

NEW EDITION
NOVEMBER 2019



G7 Series Solenoid Valves

The Evolution of Gold Ring™ & Skinner®



ENGINEERING YOUR SUCCESS.



WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN, OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met.

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Parker Safety Guidelines for Selecting and Using Fluid Control Division Products Including Valves, Assemblies and Related Accessories

Warning: Failure or improper selection or improper use of Parker Fluid Control Division Products, including valves, assemblies or related accessories ("Products") can cause death, personal injury and property damage.

Possible consequences of failure or improper use of these Products include but are not limited to:

- Gas leakage leading to explosion or rupture of a pressure vessel.
- Leakage or other release of toxic or otherwise hazardous liquids or gases.
- Unintended or mistimed cycling or motion of machine members, or failure of machine members to cycle.
- Sudden moving or falling objects.
- Work piece or component parts being thrown off at high speeds.
- Failure of a device to function properly. For example, failure to clamp or unclamp an associated item or device.
- Electrical shorts, burns, burn out of equipment or fires.

Before selecting or using any of these Products, it is important that you read and follow the instructions on page 23.



CALIFORNIA PROP 65: WARNING:

This product can expose you to chemicals including lead which is known to the State of California to cause cancer and birth defects, or other reproductive harm.

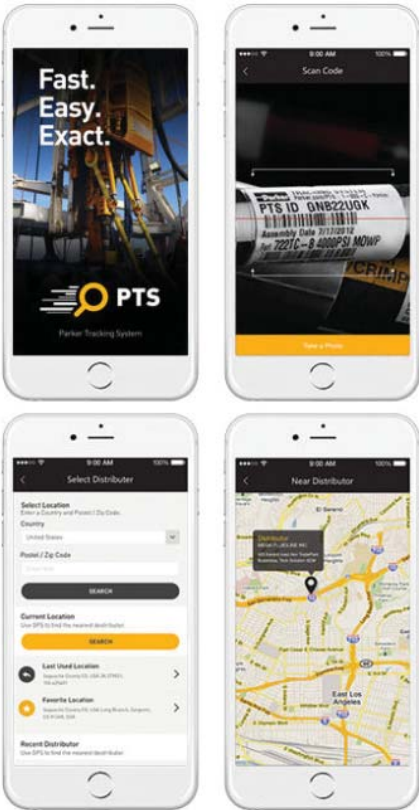
For more information go to
www.P65Warnings.ca.gov

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ValveFinder & Parker Tracking System

Connecting you to Parker Fluid Control Division



ValveFinder App

Fluid Control Division's ValveFinder app is an innovative and user-friendly valve configuration and competitor cross-reference tool.

By creating a faster, more efficient valve selection process, Parker makes it easier than ever before to find the valve you need quickly and easily!

Get started with ValveFinder now at www.parker.com/ValveFinder

Access ValveFinder for smart phone, tablet, or computer:



Parker Tracking System (PTS)

PTS is an innovative component tagging and tracking solution. By creating a smarter, more connected product, Parker is driving new levels of productivity, efficiency, and reliability.

PTS delivers an unparalleled asset management and traceability ecosystem, reduces system down time, and ensures all relevant technical information is just a click away.

See Parker Tracking System in action at www.parker.com/PTS



Download PTS Mobile for smart phone or tablet:



G7 Series Solenoid Valves

THE EVOLUTION OF **GOLD RING**[™]
SKINNER[®] **7000** SERIES

**Tougher.
Faster.
Smarter.**

Series Overview

Family Designator in Part No.

23RC08UV7C7F

- 20 = 2-Way Direct Acting
- 30 = 3-Way Direct Acting
- 22 = 2-Way Internally Piloted
- 23 = 2-Way Direct Lift

Specifications

- **Sizes:** 1/8" - 3/4" NPT
- **Pressures:** Up to 2,200 psi
- **Flows:** Up to 5.0 Cv
- **Body Materials:**
 - Lead-Free Brass[□]
 - 303 Stainless Steel
 - 316L Stainless Steel

Features & Benefits

Tougher

- Industry-Leading Performance
- Long Life, up to 20 Million Cycles•
- Environmentally Resistant up to IP69
- Corrosion Resistant

Faster

- 24-Hour Express Ship Program
- Simplified Installation & Service
- Durable, Laser-Marked Identification

Smarter

- SDWA Compliant[□]
- Parker Tracking System (PTS)



IP69



[□] Compliant to SDWA Section 1417(d)

• Under laboratory conditions, certain valve constructions have survived up to 20 million cycles. Consult factory for more information.

Design Your Solution

3 Easy Steps

Step 1: Mechanical Prefix

+

Step 2: Electrical Suffix

=

Step 3: Valve Number

Example:

23RC08UV7

+

C7F

=

23RC08UV7C7F

Reference tables on pages 7-16 for desired construction, performance, and voltage type.

This is the prefix of a Valve Ordering Number (Pressure Vessel)

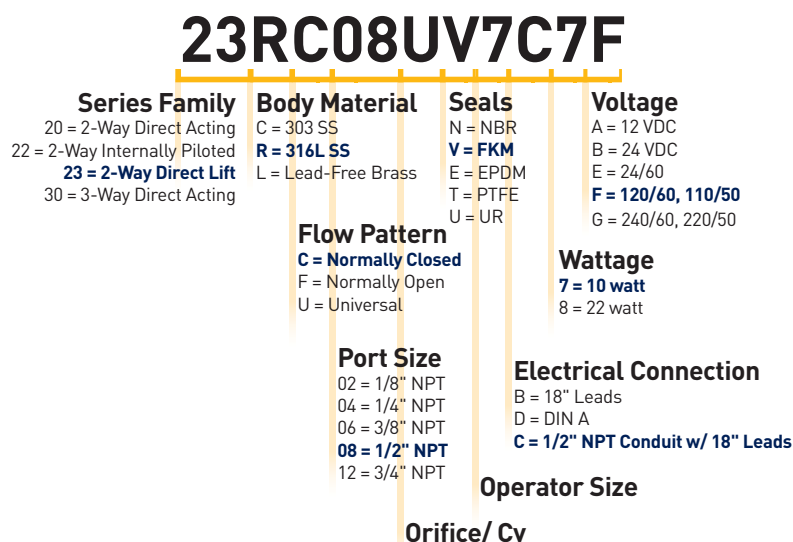
Reference Electrical Suffix Chart associated with prefix chosen, starting on page 17.

This is the suffix of a Valve Ordering Number (Solenoid Coil)

Combine Mechanical Prefix and Electrical Suffix to form Valve Ordering Number.

This is the complete Valve Ordering Number (Valve Assembly)

Series Nomenclature



Need it Fast?

Follow the ⚡ symbols in this catalog for 24 Hour Express Ship Program eligibility. Additional configurations may be available quickly from the factory or through a local distributor.

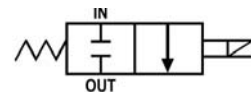
Configure and Cross-Reference



www.parker.com/ValveFinder



2-Way Normally Closed, Direct Acting - 303 Stainless Steel



	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power Watts	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F						
AC	1/8	3/64	0.05	0	2200	2200	2200	140	UR*	10	20CC02EP7	A	1	●
	1/8	1/16	0.10	0	1400	1400	1400	140	UR*	10	20CC02GP7	A	1	●
	1/8	1/16	0.10	0	750	750	750	185	FKM	10	20CC02GV7	A	1	■
	1/8	3/32	0.18	0	550	550	550	185	FKM	10	20CC02LV7	A	1	■
	1/8	1/8	0.29	0	375	375	375	185	FKM	10	20CC02PV7	A	1	■
	1/8	5/32	0.43	0	230	230	230	185	FKM	10	20CC02QV7	A	1	■
	1/4	3/64	0.05	0	2200	2200	2200	140	UR*	10	20CC04EP7	A	2	●
	1/4	1/16	0.10	0	1400	1400	1400	140	UR*	10	20CC04GP7	A	2	●
	1/4	1/16	0.10	0	750	750	750	185	FKM	10	✓ 20CC04GV7	A	2	■
	1/4	3/32	0.18	0	550	550	550	185	FKM	10	✓ 20CC04LV7	A	2	■
	1/4	1/8	0.29	0	375	375	375	185	FKM	10	✓ 20CC04PV7	A	2	■
	1/4	5/32	0.43	0	230	230	230	185	FKM	10	✓ 20CC04QV7	A	2	■
	1/4	7/32	0.79	0	110	110	110	185	FKM	10	✓ 20CC04TV7	A	2	■
	1/4	9/32	1.06	0	40	40	40	185	FKM	10	✓ 20CC041V7	A	2	■
	3/8	5/32	0.43	0	230	230	230	185	FKM	10	20CC06QV7	A	3	■
	3/8	7/32	0.79	0	110	110	110	185	FKM	10	✓ 20CC06TV7	A	3	■
	3/8	9/32	1.06	0	40	40	40	185	FKM	10	20CC061V7	A	3	■
Max. Ambient Temp. 150°F														

* UR plunger seal and FKM flange seal

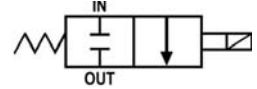
✓ Express Ship Program eligible when configured with an eligible electrical suffix

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



2-Way Normally Closed, Direct Acting - 303 Stainless Steel



Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
1/8	3/64	0.05	0	2200	2200	2200	140	UR*	10	20CC02EP7	B	1	●
1/8	1/16	0.10	0	1250	1250	1250	140	UR*	10	20CC02GP7	B	1	●
1/8	1/16	0.10	0	750	750	750	185	FKM	10	20CC02GV7	B	1	■
1/8	3/32	0.18	0	660	660	660	185	FKM	22	20CC02LV7	C	1	■
1/8	3/32	0.18	0	520	520	520	185	FKM	10	20CC02LV7	B	1	■
1/8	1/8	0.29	0	280	280	280	185	FKM	22	20CC02PV7	C	1	■
1/8	1/8	0.29	0	165	165	165	185	FKM	10	20CC02PV7	B	1	■
1/8	5/32	0.43	0	130	130	130	185	FKM	22	20CC02QV7	C	1	■
1/8	5/32	0.43	0	85	85	85	185	FKM	10	20CC02QV7	B	1	■
DC													
1/4	3/64	0.05	0	2200	2200	2200	140	UR*	10	20CC04EP7	B	2	●
1/4	1/16	0.10	0	1250	1250	1250	140	UR*	10	20CC04GP7	B	2	●
1/4	1/16	0.10	0	750	750	750	185	FKM	10	20CC04GV7	B	2	■
1/4	3/32	0.18	0	660	660	660	185	FKM	22	20CC04LV7	C	2	■
1/4	3/32	0.18	0	520	520	520	185	FKM	10	20CC04LV7	B	2	■
1/4	1/8	0.29	0	280	280	280	185	FKM	22	20CC04PV7	C	2	■
1/4	1/8	0.29	0	165	165	165	185	FKM	10	20CC04PV7	B	2	■
1/4	5/32	0.43	0	130	130	130	185	FKM	22	20CC04QV7	C	2	■
1/4	5/32	0.43	0	85	85	85	185	FKM	10	20CC04QV7	B	2	■
1/4	7/32	0.79	0	70	70	70	185	FKM	22	20CC04TV7	C	2	■
1/4	9/32	1.06	0	60	60	60	185	FKM	22	20CC041V7	C	2	■
1/4	7/32	0.79	0	40	40	40	185	FKM	10	20CC04TV7	B	2	■
1/4	9/32	1.06	0	15	15	15	185	FKM	10	20CC041V7	B	2	■
3/8	5/32	0.43	0	130	130	130	185	FKM	22	20CC06QV7	C	3	■
3/8	5/32	0.43	0	85	85	85	185	FKM	10	20CC06QV7	B	3	■
3/8	7/32	0.79	0	70	70	70	185	FKM	22	20CC06TV7	C	3	■
3/8	9/32	1.06	0	60	60	60	185	FKM	22	20CC061V7	C	3	■
3/8	7/32	0.79	0	40	40	40	185	FKM	10	20CC06TV7	B	3	■
3/8	9/32	1.06	0	15	15	15	185	FKM	10	20CC061V7	B	3	■
Max. Ambient Temp. 150°F (10 watt) / 125°F (22 watt)													

* UR plunger seal and FKM flange seal

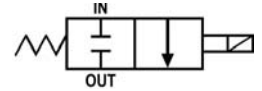
↗ Express Ship Program eligible when configured with an eligible electrical suffix

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



2-Way Normally Closed, Direct Acting - Lead-Free Brass



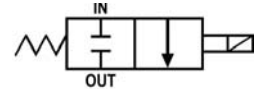
	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
AC	1/8	1/16	0.10	0	750	750	750	185	NBR	10	20LC02GN7	A	4	■
	1/8	3/32	0.18	0	550	550	550	185	NBR	10	20LC02LN7	A	4	■
	1/8	1/8	0.29	0	375	375	375	185	NBR	10	20LC02PN7	A	4	■
	1/8	5/32	0.43	0	230	230	230	185	NBR	10	20LC02QN7	A	4	■
	1/4	1/16	0.10	0	750	750	750	185	NBR	10	↗ 20LC04GN7	A	5	■
	1/4	3/32	0.18	0	550	550	550	185	NBR	10	↗ 20LC04LN7	A	5	■
	1/4	1/8	0.29	0	375	375	375	185	NBR	10	↗ 20LC04PN7	A	5	■
	1/4	5/32	0.43	0	230	230	230	185	NBR	10	↗ 20LC04QN7	A	5	■
	1/4	7/32	0.79	0	110	110	110	185	NBR	10	↗ 20LC04TN7	A	5	■
	1/4	9/32	1.06	0	40	40	40	185	NBR	10	↗ 20LC04IN7	A	5	■
	3/8	5/32	0.43	0	230	230	230	185	NBR	10	20LC06QN7	A	6	■
	3/8	7/32	0.79	0	110	110	110	185	NBR	10	↗ 20LC06TN7	A	6	■
3/8	9/32	1.06	0	40	40	40	185	NBR	10	20LC06IN7	A	6	■	
Max. Ambient Temp. 150°F														

✓ Express Ship Program eligible when configured with an eligible electrical suffix

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



2-Way Normally Closed, Direct Acting - Lead-Free Brass



	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
DC	1/8	1/16	0.10	0	750	750	750	185	NBR	10	20LC02GN7	B	4	■
	1/8	3/32	0.18	0	660	660	660	185	NBR	22	20LC02LN7	C	4	■
	1/8	3/32	0.18	0	520	520	520	185	NBR	10	20LC02LN7	B	4	■
	1/8	1/8	0.29	0	280	280	280	185	NBR	22	20LC02PN7	C	4	■
	1/8	1/8	0.29	0	165	165	165	185	NBR	10	20LC02PN7	B	4	■
	1/8	5/32	0.43	0	130	130	130	185	NBR	22	20LC02QN7	C	4	■
	1/8	5/32	0.43	0	85	85	85	185	NBR	10	20LC02QN7	B	4	■
	1/4	1/16	0.10	0	750	750	750	185	NBR	10	✓ 20LC04GN7	B	5	■
	1/4	3/32	0.18	0	660	660	660	185	NBR	22	20LC04LN7	C	5	■
	1/4	3/32	0.18	0	520	520	520	185	NBR	10	✓ 20LC04LN7	B	5	■
	1/4	1/8	0.29	0	280	280	280	185	NBR	22	20LC04PN7	C	5	■
	1/4	1/8	0.29	0	165	165	165	185	NBR	10	✓ 20LC04PN7	B	5	■
	1/4	5/32	0.43	0	130	130	130	185	NBR	22	20LC04QN7	C	5	■
	1/4	5/32	0.43	0	85	85	85	185	NBR	10	✓ 20LC04QN7	B	5	■
	1/4	7/32	0.79	0	70	70	70	185	NBR	22	20LC04TN7	C	5	■
	1/4	9/32	1.06	0	60	60	60	185	NBR	22	20LC041N7	C	5	■
	1/4	7/32	0.79	0	40	40	40	185	NBR	10	✓ 20LC04TN7	B	5	■
	1/4	9/32	1.06	0	15	15	15	185	NBR	10	20LC041N7	B	5	■
	3/8	5/32	0.43	0	130	130	130	185	NBR	22	20LC06QN7	C	6	■
	3/8	5/32	0.43	0	85	85	85	185	NBR	10	20LC06TN7	B	6	■
	3/8	7/32	0.79	0	70	70	70	185	NBR	22	20LC061N7	C	6	■
	3/8	9/32	1.06	0	60	60	60	185	NBR	22	20LC06QN7	C	6	■
	3/8	7/32	0.79	0	40	40	40	185	NBR	10	✓ 20LC06TN7	B	6	■
	3/8	9/32	1.06	0	15	15	15	185	NBR	10	20LC061N7	B	6	■
Max. Ambient Temp. 150°F (10 watt) / 125°F (22 watt)														

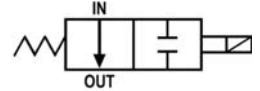
Max. Ambient Temp. 150°F (10 watt) / 125°F (22 watt)

✓ Express Ship Program eligible when configured with an eligible electrical suffix

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



2-Way Normally Open PIBOS*, Direct Acting - 303 Stainless Steel



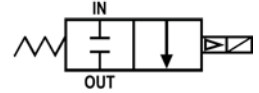
	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
AC DC	1/8	3/64	0.05	0	440	440	440	185	FKM	10	20CF02EV7	A or B	7	●
	1/8	1/16	0.10	0	360	360	360	185	FKM	10	20CF02GV7	A or B	7	●
	1/8	3/32	0.17	0	275	275	275	185	FKM	10	20CF02LV7	A or B	7	●
	1/4	3/64	0.05	0	440	440	440	185	FKM	10	20CF04EV7	A or B	8	●
	1/4	1/16	0.10	0	360	360	360	185	FKM	10	20CF04GV7	A or B	8	●
	1/4	3/32	0.17	0	275	275	275	185	FKM	10	20CF04LV7	A or B	8	●
Max. Ambient Temp. 150°F														

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

* PIBOS (Pressure In Body, Out Sleeve): An economical approach to 2-way normally open valves. Pressure enters body, exits through top of valve



2-Way Normally Closed, Internally Piloted - 316L Stainless Steel



	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
AC	3/8	5/8	3.0	0 ▶	300	300	300	185	FKM	10	23RC06TV7 *	A	21	■
	1/2	5/8	4.0	0 ▶	300	300	300	185	FKM	10	23RC08UV7 *	A	22	■
	3/4	3/4	5.0	0 ▶	300	300	300	185	FKM	10	23RC12VW7 *	A	23	■
Max. Ambient Temp. (AC): 150°F														
DC	3/8	5/8	3.0	5	300	300	300	185	FKM	22	22RC06TV7 *	C	21	■
	3/8	5/8	3.0	0 ▶	250	250	250	185	FKM	22	23RC06TV7 *	C	21	■
	3/8	5/8	3.0	5	150	150	150	185	FKM	10	22RC06TV7 *	B	21	■
	1/2	5/8	4.0	5	300	300	300	185	FKM	22	22RC08UV7 *	C	22	■
	1/2	5/8	4.0	0 ▶	250	250	250	185	FKM	22	23RC08UV7 *	C	22	■
	1/2	5/8	4.0	5	150	150	150	185	FKM	10	22RC08UV7 *	B	22	■
	3/4	3/4	5.0	5	300	300	300	185	FKM	22	22RC12VW7 *	C	23	■
	3/4	3/4	5.0	0 ▶	250	250	250	185	FKM	22	23RC12VW7 *	C	23	■
	3/4	3/4	5.0	5	150	150	150	185	FKM	10	22RC12VW7 *	B	23	■
Max. Ambient Temp. (DC): 125°F														

▶ Direct Lift construction: 0 psi actuation with full flow at 5 psi differential

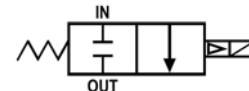
⚡ Express Ship Program eligible when configured with an eligible electrical suffix

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

* Voltage-specific construction: To order pressure vessel only, add suffix "A" (denotes AC version) or suffix "D" (denotes DC version) to end of Ordering No. Mechanical Prefix eg. 23RC08UV7D (DC version). Suffix not required when ordering full valve eg. 23RC08UV7C8B.



2-Way Normally Closed, Internally Piloted - Lead-Free Brass



	Port Size	Orifice Dia.	Flow Factor	Operating Pressure Differential (MOPD) psi				Max. Media Temp.	Seal Material	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref.	Agency
	NPT	Inch	Cv	Min	Air, Inert Gas	Water	Light Oil	°F		Watts				
AC	3/8	5/8	3.0	0 ▶	300	300	300	185	NBR	10	✓ 23LC06TN7 *	A	24	■
	1/2	5/8	4.0	0 ▶	300	300	300	185	NBR	10	✓ 23LC08UN7 *	A	25	■
	3/4	3/4	5.0	0 ▶	300	300	300	185	NBR	10	✓ 23LC12VN7 *	A	26	■
Max. Ambient Temp. [AC]: 150°F														
DC	3/8	5/8	3.0	5	300	300	300	185	NBR	22	22LC06TN7 *	C	24	■
	3/8	5/8	3.0	0 ▶	250	250	250	185	NBR	22	23LC06TN7 *	C	24	■
	3/8	5/8	3.0	5	150	150	150	185	NBR	10	22LC06TN7 *	B	24	■
	1/2	5/8	4.0	5	300	300	300	185	NBR	22	22LC08UN7 *	C	25	■
	1/2	5/8	4.0	0 ▶	250	250	250	185	NBR	22	23LC08UN7 *	C	25	■
	1/2	5/8	4.0	5	150	150	150	185	NBR	10	✓ 22LC08UN7 *	B	25	■
	3/4	3/4	5.0	5	300	300	300	185	NBR	22	22LC12VN7 *	C	26	■
	3/4	3/4	5.0	0 ▶	250	250	250	185	NBR	22	23LC12VN7 *	C	26	■
	3/4	3/4	5.0	5	150	150	150	185	NBR	10	22LC12VN7 *	B	26	■
Max. Ambient Temp. [DC]: 125°F														

▶ Direct Lift construction: 0 psi actuation with full flow at 5 psi differential

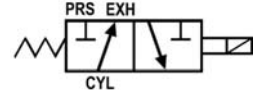
✓ Express Ship Program eligible when configured with an eligible electrical suffix

■ Safety Shutoff: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

* Voltage-specific construction: To order pressure vessel only, add suffix "A" (denotes AC version) or suffix "D" (denotes DC version) to end of Ordering No. Mechanical Prefix eg. 23LC08UN7D (DC version). Suffix not required when ordering full valve eg. 23LC08UV7C8B.



3-Way Normally Closed, Direct Acting - 303 Stainless Steel

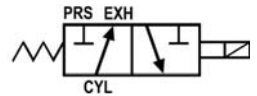


	Port Size	Orifice Dia (PRS)	Orifice Dia (EXH)	Flow Factor (PRS)	Flow Factor (EXH)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	3/64	3/64	0.05	0.05	0	440	185	NBR	10	30CC02EN7	A or B	9	●
	1/8	1/16	1/16	0.10	0.10	0	285	185	NBR	10	30CC02GN7	A or B	9	●
	1/8	3/32	3/32	0.18	0.17	0	160	185	NBR	10	30CC02LN7	A or B	9	●
	1/8	1/8	3/32	0.29	0.17	0	95	185	NBR	10	30CC02PN7	A or B	9	●
	1/4	3/64	3/64	0.05	0.05	0	440	185	NBR	10	30CC04EN7	A or B	10	●
	1/4	1/16	1/16	0.10	0.10	0	285	185	NBR	10	30CC04GN7	A or B	10	●
	1/4	3/32	3/32	0.18	0.17	0	160	185	NBR	10	30CC04LN7	A or B	10	●
	1/4	1/8	3/32	0.24	0.17	0	95	185	NBR	10	30CC04PN7	A or B	10	●
Max. Ambient Temp. 150°F														

✓ Express Ship Program eligible when configured with an eligible electrical suffix

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

3-Way Normally Closed, Direct Acting - Lead-Free Brass

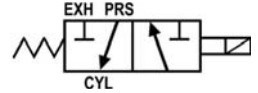


	Port Size	Orifice Dia (PRS)	Orifice Dia (EXH)	Flow Factor (PRS)	Flow Factor (EXH)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	3/64	3/64	0.05	0.05	0	440	185	NBR	10	30LC02EN7	A or B	15	●
	1/8	1/16	1/16	0.10	0.10	0	285	185	NBR	10	30LC02GN7	A or B	15	●
	1/8	3/32	3/32	0.18	0.17	0	160	185	NBR	10	30LC02LN7	A or B	15	●
	1/8	1/8	3/32	0.29	0.17	0	95	185	NBR	10	30LC02PN7	A or B	15	●
	1/4	3/64	3/64	0.05	0.05	0	440	185	NBR	10	30LC04EN7	A or B	16	●
	1/4	1/16	1/16	0.10	0.10	0	285	185	NBR	10	30LC04GN7	A or B	16	●
	1/4	3/32	3/32	0.18	0.17	0	160	185	NBR	10	30LC04LN7	A or B	16	●
	1/4	1/8	3/32	0.24	0.17	0	95	185	NBR	10	30LC04PN7	A or B	16	●
Max. Ambient Temp. 150°F														

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



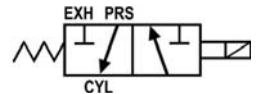
3-Way Normally Open, Direct Acting - 303 Stainless Steel



	Port Size	Orifice Dia (PRS)	Orifice Dia (EXH)	Flow Factor (PRS)	Flow Factor (EXH)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	3/64	3/64	0.05	0.05	0	325	185	NBR	10	30CF02EN7	A or B	11	●
	1/8	1/16	1/16	0.10	0.10	0	300	185	NBR	10	30CF02GN7	A or B	11	●
	1/8	3/32	3/32	0.17	0.18	0	180	185	NBR	10	30CF02LN7	A or B	11	●
	1/4	3/64	3/64	0.05	0.05	0	325	185	NBR	10	30CF04EN7	A or B	12	●
	1/4	1/16	1/16	0.10	0.10	0	300	185	NBR	10	30CF04GN7	A or B	12	●
	1/4	3/32	3/32	0.17	0.18	0	180	185	NBR	10	30CF04LN7	A or B	12	●
Max. Ambient Temp. 150°F														

- General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

3-Way Normally Open, Direct Acting - Lead-Free Brass

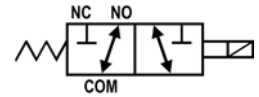


	Port Size	Orifice Dia (PRS)	Orifice Dia (EXH)	Flow Factor (PRS)	Flow Factor (EXH)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	3/64	3/64	0.05	0.05	0	325	185	NBR	10	30LF02EN7	A or B	17	●
	1/8	1/16	1/16	0.10	0.10	0	300	185	NBR	10	30LF02GN7	A or B	17	●
	1/8	3/32	3/32	0.17	0.18	0	180	185	NBR	10	30LF02LN7	A or B	17	●
	1/4	3/64	3/64	0.05	0.05	0	325	185	NBR	10	30LF04EN7	A or B	18	●
	1/4	1/16	1/16	0.10	0.10	0	300	185	NBR	10	30LF04GN7	A or B	18	●
	1/4	3/32	3/32	0.17	0.18	0	180	185	NBR	10	30LF04LN7	A or B	18	●
Max. Ambient Temp. 150°F														

- General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



3-Way Universal, Direct Acting - 303 Stainless Steel

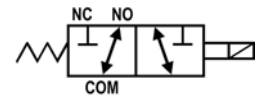


	Port Size	Orifice Dia (NC)	Orifice Dia (NO)	Flow Factor (NC)	Flow Factor (NO)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	1/32	1/32	0.02	0.02	0	435	185	NBR	10	30CU02AN7	A or B	13	●
	1/8	3/64	3/64	0.05	0.05	0	190	185	NBR	10	30CU02EN7	A or B	13	●
	1/8	1/16	1/16	0.10	0.10	0	135	185	NBR	10	30CU02GN7	A or B	13	●
	1/8	3/32	3/32	0.18	0.17	0	80	185	NBR	10	30CU02LN7	A or B	13	●
	1/4	1/32	1/32	0.02	0.02	0	435	185	NBR	10	30CU04AN7	A or B	14	●
	1/4	3/64	3/64	0.05	0.05	0	190	185	NBR	10	30CU04EN7	A or B	14	●
	1/4	1/16	1/16	0.10	0.10	0	135	185	NBR	10	30CU04GN7	A or B	14	●
	1/4	3/32	3/32	0.18	0.17	0	80	185	NBR	10	30CU04LN7	A or B	14	●
Max. Ambient Temp. 150°F														

✓ Express Ship Program eligible when configured with an eligible electrical suffix

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations

3-Way Universal, Direct Acting - Lead-Free Brass



	Port Size	Orifice Dia (NC)	Orifice Dia (NO)	Flow Factor (NC)	Flow Factor (NO)	Operating Pressure Differential (MOPD) psi		Max. Media Temp	Seal	Power	Ordering No. Mechanical Prefix	Elect. Suffix Chart	Const. Ref	Agency
	NPT	Inch	Inch	Cv	Cv	Min	Air, Inert Gas, Water, Light Oil	°F		Watts				
AC DC	1/8	1/32	1/32	0.02	0.02	0	435	185	NBR	10	30LU02AN7	A or B	19	●
	1/8	3/64	3/64	0.05	0.05	0	190	185	NBR	10	30LU02EN7	A or B	19	●
	1/8	1/16	1/16	0.10	0.10	0	135	185	NBR	10	30LU02GN7	A or B	19	●
	1/8	3/32	3/32	0.18	0.17	0	80	185	NBR	10	30LU02LN7	A or B	19	●
	1/4	1/32	1/32	0.02	0.02	0	435	185	NBR	10	30LU04AN7	A or B	20	●
	1/4	3/64	3/64	0.05	0.05	0	190	185	NBR	10	30LU04EN7	A or B	20	●
	1/4	1/16	1/16	0.10	0.10	0	135	185	NBR	10	30LU04GN7	A or B	20	●
	1/4	3/32	3/32	0.18	0.17	0	80	185	NBR	10	30LU04LN7	A or B	20	●
Max. Ambient Temp. 150°F														

● General Purpose: C-UL-US "Listed" with described seal material and conduit solenoid coil; C-UR-US "Recognized" in other coil configurations



Chart A

AC - 10 watt	Ordering No. Electrical Suffix	AC Voltages	Electrical Termination	Enclosure Rating*	Power (Watts)	Insulation Class
	⚡ C7F	120/60, 110/50	Easy-Install 1/2" NPT Conduit with 18" Leads (Incl. Ground Lead)	IP69	10	H
	C7G	240/60, 220/50				
	C7E	24/60				
	D7F	120/60, 110/50	DIN 43650A / ISO 4400	IP65 NEMA 4, 4X	10	H
	D7G	240/60, 220/50				
	D7E	24/60				
	B7F	120/60, 110/50	18" Leads (Incl. Ground Lead)	IP69	10	H
	B7G	240/60, 220/50				
	B7E	24/60				

* Enclosure rating requires proper installation and compliant mating connectors

⚡ Express Ship Program eligible when configured with an eligible mechanical prefix

Chart B

DC - 10 watt	Ordering No. Electrical Suffix	DC Voltages	Electrical Termination	Enclosure Rating*	Power (Watts)	Insulation Class
	C7A	12 VDC	Easy-Install 1/2" NPT Conduit with 18" Leads (Incl. Ground Lead)	IP69	10	H
	⚡ C7B	24 VDC				
	D7A	12 VDC	DIN 43650A / ISO 4400	IP65	10	H
	D7B	24 VDC		NEMA 4, 4X		
	B7A	12 VDC	18" Leads (Incl. Ground Lead)	IP69	10	H
	B7B	24 VDC				

* Enclosure rating requires proper installation and compliant mating connectors
⚡ Express Ship Program eligible when configured with an eligible mechanical prefix

Chart C

DC - 22 watt	Ordering No. Electrical Suffix	DC Voltages	Electrical Termination	Enclosure Rating*	Power (Watts)	Insulation Class
	C8A	12 VDC	Easy-Install 1/2" NPT Conduit with 18" Leads (Incl. Ground Lead)	IP69	22	H
	⚡ C8B	24 VDC				
	D8A	12 VDC	DIN 43650A / ISO 4400	IP65	22	H
	D8B	24 VDC		NEMA 4, 4X		
	B8A	12 VDC	18" Leads (Incl. Ground Lead)	IP69	22	H
	B8B	24 VDC				

* Enclosure rating requires proper installation and compliant mating connectors

⚡ Express Ship Program eligible when configured with an eligible mechanical prefix

Mechanical and Electrical Accessories

	Ordering No. Accessory Kit	Compatibility	Description	Enclosure Rating**
Consult Factory for Dimensions	MECHB5	Valves Types: 20C-, 20L-, 30C-, 30L-	Mounting Bracket (Zinc-Plated Steel)	N/A
Consult Factory for Dimensions	MECHB7	Valves Types: 22L-, 23L-, 22R-, 23R-	Mounting Bracket (Zinc-Plated Steel)	N/A
	ELECD8	Coil Type: DIN 43650A / ISO 4400	DIN to 1/2" NPT Conduit Kit (Powder-Coated Aluminum)	IP65 NEMA 4, 4X
	ELECD2	Coil Type: DIN 43650A / ISO 4400	DIN to 1/2" NPT Conduit Kit (Plastic)	IP65 NEMA 4, 4X
	ELECD1	Coil Type: DIN 43650A / ISO 4400	DIN to PG9 Cable Gland Kit (Plastic)	IP65 NEMA 4, 4X
	ELECE5	Coil Type: DIN 43650A / ISO 4400	DIN Cord Set Kit with 72" Leads (Plastic)	IP65 NEMA 4, 4X
	ELECD4	Coil Type: DIN 43650A / ISO 4400 (24-240v AC/DC)	Timer and Cord Set Kit with 24" Leads (12 min. fixed OFF, 1-120 sec. variable ON, Plastic)	IP65 NEMA 4, 4X

** Enclosure rating requires proper installation and compliant mating connectors

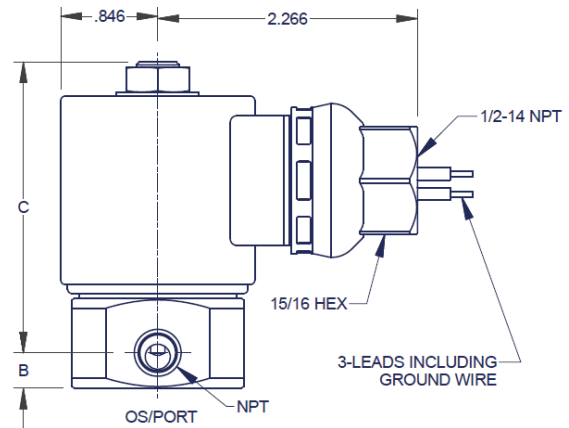
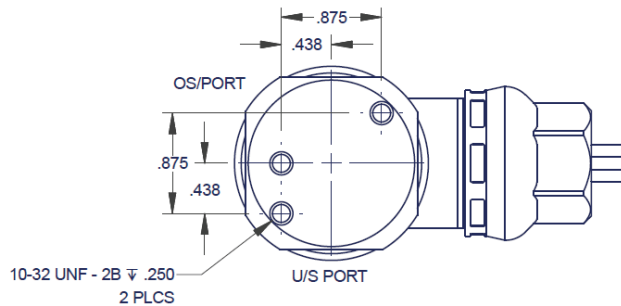
English Units

Ref.	Body Material	Body Type	Over Seat (O/S) Port	Under Seat (U/S) Port	Sleeve Port	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Weight (lbs.)
1	303 Stainless Steel	SS	IN	OUT	-	-	0.309	2.534	1.501	1.810	2.843	1.20
2	303 Stainless Steel	SS	IN	OUT	-	-	0.375	2.694	1.661	2.036	3.069	1.25
3	303 Stainless Steel	SS	IN	OUT	-	-	0.469	2.757	1.724	2.193	3.226	1.35
4	Lead-Free Brass	BR	IN	OUT	-	-	0.309	2.534	1.501	1.810	2.843	1.00
5	Lead-Free Brass	BR	IN	OUT	-	-	0.375	2.694	1.661	2.036	3.069	1.05
6	Lead-Free Brass	BR	IN	OUT	-	-	0.469	2.757	1.724	2.193	3.226	1.10
7	303 Stainless Steel	SS	IN	-	OUT	-	0.309	3.225*	1.501	1.810	3.543*	1.20
8	303 Stainless Steel	SS	IN	-	OUT	-	0.375	3.385*	1.661	2.036	3.769*	1.25
9	303 Stainless Steel	SS	CYL	PRS	EXH	-	0.309	3.225*	1.501	1.810	3.543*	1.20
10	303 Stainless Steel	SS	CYL	PRS	EXH	-	0.375	3.385*	1.661	2.036	3.769*	1.25
11	303 Stainless Steel	SS	CYL	EXH	PRS	-	0.309	3.225*	1.501	1.810	3.543*	1.20
12	303 Stainless Steel	SS	CYL	EXH	PRS	-	0.375	3.385*	1.661	2.036	3.769*	1.25
13	303 Stainless Steel	SS	COM	NC	NO	-	0.309	3.225*	1.501	1.810	3.543*	1.20
14	303 Stainless Steel	SS	COM	NC	NO	-	0.375	3.385*	1.661	2.036	3.769*	1.25
15	Lead-Free Brass	BR	CYL	PRS	EXH	-	0.309	3.225*	1.501	1.810	3.543*	1.00
16	Lead-Free Brass	BR	CYL	PRS	EXH	-	0.375	3.385*	1.661	2.036	3.769*	1.05
17	Lead-Free Brass	BR	CYL	EXH	PRS	-	0.309	3.225*	1.501	1.810	3.543*	1.00
18	Lead-Free Brass	BR	CYL	EXH	PRS	-	0.375	3.385*	1.661	2.036	3.769*	1.05
19	Lead-Free Brass	BR	COM	NC	NO	-	0.309	3.225*	1.501	1.810	3.543*	1.00
20	Lead-Free Brass	BR	COM	NC	NO	-	0.375	3.385*	1.661	2.036	3.769*	1.05
21	316L Stainless Steel	BR/SS	IN	OUT	-	2.810	0.560	3.255	2.222	2.782	3.815	1.90
22	316L Stainless Steel	BR/SS	IN	OUT	-	2.810	0.560	3.255	2.222	2.782	3.815	1.80
23	316L Stainless Steel	BR/SS	IN	OUT	-	2.890	0.678	3.373	2.351	3.019	4.051	2.04
24	Lead-Free Brass	BR/SS	IN	OUT	-	2.810	0.560	3.297	2.264	2.783	3.815	2.00
25	Lead-Free Brass	BR/SS	IN	OUT	-	2.810	0.560	3.297	2.264	2.783	3.815	1.90
26	Lead-Free Brass	BR/SS	IN	OUT	-	2.910	0.678	3.360	2.327	3.005	4.038	2.15

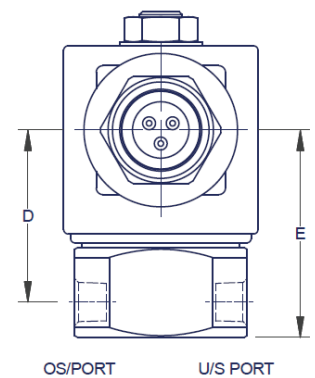
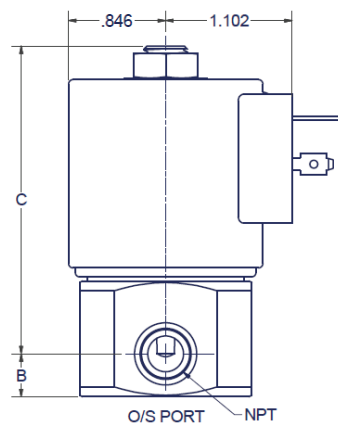
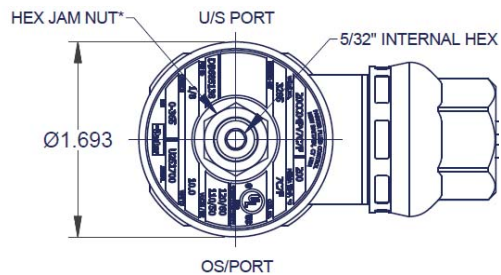
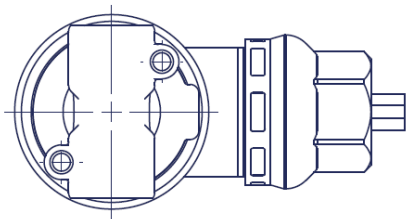
* These dimensions include hex sleeve port adapter in place of hex jam nut. The overall height increase of 0.700" (REF) is not pictured in subsequent dimensional drawings

References 1 - 20

Body Type SS

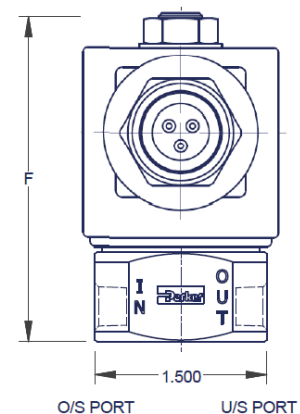


Body Type BR



Port Marking Scheme

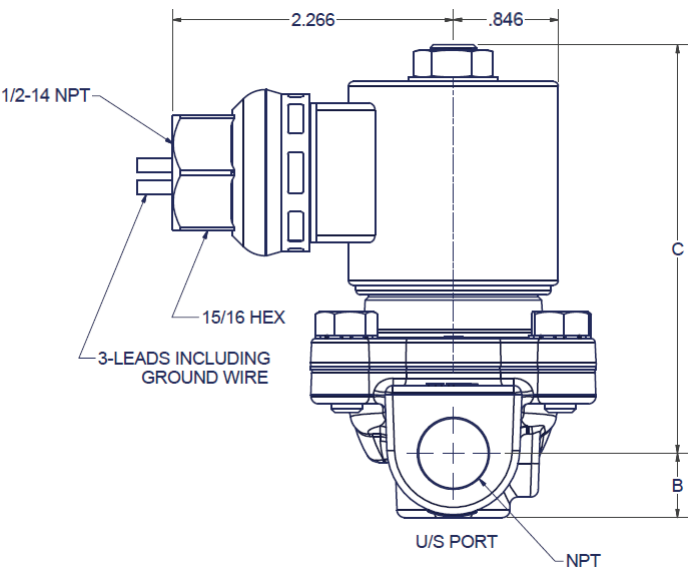
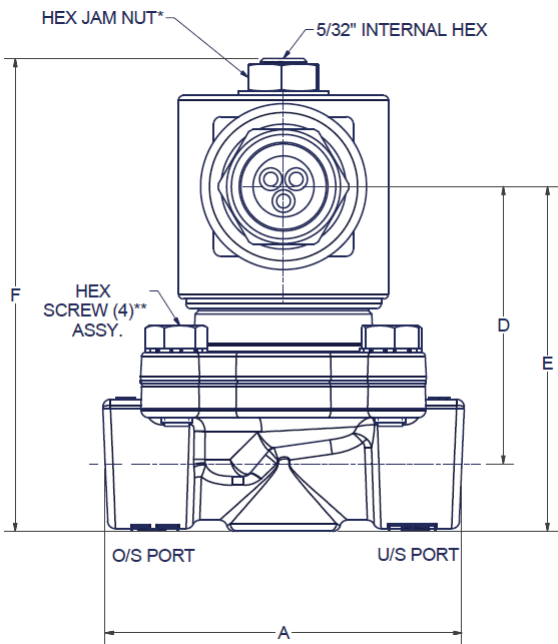
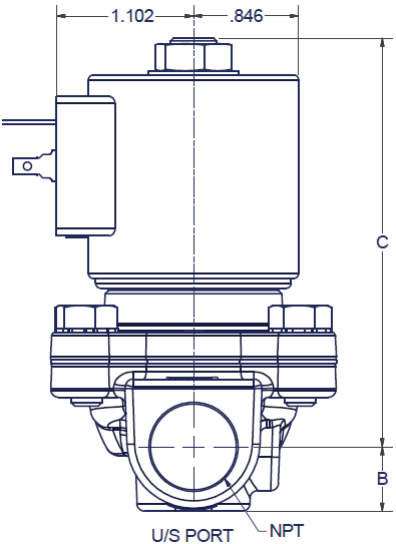
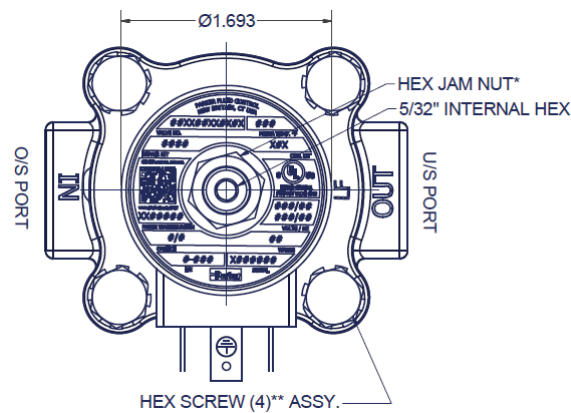
Valve Configuration	O/S Port	U/S Port	Sleeve Port
2-Way Normally Closed	"IN" (Inlet)	"OUT" (Outlet)	-
2-Way Normally Open	"IN" (Inlet)	-	"OUT" (Outlet)
3-Way Normally Closed	"CYL" (Cylinder)	"PRS" (Pressure)	"EXH" (Exhaust)
3-Way Normally Open	"CYL" (Cylinder)	"EXH" (Exhaust)	"PRS" (Pressure)
3-Way Universal	"COM" (Common)	"NC" (Normally Closed)	"NO" (Normally Open)



* 3/8-24 UNF 2B, 9/16" hex [2-Way Normally Closed]
or 3/8-24 UNF 2B, 11/16" adapter (other configurations)

References 21 - 26

Body Type BR/SS



Port Marking Scheme

Valve Configuration	O/S Port	U/S Port
2-Way Normally Closed	"IN" (Inlet)	"OUT" (Outlet)

* 3/8-24 UNF 2B, 9/16" hex

** 1/4-20 UNC 2A, 7/16" hex

Materials of Construction

Wetted Materials		Valve Models							** Standard Seals NBR FKM UR
Valve Component	20C-	30C-	20L-	30L-	22L-	23L	22R-	23R-	
Body	303 SS		Lead-Free Brass				316L SS		*** Standard Seals NBR FKM
Plunger Assembly	430FR SS								
Sleeve Assembly	304 SS, 430FR SS								
Shading Ring	Copper (AC & DC) Silver avail. in 20CC- config.				Copper (AC only)		Silver (AC only)		Specialty Seals EPDM EPDM (NSF) FFKM PTFE
Diaphragm Assembly	N/A				Lead-Free Brass 304 SS		303 SS 304 SS		
Springs	18-8 SS								
Seals	Vary by Model **				Vary by Model ***				
Solenoid Coils Class H Insulation Epoxy Encapsulant FKM Gland Seals		Consult Factory for Specialty Constructions 1/4-Turn Manual Override Silver Shading Ring Helium Leak Test Hydrocarbon Cleaned for Oxygen Service Vacuum Service etc.							

Agency & Compliance

UL 429 & CSA 22.2 139-13 (MH15507) CE - Low Voltage Directive, EMC Directive IP NEMA REACH RoHS SDWA Section 1417(d) NSF/ ANSI 372								
Agency-Approved Media Listing: Identified in the following chart are the codes utilized by Underwriters Laboratories (UL) and the Canadian Standards Association (CSA) for various common fluids approved by the agencies for use with each valve type.								
Valves may be chemically compatible with other media. Consult factory for more information.								
Media		2-Way Valves			3-Way Valves			
Code	Media Type	NBR	FKM	UR	NBR	FKM		
A	Air	●	●	●	●	●		
AC	Acetylene	●	●		●	●		
G	City gas	●	●		●	●		
Ga	Gasoline	●	●		●	●		
HO	Hydraulic oil*	●	●		●	●		
O2	Nos. 1 and 2 oils**	●		●	●			
O2-06	Nos. 2-6 oils		●			●		
W	Water	●	●	●	●	●		
LP	Liquid Propane	●	●		●	●		

* Petroleum-based oils with viscosities from 125 to 400 SSU at 38°C

** Fuel oils with viscosities not more than 40 SSU at 38°C

Consult factory for information pertaining to specialty seal materials

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