



**SUBMITTAL**  
**DIVISION: 22**  
**NO.: 221116-04**

**Title:** Domestic Water Piping - 2in and Smaller Ball Valves and Check Valves

**PRIORITY:** High

**Division:** 22

**No.:** 221116-04

**Contract No.:** E6L38

**LEAD Project No.:** 18-04

**DESIGN TEAM REVIEW**

Rev. Description	Received	From	Sent	To	Returned	Forwarded	Status	Days Held
A Domestic Water Piping - 2in and Smaller Ball Valves and Check Valves	02-Jan-20	KL	06-Jan-20	APCTE			OUT FOR REVIEW	

**FDOT REVIEW**

Rev. Description	Received	From	Sent	To	Returned	Forwarded	Status	Days Held



Review is for general conformance with the Contract Documents. Comments shall not be construed as relieving the supplier/subcontractor from strict compliance with such documents. The supplier/subcontractor remain responsible for details and accuracy, for complying with standards of the industry regarding fabrication, assembly, erection, and installation procedures.

REVIEWED  
 REVIEWED AS NOTED

REVISED & RESUBMIT  
 REJECTED

By Joanna Flores

Date: 01/06/2020

Walker

Project Submittal Number: \_\_\_\_\_

- No Exception Taken       Make Corrections Noted  
Resubmittal not Required  
 Rejected       Revise and Resubmit  
 Submittal Not Required  
No Review Performed

Drawings have been reviewed for design intent and general compliance with the information given in the contract documents. Deviations from contract documents shall be clearly identified and are not reviewed nor accepted unless identified. Contractor is responsible for dimensions, quantities, fabrication, processes, and techniques of construction, coordination of its work with that of all other trades and satisfactory performance of its work.

Date: 01/12/2020 By: JStirling

**KL RECEIVED 1/13/2020**



KAUFMAN LYNN  
CONSTRUCTION  
100% EMPLOYEE OWNED

# Submittal #151.0

## 22 1116G (PGTH) - DOMESTIC WATER PIPING (WALKER)

Kaufman Lynn Construction, Inc.  
3185 S. Congress Avenue  
Delray Beach, Florida 33445  
Phone: 561-361-6700  
Fax: 561-361-6979

Project: 1074 - Golden Glades Multimodal Transportation Facility  
SW Quadrant of the Golden Glades Interchange Miami-Dade  
Florida

### Domestic Water Piping - 2" & Smaller Ball Valves and Check Valves Product Data

SPEC SECTION:	22 1116G (PGTH) - DOMESTIC WATER PIPING (WALKER)	SUBMITTAL MANAGER:	Tom Reeder (Kaufman Lynn Construction, Inc.)
STATUS:	Open	DATE CREATED:	01/2/2020
ISSUE DATE:	01/2/2020	REVISION:	0
RESPONSIBLE CONTRACTOR:	Integ Miami LLC	RECEIVED FROM:	Daniela Salas
RECEIVED DATE:	12/13/2019	SUBMIT BY:	12/27/2019
FINAL DUE DATE:	01/10/2020	LOCATION:	
SUB JOB:		COST CODE:	
		TYPE:	Product Data

APPROVERS: Mario Rojas (A & P Consulting Transportation Engineers Corp.)

BALL IN COURT:

Joanna Flores (Lead Engineering Contractors)

DISTRIBUTION:

Carlos Teijeiro (Kaufman Lynn Construction, Inc.) , Tom Reeder (Kaufman Lynn Construction, Inc.) , Leonor Flores (Kaufman Lynn Construction, Inc.) , Joanna Flores (Lead Engineering Contractors)

DESCRIPTION:

ATTACHMENTS:

[#22 1116G-4 Domestic Water Piping - D2 inch & Smaller Check Valve Product Data - Submitted.pdf](#) [#22 1116G-4 Domestic Water Piping - NPS 2 inch & Smaller Ball Valve Product Data - Submitted.pdf](#)

#### SUBMITTAL WORKFLOW

NAME	SUBMITTER/ APPROVER	SENT DATE	DU DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
Joanna Flores	Submitter		1/3/2020		Pending		
Mario Rojas	Approver		1/10/2020		Pending		

BY

DATE

COPIES TO

**Submittal # #46**

FO-INTEG-PROJECT-PO0001-REV.03 Gestión de Control de Calidad / Quality Management

**Information**

Status: In Review

## Task/tareas condition

## Legend

Overdue   
 Issue   
 On Time   
 Delayed Start   
 Inactive

Project (CDC) - Empresa/  
COMPANY: Integ Miami LLCProject (CDC) - CDC ( Centro  
de Costo ) I-PLUMBING-GGMTF-021919Project (CDC) - Customer  
Name Kaufman Lynn Construction

Project (CDC) - Ubicacion 15890 Northwest 7th Avenue, Miami, Florida 33169

**Submittal**

Title: Check Valves

Spec SECTION 22 1005  
Section: SECTION 22 1116Description: Check Valves D2" and smaller:  
Pipe NPS 2 and Smaller: Bronze swing check valves, Class 150, bronze disc with soldered or threaded end connections.Submittal Product Data  
Type :Submitted 13-12-2019  
On:Responsible Integ Miami LLC  
Contractor:Submittal Daniela Salas  
Manager:

Issue Date: 13-12-2019 12:00 AM      Final Due Date: 27-12-2019

Lead Time: 10

Ball in Kaufman Lynn  
Court:**Attachment**

Attachment:

Linked Drawings:

Notes:

**Stamp Info**

Stamp Date: 12-12-2019

Other Name:

 Show Stamp on PDF:**KAUFMAN LYNN CONSTRUCTION - SUBMITTAL**

Project No. 1074 Submittal No. #22 1116G-4

Reviewed \_\_\_\_\_ Make Corrections Noted \_\_\_\_\_

Submit Specified Item

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Subcontractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques sequences of construction, coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 01/02/2020 BY: T. REEDER

## Submittal logs

Add Submittal LOG

Revision #	Date Submittal REV	Attachment Document:	Comments:
No submittal logs found			

## Submittal Approval

Approval

Name/Title:

Signature \_\_\_\_\_

This submittal has an approval time of 15 days. After this period of time elapses and no response has been provided from the Engineer/GC, Integ reserves the right to assume that the submittal has been approved.

Created on Oct. 14 at 7:53 AM (PDT). Last updated by [pma@integca.com](mailto:pma@integca.com), [PMA](#) today at 7:45 AM (PST). Owned by [pma@integca.com](mailto:pma@integca.com), [PMA](#).

### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-4

Reviewed  Make Corrections Noted

[Submit Specified Item](#)

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Subcontractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques sequences of construction, coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 01/02/2020 BY: T. REEDER

# Class 125 Bronze Check Valves

Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc

**125 PSI/8.6 Bar Saturated Steam to 353°F/178°C**

**200 PSI/13.8 Bar Non-Shock Cold Working Pressure**

CONFORMS TO MSS SP-80

## MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 62
2. Body	Bronze ASTM B 62
3. Hinge Pin	Bronze ASTM B140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 62 or MPIF SS-316NI-25
5. Hanger Nut	Bronze ASTM B 16
6. Disc Holder	Bronze ASTM B 62
7. Seat Disc	Water, Oil or Gas (Buna-N) (W) Steam (PTFE) (Y) Bronze ASTM (B) FKM (V) B 62 C83600
8. Seat Disc Nut	Bronze ASTM B 16 or B 62
9. Hinge Pin Plug	Bronze ASTM B140 Alloy C31400 (not shown)
10. Seat Disc Washer*	ASTM B 98 Alloy C65500 or ASTM B 103

\*Sizes  $\frac{3}{4}$ ", 1",  $1\frac{1}{4}$ ",  $1\frac{1}{2}$ " and 2" only.

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions													
	In.	mm.	A	In.	mm.	B	In.	mm.	C	In.	mm.	T-413	S-413	Master Ctn. Qty.
$\frac{1}{4}$	8	2.13	54	1.63	41	1.38	35	0.50	0.23	0.51	0.23	50		
$\frac{3}{8}$	10	2.13	54	1.63	41	1.31	33	0.47	0.22	0.48	0.22	50		
$\frac{1}{2}$	15	2.44	62	1.69	43	1.50	38	0.55	0.25	0.55	0.25	50		
$\frac{3}{4}$	20	2.94	75	1.88	48	1.88	48	0.90	0.41	0.88	0.40	10		
1	25	3.56	90	2.31	59	2.25	57	1.46	0.66	1.48	0.67	5		
$1\frac{1}{4}$	32	4.19	106	2.69	68	2.75	70	2.17	0.99	2.22	1.01	20		
$1\frac{1}{2}$	40	4.50	114	2.94	75	3.11	79	2.95	1.34	3.00	1.36	10		
<b>2</b>	50	5.25	133	3.94	100	3.75	95	4.79	2.17	4.87	2.21	10		
$2\frac{1}{2}^*$	65	8.00	203	5.06	129	5.06	129	11.48	5.21	10.48	4.76	5		
3*	80	9.25	235	6.25	159	6.25	159	17.53	7.96	15.29	6.94	4		

Ordering: T-413 and S-413 normally furnished with Bronze Disc (T-413-B) or (S-413-B).

Both available with PTFE Steam Disc (T-413-Y), (S-413-Y), or CWP Disc (T-413-W), (S-413-W) or 300°F 67 PSI steam FKM Disc (T-413-V).

\*Class 150 (433) furnished for these sizes.

Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

Note: On pump discharge, the preferred check valves are: inline, spring assisted, center-guided, lift checks.

NIBCO® Check Valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

Warning – Do Not Use For Reciprocating Air Compressor Service.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

**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](http://www.P65Warnings.ca.gov).



## ALTERNATIVE 1



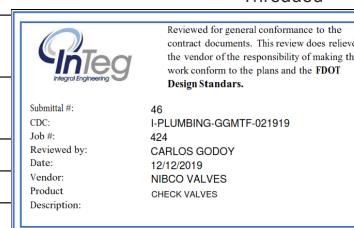
**T-413**

Threaded



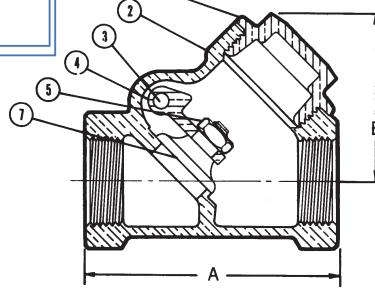
**S-413**

Solder



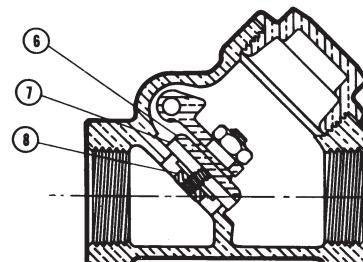
Reviewed for general conformance to the contract documents. This review does relieve the vendor of the responsibility of making the work conform to the plans and the FDOT Design Standards.

Submitted #: 46  
CDC: I-PLUMBING-GGMTF-021919  
Job #: 424  
Reviewed by: CARLOS GODOY  
Date: 12/12/2019  
Vendor: NIBCO VALVES  
Product: CHECK VALVES  
Description:



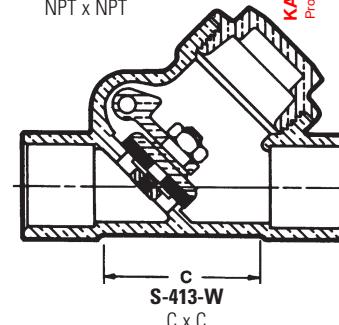
**T-413-B**

NPT x NPT



**T-413-Y**

NPT x NPT



**S-413-W**

C x C

**KAUFMAN LYNN CONSTRUCTION - SUBMITTAL**  
Project No. 1074 Submittal No. #22-1116G-4  
Reviewed Make Corrections Noted

Submit Specified Item

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action taken is subject to the review and approval of the engineer in charge of the project. It is the responsibility of the contractor to furnish all information concerning the fabrication process and techniques required to construct the job site. The contractor is responsible for construction coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 01/02/2020 BY: T. REEDER

# Bronze Y-pattern Swing Check Valve



Threaded Connection • 300 WOG • Class 150

ALTERNATIVE 2



**T-511**

## Features

- Constructed of 85-5-5-5 bronze
- Can be installed in the vertical or horizontal position

### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-4

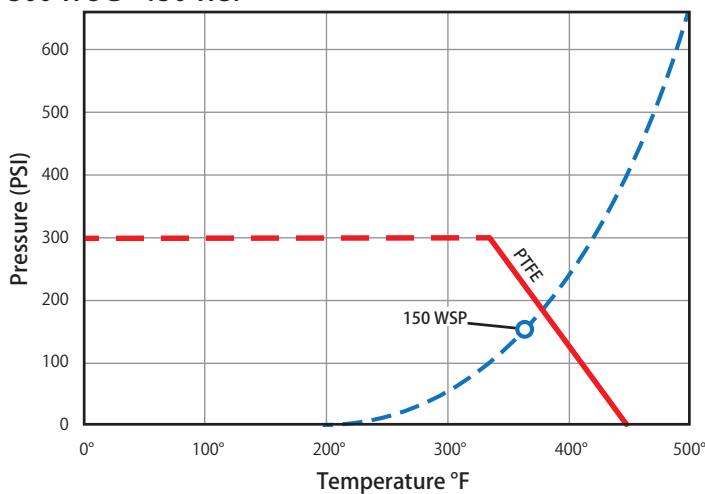
Reviewed \_\_\_\_\_ Make Corrections Noted

Submit Specified Item

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DATE: 01/02/2020 BY: T. REEDER

## Valve Seat Rating 300 WOG - 150 WSP

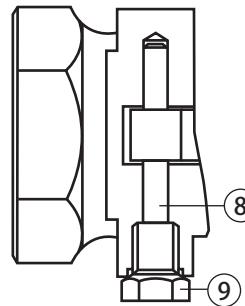
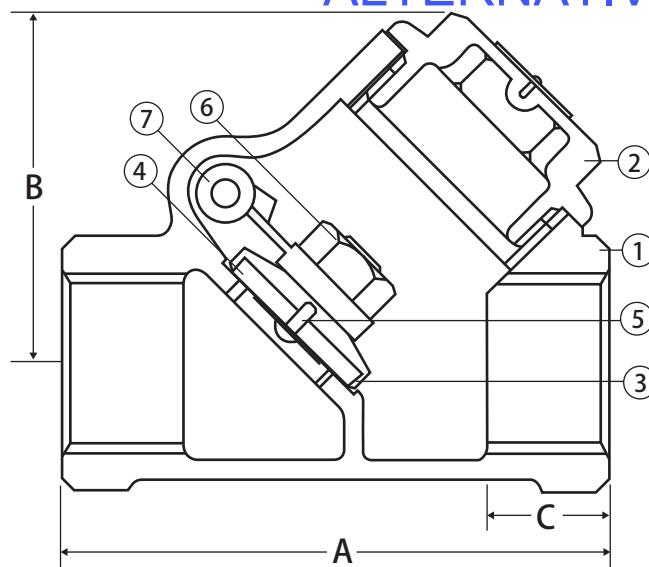


Install 5 pipe diameter minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

Note: On pump discharge, the preferred check valves are: inline, spring assisted, center-guided, lift checks.

Jomar Check Valves may be installed in both horizontal and vertical lines with upward flow or in an intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

**Warning: Do Not Use For Reciprocating Air Compressor Service**



<b>InTeg</b> Integral Engineering	
Reviewed for general conformance to the contract documents. This review does relieve the vendor of the responsibility of making the work conform to the plans and the FDOT Design Standards.	
Submittal #:	46
CDC:	I-PLUMBING-GGMFT-021919
Job #:	424
Reviewed by:	CARLOS GODOY
Date:	12/12/2019
Vendor:	JOMAR VALVES
Product:	CHECK VALVES
Description:	

## Material Specifications

No.	Part	Materials
1	Body	Bronze
2	Cap	Bronze
3	Disc	Bronze
4	Seat	PTFE
5	Seat Screw	Brass
6	Seat Nut	Brass
7	Hinge Arm	Bronze
8	Hinge Pin	Brass
9	Hinge Screw	Brass

## Dimensions

Part No.	Size	A	B	C
105-303	1/2"	2.36	1.77	0.54
105-304	3/4"	2.76	1.97	0.57
105-305	1"	3.40	2.28	0.70
105-306	1-1/4"	3.78	2.67	0.71
105-307	1-1/2"	4.57	2.95	0.75
105-308	2"	5.35	3.70	0.79
105-309	2-1/2"	6.72	4.65	1.14
105-310	3"	7.55	5.47	1.18



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Submittal # #45****KL SUBMITTAL #22 1116G-4**

FO-INTEG-PROJECT-PO0001-REV.03 Gestión de Control de Calidad / Quality Management

**Information****Status:** In Review**Task/tareas condition****Legend**

Overdue   
 Issue   
 On Time   
 Delayed Start   
 Inactive

**Project (CDC) - Empresa/ COMPANY:** Integ Miami LLC**Project (CDC) - CDC ( Centro de Costo )** I-PLUMBING-GGMTF-021919**Project (CDC) - Customer Name** Kaufman Lynn Construction**Project (CDC) - Ubicacion** 15890 Northwest 7th Avenue, Miami, Florida 33169**Submittal****Title:** Ball Valves D2" and smaller**Spec Section:** SECTION 22 1005  
SECTION 22 1116**Description:** Ball Valves Pipe NPS 2 and Smaller:  
1) One piece, brass ball valve.  
2) One piece, bronze ball valve with bronze trim.  
3) Two-piece, brass ball valves with full port and stainless-steel trim.**Submittal Type :** Product Data**Submitted On:** 13-12-2019**Responsible Contractor:** Integ Miami LLC**Submittal Manager:** Daniela Salas**Issue Date:** 13-12-2019 12:00 AM**Final Due Date:** 27-12-2019**Lead Time:** 10**Ball in Court:** Kaufman Lynn**Attachment****Attachment:****Linked Drawings:****Notes:****Stamp Info****Stamp Date:** 12-12-2019**Other Name:** **Show Stamp on PDF:****KAUFMAN LYNN CONSTRUCTION - SUBMITTAL**Project No. 1074 Submittal No. #22 1116G-4 Reviewed  Make Corrections Noted Submit Specified Item

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Subcontractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques sequences of construction, coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 01/02/2020 BY: T. REEDER



## Submittal logs

Add Submittal LOG

Revision #	Date Submittal REV	Attachment Document:	Comments:
No submittal logs found			

## Submittal Approval

Approval

Name/Title:

Signature \_\_\_\_\_

This submittal has an approval time of 15 days. After this period of time elapses and no response has been provided from the Engineer/GC, Integ reserves the right to assume that the submittal has been approved.

Created on Oct. 14 at 7:49 AM (PDT). Last updated by [pma@integca.com](mailto:pma@integca.com), [PMA](#) today at 7:50 AM (PST). Owned by [pma@integca.com](mailto:pma@integca.com), [PMA](#).

### KAUFMAN LYNN CONSTRUCTION - SUBMITTAL

Project No. 1074 Submittal No. #22 1116G-4

Reviewed  Make Corrections Noted

Submit Specified Item

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Subcontractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques sequences of construction, coordination of his/her work with that of all trades, and the satisfactory performance of his/her work.

DATE: 01/02/2020 BY: T. REEDER

# Lead Free Brass Ball Valve

2 Piece • Full Port • Threaded Connection • 600 WOG •

**Stainless Steel Ball and Stem**



Reviewed for general conformance to the contract documents. This review does relieve the vendor of the responsibility of making the work conform to the plans and the FDOT Design Standards.

Submittal #: 45

CDC: I-PLUMBING-GGMFT-021919

Job #: 424

Reviewed by: CARLOS GODOY

Date: 12/12/2019

Vendor: JOMAR VALVES

Product: BALL VALVES

Description:



JF-100TG

CRN# 0C16654.5

## Features

- Dezincification resistant brass
- Gland follower and single o-ring stem design
- Blow-out proof stem
- Stainless steel ball and stem
- 100% leak tested
- Wetted surfaces contain less than .25% lead content

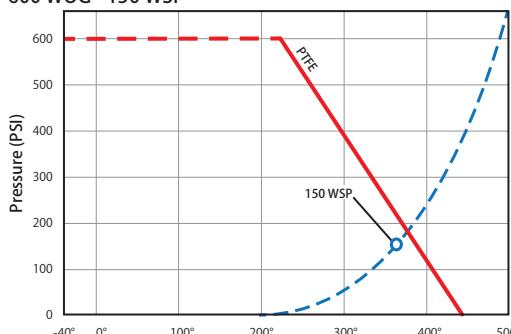
## Approvals



- UL Listed up to 175 PSI (1/4" - 2")
  - MHKZ - Manual valves
  - YRPV - Gas shut-off valves
- IAPMO Certified
  - NSF 61-8
  - NSF 372
  - Uniform Plumbing Code (cUPC)
    - IAPMO/ANSI Z1157-2014
    - NSF/ANSI 14-2014
- CSA Certified
  - CGA 3.16 (125 PSIG) (1/4" - 2")
  - ANSI Z21.15 (.5 PSIG) (1/4" - 2")
  - CGA CR91 (5 PSIG) (1/4" - 2")
  - ASME B16.44 (5 PSIG) (1/4" - 2")
  - ASME B16.33 (125PSIG) (1/2" - 2")
- MSS SP-110
- ANSI B1.20.1
- RoHS Compliant

## Valve Seat Rating

600 WOG - 150 WSP



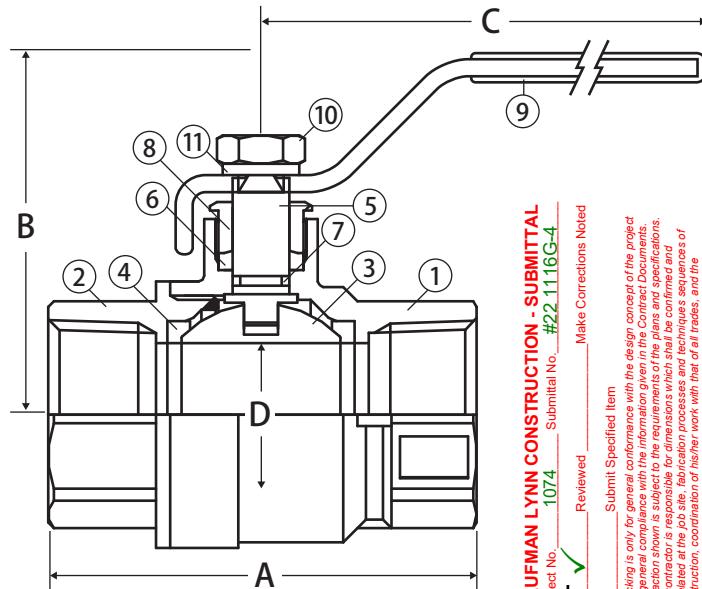
Note: Information subject to change without notice.

100918

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**jomar**  
VALVE®  
LEAD FREE

KL  
INTEG  
DOM WATER  
BALL VALVES  
Issue Date:  
12/13/19



## Material Specifications

No.	Part	Materials
1	Body	Lead Free Brass - C46500
2	End Connection	Lead Free Brass - C46500
3	Ball	304 Stainless Steel
4	Seat (2)	PTFE
5	Stem	304 Stainless Steel
6	Packing	PTFE
7	Stem O-ring	Buna-N
8	Packing Gland	Lead Free Brass - C46500
9	Handle	Steel - Chrome Plated
10	Handle Nut	Steel - Chrome Plated
11	Lock Washer	Steel - Chrome Plated

## Dimensions

Part No.	Size	A	B	C	D
100-101SSG	1/4"	1.73	1.69	3.35	0.39
100-102SSG	3/8"	1.73	1.69	3.35	0.39
100-103SSG	1/2"	2.28	1.81	3.35	0.59
100-104SSG	3/4"	2.51	2.36	4.29	0.75
100-105SSG	1"	2.97	2.52	4.29	0.98
100-106SSG	1-1/4"	3.45	2.52	5.63	1.26
100-107SSG	1-1/2"	3.87	2.72	5.63	1.57
100-108SSG	2"	4.29	3.03	5.63	1.97
100-109SSG	2-1/2"	5.59	4.25	7.76	2.52
100-110SSG	3"	6.34	4.92	8.37	2.95
100-111SSG	4"	7.83	5.85	9.25	3.90



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).