

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Date: 10/3/2023

Return Request: 10/13/2023

Project: Regions HNTB

Supplier: Comfort Systems USA (Arkansas), Inc.

Manufacturer: Various

Submittal: HVAC Piping

Submittal Number: 23 00 00-07

Drawing # and Installation: Mechanical Drawings

ARCHITECT

DLR Group
2525 McKinnon St. Suite 800
Dallas, TX 75067
214-747-2511

ENGINEER

Pettit & Pettit
201 East Markham, Suite 400
Little Rock, AR 72201
501-374-3731

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

CSUSA PROJECT NO.

23-2014

chowell@comfortar.com

Pipe Valve & Fitting Schedule - Regions HNTB				
System	Spec Section	Pipe	Fittings	Joint
Hydronic Water (Heating/Chilled Water) 2" & Below		Type L Hard Copper; ASTM B88	Wrought Copper; ASME B.16.22	Lead-Free Solder; ASTM B32
Hydronic Water (Heating/Chilled Water) 2 1/2" & Above		Schedule 40 Steel; ASTM A53	Schedule 40 Steel; ASME B16.3/ASTM A234	Welded/Threaded
Condensate Drain		Type L Hard Copper; ASTM B88	Wrought Copper; ASME B.16.22	Lead-Free Solder; ASTM B32

Lead-Free Bronze Ball Valves

Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem

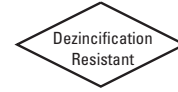
Approvals: MSS SP-110/145 • IAPMO/ANSI Z1157 • NSF/ANSI 61/372-8 Commercial Hot 180°F

Size range: ¼" - 3"

Pressure rating: 600 PSI non-shock cold working pressure

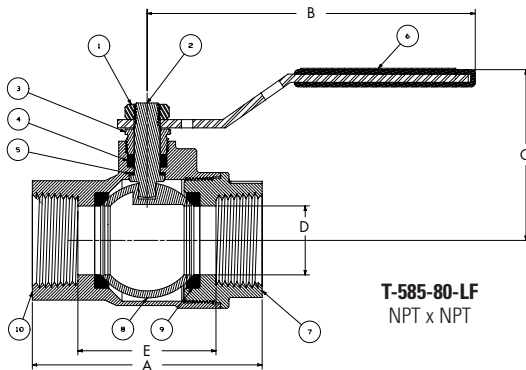
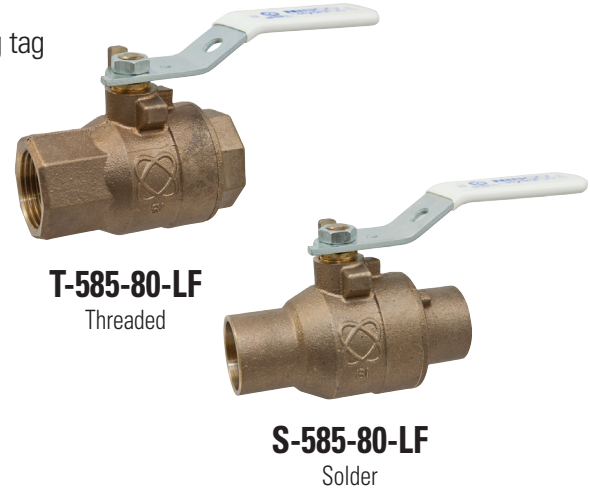
Maximum pressure / temperature: 100 PSI at 300° F

Lead-free markings: Double oval in body casting, white handle and blue hang tag

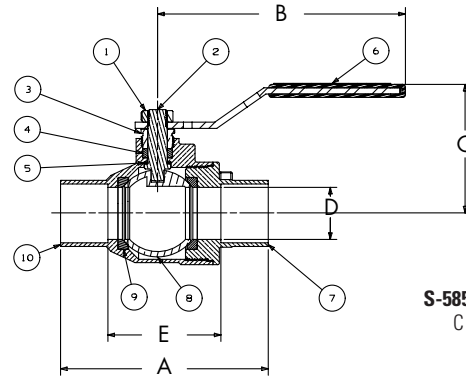


MATERIAL LIST

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Stem	Silicon Bronze ASTM B371 Alloy C69300
3. Pack Gland	Brass ASTM B16 Alloy C36000
4. Packing, Stem	Virgin PTFE
5. Washer, Thrust	Reinforced PTFE
6. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
7. End Piece	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring (2)	Reinforced PTFE
9. Ball	DZR Brass SAE J461 C46500 (¼"-1") Stainless Steel ASTM A276 S31600 or ASTM A351CF8M (1¼"-3")
10. Body	Silicon Bronze ASTM B584 Alloy C87600



T-585-80-LF
NPT x NPT

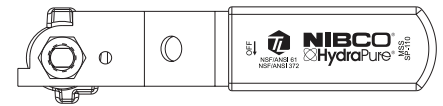


S-585-80-LF
C x C

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions

SIZE	T-585-80-LF		S-585-80-LF		T-585-80-LF		S-585-80-LF		T-585-80-LF		S-585-80-LF		T-585-80-LF		S-585-80-LF		Master Ctn. Qty.			
	A	A	B	C	D	E	E	E	E	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.					
¼	8	1.78	45	1.83	46	3.96	101	1.86	47	0.31	8	1.00	25	1.21	31	0.43	0.19	0.40	0.18	24
⅜	10	1.79	45	1.97	50	3.96	101	1.85	47	0.38	10	1.80	46	1.21	31	0.44	0.20	0.41	0.19	24
½	15	2.23	57	2.4	61	3.96	101	1.96	50	0.5	13	1.16	29	1.40	36	0.65	0.30	0.56	0.25	80
¾	20	2.78	71	3.16	80	4.76	121	2.28	58	0.75	19	1.68	43	1.66	42	1.20	0.55	1.02	0.46	60
1	25	3.34	85	3.99	101	4.76	121	2.48	63	1	25	2.00	51	2.17	55	1.63	0.74	1.50	0.68	40
1¼	32	3.75	95	4.13	105	6.75	171	3.10	79	1.25	32	2.39	61	2.19	56	2.87	1.30	2.41	1.09	20
1½	40	4.26	108	4.97	126	6.75	171	3.32	84	1.5	38	2.89	73	2.79	71	3.83	1.74	3.62	1.64	10
2	50	4.80	122	6.02	153	6.75	171	3.56	90	2	51	3.40	86	3.34	85	5.57	2.53	5.54	2.51	6
2½	65	6.00	152	7.21	183	8.06	205	4.40	112	2.50	64	4.12	105	4.27	108	13.70	6.21	12.80	5.80	2
3	76	6.5	165	8	202	8.06	205	4.65	118	2.95	75	4.46	113	4.62	117	14.30	6.49	12.50	5.67	2



Handle Markings

Handle Options:

- Stainless Steel Lever
- NIB-Seal®
- NIB-Seal® Locking Lever
- Locking Lever
- Stainless Steel Locking Lever
- Memory Stop
- Extended Lever w/ Memory Stop
- Round
- Wing
- Horizontal and Vertical Chain



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.

LEAD-FREE: Weighted average lead content ≤ 0.25%

200 PSI Butterfly Valves

Ductile Iron Body • Extended Neck • Geometric Drive • Molded-In Seat Liner
• Lug and Wafer Style

Sizes 2" through 12"

Install between Std. ASME Class 125/150 flanges.
Lug Style 200 PSI bi-directional dead end service rating without a downstream flange required.



THIRD PARTY CERTIFIED BY QAI TO MEET MSS SP-67 STANDARD •
U.S. COAST GUARD "CATEGORY A" • CERTIFIED LEAD-FREE* BY
TRUESDAIL LABS TO NSF/ANSI 61-8 COMMERCIAL HOT 180°F
AND NSF/ANSI 61 AND 372

MATERIAL LIST

PART	SPECIFICATION
1. Stem	Stainless Steel ASTM A582 Type 416
2. Collar Bushing	Brass ASTM B16
3. Stem Seal	EPDM Rubber
4. Body Seal	EPDM Rubber
5. Nameplate	Aluminum
6. Upper Bushing	Copper CDA 122
7. Liner	EPDM Rubber
8. Disc	Alum. Brz. ASTM B148 Alloy 955
9. Lower Bushing	Copper CDA 122
10. Body Wafer	Ductile Iron ASTM A536
11. Body Lug	Ductile Iron ASTM A536



WD-2000
Wafer Style
EPDM Liner
and Aluminum
Bronze Disc

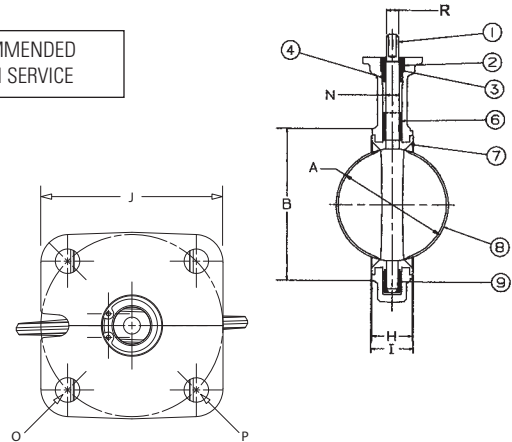


LD-2000
Lug Style
EPDM Liner
and Aluminum
Bronze Disc

NOT RECOMMENDED
FOR STEAM SERVICE

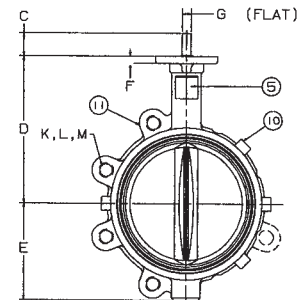
DIMENSIONS — WEIGHTS

Size												
In.	mm.	A	B	C	D	E	F	G	H	I	J	Dia. N
2	50	2.53	4.00	1.25	5.38	2.88	.38	.312	1.688	1.812	3.25	.500
2½	65	2.90	4.69	1.25	5.88	3.27	.38	.370	1.812	1.938	3.25	.562
3	80	3.15	5.12	1.25	6.12	3.40	.38	.370	1.812	1.938	3.25	.562
4	100	4.09	6.12	1.25	6.88	4.00	.38	.403	2.062	2.188	3.25	.625
5	125	5.13	7.25	1.25	7.38	4.75	.38	.496	2.188	2.312	3.25	.750
6	150	6.13	8.25	1.25	8.00	5.29	.38	.496	2.188	2.312	3.25	.750
8	200	8.13	10.41	1.25	9.25	6.50	.50	.560	2.375	2.500	3.25	.875
10	250	10.13	12.52	1.25	10.50	8.00	.50	.686	2.688	2.812	4.75	1.125
12	300	12.13	15.00	1.25	12.00	9.25	.50	.748	3.000	3.125	4.75	1.250



Size		Capscrew/Stud Data					Wafer		Lug		M		Lug Weight		Wafer Weight	
In.	mm.	O B.C.	P Dia.	R Dia.	K No.	L Dia.	Wafer Length	Lug Length	M B.C.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	
2	50	3.25	.437	.437	4	5/8-11unc			4 3/4	7	3.2	5.5	2.5			
2½	65	3.25	.437	.500	4	5/8-11unc			5 1/2	9	4.1	7.5	3.4			
3	80	3.25	.437	.500	4	5/8-11unc			6	9.5	4.3	8	3.6			
4	100	3.25	.437	.562	8	5/8-11unc			7 1/2	15	6.8	11	5.0			
5	125	3.25	.437	.656	8	3/4-10unc			8 1/2	21	9.5	15	6.8			
6	150	3.25	.437	.656	8	3/4-10unc			9 1/2	24	10.9	18	8.2			
8	200	3.25	.437	.781	8	3/4-10unc			11 3/4	34	15.4	28	12.7			
10	250	5.00	.562	1.000	12	7/8-9unc			14 1/4	62	28.1	45.5	20.7			
12	300	5.00	.562	1.062	12	7/8-9unc			17	90	40.9	70	31.8			

Refer to butterfly valve technical information for bolt lengths



For actuated service where a lower torque is required use NIBCO Fig. No. WDLXXX-0 or LDLXXX-0 series, sizes 2" thru 12" only. Maximum pressure rating of 100 PSI for wet application and 50 PSI for dry application.

Visit our website for the most current information.

*Weighted average lead content ≤ 0.25%