

# GAS APPLIANCE & WATER HEATER CONNECTORS

**BrassCraft** DO NOT

1. Determine the maximum BTU/hr rating for appliance. Manufacturer's label, located near the burner, will contain this information (consult appliance manufacturer if unsure of correct rating).  
 2. Measure the distance between gas source and appliance. Add sufficient length to allow a house, or garage, to be vented. Add sufficient length to allow a house, or garage, to be vented.  
 3. Select the connector on chart below that has a LARGER FLOW CAPACITY than the gas rate. TRUCK FITTINGS

**SIZING THE CONNECTOR**

Model	OD inches	CONNECTOR				NPT
		MALE	SP	FEMALE	CONNECTION	
CSSL	1/4	1 foot	1-1/2 foot	2 foot	2-1/2 foot	3 foot
CSSD	3/8	48,000	43,000	40,000	38,400	33,400
CSSC	1/2	102,000	85,100	80,000	71,000	71,100
CSSB	3/4	180,000	164,200	150,000	138,200	125,000
		230,900	200,900	190,900	170,200	155,900
		290,900	250,900	240,900	210,200	195,900

This connector meets or exceeds the minimum allowable capacity as determined by the test.com ANSI Z21.24 & CSA 2.10. Straight length capacity rated in Btu/hr using 0.94 SP Dr. 1000 Btu per ft. Gas at 0.50 inch Water Column Pressure Drop. The capacity at 50 Psi 0.2 inch water column pressure determined by multiplying the Btu/hr listed in the table above by 0.632.

**INSTALLATION**  
 The appliance must be installed according to the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the local code. The connector must not be used in locations where the fuel gas temperature may exceed the rated temperature of the connector. The connector must not be used in applications where the fuel gas temperature may exceed the rated temperature of the connector. The gas shut-off valve must be installed between the appliance and the connector. The gas shut-off valve must be closed before the connector is installed. Do NOT connect the gas shut-off valve to the connector.

**BrassCraft**®  
 THIS IS OUR CRAFT®

**BrassCraft**®



# THE ONE GOOD NAME THE GREAT ONES DEPEND ON.

Every day, every job, the pro plumber's reputation is on the line. And, when high-quality parts are the difference between thinking it'll be fine and knowing it will, pros trust BrassCraft. We manufacture water stops, water connectors, gas supplies and drain cleaning tools that pros use with confidence to last for years. We're always working to make our products better — because they must be. For 75 years, everything we do is with the pro in mind.



## **GAS APPLIANCE & WATER HEATER CONNECTORS**

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# BrassCraft®

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## PROS WHO KNOW CHOOSE BRASSCRAFT®

With our broad selection of products, features and configurations, BrassCraft has solutions pros need. And, most importantly, we stand behind our products and the pros who use them. Our products are made to stand up to the toughest jobs and scrutiny. They're built with pride and crafted with quality, for a job done right the first time. Pros put their craft, customers and character first. For us, it's quality they can count on.

## QUALITY BRASSCRAFT PRODUCTS TO FINISH THE JOB RIGHT



WATER STOPS



WATER CONNECTORS



GAS SUPPLIES



DRAIN & REPAIR TOOLS



# BrassCraft®

# GAS SUPPLIES

**GAS CONNECTORS WITH PEACE OF MIND BUILT RIGHT IN.**

BrassCraft gas supplies are built safer, smarter, and tougher. Engineered with a yellow ceramic coating that's the industry's gold standard, BrassCraft gas connectors are designed to withstand the harshest chemicals and corrosion. Whether you're working on low, moderate, or large demand appliances or water heaters, trust BrassCraft gas connectors for a higher level of safety and quality.



**PRODUCT HIGHLIGHTS**

- Gas Connectors designed, machined and assembled in the USA
- Pipe thread sealant
- Leak-detection solutions when installing Safety Plus® Excess Flow Valve
- 100% leak-tested
- Gas fittings to fit most appliances



1/2 IN ID (5/8 IN OD) TUBE/FLARE	3/8 IN ID (1/2 IN OD) TUBE/FLARE	1/4 IN ID (3/8 IN OD) TUBE/FLARE
<b>LARGE DEMAND APPLIANCE</b>	<b>MODERATE DEMAND APPLIANCE</b>	<b>LOW DEMAND APPLIANCE</b>
<b>FURNACE</b>	<b>WATER HEATER</b>	<b>SPACE HEATER</b>
<b>BOILER</b>	<b>RANGE</b>	<b>GAS LOG FIREPLACE</b>
<b>PRO-GRADE RANGE</b>	<b>DRYER</b>	<b>DRYER</b>

\*Typical size recommendations, choose correct gas supplies based on each project's needs.

## **SAFETY+PLUS®2**

**WHEN OUR GAS CONNECTORS STOP WORKING,  
THAT'S WHEN THEY ARE WORKING.**

Our patented excess flow technology is the simple way to install a safer gas connector on every job. In the event of a gas line rupture or disconnect at the appliance, the Safety+PLUS®2 thermal excess flow valve (EFV) immediately restricts gas flow to a non-hazardous level, averting the dangerous release of gas. Be aware — gas flow is controlled only at the appliance where the problem exists, and the valve will remain activated until the gas line is properly repaired.



## **GAS BALL VALVES**

**VALVES BUILT TO HELP SHUT OFF LEAKS, PROBLEMS,  
AND CALL BACKS.**

BrassCraft's gas ball valves are engineered to the highest performance standard — the pro's. Made with American ingenuity, every detail of the stem, body and exclusive handle design is crafted for ease of use — from installation to operation. This gas ball valve installs directly to the gas pipe stub out at the appliance to provide safe shut-off in large, moderate, and low demand applications.

## **TANKLESS WATER HEATER KITS & WATER HEATER CONNECTORS**

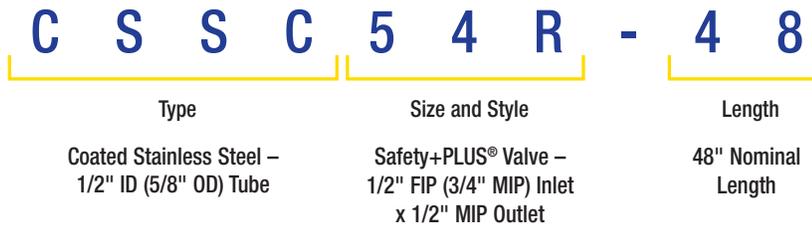
**PARTS THAT CAN STAND THE HEAT OF ANY JOB.**

BrassCraft's ProCoat® stainless steel water heater connectors and tankless water heater kits are engineered with durability and convenience in mind. Our connector's ProCoat® ceramic coating stays strong against prolonged exposure to harsh household chemicals, UV rays and salt that can cause pinhole leaks. And the 3/4" full-flow internal diameter allows for better flow and fewer obstructions. The tankless water heater kits come with pressure relief valves and everything you need to connect the gas supply quickly and leak-free.



## Part Numbering System

Example:



### CSSC

#### Connector Type

- CSSB** Coated Stainless Steel - 3/4" ID (7/8" OD) Tube
- CSSC** Coated Stainless Steel - 1/2" ID (5/8" OD) Tube
- CSSD** Coated Stainless Steel - 3/8" ID (1/2" OD) Tube
- CSSL** Coated Stainless Steel - 1/4" ID (3/8" OD) Tube
- CSST** Coated Stainless Steel - 1/4" ID (3/8" OD) Tube, Fine Thread Adapter Included

#### Black Connectors:

- BCSSD** Black Coated Stainless Steel - 3/8" ID (1/2" OD) Tube
- BCSSL** Black Coated Stainless Steel - 1/4" ID (3/8" OD) Tube

### 5 4 R

#### End Fitting/Valve Size and Style

Size and Style

##### Fittings:

- 1** 3/4" MIP Straight (tapped 1/2" FIP)
- 2** 3/4" FIP Straight
- 3** 3/4" FIP Elbow
- 4** 1/2" MIP Straight (tapped 3/8" FIP)
- 5** 1/2" FIP Straight
- 6** 1/2" MIP (no tap)
- 7** 3/8" MIP (tapped 1/8" FIP) Straight for CSSD and CSSL connectors only
- 8** 3/8" FIP Straight for CSSD and CSSL connectors only
- 9** 5/8" Female Flare Straight\*
- 10** 3/4" MIP Straight (tapped 1/2" Female Flare)\*
- 11** 1/2" MIP Straight (tapped 3/8" Female Flare)\*
- 12** 1" MIP Straight (tapped 3/4" FIP)
- 14** 1" FIP Straight

##### Ball Valves:

- J** 3/4" FIP Straight
- K** 1/2" FIP Straight
- M** 1/2" FIP Straight (for CSSL connectors only)
- P** 3/4" FIP Angle

**Note:** "R" suffix denotes Safety+PLUS® valve

\* Available in Safety+PLUS® only

### 4 8

#### Nominal Connector Length in Inches

Length

**Standard Lengths:** 12", 18", 24", 30", 36", 48", 60", and 72"

Nominal length includes adaptors. Connectors with Safety+PLUS® valves are approximately 1" longer.

## Dimensional Data

	Connector Series	Size			
		CSSL	CSSD	CSSC	CSSB
	"A" Diameter Nom OD Tube	3/8"	1/2"	5/8"	7/8"
	"B" Diameter Nom ID Tube	1/4"	3/8"	1/2"	3/4"
	Flare Nut Thread	3/8" OD Tube 5/8-18 Thread	1/2" OD Tube 3/4-16 Thread	5/8" OD Tube 15/16-16 Thread	7/8" OD Tube 1-1/16-16 Thread

## Connector Flow Capacity – Per ANSI Z21.24 • CSA 6.10\*

Connectors should be sized based upon the appliance gas consumption rate. Select a connector with a capacity equal to or greater than appliance input rate.

Connector Series	Nominal Connector (Inch)		STRAIGHT LENGTH CAPACITY - NATURAL GAS BTU PER HOUR							
	ID	OD	12"	18"	24"	30"	36"	48"	60"	72"
CSSL/BCSSL	1/4	3/8	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100
CSSD/BCSSD	3/8	1/2	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
CSSC	1/2	5/8	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000
CSSB	3/4	7/8	290,900	290,900	290,900	270,500	255,900	215,000	197,400	173,900

Connector Series	Nominal Connector (Inch)		STRAIGHT LENGTH CAPACITY - LPG (PROPANE) BTU PER HOUR							
	ID	OD	12"	18"	24"	30"	36"	48"	60"	72"
CSSL/BCSSL	1/4	3/8	76,800	70,080	64,000	58,240	53,440	45,280	39,840	36,960
CSSD/BCSSD	3/8	1/2	163,200	148,960	136,000	123,360	113,760	96,800	85,120	78,560
CSSC	1/2	5/8	288,000	262,720	240,000	217,600	200,000	169,600	149,120	137,600
CSSB	3/4	7/8	465,440	465,440	465,440	432,800	409,440	344,000	315,840	278,240

Connector Series	Nominal Connector (Inch)		STRAIGHT LENGTH CAPACITY - WATTS							
	ID	OD	0.31m	0.46m	0.61m	0.76m	0.92m	1.22m	1.53m	1.83m
CSSL/BCSSL	1/4	3/8	14,067	12,837	11,723	10,668	9,789	8,294	7,297	6,770
CSSD/BCSSD	3/8	1/2	29,893	27,285	24,911	22,596	20,837	17,731	15,591	14,390
CSSC	1/2	5/8	52,752	48,122	43,961	39,858	36,634	31,066	27,314	25,204
CSSB	3/4	7/8	85,254	85,254	85,254	79,276	74,997	63,010	57,852	50,965

0.64 Sp Gr, 1000 Btu per cu. ft. (37.2 MJ/m<sup>3</sup>) gas at 0.5 inch water column (124Pa) pressure drop. Per ANSI Z21.24 • CSA 6.10 for use with pressures not to exceed 1/2 PSI.

The flow capacities in the above charts are the minimum performance criterion established in ANSI Z21.24 • CSA 6.10 & ANSI Z21.75 • CSA 6.27.

## Steel Fitting Suggested Torque Values – Per ANSI Z21.24 • CSA 6.10

Tube	Torque (inch pounds)**	
	Minimum	Maximum
CSSL	150	250
CSSD	200	390
CSSC	250	520
CSSB	400	780

\*\*Torque range recommended to tighten gas connector

# Safety+PLUS®

*Coated Stainless Steel Gas Connectors with Patented Excess Flow Technology*

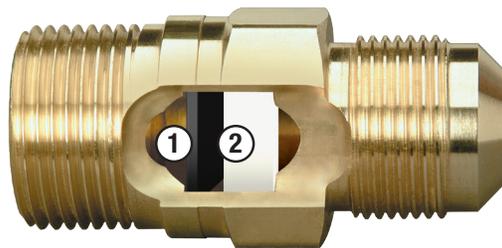


Safety+PLUS® gas connectors combine advanced corrosion protection with state-of-the-art excess flow technology to deliver a superior gas connector for home and family.

**The Safety+PLUS® excess flow valve (EFV)** helps prevent gas fires and explosions due to line ruptures and disconnects at the appliance. When triggered, the Safety+PLUS® valve immediately restricts gas flow to a non-hazardous level (bypass flow) to help prevent a dangerous release of gas into the home.

Gas flow is controlled at the appliance where the problem occurred; the rest of the home's system will continue to function. Once the gas line is properly repaired, the valve automatically restores normal gas flow to the appliance.

- Automatic Valve Activation
- CSA Certified
- 100% Performance Tested
- Automatic Reset



**The Safety+PLUS® excess flow valve (EFV)**

In the event of a rupture or disconnect, unrestricted gas flow forces the diaphragm (1) to firmly position itself against the seat (2). This immediate action restricts gas flow to help avert a hazardous build-up of gas.

**COATED GAS CONNECTORS WITH EXCESS FLOW VALVE**

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - Female Flare x MIP</b>					<b>CSSC</b>
 CSSC91R-36 P	026613167435	5/8" OD Female Flare EFV x 3/4" MIP (1/2" FIP Tap)	36"	5	7.6
CSSC91R-48 P	026613167442	5/8" OD Female Flare EFV x 3/4" MIP (1/2" FIP Tap)	48"	5	7.4
CSSC94R-48 X	026613167459	5/8" OD Female Flare EFV x 1/2" MIP	48"	10	13.8

<b>1/2" ID (5/8" OD) - FIP x FIP</b>					<b>CSSC</b>
 CSSC22R-24 P	026613167183	3/4" FIP EFV x 3/4" FIP	24"	5	6.4
CSSC22R-36 P	026613167190	3/4" FIP EFV x 3/4" FIP	36"	5	6.1
CSSC22R-36 X5	026613167190	3/4" FIP EFV x 3/4" FIP	36"	5	7.1
CSSC22R-48 P	026613167213	3/4" FIP EFV x 3/4" FIP	48"	5	6.6
CSSC22R-60 P	026613167220	3/4" FIP EFV x 3/4" FIP	60"	5	7.4

<b>1/2" ID (5/8" OD) - FIP x MIP</b>					<b>CSSC</b>
 CSSC54R-48	026613167404	1/2" FIP (3/4" MIP) EFV x 1/2" MIP	48"	25	32.0
 CSSL114R-36 X	026613167756	1/2" FIP EFV x 1/2" MIP	36"	10	8.4
CSSL114R-48 X	026613167763	1/2" FIP EFV x 1/2" MIP	48"	10	9.3
CSSL115R-24 P	026613167770	1/2" FIP EFV x 1/2" MIP	24"	5	4.5
CSSL115R-36 P	026613167787	1/2" FIP EFV x 1/2" MIP	36"	5	4.3

<b>1/2" ID (5/8" OD) - MIP x FIP</b>					<b>CSSC</b>
 CSSC12R-24 P	026613167114	3/4" MIP (1/2" FIP Tap) x 3/4" FIP	24"	5	6.9
CSSC12R-36 P	026613167121	3/4" MIP (1/2" FIP Tap) x 3/4" FIP	36"	5	7.6
CSSC12R-48 P	026613167138	3/4" MIP (1/2" FIP Tap) x 3/4" FIP	48"	5	6.8
CSSC12R-60 P	026613167145	3/4" MIP (1/2" FIP Tap) x 3/4" FIP	60"	5	7.4
CSSC12R-72 P	026613167152	3/4" MIP (1/2" FIP Tap) x 3/4" FIP	72"	5	8.1
CSSC45R-18 X	026613167329	1/2" MIP EFV x 1/2" FIP	18"	10	11.7
CSSC45R-24 P	026613167336	1/2" MIP EFV x 1/2" FIP	24"	5	6.4
 CSSC45R-36 P	026613167343	1/2" MIP EFV x 1/2" FIP	36"	5	7.1
CSSC45R-36 X	026613167343	1/2" MIP EFV x 1/2" FIP	36"	10	13.7
CSSC45R-48 P	026613167367	1/2" MIP EFV x 1/2" FIP	48"	5	6.6
CSSC45R-60 P	026613167381	1/2" MIP EFV x 1/2" FIP	60"	5	7.3

<b>1/2" ID (5/8" OD) - MIP x MIP</b>					<b>CSSC</b>
 CSSC14R-48 X5	026613167176	3/4" MIP (1/2" FIP Tap) EFV x 1/2" MIP	48"	5	7.0
CSSC44R-24 P	026613167237	1/2" MIP EFV x 1/2" MIP	24"	5	6.5
CSSC44R-36 P	026613167251	1/2" MIP EFV x 1/2" MIP	36"	5	6.1
CSSC44R-36 X	026613167251	1/2" MIP EFV x 1/2" MIP	36"	10	13.9
CSSC44R-48 P	026613167275	1/2" MIP EFV x 1/2" MIP	48"	5	6.7
CSSC44R-48 XL	026613167275	1/2" MIP EFV x 1/2" MIP	48"	10	12.9
CSSC44R-60 P	026613167305	1/2" MIP EFV x 1/2" MIP	60"	5	7.4

<b>1/4" ID (3/8" OD) - MIP x FIP</b>					<b>CSSL</b>
 CSSL45R-12 P	026613167855	1/2" MIP EFV x 1/2" FIP	12"	5	3.6
CSSL45R-18 P	026613167862	1/2" MIP EFV x 1/2" FIP	18"	5	4.4
CSSL45R-24 P	026613167879	1/2" MIP EFV x 1/2" FIP	24"	5	4.6
CSSL45R-36 P	026613167091	1/2" MIP EFV x 1/2" FIP	36"	5	4.1
CSSL45R-48 P	026613167886	1/2" MIP EFV x 1/2" FIP	48"	5	4.8

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/4" ID (3/8" OD) - MIP x FIP (cont.)</b>					<b>CSSL</b>
CSSL45R-60 P	026613167893	1/2" MIP EFV x 1/2" FIP	60"	5	5.3
CSSL45R-72 P	026613167909	1/2" MIP EFV x 1/2" FIP	72"	5	5.7



<b>1/4" ID (3/8" OD) - MIP x MIP</b>					<b>CSSL</b>
CSSL44R-24 P	026613167817	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	24"	5	4.7
CSSL44R-36 P	026613167824	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	36"	5	4.5
CSSL44R-48 P	026613167831	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	48"	5	4.9
CSSL44R-60 P	026613167848	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	60"	5	5.4
CSSL47R-24 P	026613167916	1/2" MIP EFV x 3/8" MIP	24"	5	4.5
CSSL47R-36 P	026613167923	1/2" MIP EFV x 3/8" MIP	36"	5	4.3
CSSL47R-48 P	026613167930	1/2" MIP EFV x 3/8" MIP	48"	5	4.8



<b>3/8" ID (1/2" OD) - Female Flare x MIP</b>					<b>CSSD</b>
CSSD104R-24 X	026613167466	1/2" OD Female Flare EFV x 1/2" MIP	24"	10	10.3
CSSD104R-48 X	026613167473	1/2" OD Female Flare EFV x 1/2" MIP	48"	10	12.5
CSSD104R-72 X	026613167480	1/2" OD Female Flare EFV x 1/2" MIP	72"	10	14.8
CSSD105R-36 P	026613167497	1/2" OD Female Flare EFV x 1/2" MIP	36"	5	5.8
CSSD105R-48 P	026613167503	1/2" OD Female Flare EFV x 1/2" MIP	48"	5	6.3
CSSD114R-72 X	026613167510	1/2" OD Female Flare EFV x 1/2" MIP	72"	10	13.0



<b>3/8" ID (1/2" OD) - FIP x FIP</b>					<b>CSSD</b>
CSSD55R-24	026613169101	1/2" FIP EFV x 1/2" FIP	24"	25	17.5
CSSD55R-30	026613169095	1/2" FIP EFV x 1/2" FIP	30"	25	19.2



<b>3/8" ID (1/2" OD) - MIP x FIP</b>					<b>CSSD</b>
CSSD45R-12 P	026613167664	1/2" MIP EFV x 1/2" FIP	12"	5	3.2
CSSD45R-18 P	026613167671	1/2" MIP EFV x 1/2" FIP	18"	5	4.1
CSSD45R-24 P	026613167688	1/2" MIP EFV x 1/2" FIP	24"	5	4.4
CSSD45R-36 P	026613167695	1/2" MIP EFV x 1/2" FIP	36"	5	4.9
CSSD45R-48 P	026613167701	1/2" MIP EFV x 1/2" FIP	48"	5	5.5
CSSD45R-60 P	026613167718	1/2" MIP EFV x 1/2" FIP	60"	5	6.1
CSSD45R-72 P	026613167725	1/2" MIP EFV x 1/2" FIP	72"	5	6.6



<b>3/8" ID (1/2" OD) - MIP x MIP</b>					<b>CSSD</b>
CSSD44R-12 P	026613167534	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	12"	5	3.3
CSSD44R-18 P	026613167558	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	18"	5	4.2
CSSD44R-24 P	026613167565	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	24"	5	4.4
CSSD44R-24 XL	026613167565	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	24"	15	11.7
CSSD44R-36 P	026613167602	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	36"	5	5.0
CSSD44R-36 X	026613167602	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	36"	10	9.7
CSSD44R-48	026613169347	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	48"	25	24.7
CSSD44R-48 P	026613167633	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	48"	5	5.6
CSSD44R-48 X	026613167633	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	48"	10	10.8
CSSD44R-48 XL	026613167633	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	48"	10	10.2
CSSD44R-60 P	026613167640	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	60"	5	6.2





PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>3/8" ID (1/2" OD) - MIP x MIP (cont.)</b>					
					<b>CSSD</b>
CSSD44R-60 X	026613167640	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	60"	10	12.0
CSSD44R-72 P	026613167657	1/2" MIP EFV x 1/2" MIP (3/8" FIP Tap)	72"	5	6.7

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - FIP x FIP</b>					
CSSC22TE-36 X5	026613174181	3/4" FIP EFV x 3/4" FIP	36"	5	6.8



<b>1/2" ID (5/8" OD) - FIP x MIP</b>					
					<b>CSSL</b>
CSSL114TE-24 X10	026613174143	1/2" FIP EFV x 1/2" MIP	24"	10	8.1
CSSL114TE-36 X	026613174136	1/2" FIP EFV x 1/2" MIP	36"	10	7.8
CSSL114TE-48 X	026613174174	1/2" FIP EFV x 1/2" MIP	48"	10	8.8
CSSL117TE-24 X5	026613174150	1/2" FIP EFV x 1/2" MIP	24"	5	4.1
CSSL117TE-36 X5	026613174167	1/2" FIP EFV x 1/2" MIP	36"	5	3.9



<b>1/2" ID (5/8" OD) - MIP x FIP</b>					
					<b>CSSC</b>
CSSC65TE-48 X5	026613174204	1/2" MIP EFV x 1/2" FIP	48"	5	6.4



<b>1/2" ID (5/8" OD) - MIP x MIP</b>					
					<b>CSSC</b>
CSSC64TE-36 X	026613174211	1/2" MIP EFV x 1/2" MIP	36"	10	8.3
CSSC64TE-48 X5	026613174228	1/2" MIP EFV x 1/2" MIP	48"	5	6.5
CSSC64TE-60 X5	026613174235	1/2" MIP EFV x 1/2" MIP	60"	5	7.6
CSSD64TE-12 X5	026613174242	1/2" MIP EFV x 1/2" MIP	12"	5	3.4
CSSD64TE-24 X	026613174259	1/2" MIP EFV x 1/2" MIP	24"	15	11.7
CSSD64TE-36 X	026613174266	1/2" MIP EFV x 1/2" MIP	36"	10	9.2
CSSD64TE-48 X	026613174273	1/2" MIP EFV x 1/2" MIP	48"	10	10.2
CSSD64TE-60 X5	026613174198	1/2" MIP EFV x 1/2" MIP	60"	5	6.9



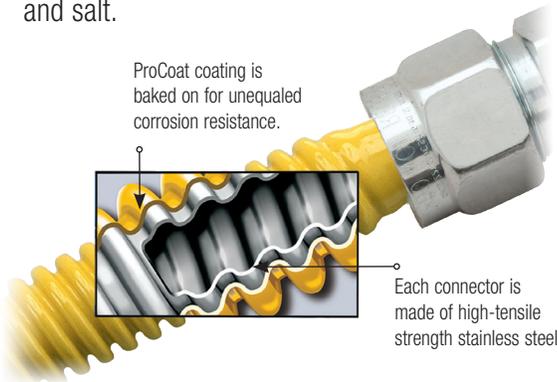
COATED GAS CONNECTORS WITH THERMAL EXCESS FLOW VALVE

# ProCoat®

## Coated Stainless Steel Gas Connectors



The ProCoat® coating helps protect the stainless steel connector from corrosion due to prolonged exposure to harsh chemicals found in common household cleaning, plumbing repair and building products (ammonia, chlorine, solder flux and muriatic acid). Designed for indoor and outdoor use, ProCoat® is resistant to the harsh effects of UV rays and salt.



- Superior Corrosion Resistance
- Greater Strength & Flexibility
- Approved for Indoor & Outdoor Use
- 100% Leak Tested
- CSA Certified

**Available  
in Black**

See page 20



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - FIP x FIP</b>					<b>CSSC</b>
CSSC22-12	026613119021	3/4" FIP x 3/4" FIP	12"	25	17.8
CSSC22-18	026613118680	3/4" FIP x 3/4" FIP	18"	25	19.6
CSSC22-24	026613112770	3/4" FIP x 3/4" FIP	24"	25	21.6
CSSC22-24 P	026613114194	3/4" FIP x 3/4" FIP	24"	5	5.0
CSSC22-30	026613121086	3/4" FIP x 3/4" FIP	30"	25	23.5
CSSC22-36	026613112787	3/4" FIP x 3/4" FIP	36"	25	25.3
CSSC22-36 P	026613114422	3/4" FIP x 3/4" FIP	36"	5	5.7
CSSC22-36 X	026613114422	3/4" FIP x 3/4" FIP	36"	10	11.0
CSSC22-48	026613112794	3/4" FIP x 3/4" FIP	48"	25	29.5
CSSC22-48 P	026613114200	3/4" FIP x 3/4" FIP	48"	5	6.2
CSSC22-60	026613112800	3/4" FIP x 3/4" FIP	60"	12	16.2
CSSC22-60 P	026613114217	3/4" FIP x 3/4" FIP	60"	5	6.9
CSSC22-72	026613112817	3/4" FIP x 3/4" FIP	72"	12	18.0
CSSC22-72 P	026613121024	3/4" FIP x 3/4" FIP	72"	5	7.7
CSSC23-36	026613121093	3/4" FIP x 3/4" FIP Elbow	36"	25	28.5
CSSC23-48	026613120768	3/4" FIP x 3/4" FIP Elbow	48"	25	32.7



If your requirements are not listed, please request a special quotation from the nearest BrassCraft office. UPC code will be provided at time of shipment.

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - FIP x FIP (cont.)</b>					<b>CSSC</b>
CSSC55-12	026613113128	1/2" FIP x 1/2" FIP	12"	25	16.7
CSSC55-18	026613113111	1/2" FIP x 1/2" FIP	18"	25	18.5
CSSC55-24	026613113104	1/2" FIP x 1/2" FIP	24"	25	20.5
CSSC55-30	026613113098	1/2" FIP x 1/2" FIP	30"	25	22.4
CSSC55-36	026613112428	1/2" FIP x 1/2" FIP	36"	25	24.1
CSSC55-48	026613113135	1/2" FIP x 1/2" FIP	48"	25	28.3
CSSC55-60	026613113159	1/2" FIP x 1/2" FIP	60"	12	15.7
CSSC55-72	026613113166	1/2" FIP x 1/2" FIP	72"	12	17.4



<b>1/2" ID (5/8" OD) - FIP x Gas Ball Valve</b>					<b>CSSC</b>
CSSC2J-12	026613121253	3/4" FIP x 3/4" FIP Gas Ball Valve	12"	20	21.8
CSSC2J-18	026613112909	3/4" FIP x 3/4" FIP Gas Ball Valve	18"	20	23.4
CSSC2J-24	026613112916	3/4" FIP x 3/4" FIP Gas Ball Valve	24"	20	24.9
CSSC2J-30	026613121260	3/4" FIP x 3/4" FIP Gas Ball Valve	30"	20	26.5
CSSC2J-36	026613112923	3/4" FIP x 3/4" FIP Gas Ball Valve	36"	20	27.9
CSSC2J-48	026613112930	3/4" FIP x 3/4" FIP Gas Ball Valve	48"	20	31.2
CSSC2J-60	026613120720	3/4" FIP x 3/4" FIP Gas Ball Valve	60"	12	20.6
CSSC2J-72	026613121277	3/4" FIP x 3/4" FIP Gas Ball Valve	72"	12	22.4



<b>1/2" ID (5/8" OD) - FIP x Gas Ball Valve, Angle</b>					<b>CSSC</b>
CSSC2P-18	026613119496	3/4" FIP x 3/4" FIP Gas Ball Valve - Angle	18"	20	23.8
CSSC2P-24	026613119502	3/4" FIP x 3/4" FIP Gas Ball Valve - Angle	24"	20	25.4
CSSC2P-36	026613119076	3/4" FIP x 3/4" FIP Gas Ball Valve - Angle	36"	20	28.4
CSSC2P-48	026613121284	3/4" FIP x 3/4" FIP Gas Ball Valve - Angle	48"	20	31.6
CSSC2P-60	026613119519	3/4" FIP x 3/4" FIP Gas Ball Valve - Angle	60"	12	20.9



<b>1/2" ID (5/8" OD) - FIP x MIP</b>					<b>CSSC</b>
CSSC21-12	026613112725	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	12"	25	19.2
CSSC21-18	026613112718	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	18"	25	21.0
CSSC21-24	026613112732	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	24"	25	23.0
CSSC21-24 P	026613115740	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	24"	5	5.3
CSSC21-30	026613117942	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	30"	25	24.9
CSSC21-36	026613112749	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	36"	25	26.6
CSSC21-36 P	026613114163	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	36"	5	6.0
CSSC21-48	026613112756	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	48"	25	30.8
CSSC21-48 P	026613114170	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	48"	5	6.5
CSSC21-60	026613112763	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	60"	12	16.9
CSSC21-60 P	026613114187	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	60"	5	7.2
CSSC21-72	026613118833	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	72"	12	18.6
CSSC21-72 P	026613120911	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	72"	5	8.0
CSSC24-18	026613120713	3/4" FIP x 1/2" MIP	18"	25	19.5
CSSC24-24	026613112824	3/4" FIP x 1/2" MIP	24"	25	21.5
CSSC24-30	026613121710	3/4" FIP x 1/2" MIP	30"	25	23.5
CSSC24-36	026613112831	3/4" FIP x 1/2" MIP	36"	25	25.2
CSSC24-48	026613112848	3/4" FIP x 1/2" MIP	48"	25	29.4
CSSC24-60	026613112855	3/4" FIP x 1/2" MIP	60"	12	16.2
CSSC24-72	026613112862	3/4" FIP x 1/2" MIP	72"	12	17.9



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - FIP x MIP (cont.)</b>					<b>CSSC</b>
CSSC54-12	026613113067	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	12"	25	17.2
CSSC54-18	026613113050	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	19.0
CSSC54-18 P	026613121789	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	5	4.6
CSSC54-24	026613113043	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	21.0
CSSC54-24 K12	026613113043	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	12	10.3
CSSC54-24 P	026613115900	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	5	4.9
 CSSC54-30	026613113036	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	30"	25	22.9
CSSC54-36	026613112411	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	25	24.7
CSSC54-36 P	026613114248	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	5	5.6
CSSC54-48	026613113074	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	25	28.8
CSSC54-48 P	026613114255	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	5	6.1
CSSC54-60	026613113081	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	12	15.9
CSSC54-60 P	026613115566	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	5	6.8
CSSC54-72	026613117959	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	72"	12	17.7
CSSC54-72 P	026613125374	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	72"	5	7.6

**1/2" ID (5/8" OD) - MIP x FIP****CSSC**

CSSC15-24	026613118802	3/4" MIP (1/2" FIP Tap) x 1/2" FIP	24"	25	22.5
CSSC15-36	026613119335	3/4" MIP (1/2" FIP Tap) x 1/2" FIP	36"	25	26.1
CSSC15-48	026613118819	3/4" MIP (1/2" FIP Tap) x 1/2" FIP	48"	25	30.3

**1/2" ID (5/8" OD) - MIP x Gas Ball Valve****CSSC**

CSSC1J-12	026613128214	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	12"	20	22.9
CSSC1J-18	026613121185	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	18"	20	24.5
CSSC1J-24	026613112695	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	24"	20	26.1
CSSC1J-30	026613121383	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	30"	20	27.7
CSSC1J-36	026613112701	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	36"	20	29.1
CSSC1J-48	026613121192	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	48"	20	32.3
CSSC1J-60	026613121697	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve	60"	12	21.3
CSSC4J-18	026613113197	1/2" MIP x 3/4" FIP Gas Ball Valve	18"	20	23.4
CSSC4J-24	026613113203	1/2" MIP x 3/4" FIP Gas Ball Valve	24"	20	25.0
CSSC4J-36	026613113210	1/2" MIP x 3/4" FIP Gas Ball Valve	36"	20	27.9
CSSC4J-48	026613113227	1/2" MIP x 3/4" FIP Gas Ball Valve	48"	20	31.2
CSSC4J-60	026613120409	1/2" MIP x 3/4" FIP Gas Ball Valve	60"	12	20.6
CSSC4K-12	026613121109	1/2" MIP x 1/2" FIP Gas Ball Valve	12"	20	20.8
CSSC4K-18	026613113234	1/2" MIP x 1/2" FIP Gas Ball Valve	18"	20	22.4
CSSC4K-24	026613113241	1/2" MIP x 1/2" FIP Gas Ball Valve	24"	20	24.0
CSSC4K-30	026613120263	1/2" MIP x 1/2" FIP Gas Ball Valve	30"	20	25.5
CSSC4K-36	026613113258	1/2" MIP x 1/2" FIP Gas Ball Valve	36"	20	27.0
CSSC4K-48	026613113265	1/2" MIP x 1/2" FIP Gas Ball Valve	48"	20	30.2

**1/2" ID (5/8" OD) - MIP x Gas Ball Valve, Angle****CSSC**

CSSC1P-24	026613121208	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve - Angle	24"	20	26.6
CSSC1P-36	026613118604	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve - Angle	36"	20	29.6
CSSC1P-48	026613120126	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve - Angle	48"	20	32.8
CSSC1P-60	026613121222	3/4" MIP (1/2" FIP Tap) x 3/4" FIP Gas Ball Valve - Angle	60"	12	21.6
CSSC4P-24	026613121338	1/2" MIP x 3/4" FIP Gas Ball Valve - Angle	24"	20	25.4

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/2" ID (5/8" OD) - MIP x Gas Ball Valve, Angle (cont.)</b>					<b>CSSC</b>
CSSC4P-36	026613113272	1/2" MIP x 3/4" FIP Gas Ball Valve - Angle	36"	20	28.4
CSSC4P-48	026613113289	1/2" MIP x 3/4" FIP Gas Ball Valve - Angle	48"	20	31.6
CSSC4P-60	026613121352	1/2" MIP x 3/4" FIP Gas Ball Valve - Angle	60"	12	20.9



<b>1/2" ID (5/8" OD) - MIP x MIP</b>					<b>CSSC</b>
CSSC11-12	026613119830	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	12"	25	20.6
CSSC11-18	026613112572	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	18"	25	22.4
CSSC11-24	026613112589	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	24"	25	24.4
CSSC11-24 P	026613121666	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	24"	5	5.6
CSSC11-30	026613118017	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	30"	25	26.4
CSSC11-36	026613112596	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	36"	25	28.1
CSSC11-48	026613112619	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	48"	25	32.3
CSSC11-60	026613112626	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	60"	12	17.6
CSSC11-72	026613112633	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	72"	12	19.3
CSSC14-12	026613117706	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	12"	25	19.3
CSSC14-18	026613112640	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	18"	25	21.1
CSSC14-18 P	026613144641	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	18"	5	5.0
CSSC14-24	026613112657	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	24"	25	23.1
CSSC14-24 P	026613121499	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	24"	5	5.3
CSSC14-30	026613112664	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	30"	25	24.9
CSSC14-36	026613112398	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	36"	25	26.6
CSSC14-36 P	026613121505	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	36"	5	6.0
CSSC14-48	026613112404	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	48"	25	30.8
CSSC14-48 P	026613121475	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	48"	5	6.5
CSSC14-60	026613112671	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	60"	12	16.9
CSSC14-60 P	026613121512	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	60"	5	7.3
CSSC14-72	026613112688	3/4" MIP (1/2" FIP Tap) x 1/2" MIP	72"	12	18.7
CSSC44-12	026613112947	1/2" MIP x 1/2" MIP	12"	25	17.8
CSSC44-18	026613112954	1/2" MIP x 1/2" MIP	18"	25	19.5
CSSC44-24	026613112381	1/2" MIP x 1/2" MIP	24"	25	21.5
CSSC44-24 P	026613121765	1/2" MIP x 1/2" MIP	24"	5	5.0
CSSC44-30	026613112985	1/2" MIP x 1/2" MIP	30"	25	23.5
CSSC44-36	026613112367	1/2" MIP x 1/2" MIP	36"	25	25.2
CSSC44-36 P	026613114224	1/2" MIP x 1/2" MIP	36"	5	5.7
CSSC44-36 X5	026613114224	1/2" MIP x 1/2" MIP	36"	5	5.7
CSSC44-48	026613112374	1/2" MIP x 1/2" MIP	48"	25	29.4
CSSC44-48 P	026613114231	1/2" MIP x 1/2" MIP	48"	5	6.2
CSSC44-48 X5	026613114231	1/2" MIP x 1/2" MIP	48"	5	6.4
CSSC44-60	026613113012	1/2" MIP x 1/2" MIP	60"	12	16.2
CSSC44-60 P	026613121062	1/2" MIP x 1/2" MIP	60"	5	6.9
CSSC44-72	026613113029	1/2" MIP x 1/2" MIP	72"	12	18.0
CSSC44-72 P	026613127583	1/2" MIP x 1/2" MIP	72"	5	7.7





PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/4" ID (3/8" OD) - FIP x FIP</b>					<b>CSSL</b>
CSSL55-18	026613118246	1/2" FIP x 1/2" FIP	18"	25	11.2
CSSL55-30	026613118253	1/2" FIP x 1/2" FIP	30"	25	13.5
CSSL55-36	026613118260	1/2" FIP x 1/2" FIP	36"	25	14.8
CSSL55-48	026613118277	1/2" FIP x 1/2" FIP	48"	25	17.6
CSSL88-12	026613121611	3/8" FIP x 3/8" FIP	12"	25	8.5
CSSL88-18	026613113791	3/8" FIP x 3/8" FIP	18"	25	9.4
CSSL88-24	026613113807	3/8" FIP x 3/8" FIP	24"	25	10.6
CSSL88-30 K12	026613121932	3/8" FIP x 3/8" FIP	30"	12	6.1
CSSL88-36	026613113814	3/8" FIP x 3/8" FIP	36"	25	13.1
CSSL88-48	026613113821	3/8" FIP x 3/8" FIP	48"	25	15.9
CSSL88-60	026613121369	3/8" FIP x 3/8" FIP	60"	12	8.8



<b>1/4" ID (3/8" OD) - FIP x MIP</b>					<b>CSSL</b>
CSSL48-12	026613119090	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	12"	25	9.9
CSSL48-18	026613119106	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	10.8
CSSL48-24	026613118178	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	12.0
CSSL48-36	026613120416	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	36"	25	14.4
CSSL48-48	026613120423	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	48"	25	17.2
CSSL48-72	026613121628	3/8" FIP x 1/2" MIP (3/8" FIP Tap)	72"	12	10.6
CSSL54-12	026613113630	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	12"	25	10.7
CSSL54-12 P	026613115924	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	12"	5	2.4
CSSL54-18	026613113647	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	11.6
CSSL54-18 P	026613114330	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	5	3.1
CSSL54-24	026613113654	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	12.8
CSSL54-24 P	026613114347	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	5	3.3
CSSL54-30	026613113661	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	30"	25	14.0
CSSL54-36	026613113678	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	25	15.3
CSSL54-36 P	026613114354	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	5	3.8
CSSL54-48	026613113685	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	25	18.1
CSSL54-48 P	026613114361	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	5	4.3
CSSL54-60	026613113692	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	12	9.9
CSSL54-60 P	026613114378	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	5	4.7
CSSL54-72	026613113708	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	72"	12	11.0
CSSL57-12	026613113715	1/2" FIP x 3/8" MIP	12"	25	10.0
CSSL57-18	026613120539	1/2" FIP x 3/8" MIP	18"	25	10.9
CSSL57-24	026613117928	1/2" FIP x 3/8" MIP	24"	25	12.1
CSSL57-36	026613117935	1/2" FIP x 3/8" MIP	36"	25	14.4
CSSL87-12	026613113753	3/8" FIP x 3/8" MIP	12"	25	9.1
CSSL87-18	026613113760	3/8" FIP x 3/8" MIP	18"	25	10.0
CSSL87-24	026613113777	3/8" FIP x 3/8" MIP	24"	25	11.2
CSSL87-30	026613119885	3/8" FIP x 3/8" MIP	30"	25	12.4
CSSL87-36	026613113784	3/8" FIP x 3/8" MIP	36"	25	13.7
CSSL87-36 P	026613114408	3/8" FIP x 3/8" MIP	36"	5	3.5
CSSL87-36 X	026613114408	3/8" FIP x 3/8" MIP	36"	10	16.9
CSSL87-48	026613120232	3/8" FIP x 3/8" MIP	48"	25	16.5
CSSL87-48 P	026613114415	3/8" FIP x 3/8" MIP	48"	5	4.0

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/4" ID (3/8" OD) - FIP x MIP (cont.)</b>					
<b>CSSL</b>					
CSSL87-60	026613120058	3/8" FIP x 3/8" MIP	60"	12	9.1



<b>1/4" ID (3/8" OD) - MIP x Gas Ball Valve</b>					
<b>CSSL</b>					
CSSL4M-12	026613113586	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	12"	25	16.5
CSSL4M-18	026613113593	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	18"	25	17.6
CSSL4M-24	026613113609	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	24"	25	18.9
CSSL4M-30	026613118857	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	30"	25	19.9
CSSL4M-36	026613113616	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	36"	25	21.3
CSSL4M-48	026613113623	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	48"	25	24.3
CSSL4M-60	026613119526	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	60"	12	12.6
CSSL4M-72	026613121413	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	72"	12	13.8
CSSL7M-12	026613113739	3/8" MIP x 1/2" FIP Gas Ball Valve	12"	25	15.8
CSSL7M-18	026613113746	3/8" MIP x 1/2" FIP Gas Ball Valve	18"	25	16.8
CSSL7M-24	026613121420	3/8" MIP x 1/2" FIP Gas Ball Valve	24"	25	18.2
CSSL7M-36	026613121444	3/8" MIP x 1/2" FIP Gas Ball Valve	36"	25	20.3
CSSL7M-48	026613133607	3/8" MIP x 1/2" FIP Gas Ball Valve	48"	25	23.6



<b>1/4" ID (3/8" OD) - MIP x MIP</b>					
<b>CSSL</b>					
CSSL44-12	026613113548	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	12"	25	11.2
CSSL44-18	026613113531	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	18"	25	12.1
CSSL44-24	026613112527	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	24"	25	13.3
CSSL44-30	026613113555	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	30"	25	14.5
CSSL44-36	026613113562	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	36"	25	15.8
CSSL44-48	026613113579	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	48"	25	18.6
CSSL44-60	026613117485	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	60"	12	10.1
CSSL44-72	026613119960	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	72"	12	11.2
CSSL47-24	026613118192	1/2" MIP (3/8" FIP Tap) x 3/8" MIP	24"	25	12.6
CSSL77-18	026613120065	3/8" MIP x 3/8" MIP	18"	25	10.7
CSSL77-24	026613113722	3/8" MIP x 3/8" MIP	24"	25	11.9



<b>3/4" ID (7/8" OD) - FIP x FIP</b>					
<b>CSSB</b>					
CSSB22-12	026613134901	3/4" FIP x 3/4" FIP	12"	10	9.0
CSSB22-18	026613134895	3/4" FIP x 3/4" FIP	18"	10	9.8
CSSB22-24	026613119304	3/4" FIP x 3/4" FIP	24"	10	10.8
CSSB22-36	026613119311	3/4" FIP x 3/4" FIP	36"	10	12.8
CSSB22-48	026613119328	3/4" FIP x 3/4" FIP	48"	5	8.3
CSSB22-60	026613126319	3/4" FIP x 3/4" FIP	60"	5	8.6
CSSB22-72	026613120492	3/4" FIP x 3/4" FIP	72"	5	9.7



<b>3/4" ID (7/8" OD) - FIP x MIP</b>					
<b>CSSB</b>					
CSSB21-12	026613134871	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	12"	10	9.7
CSSB21-18	026613134888	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	18"	10	10.4
CSSB21-24	026613118413	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	24"	10	11.4
CSSB21-24 P	026613131511	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	24"	5	6.3
CSSB21-24 X	026613131511	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	24"	10	12.3
CSSB21-30	026613118437	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	30"	10	12.5
CSSB21-36	026613118444	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	36"	10	13.5
CSSB21-36 P	026613131306	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	36"	5	7.2



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
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### 3/4" ID (7/8" OD) - FIP x MIP (cont.)

**CSSB**


CSSB21-36 X	026613131306	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	36"	10	14.0
CSSB21-48	026613118451	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	48"	5	8.8
CSSB21-60	026613118468	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	60"	5	8.9
CSSB21-72	026613118475	3/4" FIP x 3/4" MIP (1/2" FIP Tap)	72"	5	10.0

### 3/8" ID (1/2" OD) - FIP x FIP

**CSSD**


CSSD55-12	026613113432	1/2" FIP x 1/2" FIP	12"	25	12.2
CSSD55-18	026613113449	1/2" FIP x 1/2" FIP	18"	25	13.4
CSSD55-24	026613113456	1/2" FIP x 1/2" FIP	24"	25	15.0
CSSD55-36	026613113463	1/2" FIP x 1/2" FIP	36"	25	18.1
CSSD55-48	026613113470	1/2" FIP x 1/2" FIP	48"	25	21.3
CSSD55-60	026613125558	1/2" FIP x 1/2" FIP	60"	12	11.4
CSSD58-18	026613126289	1/2" FIP x 3/8" FIP	18"	25	12.5

### 3/8" ID (1/2" OD) - FIP x Gas Ball Valve

**CSSD**


CSSD5K-30	026613126401	1/2" FIP x 1/2" FIP Gas Ball Valve	30"	25	23.3
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### 3/8" ID (1/2" OD) - FIP x MIP

**CSSD**


CSSD48-12	026613127538	1/2" MIP (3/8" FIP Tap) x 3/8" FIP	12"	25	11.7
CSSD48-24	026613129068	1/2" MIP (3/8" FIP Tap) x 3/8" FIP	24"	25	14.5
CSSD48-36	026613120447	1/2" MIP (3/8" FIP Tap) x 3/8" FIP	36"	25	17.6
CSSD48-48	026613120430	1/2" MIP (3/8" FIP Tap) x 3/8" FIP	48"	25	20.8
CSSD54-12	026613112473	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	12"	25	12.8
CSSD54-18	026613112480	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	13.9
CSSD54-18 P	026613114286	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	5	3.6
CSSD54-24	026613112497	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	15.4
CSSD54-24 P	026613114293	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	5	3.9
CSSD54-30	026613113401	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	30"	25	17.2
CSSD54-36	026613112503	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	25	18.6
CSSD54-36 P	026613114309	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	5	4.4
CSSD54-48	026613112510	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	25	21.8
CSSD54-48 P	026613114316	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	5	4.8
CSSD54-48 X	026613114316	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	48"	10	9.6
CSSD54-60	026613113418	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	12	12.1
CSSD54-60 P	026613114323	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	60"	5	5.4
CSSD54-72	026613113425	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	72"	12	13.5
CSSD54-72 P	026613121482	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	72"	5	6.2

### 3/8" ID (1/2" OD) - MIP x Gas Ball Valve

**CSSD**


CSSD4K-12	026613113364	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	12"	25	18.9
CSSD4K-18	026613112435	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	18"	25	20.3
CSSD4K-24	026613112442	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	24"	25	22.0
CSSD4K-30	026613113371	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	30"	25	23.7
CSSD4K-36	026613112459	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	36"	25	25.1
CSSD4K-48	026613113388	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	48"	25	28.4
CSSD4K-60	026613113395	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	60"	12	15.1
CSSD4K-72	026613120928	1/2" MIP (3/8" FIP Tap) x 1/2" FIP Gas Ball Valve	72"	12	16.8

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>3/8" ID (1/2" OD) - MIP x MIP</b>					<b>CSSD</b>
CSSD44-12	026613113333	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	12"	25	13.1
CSSD44-12 P	026613127705	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	12"	5	2.8
CSSD44-18	026613112466	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	18"	25	14.3
CSSD44-24	026613112336	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	24"	25	15.9
CSSD44-24 P	026613119816	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	24"	5	4.0
CSSD44-30	026613112343	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	30"	25	17.5
CSSD44-36	026613112329	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	36"	25	19.0
CSSD44-36 P	026613118161	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	36"	5	4.5
CSSD44-48	026613112350	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	48"	25	22.2
CSSD44-48 P	026613119823	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	48"	5	4.9
CSSD44-60	026613113340	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	60"	12	12.2
CSSD44-60 P	026613126203	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	60"	5	5.5
CSSD44-72	026613113357	1/2" MIP (3/8" FIP Tap) x 1/2" MIP (3/8" FIP Tap)	72"	12	13.7
CSSD77-12	026613121604	3/8" MIP x 3/8" MIP	12"	25	11.4
CSSD77-24	026613120829	3/8" MIP x 3/8" MIP	24"	25	14.1
CSSD77-36	026613120393	3/8" MIP x 3/8" MIP	36"	25	17.3
CSSD77-48	026613118987	3/8" MIP x 3/8" MIP	48"	25	20.4



<b>3/4" ID (7/8" OD) - FIP x MIP</b>					<b>CSSB</b>
CSSB1412-12	026613134642	1" FIP x 1" MIP (3/4" FIP Tap)	12"	10	12.5
CSSB1412-18	026613134635	1" FIP x 1" MIP (3/4" FIP Tap)	18"	10	13.2
CSSB1412-24	026613118482	1" FIP x 1" MIP (3/4" FIP Tap)	24"	10	14.2
CSSB1412-36	026613118499	1" FIP x 1" MIP (3/4" FIP Tap)	36"	10	16.3



<b>3/4" ID (7/8" OD) - MIP x MIP</b>					<b>CSSB</b>
CSSB11-12	026613134949	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	12"	10	10.3
CSSB11-18	026613134956	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	18"	10	11.1
CSSB11-24	026613127682	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	24"	10	12.1
CSSB11-30	026613134796	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	30"	10	13.0
CSSB11-36	026613122809	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	36"	10	14.1
CSSB11-48	026613130248	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	48"	5	8.9
CSSB11-60	026613127699	3/4" MIP (1/2" FIP Tap) x 3/4" MIP (1/2" FIP Tap)	60"	5	9.2
CSSB212-24	026613129877	1" MIP (3/4" FIP Tap) x 1" MIP (3/4" FIP Tap)	24"	10	15.2



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>1/4" ID (3/8" OD) - FIP x MIP</b>					<b>BCSSL</b>
 BCSSL54-18	026613144405	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	11.7
 BCSSL54-24	026613133812	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	12.9
 BCSSL87-18	026613132174	3/8" FIP x 3/8" MIP	18"	25	10.1
 BCSSL87-24	026613132297	3/8" FIP x 3/8" MIP	24"	25	11.6
<b>1/4" ID (3/8" OD) - MIP x Gas Ball Valve</b>					<b>BCSSL</b>
 BCSSL7M-12	026613142074	3/8" MIP x 1/2" FIP Gas Ball Valve	12"	25	15.8
<b>1/4" ID (3/8" OD) - MIP x MIP</b>					<b>BCSSL</b>
 BCSSL47-18	026613131474	1/2" MIP (3/8" FIP Tap) x 3/8" MIP	18"	25	11.5
<b>3/8" ID (1/2" OD) - FIP x MIP</b>					<b>BCSSD</b>
 BCSSD54-12	026613134413	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	12"	25	12.7
 BCSSD54-18	026613132327	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	18"	25	14.0
 BCSSD54-24	026613132310	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	24"	25	15.5
 BCSSD54-30	026613133393	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	30"	25	17.1
 BCSSD54-36	026613132723	1/2" FIP x 1/2" MIP (3/8" FIP Tap)	36"	25	18.7
<b>3/8" ID (1/2" OD) - MIP x MIP</b>					<b>BCSSD</b>
 BCSSD47-18	026613131429	1/2" MIP (3/8" FIP Tap) x 3/8" MIP	18"	25	13.5
 BCSSD47-30	026613131436	1/2" MIP (3/8" FIP Tap) x 3/8" MIP	30"	25	16.7
 BCSSD77-24	026613133447	3/8" MIP x 3/8" MIP	24"	25	14.2



## Gas Installation Kits

Designed to fit most new and older appliances. Kits contain everything needed to make a quick and easy gas connection.



- ProCoat® Coated Stainless Steel Gas Connector
- Safety+PLUS® Excess Flow Valve\*
- Multiple Steel Gas Fittings to Fit Most Appliances
- Pipe Thread Sealant
- Leak Detection Solution

\*Included with PSC1107, PSC1106 kits only.

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>Black ProCoat® Gas Installation Kit for Gas Log &amp; Space Heater</b>					

PSC1079	026613114439	(1) BCSSD54-24 1/2" OD x 24" black coated gas connector (1) AU2-8S 1/2" MIP (3/8" FIP) steel fitting (1) AU1-8S 1/2" FIP steel fitting (1) AU2-8-6S 3/8" MIP steel fitting (1) 3mil tube of pipe thread sealant (1) 3mil tube of leak detection solution	24"	5	5.9
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## ProCoat® Tankless Water Heater Installation Kit

PSB1096 L	039166108497	(1) CSSB21-24 7/8" OD x 24" yellow coated gas connector (1) AU2-14-12 1/2" FIP steel fitting (1) AU2-14-16 1" MIP steel fitting (1) AU1-14-12 3/4" FIP steel fitting (1) AU1-14-16 1" FIP steel fitting (1) 3mil tube of pipe thread sealant (2) 3mil tube of l	24"	5	10.2
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## Safety+PLUS® Gas Installation Kit for Pro-Grade Range & Furnace

PSC1107	039166123896	(1) CSSC54R-48 5/8" OD (15/16-16 Thread) x 48" yellow coated gas connector (1) MRU2-10-12 Safety+PLUS EFV 3/4" MIP (1/2" FIP) (1) MAU2-10-12S 3/4" MIP (1/2" FIP) steel fitting (1) MAU2-10-8S 1/2" MIP steel fitting (1) 3mil tube of pipe thread sealant	48"	10	19.0
PSC1107 K5	039166123896	(1) CSSC54R-48 5/8" OD (15/16-16 Thread) x 48" yellow coated gas connector (1) MRU2-10-12 Safety+PLUS EFV 3/4" MIP (1/2" FIP) (1) MAU2-10-12S 3/4" MIP (1/2" FIP) steel fitting (1) MAU2-10-8S 1/2" MIP steel fitting (1) 3mil tube of pipe thread sealant	48"	5	9.7



## Safety+PLUS® Gas Installation Kit for Range & Dryer

PSC1106	039166123889	(1) CSSD44R-48 1/2" OD x 48" yellow coated gas connector (1) RU2-8L Safety+PLUS EFV (1/2" MIP) (1) AU2-8S 1/2" MIP (3/8" FIP) steel fitting (1) AU1-8S 1/2" FIP steel fitting	48"	10	15.9
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PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>Safety+PLUS2® Gas Installation Kit for Pro-Grade Range &amp; Furnace</b>					
PSCTE1106 K5	026613174297	(1) CSSD44TE-48 1/2" OD x 48" yellow coated gas connector (1) RU2-8L Safety+PLUS EFV (1/2" MIP) (1) AU2-8S 1/2" MIP (3/8" FIP) steel fitting (1) AU1-8S 1/2" FIP steel fitting	48"	5	8.1

# Gas Ball Valves

*Superior Performance and Reliability*



**Forged Brass Body**

Eliminates pinhole leaks commonly associated with cast products.

**Specially Designed Seat Rings**

PTFE seats assure longer life.

**Quarter-Turn Design**

For easy on/off operation.

**Blow-Out Proof Stem**

Assembled from the inside with double o-rings to help ensure safe, reliable performance.

**100% Leak Tested**

Each valve is leak tested to help ensure reliability.

**Handle Design**

Integrates "T" and lever handles into one, saving inventory SKUs and dollars.

**Made in Italy\***



PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>FIP x FIP</b>				
TBV12	026613099422	3/4" FIP x 3/4" FIP	10	5.7
TBV16	026613099439	1" FIP x 1" FIP	6	6.0
TBV8	026613099415	1/2" FIP x 1/2" FIP	10	3.6
<b>FIP x FIP - Full Port</b>				
TBV12F	026613139609	3/4" FIP x 3/4" FIP	6	4.1
<b>Flare x FIP</b>				
TBV10-12	026613099385	5/8" OD Flare (15/16-16 Thread) x 3/4" FIP	10	5.9
TBV10-8	026613099378	5/8" OD Flare (15/16-16 Thread) x 1/2" FIP	10	5.4
TBV6-8	026613099347	3/8" OD Flare x 1/2" FIP	10	.2
TBV6F-8	026613099354	3/8" OD Flare (9/16-24 Fine Thread) x 1/2" FIP	10	3.5
TBV8-8	026613099361	1/2" OD Flare x 1/2" FIP	10	3.9



\*Except for LBV8 and LBV12



PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>Flare x FIP - Angle</b>				
TBVA10-12	026613099392	5/8" OD Flare (15/16-16 Thread) x 3/4" FIP	10	.3
TBVA6-8	026613100258	3/8" OD Flare x 1/2" FIP	10	5.3
TBVA8-8	026613100241	1/2" OD Flare x 1/2" FIP	10	5.3



<b>Flare x Flare</b>				
TBVF6	026613099316	3/8" OD Flare x 3/8" OD Flare	10	3.4
TBVF8	026613099323	1/2" OD Flare x 1/2" OD Flare	10	3.7



<b>FIP x FIP</b>				
LBV12	026613122069	3/4" FIP x 3/4" FIP	10	4.6
LBV8	026613122052	1/2" FIP x 1/2" FIP	10	3.2

# Part Numbering System

Example:



**A U 1 - 6 - 8**

Body Style

Size

Female Adaptor -  
Flare x FIP

3/8" OD Tube x  
1/2" FIP

## AU1

Body Style

### Body Style

#### Safety+PLUS® Appliance Excess Flow Valves:

<b>MRU1*</b> / RU1	Female Adaptor - Flare x FIP
<b>MRU2*</b> / RU2	Male Adaptor - Flare x MIP (Tapped FIP Option)
<b>MRU4*</b> / RU4	Male Adaptor - Flare x MIP (Tapped Female Flare)
<b>MRU5*</b> / EU5	Female Union - Flare x Female Flare

#### Adaptor Fittings:

<b>MAU1*</b> / AU1	Female Adaptor - Flare x FIP
<b>MAU2*</b> / AU2	Male Adaptor - Flare x MIP (Tapped FIP)
<b>MAE1*</b>	Female Elbow
<b>AU6</b>	Female Flare x MIP Adaptor
<b>AU7</b>	Female Flare x FIP Adaptor

#### Fine-Thread Adaptor Fittings:

<b>F10/12</b>	Male Adaptor
<b>F15/17</b>	Female Elbow
<b>FC</b>	Flare Cap
<b>FO</b>	Flare Nut

<b>FRC11/13</b>	Female Adaptor
<b>FRC16/18</b>	Male Elbow
<b>FT3</b>	Flare Tee
<b>FU3</b>	Flare Union
<b>FA6-8</b>	Female Flare Fine Thread Adaptor

#### Gas Ball Valves:

<b>TBV</b>	FIP x Flare or FIP x FIP
<b>TBVA</b>	FIP x Flare (Angle)
<b>TBVF</b>	Flare x Flare
<b>TBV#F</b>	FIP x FIP (Full Port)

*\*Fittings with 5/8" OD (15/16 -16 Thread)*

**CAUTION:** Use only 5/8" OD Flare (15/16 -16 Thread) Gas Fittings and Valves with 5/8" OD Gas Appliance Connectors (BrassCraft CSSC Series)

## 6 - 8

Size

### Size

#### Tube & Pipe Sizing:

<b>2</b>	1/8"	<b>5</b>	5/16"	<b>8</b>	1/2"	<b>14</b>	7/8"
<b>3</b>	3/16"	<b>6</b>	3/8"	<b>10</b>	5/8"	<b>16</b>	1"
<b>4</b>	1/4"	<b>7</b>	7/16"	<b>12</b>	3/4"		



PART NO.	UPC	DESCRIPTION	USE WITH CONNECTOR	QTY	LBS
<b>Fine Thread Flare Caps</b>			<b>CSST</b>		
FC-6	026613059037	3/8" OD Tube (9/16-24 Thread), Brass		10	.3



PART NO.	UPC	DESCRIPTION	USE WITH CONNECTOR	QTY	LBS
<b>Fine Thread Flare Nuts</b>			<b>CSST</b>		
F0-6	026613004785	3/8" OD Tube (9/16-24 Thread), Brass		10	.2



PART NO.	UPC	DESCRIPTION	USE WITH CONNECTOR	QTY	LBS
<b>Fine Thread Flare Unions</b>			<b>CSST</b>		
FA6 P	026613181431	ADAPTER 3/8 MALE FLARE X 3/8 FEMALE FLARE 9/16-24 FT		5	.6



PART NO.	UPC	DESCRIPTION	USE WITH CONNECTOR	QTY	LBS
FU3-6	026613005119	3/8" OD Tube (9/16-24 Thread), Both Ends, Brass		10	.5

PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>Female Flare x FIP</b>				
AU7-10-8 P	026613159355	5/8" Female Flare x 1/2" FIP	5	1.2
<b>Female Flare x MIP</b>				
AU6-8-6 P	026613159348	1/2" Female Flare x 3/8" MIP	5	.7
<b>Flare Caps</b>				
40-6	026613004921	3/8" OD Tube, Brass	10	.4
40-8	026613004938	1/2" OD Tube, Brass	10	.4
M40-10	026613052069	5/8" OD (15/16-16 Thread) Flare, Brass	10	1.0
<b>Flare Nuts - Short</b>				
41S-6	026613004976	3/8" OD Tube, Brass	10	.5
41S-8	026613004990	1/2" OD Tube, Brass	10	.7
<b>Flare x FIP</b>				
AU1-14-12	026613132846	7/8" OD Flare x 3/4" FIP, Brass	10	1.8
AU1-6-8S	026613106717	3/8" OD Flare x 1/2" FIP, Steel	25	2.8
AU1-6S	026613088501	3/8" OD Flare x 1/2" FIP, Steel	25	1.9
AU1-8S	026613088532	1/2" OD Flare x 1/2" FIP, Steel	25	3.1





PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>Flare x FIP (cont.)</b>				
AU1-14-12S	026613119168	7/8" OD Flare x 3/4" FIP, Steel	10	1.8
AU1-14-16S	026613119182	7/8" OD Flare x 1" FIP, Steel	10	3.0



MAU1-10-12	026613004846	5/8" OD Flare (15/16-16 Thread) x 3/4" FIP, Brass	25	4.0
MAU1-10-12 K5	026613084251	5/8" OD Flare (15/16-16 Thread) x 3/4" FIP, Brass	5	.8



MAU1-10-12S	026613082660	5/8" OD Flare (15/16-16 Thread) x 3/4" FIP, Steel	25	4.8
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MAU1-10-8	026613004853	5/8" OD Flare (15/16-16 Thread) x 1/2" FIP, Brass	25	3.7
MAU1-10-8 K5	026613084275	5/8" OD Flare (15/16-16 Thread) x 1/2" FIP, Brass	5	.7



MAU1-10-8S	026613088570	5/8" OD Flare (15/16-16 Thread) x 1/2" FIP, Steel	25	4.2
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PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>Flare x MIP</b>				
AU2-14-12	026613132860	7/8" OD Flare x 3/4" MIP (1/2" FIP), Brass	10	2.6
AU2-14-12S	026613119151	7/8" OD Flare x 3/4" MIP (1/2" FIP), Steel	10	2.6
AU2-14-16S	026613119175	7/8" OD Flare x 3/4" MIP (1/2" FIP), Steel	10	3.9
AU2-14-16	026613132877	7/8" OD Flare x 1" MIP (3/4" FIP), Brass	10	4.2
AU2-6-8	026613082691	3/8" OD Flare x 1/2" MIP (3/8" FIP), Brass	25	3.2
AU2-6-8S	026613106724	3/8" OD Flare x 1/2" MIP (3/8" FIP), Steel	25	3.2
AU2-8	026613088556	1/2" OD Flare x 1/2" MIP (3/8" FIP), Brass	25	3.5
AU2-8-12S	026613088563	1/2" OD Flare x 3/4" MIP (1/2" FIP), Steel	25	5.1
AU2-8-6S	026613053707	1/2" OD Flare x 3/8" MIP, Steel	10	1.1
AU2-8S	026613082646	1/2" OD Flare x 1/2" MIP (3/8" FIP), Steel	25	3.5



MAU2-10-12	026613004860	5/8" OD Flare (15/16-16 Thread) x 3/4" MIP (1/2" FIP), Brass	25	5.8
MAU2-10-12 K5	026613084282	5/8" OD Flare (15/16-16 Thread) x 3/4" MIP (1/2" FIP), Brass	5	1.2



MAU2-10-12S	026613082677	5/8" OD Flare (15/16-16 Thread) x 3/4" MIP (1/2" FIP), Steel	25	6.2
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PART NO.	UPC	DESCRIPTION	QTY	LBS
<b>Flare x MIP (cont.)</b>			<b>USE WITH CONNECTOR</b>	<b>CSSC</b>
MAU2-10-8	026613004877	5/8" OD Flare (15/16-16 Thread) x 1/2" MIP (3/8" FIP), Brass	25	4.7
MAU2-10-8 K5	026613084299	5/8" OD Flare (15/16-16 Thread) x 1/2" MIP (3/8" FIP), Brass	5	.9



MAU2-10-8S	026613082684	5/8" OD Flare (15/16-16 Thread) x 1/2" MIP (3/8" FIP), Steel	25	4.8
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<b>Gas Connector Nuts</b>			<b>USE WITH CONNECTOR</b>	<b>CSSC</b>
ASN-10	026613082387	5/8" OD (15/16-16 Thread) Flare, Brass	25	2.7



# Copper-Flex™ Water Heater Connectors

Patented Resistance Against Galvanic Corrosion



## Internal Dielectric Sleeve

Effectively separates dissimilar metals within the waterway to prevent galvanic corrosion.

## No Dielectric Union Needed\*

Dielectric sleeve eliminates the need for a dielectric union (plastic lined nipple).

## Low Torque to Seal

Pliant rubber washer seals well with minimal effort.

## Longer Connector Nuts

A greater number of thread-to-thread contact provides a better seal to lined nipples.

## Available for PEX connections



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
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### 7/8" OD Tube - Female Sweat x Female Sweat



WC44-15	026613008318	3/4" Nom Female Sweat (7/8" ID) x 3/4" Nom Female Sweat (7/8" ID)	15"	25	8.7
WC44-18	026613008325	3/4" Nom Female Sweat (7/8" ID) x 3/4" Nom Female Sweat (7/8" ID)	18"	25	10.6

### 7/8" OD Tube - Female Sweat x Male Sweat



WC43-18	026613008288	3/4" Nom Female Sweat (7/8" ID) x 3/4" Nom Male Sweat (7/8" OD)	18"	25	10.6
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### 7/8" OD Tube - FIP X FIP



WB00-12N	026613089287	3/4" FIP x 3/4" FIP	12"	25	10.3
WB00-15N	026613089300	3/4" FIP x 3/4" FIP	15"	25	11.9
WB00-18N	026613089331	3/4" FIP x 3/4" FIP	18"	25	13.8
WB00-24N	026613089348	3/4" FIP x 3/4" FIP	24"	25	17.4
WB00-30N	026613125701	3/4" FIP x 3/4" FIP	30"	25	22.3
WB00-36N	026613125718	3/4" FIP x 3/4" FIP	36"	25	26.1
WB10-18N	026613131504	1" FIP x 3/4" FIP	18"	25	17.1

**▲ WARNING:** For use with water in accessible locations only. DO NOT use with gas – gas will cause corrosion and leakage.

\*Check your local inspection office for applicable code requirements.

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
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## 7/8" OD Tube - FIP x Male Sweat

WB03-18N	026613089386	3/4" FIP x 3/4" Nom Male Sweat (7/8" OD)	18"	25	12.2
WB03-24N	026613089393	3/4" FIP x 3/4" Nom Male Sweat (7/8" OD)	24"	25	15.8



## 7/8" OD Tube - FIP x Male/Female Sweat

WB034-12N	026613089409	3/4" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	12"	25	8.7
WB034-15N	026613089416	3/4" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	15"	25	10.3
WB034-18N	026613089423	3/4" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	18"	25	12.2
WB034-24N	026613093710	3/4" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	24"	25	15.8
WB134-18N	026613110608	1" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	18"	25	15.5
WB134-24N	026613110615	1" FIP x 3/4" Nom Male/Female Sweat (7/8" ID)	24"	25	19.2



## 7/8" OD Tube - FIP x PEX Barb

WB07-18	026613048871	3/4" FIP x 3/4" PEX Barb (brass, pre-torqued)	18"	25	16.5
WB07-24	026613100661	3/4" FIP x 3/4" PEX Barb (brass, pre-torqued)	24"	25	20.3



## 7/8" OD Tube - FIP/MIP x FIP

WB20-12N	026613108254	3/4" FIP/MIP x 3/4" FIP	12"	25	14.8
WB20-18N	026613097695	3/4" FIP/MIP x 3/4" FIP	18"	25	18.2
WB20-24N	026613097701	3/4" FIP/MIP x 3/4" FIP	24"	25	21.9



## 7/8" OD Tube - FIP/MIP x Male/Female Sweat

WB234-12N	026613093727	3/4" FIP/MIP x 3/4" Nom Male/Female Sweat (7/8" ID)	12"	25	13.2
WB234-15N	026613093734	3/4" FIP/MIP x 3/4" Nom Male/Female Sweat (7/8" ID)	15"	25	14.9
WB234-18N	026613093741	3/4" FIP/MIP x 3/4" Nom Male/Female Sweat (7/8" ID)	18"	25	16.6
WB234-24N	026613093758	3/4" FIP/MIP x 3/4" Nom Male/Female Sweat (7/8" ID)	24"	25	20.3



## 7/8" OD Tube - FIP/MIP x PEX Barb

WB27-18	026613107950	3/4" FIP/MIP x 3/4" PEX Barb (brass, pre-torqued)	18"	25	21.1
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# ProCoat® Coated Stainless Steel Water Heater Connectors

*Greater Flexibility, Superior Corrosion Resistance*

## Exclusive ProCoat® Clear Coat

Provides superior corrosion resistance to deterioration from most harsh chemicals that can cause pinhole leaks.

## Full Flow, Maximum Performance

With 3/4" full flow internal diameter, our connectors provide greater water flow without obstruction.

## Integrated Dielectric Sleeve

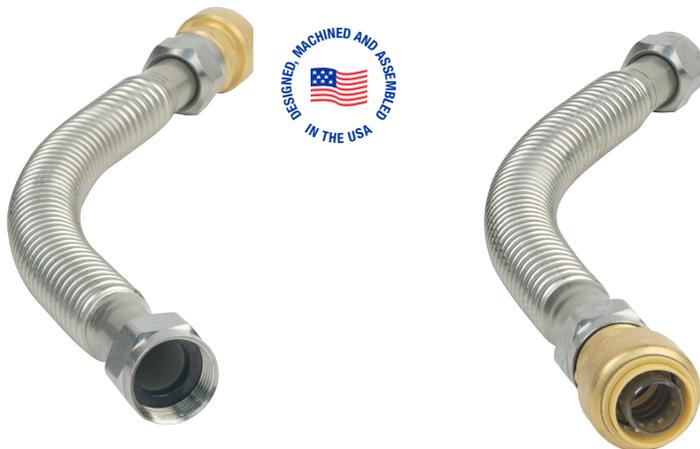
Isolates dissimilar metals within the waterway, where galvanic and electrolytic corrosion have their greatest potential.

## No Dielectric Union Needed\*

Integrated dielectric sleeve eliminates the need to install an additional dielectric union, reducing time and installation costs.

## 100% Leak Tested

Each connector is leak tested to help ensure connector performance and reliability.



## Push Connect

Compatible with Copper, PEX, and CPVC

## Installation Ready

Pre-inserted tube stiffener self aligns with the tubing to create a durable, watertight seal.

## No Soldering or Glue Needed

Push Connect technology allows connecting with confidence for a fast, reliable, and durable connection.



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>3/4" ID Tube - FIP x FIP</b>					
SWB00-12N	026613142562	(3/4" ID) 3/4" FIP x 3/4" FIP	12"	25	7.9
SWB00-15N	026613142579	(3/4" ID) 3/4" FIP x 3/4" FIP	15"	25	9.0
SWB00-18N	026613142586	(3/4" ID) 3/4" FIP x 3/4" FIP	18"	25	10.2
SWB00-24N	026613142593	(3/4" ID) 3/4" FIP x 3/4" FIP	24"	25	12.5
<b>3/4" ID Tube - FIP x PEX Barb</b>					
SWB07-18N	026613156781	(3/4" ID) 3/4" FIP x 3/4" PEX Barb (brass, pre-torqued)	18"	25	12.9
<b>3/4" ID Tube - Push Connect X FIP</b>					
SWB0PS-12N	026613166438	3/4" Push Connect x 3/4" FIP	12"	25	12.1
SWB0PS-18N	026613165974	3/4" Push Connect x 3/4" FIP	18"	25	14.3
SWB0PS-24N	026613166421	3/4" Push Connect x 3/4" FIP	24"	25	16.6

\*BrassCraft Manufacturing Company is in compliance with the National Reduction of Lead in Drinking Water Act. This legislation changed the legal definition of "lead free" from 8% lead to a weighted average lead content of 0.25% with respect to wetted surfaces.

**▲ WARNING:** For use with water in accessible locations only. DO NOT use with gas – gas will cause corrosion and leakage.

\*Check your local inspection office for applicable code requirements.

# Tankless Water Heater Installation Kits

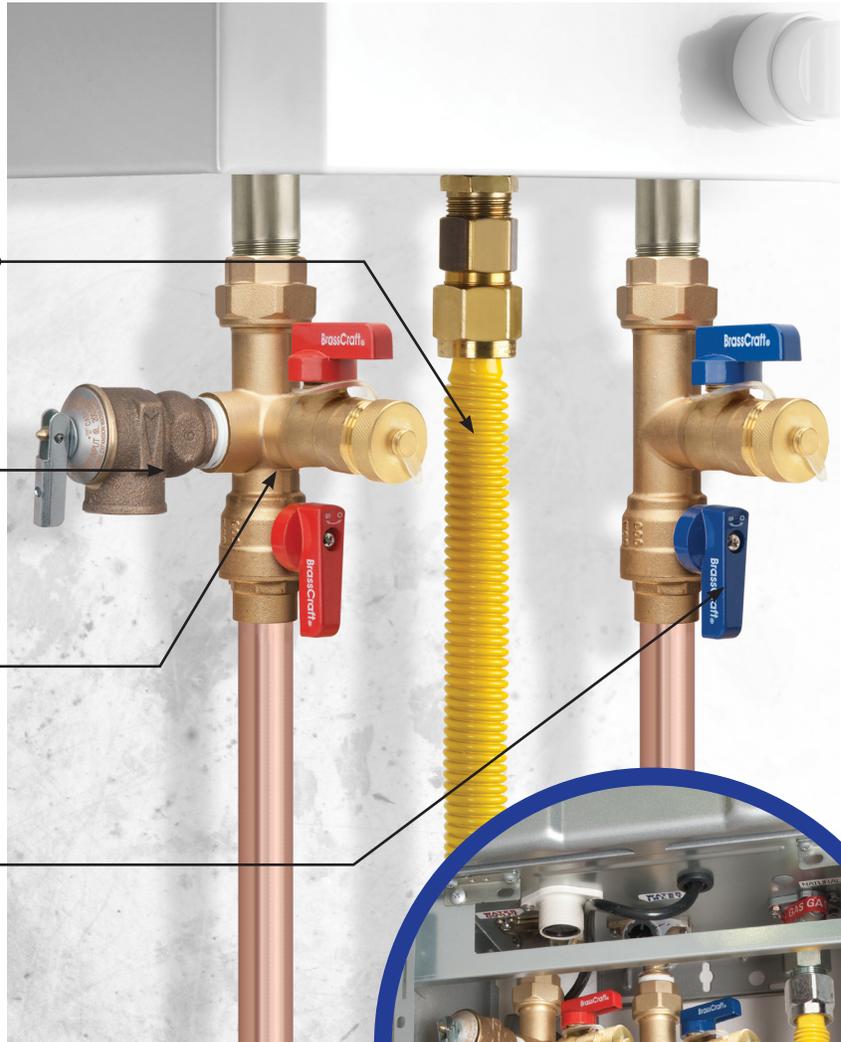
As the world leader in gas and water products, BrassCraft®'s tankless water heater installation kits are no exception. Compliant with 2014 no-lead requirements, our tankless water heater installation kits simplify the installation process with fewer connections and a clean, professional finish. Featuring independent, 1/4 turn water control, BrassCraft® service valves make it simple to service and test the appliance.

**Large Capacity Gas Connector** ○  
With exclusive ProCoat® corrosion resistant coating

**Built-In Port for PR Valve** ○  
Reduces the number of connections required

**Integrated Drain Valve** ○  
With independent, 1/4 turn operation

**Right-Sized Handles** ○  
Color coded and great for tight installations



**BrassCraft® Tankless Water Heater Kits offer a wide range of features including:**

- One-piece, forged brass body
- Drain valve with brass safety cap
- 3/4" ID coated stainless steel gas connector
- Available in sweat & IPS configurations
- Optional full-port gas ball valve



Service Valves



Gas Connector & Gas Ball Valve

**Ideal for Recessed and Cover Box Installations**

## Part Numbering System

Example:



**T K 3 0 R B 2 1 - 1 8 G 3 X**

Kit Type

Inlet/Outlet  
Size and Connection

PRV

Gas Connector

Gas Ball Valve

**T K**

Kit Type

### Kit Type

TWV Hot and Cold service valves  
TK Service valve kit

**3 0**

Kit Type

### Inlet/Outlet Size and Connection

30 3/4 in. IPS Service Valves  
3S 3/4 in. Sweat Service Valves

**R**

Kit Type

### PRV

R 200k BTU Pressure relief valve included  
Blank No PRV

**B21-18**

Kit Type

### Gas Connector

B21-18 200k BTU Pressure relief valve included  
B21-24 24 in CSSB Gas connector included  
Blank No Gas Connector

**G 3 X**

Size

### Gas Ball Valve

G3 Full port 3/4 in FIP x 3/4 FIP Gas ball valve  
Blank No Gas Ball Valve

PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
<b>Service Valve Kits</b>					
TWV30X	026613141350	IPS x IPS Service Valve Kit	N/A	6	7.8
TWV3SX	026613141411	Sweat x IPS Service Valve Kit	N/A	6	8.5



<b>Service Valve Kits with Gas Connector</b>					
TK30RB21-18X	026613141367	IPS x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 18" Yellow Coated Gas Connector & PR Valve	18"	3	10.8
TK30RB21-24X	026613141374	IPS x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 24" Yellow Coated Gas Connector & PR Valve	24"	3	11.1
TK3SRB21-18X	026613141923	Sweat x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 18" Yellow Coated Gas Connector & PR Valve	18"	3	11.2
TK3SRB21-24X	026613141930	Sweat x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 24" Yellow Coated Gas Connector & PR Valve	24"	3	11.5



<b>Service Valve Kits with Gas Connector &amp; Gas Ball Valve</b>					
TK30RB21-18G3X	026613141381	IPS x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 18" Yellow Coated Gas Connector, 3/4" Full-Port Gas Ball Valve & PR Valve	18"	3	12.8
TK30RB21-24G3X	026613141398	IPS x IPS Service Valve Kit with 3/4" ID (3/4" FIP x 3/4" MIP) x 24" Yellow Coated Gas Connector, 3/4" Full-Port Gas Ball Valve & PR Valve	24"	3	13.1



<b>Service Valve Kits with PRV</b>					
TWV30RX	026613141343	IPS x IPS Service Valve Kit with Pressure Relief Valve (200 kBTu/hr)	N/A	6	10.8
TWV3SRX	026613141404	Sweat x IPS Service Valve Kit with Pressure Relief Valve (200 kBTu/hr)	N/A	6	11.5



<b>Pressure Relief Valve 200k BTU</b>					
PRV-R	026613139593		50	25.5	



PART NO.	UPC	DESCRIPTION	LENGTH	QTY	LBS
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### Adaptors

WRU-12-12X	026613154213	Male Adaptor 3/4-14 Straight Male Pipe Thread x 3/4" MIP	25	4.5	
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### Pipe Reducer Bushings

PRB-12-8X	026613151281	3/4" MIP x 1/2" FIP	5	5	.4
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### Removal Tool

PCT-12	026613166490	3/4" Push Connect Removal Tool	100	2.4	
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### Water Heater Connector Washers

WRJ	026613051963	Washer 1.020" OD x .687" ID x .240" Thick. For Copper Connectors with an Internal Dielectric Sleeve	25	.1	
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WWCD	026613051970	Washer .940" OD x .675" ID x .218" Thick. For Copper Connectors with an External Dielectric Sleeve	25	.1	
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**SAFETY+PLUS® GAS APPLIANCE CONNECTORS w/EXCESS FLOW VALVE**

**Use:** For use with indoor and outdoor connections of gas appliances to gas piping system. May be used with natural, manufactured, mixed and liquefied petroleum (LP or propane) gases, and LP gas-air mixtures.

**Excess Flow Valve (EFV) Design Features:**

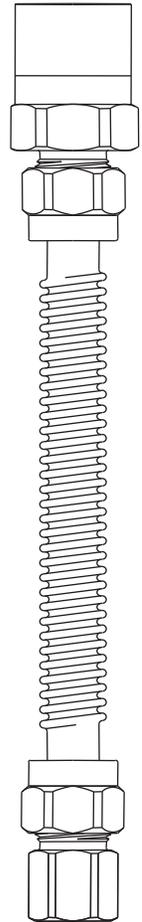
- **Helps prevent gas fires and explosions** due to gas line ruptures or disconnects at the appliance
- **Automatic valve activation** immediately restricts gas flow to a non-hazardous level to help avert a dangerous build up of gas in the home
- **Automatic reset** once the gas line has been properly repaired
- **100% performance tested**

**Connector Design Features:**

- **Superior corrosion resistance** coating to protect against harsh chemicals found in most common household cleaning, plumbing repair, and masonry products
- **UV rays and salt resistant**, ProCoat® gas connectors are certified for indoor and outdoor use
- **100% leak tested**

**Operating Specifications:**

**Temperature:** 32° - 150° F  
**Pressure:** 1/2 PSI maximum



<b>MATERIAL SPECIFICATIONS</b>	
<b>Tubing</b>	Stainless steel
<b>Coating</b>	Polymer blend
<b>Nut</b>	Steel
<b>Standard Fitting</b>	Steel

<b>CONNECTOR FLOW CAPACITY – NATURAL GAS (Straight Length)</b>									
MODEL	ID	12"	18"	24"	30"	36"	48"	60"	72"
CSSC	1/2"	122,000	118,000	115,000	111,000	105,000	106,000	93,200	86,000
CSSD	3/8"	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
CSSL	1/4"	42,000	37,400	36,800	36,400	33,400	28,300	24,900	23,100

<b>CONNECTOR FLOW CAPACITY - LPG (PROPANE) (Straight Length)</b>									
MODEL	ID	12"	18"	24"	30"	36"	48"	60"	72"
CSSC	1/2"	195,200	188,800	184,000	176,700	168,000	169,600	149,120	137,600
CSSD	3/8"	163,200	148,960	136,000	123,360	113,760	96,800	85,120	78,560
CSSL	1/4"	67,200	59,840	58,880	58,240	53,440	45,280	39,840	36,960

**Listings & Certifications:**

- Components CSA listed to ANSI Z21.24 / CSA 6.10 standard “Connectors for Gas Appliances” (file #204593)
- Components CSA listed to ANSI Z21.75 / CSA 6.27 standard “Connectors for Outdoor Gas Appliances & Manufactured Homes” (file #204593)
- CSA listed to ANSI Z21.93 / CSA 6.30 standard “Excess Flow Valves for Natural Gas with Pressures up to 5 PSI”



## PROCOAT® GAS APPLIANCE CONNECTORS

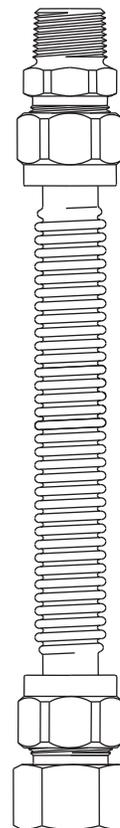
**Use:** For use with indoor and outdoor connections of gas appliances to gas piping system. May be used with natural, manufactured, mixed and liquefied petroleum (LP or propane) gases, and LP gas-air mixtures.

### Design Features:

- **Corrosion resistant** coating to protect against harsh chemicals found in most common household cleaning, plumbing repair, and masonry products
- **UV rays and salt resistant**, ProCoat® gas connectors are certified for indoor and outdoor use
- **100% leak tested**

### Operating Specifications:

**Temperature:** -40° - 150° F  
**Pressure:** 1/2 PSI maximum



### MATERIAL SPECIFICATIONS

<b>Tubing</b>	Stainless steel
<b>Coating</b>	Polymer blend
<b>Nut</b>	Steel
<b>Fitting</b>	Steel

### CONNECTOR FLOW CAPACITY – NATURAL GAS (Straight Length)

MODEL	ID	12"	18"	24"	30"	36"	48"	60"	72"
CSSB	3/4"	290,900	290,900	290,900	270,500	255,900	215,000	197,400	173,900
CSSC	1/2"	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000
CSSD	3/8"	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
CSSL	1/4"	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100

### CONNECTOR FLOW CAPACITY - LPG (PROPANE) (Straight Length)

MODEL	ID	12"	18"	24"	30"	36"	48"	60"	72"
CSSB	3/4"	465,440	465,440	465,440	432,800	409,440	344,000	315,840	278,240
CSSC	1/2"	288,000	262,720	240,000	217,600	200,000	169,600	149,120	137,600
CSSD	3/8"	163,200	148,960	136,000	123,360	113,760	96,800	85,120	78,560
CSSL	1/4"	76,800	70,080	64,000	58,240	53,440	45,280	39,840	36,960

### Listings & Certifications:

- CSA listed to ANSI Z21.24 / CSA 6.10 standard "Connectors for Gas Appliances"
- CSA listed to ANSI Z21.75 / CSA 6.27 standard "Connectors for Outdoor Gas Appliances & Manufactured Homes" (file #204593)
- The Commonwealth of Massachusetts



## TANKLESS WATER HEATER SERVICE VALVES

**Use:** For use only in potable water distribution systems. Valves are used for water flow control to and from tankless water heater for maintenance of the appliance and emergency shut-off. Valves connect directly to cold water inlet and hot water outlet of the tankless water heater.

**Design Features:**

- **Compact design** ideal for recessed and cover box installations
- **Captive coupling nut and washer** reduces opportunity for component loss making installation easier
- **Captive washer** won't kink or tear during installation
- **Forged, one-piece construction** reduces the potential for pinhole leaks commonly associated with cast products
- **Integrated drain valve** with independent, 1/4 turn operation allows quick system diagnostic testing and maintenance
- **Built-in side port** for the pressure relief valve reduces the number of connections and simplifies the installation
- **Right-sized handles, color-coded** for immediate system identification. Perfect for tight installations
- 

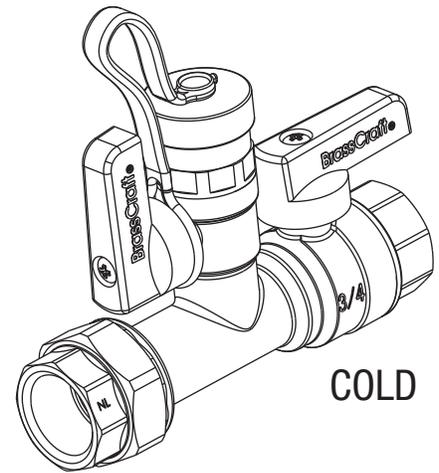
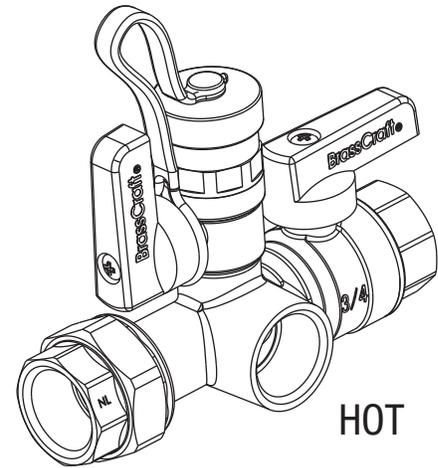
**Operating Specifications:**

**Temperature:** 40° - 180° F  
**Pressure:** 125 PSI maximum

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Low-lead forged brass
<b>Stem</b>	Low-lead brass
<b>Handle</b>	Aluminum, coated
<b>Handle Screw</b>	Steel, zinc plated
<b>Flat Seal</b>	Rubber
<b>Coupling Nut</b>	Forged brass
<b>Drain Cap</b>	Forged brass
<b>Cap Gasket</b>	Rubber
<b>Seat</b>	PTFE
<b>Ball</b>	Low-lead brass, chrome plated

**Listings and Certifications:**

- CSA verified to WOG 600 rating
- IAPMO listed to NSF/ANSI 61 (file #N-5427) and IGC 157
- No-lead product CSA listed to Low-lead Content Certification Program Plumbing Products Class 6853-01, including NSF/ANSI 372



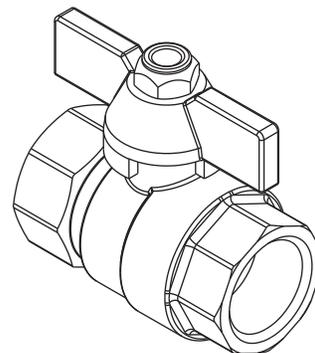
## FULL-PORT GAS BALL VALVE

**Use:** For use with natural, manufactured, mixed, liquefied petroleum (LP) gas, and LP gas-air mixtures.

The National Fuel Gas Code requires a gas shut-off valve installed upstream, within "easy reach" or 6 feet of the gas appliance

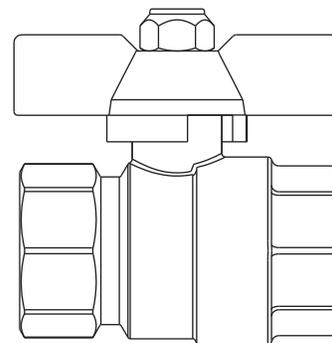
### Design Features:

- **Heavy duty forged brass body helps reduce** pinhole leaks commonly associated with cast products
- **Blow-out resistant stem** is assembled from the inside with double o-rings to provide reliable performance
- **Right-sized handle** helps ensure easy on/off operation even in tight installations
- **Quarter turn operation** for easy on/off flow control
- **Full flow operation.** Full port design provides abundant water flow without obstruction
- **Approved for indoor/outdoor use**



### Operating Specifications:

**Temperature:** -40° - 125° F  
**Pressure:** 5 PSI maximum



### MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS	
<b>Valve Body</b>	Forged brass
<b>Retainer</b>	Forged brass
<b>Ball</b>	Brass, chrome plated
<b>Seat</b>	PTFE
<b>Stem</b>	Brass
<b>O-ring</b>	High-temperature rubber
<b>Washer</b>	PTFE
<b>Handle</b>	Aluminum, coated
<b>Nut</b>	Steel, zinc plated

### Listings and Certifications:

- CSA listed to ANSI Z21.15 / CSA 9.1, ANSI / ASME B16.44 and CGA CR91-002



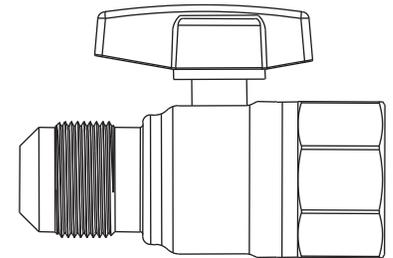
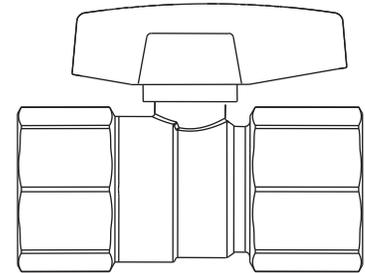
## GAS BALL VALVES

**Use:** For use with natural, manufactured, mixed, liquefied petroleum (LP) gas, and LP gas-air mixtures.

*The National Fuel Gas Code requires a gas shut-off valve installed upstream, within “easy reach” or 6 feet of the gas appliance*

**Design Features:**

- **Heavy duty forged brass body** helps reduce pinhole leaks commonly associated with cast products
- **Blow-out resistant stem** is assembled from the inside with double o-rings for reliable performance
- **Right-sized handle** helps ensure easy on/off operation even in tight installations
- **Quarter turn operation** for easy on/off flow control
- **PTFE seat** for longer life and consistent performance
- **Approved for indoor/outdoor use**
- **100% leak tested**



**Operating Specifications:**

**Temperature:** -40° - 125° F\*

**Pressure:** 5 PSI maximum

\* TBV6F-8, TBV10-12, and TBVA10-12 are rated for 32°-125° F

<b>MATERIAL SPECIFICATIONS</b>	
<b>Valve Body</b>	<i>Forged brass</i>
<b>Retainer</b>	<i>Forged brass</i>
<b>Ball</b>	<i>Brass, plated</i>
<b>Seat</b>	<i>PTFE</i>
<b>Stem</b>	<i>Brass</i>
<b>O-ring</b>	<i>High-temperature rubber</i>
<b>Handle</b>	<i>Aluminum, coated</i>
<b>Screw</b>	<i>Steel, plated</i>

**Listings and Certifications:**

- CSA listed to ANSI Z21.15 / CSA 9.1, ANSI / ASME B16.44 and CGA CR91-002



## GAS FITTINGS

**Use:** For use with natural, manufactured, mixed, liquefied petroleum gases, and LP gas-air mixtures.

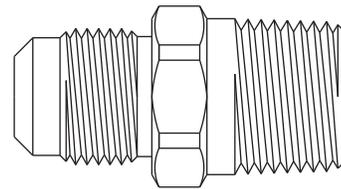
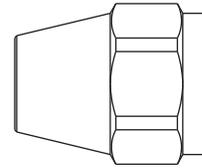
**Design Features:**

- **One-piece body** provides strength, durability, and long-lasting performance
- **Manufactured with dryseal pipe threads**

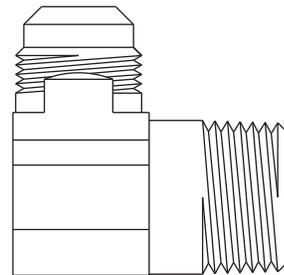
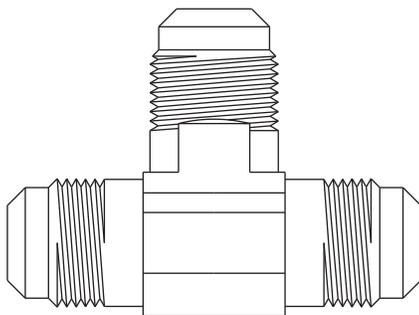
**Operating Specifications:**

**Temperature:** -40° - 150° F

**Pressure:** 1/2 PSI maximum

**FITTING MATERIAL SPECIFICATIONS**

<b>Brass Fitting</b>	<i>Brass</i>
<b>Steel Fitting</b>	<i>Plated steel</i>

**Listings & Certifications:**

- For use with CSA listed ANSI Z21.24 / CSA 6.10 connectors
- For use with CSA listed ANSI Z21.75 / CSA 6.27 connectors

## COPPER WATER HEATER CONNECTORS

**Use:** For use only in exposed locations to connect water heaters and other water connected devices to the water supply.

**Design Features:**

- **Built-in galvanic corrosion resistance.** Internal dielectric sleeve effectively isolates dissimilar metals within the waterway to prevent galvanic corrosion
- **No dielectric union needed** with installation. Dielectric is built into the design of the connector\*
- **Nut provides** full thread engagement resulting in secure connection

**Operating Specifications:**

**Temperature:** 40° - 180° F  
**Pressure:** 125 PSI maximum

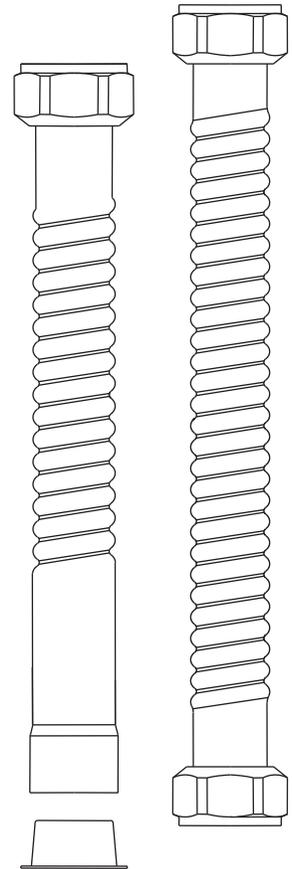
MATERIAL SPECIFICATIONS	
<b>Tubing</b>	Copper
<b>Dielectric Sleeve</b>	Polypropylene
<b>Nut</b>	Brass
<b>End Fitting</b>	Brass
<b>Washer</b>	Rubber

**Listings & Certifications:**

- IAPMO listed to ASME A112.18.6 / CSA B125.6



\*Check with your local inspection office for applicable code requirements



**PROCOAT® STAINLESS STEEL WATER HEATER CONNECTORS**

**Use:** For use only in exposed locations to connect water heaters, water softeners, and other water connected devices to the water supply.

**Design Features:**

- **Corrosion resistant** coating to protect against harsh chemicals found in most common household cleaning, plumbing repair, and masonry products
- **Maximum performance.** ¾" internal diameter provides greater water flow without obstruction
- **Integrated dielectric sleeve** effectively isolates dissimilar metals within the waterway to help prevent galvanic and electrolytic corrosion
- **No dielectric union needed** with installation. Dielectric is built into the design of the connector\*
- **Nut provides** full thread engagement resulting in a secure connection
- **100% leak tested** prior to coating application to help ensure connector performance and reliability

**Operating Specifications:**

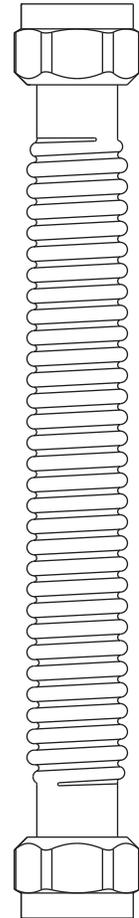
**Temperature:** 40° - 180° F

**Pressure:** 125 PSI maximum

<b>MATERIAL SPECIFICATIONS</b>	
<b>Tubing</b>	<i>Stainless steel</i>
<b>Dielectric Sleeve</b>	<i>Polypropylene</i>
<b>Nut</b>	<i>Brass, chrome plated</i>
<b>Washer</b>	<i>Rubber</i>

**Listings & Certifications:**

- IAPMO listed to ASME A112.18.6 / CSA B125.6



\*Check with your local inspection office for applicable code requirements

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
40-6	27	CSSB1412-18	19	CSSC14-60	15
40-8	27	CSSB1412-24	19	CSSC14-60 P	15
41S-6	27	CSSB1412-36	19	CSSC14-72	15
41S-8	27	CSSB21-12	17	CSSC14R-48 X5	8
ASN-10	29	CSSB21-18	17	CSSC15-24	14
AU1-14-12	27	CSSB21-24	17	CSSC15-36	14
AU1-14-12S	28	CSSB21-24 P	17	CSSC15-48	14
AU1-14-16S	28	CSSB21-24 X	17	CSSC1J-12	14
AU1-6-8S	27	CSSB21-30	17	CSSC1J-18	14
AU1-6S	27	CSSB21-36	17	CSSC1J-24	14
AU1-8S	27	CSSB21-36 P	17	CSSC1J-30	14
AU2-14-12	28	CSSB21-36 X	18	CSSC1J-36	14
AU2-14-12S	28	CSSB21-48	18	CSSC1J-48	14
AU2-14-16	28	CSSB21-60	18	CSSC1J-60	14
AU2-14-16S	28	CSSB21-72	18	CSSC1P-24	14
AU2-6-8	28	CSSB22-12	17	CSSC1P-36	14
AU2-6-8S	28	CSSB22-18	17	CSSC1P-48	14
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AU7-10-8 P	27	CSSC11-12	15	CSSC21-30	13
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BCSSD77-24	20	CSSC11-72	15	CSSC21-72 P	13
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BCSSL54-24	20	CSSC12R-48 P	8	CSSC22-24	12
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CSSB11-48	19	CSSC14-36	15	CSSC22-60 P	12
CSSB11-60	19	CSSC14-36 P	15	CSSC22-72	12
CSSB1212-24	19	CSSC14-48	15	CSSC22-72 P	12
CSSB1412-12	19	CSSC14-48 P	15	CSSC22R-24 P	8

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CSSC22R-36 P	8	CSSC44R-48 XL	8	CSSC55-72	13
CSSC22R-36 X5	8	CSSC44R-60 P	8	CSSC64TE-36 X	11
CSSC22R-48 P	8	CSSC45R-18 X	8	CSSC64TE-48 X5	11
CSSC22R-60 P	8	CSSC45R-24 P	8	CSSC64TE-60 X5	11
CSSC22TE-36 X5	11	CSSC45R-36 P	8	CSSC65TE-48 X5	11
CSSC23-36	12	CSSC45R-36 X	8	CSSC91R-36 P	8
CSSC23-48	12	CSSC45R-48 P	8	CSSC91R-48 P	8
CSSC24-18	13	CSSC45R-60 P	8	CSSC94R-48 X	8
CSSC24-24	13	CSSC4J-18	14	CSSD104R-24 X	9
CSSC24-30	13	CSSC4J-24	14	CSSD104R-48 X	9
CSSC24-36	13	CSSC4J-36	14	CSSD104R-72 X	9
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CSSC44R-36 X	8	CSSC55-48	13	CSSD45R-48 P	9
CSSC44R-48 P	8	CSSC55-60	13	CSSD45R-60 P	9

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CSSD45R-72 P	9	CSSD77-48	19	CSSL4M-72	17
CSSD48-12	18	CSSL114R-36 X	8	CSSL54-12	16
CSSD48-24	18	CSSL114R-48 X	8	CSSL54-12 P	16
CSSD48-36	18	CSSL114TE-24 X10	11	CSSL54-18	16
CSSD48-48	18	CSSL114TE-36 X	11	CSSL54-18 P	16
CSSD4K-12	18	CSSL114TE-48 X	11	CSSL54-24	16
CSSD4K-18	18	CSSL115R-24 P	8	CSSL54-24 P	16
CSSD4K-24	18	CSSL115R-36 P	8	CSSL54-30	16
CSSD4K-30	18	CSSL117TE-24 X5	11	CSSL54-36	16
CSSD4K-36	18	CSSL117TE-36 X5	11	CSSL54-36 P	16
CSSD4K-48	18	CSSL44-12	17	CSSL54-48	16
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CSSD54-24	18	CSSL44-60	17	CSSL55-30	16
CSSD54-24 P	18	CSSL44-72	17	CSSL55-36	16
CSSD54-30	18	CSSL44R-24 P	9	CSSL55-48	16
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