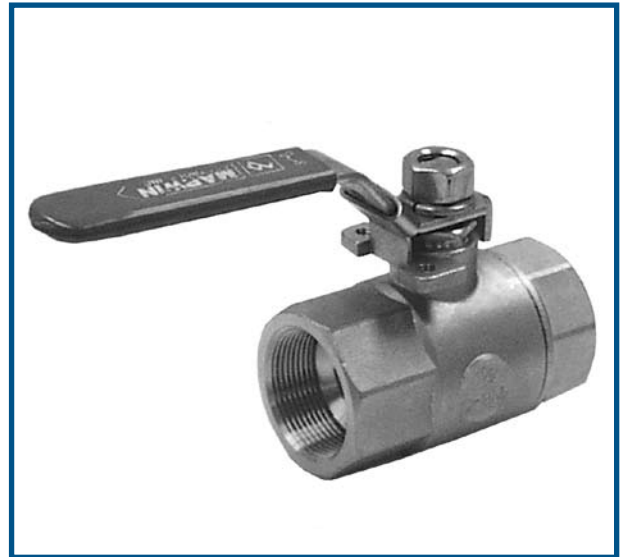


## 9000 Series

### Two Piece Ball Valves

The Marwin 9000 Series is constructed with a one piece body and threaded end cap which gives maximum structural strength while minimizing the number of potential leak paths through the valve.

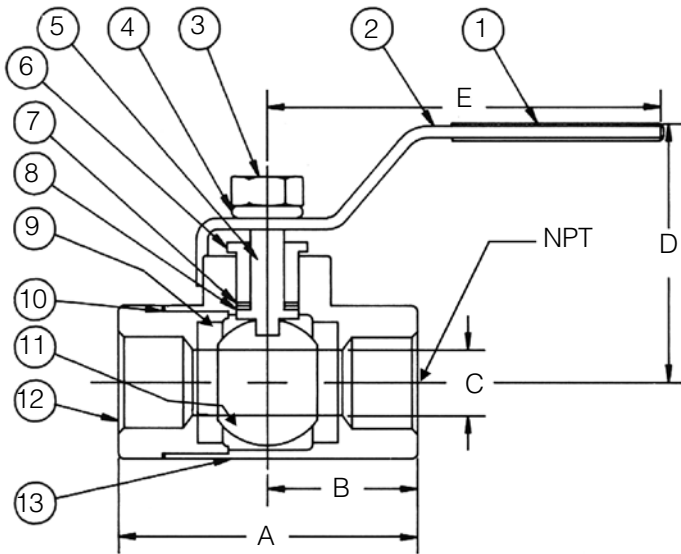
- In sizes 1/2" through 2" standard port; 1/4" through 3" full port
- Available in carbon and stainless steel
- An unobstructed, straight through flow path minimizes pressure drop across the valve
- All sizes standard port and 1/2" through 1" and 3" full port can be readily automated with our full line of pneumatic and electric actuators. Consult factory for 1-1/4" through 2-1/2" full port automation
- Ideally suited for pulp and paper, chemical and petrochemical and refining and petroleum applications
- Rugged one piece handle and stop provides for longer life and positive ball positioning



**Marwin Valve, a division of Richards Industries**  
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marwin@richardsind.com • www.marwinvalve.com

# Marwin Valve 9000 Series – Specifications

## Material Specifications



Item	Description	CS Body	SS Body
1	Handle Grip	Vinyl	Vinyl
2	Handle	AISI 304	AISI 304
3	Nut, Handle	AISI 304	AISI 304
4	Washer	AISI 304	AISI 304
5	Stem	ASTM A276 F316	ASTM A276 F316
6	Gland	AISI 304	AISI 304
7	Packing	TFE	TFE
8	Thrust Washer	Glass-filled TFE	Glass-filled TFE
9	Seat	Glass-filled TFE	Glass-filled TFE
10	Gasket	TFE	TFE
11	Ball	ASTM A276 F316	ASTM A276 F316
12	Cap	ASTM A216 WCB	ASTM A276 F316
13	Body	ASTM A216 WCB	ASTM A276 F316

## Dimensions

- Standard Port, inches

Valve Size	A	B	C	D	E
1/2"	2.24	1.10	0.49	1.7	3.8
3/4"	2.99	1.50	0.67	2.0	4.1
1"	3.39	1.69	0.87	2.2	4.1
1-1/4"	4.02	1.97	0.98	2.6	5.6
1-1/2"	4.37	2.20	1.26	2.8	5.6
2"	5.39	2.48	1.50	3.0	5.6

- Standard Port, metric

Valve Size	A	B	C	D	E
DN15	56,9	27,9	12,45	43,2	96,5
DN20	75,9	38,1	17,02	50,8	104
DN25	86,1	42,9	22,10	55,9	104
DN32	102	50,0	24,89	66,0	142
DN40	111	55,9	32,00	71,1	142
DN50	137	63,0	38,10	76,2	142

- Full Port, inches

Valve Size	A	B	C	D	E
1/4"	1.97	0.98	0.39	2.0	4.3
3/8"	1.97	0.98	0.50	2.0	4.3
1/2"	2.24	1.10	0.59	2.1	4.3
3/4"	2.60	1.50	0.79	2.4	5.0
1"	3.23	1.69	0.99	2.7	6.0
1-1/4"	3.62	1.97	1.26	2.9	6.0
1-1/2"	4.37	2.20	1.50	3.1	7.5
2"	4.92	2.48	1.97	3.8	7.5
2-1/2"	6.42	2.48	2.56	5.5	10.2
3"	6.97	2.48	3.15	6.0	10.2

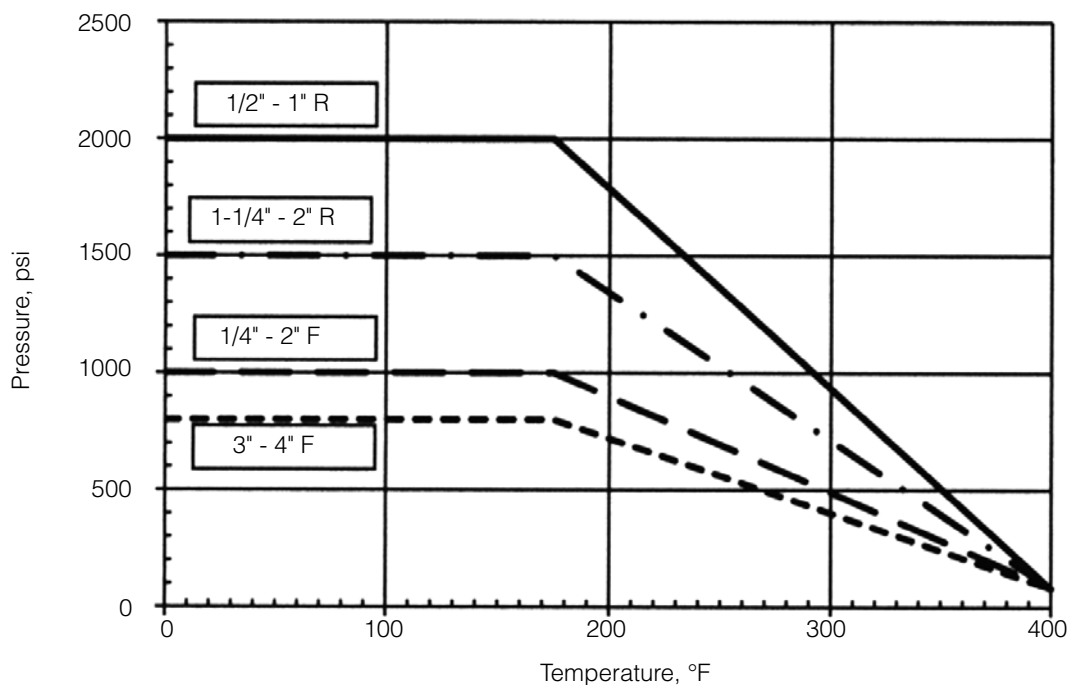
- Full Port, metric

Valve Size	A	B	C	D	E
DN8	50,0	24,9	9,91	50,8	109
DN12	50,0	24,9	12,70	50,8	109
DN15	56,9	27,9	14,99	53,3	109
DN20	66,0	38,1	20,07	61,0	127
DN25	82,0	42,9	25,15	68,6	152
DN32	91,9	50,0	32,00	73,7	152
DN40	111	55,9	38,10	78,7	191
DN50	125	63,0	50,0	96,5	191
DN65	163	63,0	65,0	139,7	259
DN80	177	63,0	80,0	152,4	259

For actuator mounting dimensions, see drawing 28-99800 for 9000F, 28-99801 for 9000R

# Marwin Valve 9000 Series – Specifications

## Pressure-Temperature Chart



## Technical Specifications

Valve Size	Operating Torque in-lb		Flow Coefficient Cv		Weight, Lb	
	Full Bore	Standard Bore	Full Bore	Standard Bore	Full Bore	Standard Bore
1/4"	50	—	10	—	0.5	—
3/8"	50	—	10	—	0.5	—
1/2"	85	60	12	9	0.9	0.7
3/4"	140	85	35	18	1.3	1.3
1"	180	150	60	35	2.3	1.7
1-1/4"	235	190	100	48	2.9	2.7
1-1/2"	300	220	150	81	4.4	4.1
2"	330	290	250	110	6.9	5.7
2-1/2"	850	—	400	—	15.2	—
3"	1200	—	600	—	20.2	—

# Marwin Valve 9000 Series – Ordering Schematic

9000/0909/5K/AB

Series	Body Material	Trim Material	Port	Packing	Seat	End Connections		Size		Options
99	3	3	F	T	R	S	—	100	—	ACT

Series	
99	Valve Series

Seat Rings	
R	RPTFE

Body Material	
2	Carbon Steel
3	Stainless Steel

End Connections	
S	Threaded (FNPT)

Trim Material	
3	316SST

Size	
025	1/4" (Full Port Only)
038	3/8" (Full Port Only)
050	1/2"
075	3/4"
100	1"
125	1-1/4"
150	1-1/2"
200	2"
250	2-1/2" (Full Port Only)
300	3" (Full Port Only)

Port Design	
F	Full Port
R	Standard Port

Packing	
T	PTFE

Options	
ACT	Automated



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