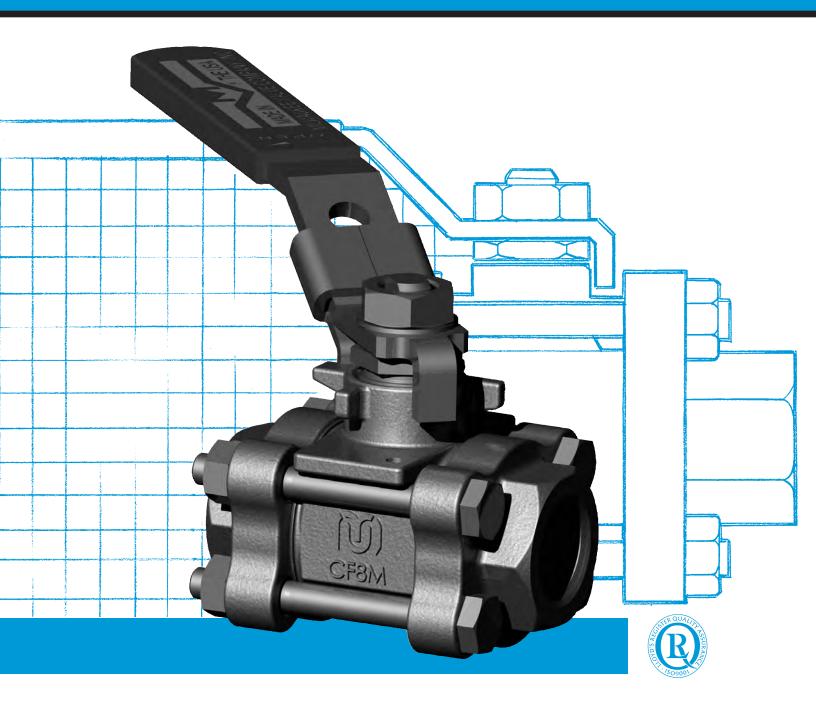
# 30SSOFA STAINLESS STEEL AND 30CCOFA & 30CSOFA CARBON STEEL FULL-PORT, THREE-PIECE BALL VALVES







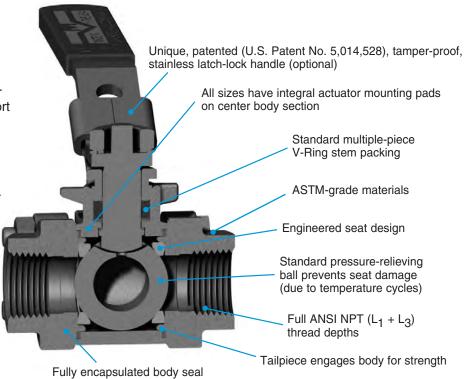
## 30SSOF, 30CCOF AND 30CSOF THREE-PIECE BALL VALVES

The 30SSOF, 30CCOF and 30CSOF Series ball valves are the most advanced 3-piece ball valves available.

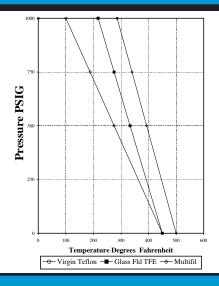
Designed with extensive end-user and distributor input, they include such standard features as: full-port design, multi-piece V-Ring stem packing for longer leak-free life; full NPT thread depths and superior ASTM-grade materials of construction and the highest pressure ratings in the industry.

The 3-piece design makes in-line maintenance and repairs possible. The valves utilize special high-cycle-life seats with the lowest operating torques. And when one or both ends are dismantled to service the valve, the actuator does not require removal. This combination provides the most economical actuated ball valve available.

Conforms to: MSS-SP-110.



### PERFORMANCE DATA



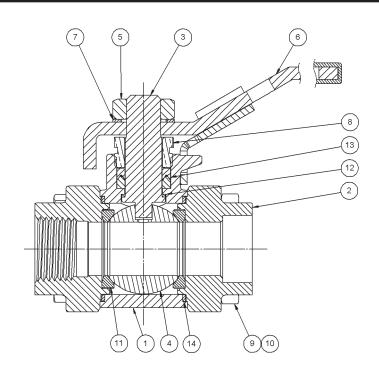
#### TORQUE RATING AND C<sub>v</sub>

VALVE SIZE	MAXIMUM BREAKAWAY TORQUE (in lbs.)	C <sub>V</sub> (GPM)			
1/4 – 3/8	30	9			
1/2	50	10			
3/4	70	31			
1	125	49			
1-1/4	210	85			
1-1/2	360	110			
2	600	360			

## **SPECIFICATIONS**

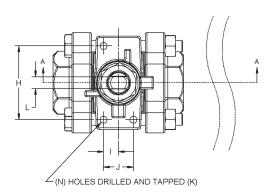
Approved valves shall be Milwaukee Valve 30SSOF Series (for stainless-steel applications) or 30CC/CSOF Series (for carbon-steel applications) or approved equal. Valves shall be of full-port design and include multiple-piece V-Ring stem packing, full ANSI NPT thread depths and ASTM-grade body/tailpiece materials. All valve sizes shall accommodate actuator mounting on the valve's center section. Each valve shall be tested for zero leakage. Approved valves to accommodate tamper-proof latch-lock handle where necessary or required.

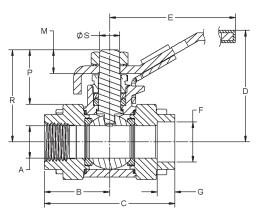
## **MATERIAL LIST**



	PART	30CCOF-02	30CSOF-02	30SSOF-02			
1.	Body	Carbon Steel ASTM A216, WCB	Carbon Steel ASTM A216, WCB	Stainless Steel ASTM A351/744, CF8M			
2.	Endcap	Carbon Steel ASTM A216, WCB	Carbon Steel ASTM A216, WCB	Stainless Steel ASTM A351/744, CF3M			
3.	Stem	Carbon Steel AISI - 12L14	Stainless Steel ASTM A276, Type 316	Stainless Steel ASTM A276, Type 316			
4.	Ball	Carbon Steel AISI -12L14	Stainless Steel ASTM A276, Type 316	Stainless Steel ASTM A276, Type 316			
5.	Handle Nut	Low Carbon Steel Zinc-Plated	Stainless Steel 18-8	Stainless Steel 18-8			
6.	Handle Assembly	AISI 1010 Steel Zinc-Plated	Stainless Steel 18-8	Stainless Steel 18-8			
7.	Lock Washer	Carbon Steel Plated	Stainless Steel Type 304	Stainless Steel Type 304			
8.	Packing Nut	Carbon Steel AISI - 12L14	Carbon Steel AISI - 12L14	Stainless Steel ASTM A276, Type 316			
9.	Body Capscrews	SAE J429 Gr.8 Zinc-Plated	SAE J429 Gr.8 Zinc-Plated	ASTM F593 Gr. C			
10.	Body Nuts	SAE J429 Gr.8 Zinc-Plated	SAE J429 Gr.8 Zinc-Plated	ASTM F593 Gr. C			
11.	Seats (02)	15% Glass-Filled, Reinforced PTFE	15% Glass-Filled, Reinforced PTFE	15% Glass-Filled Reinforced PTFE			
12.	Thrust Washer	PTFE	PTFE	PTFE			
13.	Packing	PTFE	PTFE	PTFE			
14.	Body Seal	PTFE (01) Graphoil (03)	PTFE (01) Graphoil (03)	PTFE (01) Graphoil (03)			

## **DIMENSIONS**









#### N = NUMBER OF ACTUATOR MOUNTING PADS HOLES

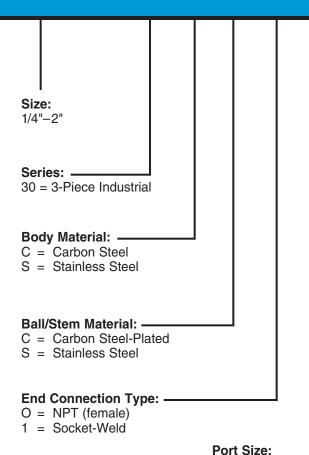
#### **DIMENSIONS - INCHES AND MILLIMETERS (30 SERIES BALL VALVES)**

SIZE	1/4"		3/8"		1/2" 3/4"		4"	1"		1-1/4"		1-1/2"		2"					
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
Α	.48	12.2	.50	12.7	.69	17.5	.75	19.1	1.00	25.4	1.25	31.8	1.50	38.1	2.00	50.8			
В	1.28	32.5	1.28	32.5	1.40	35.6	1.72	43.7	1.94	49.3	1.38	35.1	2.62	66.5	3.05	77.5			
С	2.56	65.0	2.56	65.0	2.81	71.4	3.44	87.4	3.87	98.3	4.75	121.0	5.24	133.0	6.10	154.9			
D	1.83	46.5	1.83	46.5	2.52	64.0	2.79	70.9	2.93	74.4	3.18	80.8	3.37	85.6	3.60	91.4			
Е	3.88	98.6	3.88	98.6	5.88	149.0	5.88	149.0	5.88	149.0	7.75	197.0	7.75	197.0	7.75	197.0			
F*	NA		NΔ		* ΝΔ	N	Δ	.86	21.97	1.08	27.31	1.34	34.04	1.69	42.8	1.93	48.9	2.42	61.37
G*			NA		.50	12.7	.56	14.2	.68	17.3	.81	20.6	.87	22.1	1.06	26.9			
Н	1.12	28.4	1.12	28.4	1.58	40.1	1.58	40.1	1.58	40.1	1.46	37.1	1.63	41.4	2.25	57.2			
- 1	_	_	_	_	.32	8.1	.32	8.1	.32	8.1	.56	14.2	.76	19.3	1.05	26.7			
J	_	_	_	_	.64	16.3	.64	16.3	.64	16.3	1.13	28.7	1.53	38.9	2.10	53.3			
K	10—24 10		10-	-24	10—24 10—24		10—24 1/4—20		1/4—20		1/4—20								
L	.197	5.0	.197	5.0	.276	7.0	.276	7.0	.276	7.0	.356	9.0	.356	9.0	.356	9.0			
M	.33	8.4	.33	8.4	.51	13.1	.51	13.1	.51	13.1	.60	15.4	.605	15.4	.605	15.4			
N	2 2		2	;	3 3		3 4		4	4		4							
Р	.945	24.0	.945	24.0	1.25	31.75	1.25	31.75	1.25	31.75	1.375	34.93	1.50	38.10	1.50	38.10			
R	1.63	41.33	1.63	41.40	1.97	50.04	2.30	58.37	2.47	62.79	2.90	73.74	3.14	79.73	3.57	90.63			
S	.31	7.87	.31	7.90	.44	11.07	.44	11.07	.44	11.07	.56	14.25	.56	14.25	.56	14.25			
WT.	LBS	KILOS	LBS	KILOS	LBS	KILOS	LBS	KILOS	LBS	KILOS	LBS	KILOS	LBS	KILOS	LBS	KILOS			
	_	_	_	_	1.53	3.37	2.51	5.52	3.27	7.19	5.24	11.53	7.32	16.10	11.91	26.20			

<sup>\*</sup> These dimensions apply only to socket-weld end valves.

### **ORDERING INFORMATION**

## 2" 30SSOF-02-LS-VB



**External Options:** 

LL = Patented\* Stainless Latch-Lock Handle

LO = Patented\*\* Locking Stainless Oval Handle -Spring-Loaded

XH = Extended Handle (2" extension standard. Other lengths available to customer specifications.)

#### **Seat Material:**

01 = Virgin PTFE 02 = Reinforced PTFE

03 = Steam Service

Modified PTFE\*\*\*

#### **Internal Options:**

AD = Assemble Dry GB = Grounded Ball\*\*\* GS = Grounded Stem\*\*\*

VB = Vented Ball

Note: If specifying more than one internal option. list ALPHABETICALLY.

\* - U.S. Patent No. 5,014,528

\*\* - U.S. Patent No. 5,183,073

\*\*\* - Must Be Ordered With SS Ball and Stem.

For Steam Service, Please Consult Factory.

F = Full Port -

Valves built to take it... since 1901

#### Milwaukee Valve Company

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