:sales@bechinas.com