

GAS APPLIANCE CONNECTORS

CONNECTOR MINIMUM FLOW CAPACITY CHARTS

PER ANSI Z21.24 / CSA 6.10 & ANSI Z21.75 / CSA 6.27*

NATURAL GAS
ENGLISH

NOTE: 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 W/ FITTING OR BALL VALVE

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

0.64 Sp Gr, 1000 BTU per Cu. Ft. (37.2 MJ/m³) gas at 0.5 inch water column (124Pa) pressure drop. Per ANSI Z21.24 / CSA 6.10 and ANSI Z21.75 / CSA 6.27 for use with pressures not to exceed 1/2 PSI.

CONNECTOR W/ APPLIANCE EXCESS FLOW VALVE

Connector Series	Nom. O.D.	Nom. I.D.	STRAIGHT LENGTH CAPACITY (BTU PER HOUR) - FOR NATURAL GAS							
			12"	18"	24"	30"	36"	48"	60"	72"
CSSL / CSST	3/8"	1/4"	42,000 ♦	37,400 ♦	36,800 ♦	36,400 ♦	33,400 ♦	28,300 ♦	24,900 ♦	23,100 ♦
CSSD	1/2"	3/8"	102,000 ✕	93,100 ✕	85,000 ✕	77,100 ✕	71,100 ✕	60,500 ✕	53,200 ✕	49,100 ✕
CSSC	5/8"	1/2"	122,000 ✓	118,000 ✓	115,000 ✓	111,000 ✓	105,000 ✓	106,000 ✓	93,200 ✓	86,000 ✓
CSSB	7/8"	3/4"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0.64 Sp Gr, 1000 BTU per Cu. Ft. (37.2 MJ/m³) gas at 0.5 inch water column (124Pa) pressure drop. Per ANSI Z21.24 / CSA 6.10 and ANSI Z21.75 / CSA 6.27 for use with pressures not to exceed 1/2 PSI.

♦ - Sold with Series 1540 Excess Flow Valve.

✕ - Sold with Series 1550 Excess Flow Valve.

✓ - Sold with Series 1560 Excess Flow Valve.

* The flow capacities in the above charts are the minimum performance criterion established in ANSI Z21.24 • CSA 6.10 and ANSI Z21.75 • CSA 6.27. The flow capacity of BrassCraft connectors, regardless of end fitting or gas ball valve assembly, exceeds these minimum flow requirements.

GAS APPLIANCE CONNECTORS

CONNECTOR MINIMUM FLOW CAPACITY CHARTS

PER ANSI Z21.24 / CSA 6.10 AND ANSI Z21.75 /CSA 6.27*

LP GAS (PROPANE)
ENGLISH

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

CONNECTORS W/ FITTINGS & GAS BALL VALVE

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

1.55 Sp Gr., 2500 BTU per Cu. Ft. gas at 0.5 inch water column (124 Pa) pressure drop. Per ANSI Z21.24 / CSA 6.10 and ANSI Z21.75 /CSA 6.27 for use with pressures not to exceed 1/2 PSI.

CONNECTORS W/ APPLIANCE EXCESS FLOW VALVE

Connector Series	Nom. O.D.	Nom. I.D.	STRAIGHT LENGTH CAPACITY (BTU PER HOUR) - FOR PROPANE GAS							
			12"	18"	24"	36"	48"	60"	72"	
CSSL	3/8"	1/4"	67,200 ♦	59,840 ♦	58,880 ♦	53,440 ♦	45,280 ♦	39,840 ♦	36,960 ♦	
CSSD	1/2"	3/8"	163,200 ✕	148,960 ✕	136,000 ✕	113,760 ✕	96,800 ✕	85,120 ✕	78,560 ✕	
CSSC	5/8"	1/2"	195,360 ✓	188,800 ✓	177,600 ✓	168,000 ✓	169,600 ✓	149,120 ✓	137,600 ✓	
CSSB	7/8"	3/4"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

1.55 Sp Gr., 2500 BTU per Cu. Ft. gas at 0.5 inch water column (124 Pa) pressure drop. Per ANSI Z21.24 / CSA 6.10 and ANSI Z21.75 /CSA 6.27 for use with pressures not to exceed 1/2 PSI.

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GAS APPLIANCE CONNECTORS

CONNECTOR MINIMUM FLOW CAPACITY CHARTS

PER ANSI Z21.24 / CSA 6.10 & ANSI Z21.75 / CSA 6.27*

**NATURAL GAS
METRIC**

NOTE: 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 W/ FITTING OR BALL VALVE

Connector Series	Nom. O.D.	Nom. I.D.	STRAIGHT LENGTH CAPACITY (WATTS PER HOUR) - FOR NATURAL GAS							
			0.30m (12")	0.46m (18")	0.61m 24"	0.76m (30")	0.91m (36")	1.22m (48")	1.52m (60")	1.83m (72")
CSSL / CSST	3/8"	1/4"	14,067	12,837	11,723	10,668	9,789	8,294	7,297	6,770
CSSD	1/2"	3/8"	29,893	27,285	24,911	22,596	20,837	17,731	15,591	14,390
CSSC	5/8"	1/2"	52,752	48,122	43,961	39,858	36,634	31,066	27,314	25,380
CSSB	7/8"	3/4"	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/m³) gas at 0.5 inch water column (124Pa) pressure drop. Per ANSI Z21.24 / CSA 6.10 and ANSI Z21.75 / CSA 6.27 for use with pressures not to exceed 1/2 PSI.

CONNECTOR W/ APPLIANCE EXCESS FLOW VALVE

Connector Series	Nom. O.D.	Nom. I.D.	STRAIGHT LENGTH CAPACITY (WATTS PER HOUR) - FOR NATURAL GAS							
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CSSL	3/8"	1/4"	14,067 ♦	12,837 ♦	11,723 ♦	10,668 ♦	9,789 ♦	8,294 ♦	7,297 ♦	6,770 ♦
CSSD	1/2"	3/8"	29,893 ✘	27,285 ✘	24,911 ✘	22,596 ✘	20,837 ✘	17,731 ✘	15,591 ✘	14,390 ✘
CSSC	5/8"	1/2"	43,921 ✓	41,872 ✓	40,407 ✓	37,479 ✓	36,634 ✓	31,066 ✓	27,314 ✓	25,380 ✓
CSSB	7/8"	3/4"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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