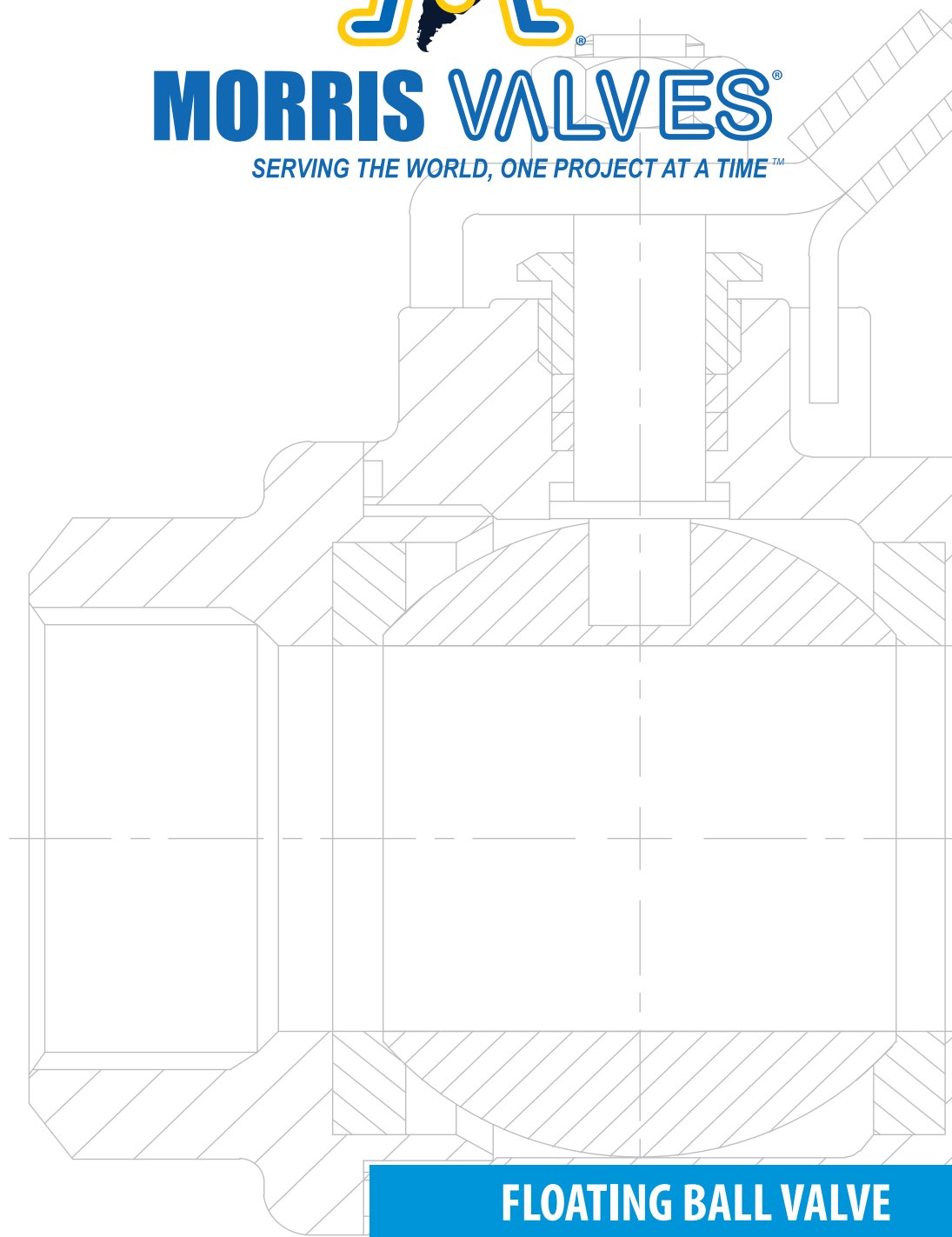




MORRIS VALVES®

SERVING THE WORLD, ONE PROJECT AT A TIME™



FLOATING BALL VALVE

www.morrisvalve.com



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves. Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

Contacts

Address: 13548 Cedar Hill Rd., Montgomery, TX. 77356, USA.
Telephone: +1 (832) 666-5576
Cel: +1 (832) 983 – 0744
Email: sales@morrisvalve.com



Vision

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability our planet.

Mission

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

"Serving the world, one project at a time"

United States of America

United States Patent and Trademark Office



Reg. No. 4,840,307

Registered Oct. 27, 2015

Int. Cl.: 6

TRADEMARK

PRINCIPAL REGISTER

MORRIS VALVES, INC. (FLORIDA CORPORATION)
5590 N.W. 84TH AVE.
MIAMI, FL 33166

FOR: METAL PIPES AND METAL FITTINGS THEREFOR; METAL TUBES AND METAL FITTINGS THEREFOR, IN CLASS 6 (U.S. CLS. 2, 12, 13, 14, 23, 25 AND 50).

FIRST USE 2-11-2015; IN COMMERCE 2-11-2015.

OWNER OF U.S. REG. NO. 4,241,186.

THE COLOR(S) YELLOW, WHITE, AND BLUE IS/ARE CLAIMED AS A FEATURE OF THE MARK.

THE MARK CONSISTS OF A STYLIZED WHITE LETTER "V" WITH A BLUE OUTLINE INSIDE OF A STYLIZED LETTER "M" IN BLUE OUTLINED WITH YELLOW. THE BACKGROUND OF THE MARK IS WHITE.

SER. NO. 86-543,795, FILED 2-24-2015.

MARCIE MILONE, EXAMINING ATTORNEY



Michelle K. Lee

Director of the United States
Patent and Trademark Office



MORRIS VALVES®
SERVING THE WORLD, ONE PROJECT AT A TIME™

Index



1- Piece Ball Valve
1H2K TYPE
1/4" – 2"
BAR STOCK / INVESTMENT CASTING
ASTM A 351 CF8M / ASTM A 216 WCB

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1- Piece Ball Valve
11K TYPE
1/4" – 2"
STAINLESS STEEL (ASTM A351 CF8M)

5



2- Piece Ball Valve
21K TYPE
1/4" – 4"
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 – CF8 / ASTM A 216 - WCB

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2- Piece Ball Valve
22K TYPE
1/4" – 2"
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 – CF8 / ASTM A 216 - WCB

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2- Piece Ball Valve
23K TYPE
1/4" – 4"
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 – CF8 / ASTM A 216 - WCB

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3- Piece Ball Valve
31K TYPE
1/4" – 4"
INVESTMENT CASTING BODY & CAP / ASTM A 351 - CF8M (DIN 1.4408) / ASTM A 351 – CF8 (DIN 1.4301) ASTM A 216 – WCB (DIN 1.0619)

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3- Piece Ball Valve
31KM TYPE
1/4" – 4"
ASTM A 351 - CF8M (DIN 1.4408) / ASTM A 351 – CF8 (DIN 1.4301) ASTM A 216 – WCB (DIN 1.0619)

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3- Piece Ball Valve
33 TYPE
1/4" – 2"
INVESTMENT CASTING BODY & CAP DIRECT MOUNTING PAD
ASTM A 351 - CF8M (DIN 1.4408) / ASTM A 351 – CF8 (DIN 1.4301)
ASTM A 216 – WCB (DIN 1.0619)

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2-Piece Flanged Ball Valve
FBV TYPE
1/2" – 10"
ANSI 300# / FLANGED END

13



2-Piece Flanged Ball Valve
FBV TYPE
1/2" – 12"
ANSI 150# / FLANGED END

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2-Piece Flanged Ball Valve
FBV TYPE
DN15 – DN300
DIN PN16 FLANGED END

16



2-Piece Flanged Ball Valve
FBV TYPE
DN15 – DN200
DIN PN40 FLANGED END

18



2- Piece Swing Check Valve
FSCKV TYPE
2" – 24"
FLANGED END 150#, RF

20



Dual Plate, Wafer Style, Check Valve
DCKV TYPE
DUAL PLATE, WAFER STYLE, CHECK VALVE
(ASTM A351 CF8M/CF8)

21



Flanged Globe Valve
FGLV TYPE
2" – 16"
FLANGED END 150#, RF

22



Flanged Globe Valve
FGV TYPE
2" – 24"
FLANGED END 150#, RF

23

1-PIECE BALL VALVE
BAR STOCK / INVESTMENT CASTING
ASTM A 351 CF8M / ASTM A 216 WCB

1H2K TYPE

FEATURES:

- PIPE THREAD IN ACCORDANCE WITH:
 - * ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)
 - * ANSI B1.20 (NPTF)
 - * BS21:1973
 - * DIN259/2999
 - * ISO228
- BLOW-OUT PROOF STEM
- REDUCE BORE
- 2000 PSI W.O.G
- MATERIAL TRACEABILITY
- MATERIAL:
 - * ASTM-A351-CF8, ASTM-A351-CF8M, A216-WCB
- OPTION: POLISHED SURFACE (SST ONLY)

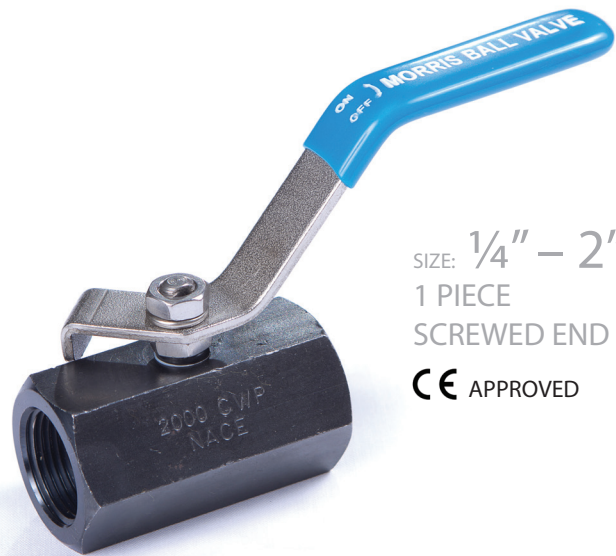
DIMENSIONS		UNIT:mm				
SIZE	PORT	L	E	H	W	
DN8 1/4"	5.0	39.0	70.0	30.5	17.0	
DN10 3/8"	7.2	44.0	81.5	31.0	21.0	
DN15 1/2"	9.2	56.5	97.0	47.0	25.0	
DN20 3/4"	12.5	59.0	97.0	51.0	32.0	
DN25 1"	15.0	71.0	101.0	52.0	38.0	
DN32 1-1/4"	20.0	78.0	101.0	57.0	48.0	
DN40 1-1/2"	25.0	83.0	146.0	66.5	53.0	
DN50 2"	32.0	98.0	146.0	71.5	64.0	

PARTS		MATERIAL	
1	BODY	A216-WCB	ASTM-A351-CF8M
4	BALL	ASTM-A351-CF8M	
5	STEM	ASTM-A351-CF8M	
9	INSERT	ASTM-A351-CF8M	
11	BODY SEAL	PTFE	
12	SEAT	15% G/F + R-PTFE	
13	THRUST WASHER	PTFE	
14	STEM PACKING	PTFE	
15	GLAND WASHER	ASTM-A351-CF3	
19	HANDLE	ASTM-A351-CF3	
21	HANDLE COVER	PLASTIC (VINIL GRIP)	
23	SPRING WASHER	ASTM-A351-CF3	
24	HANDLE NUT	ASTM-A351-CF3	



MORRIS VALVES
BETWEEN THE WORLD, ONE PRODUCT AT A TIME

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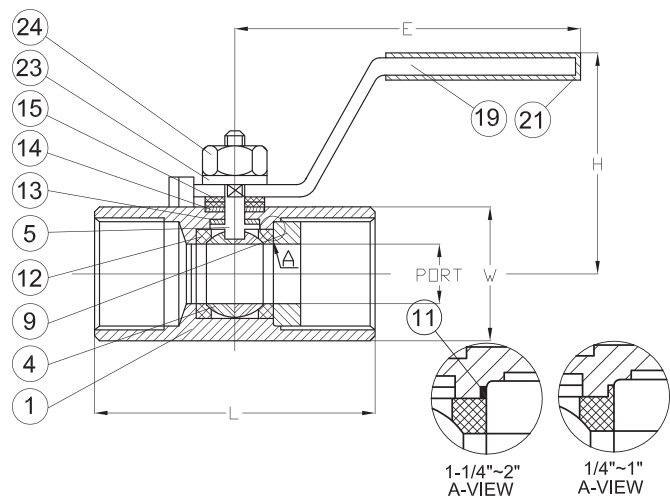
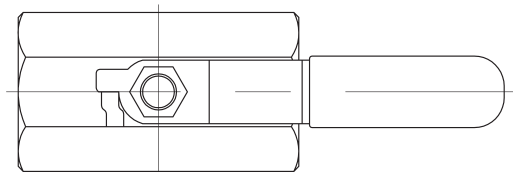
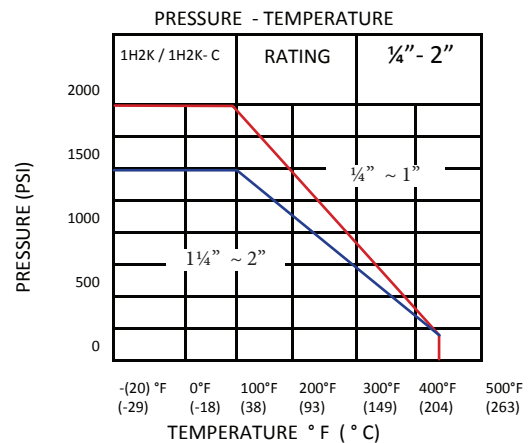
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1 PIECE
SCREWED END

CE APPROVED

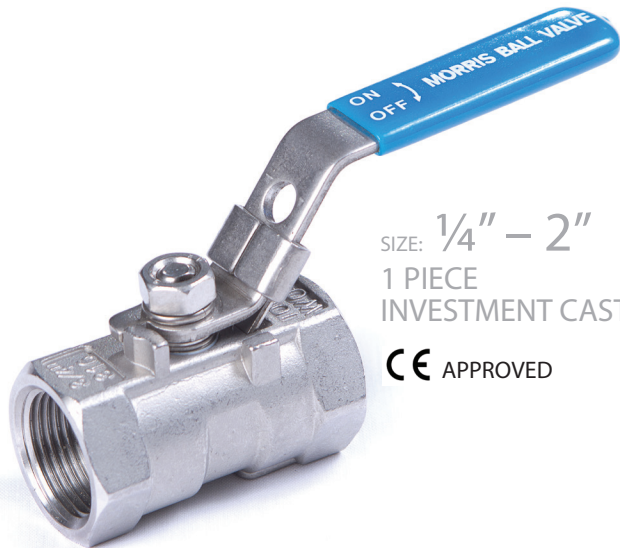
HOW TO ORDER

BODY MATERIAL SIZE END CONNECTIONS
1H2K R3T



1-PIECE BALL VALVE
STAINLESS STEEL (ASTM A351 CF8M)

11K TYPE

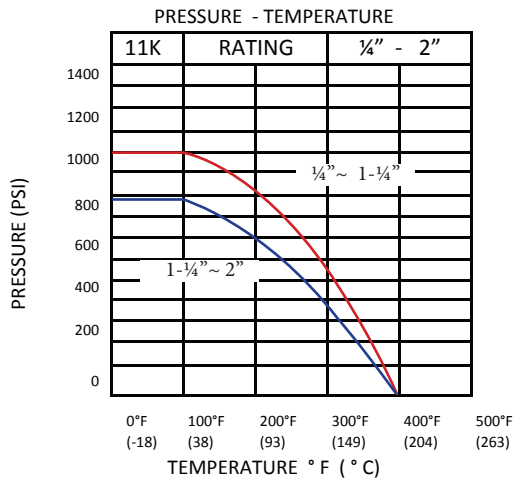


SIZE: $\frac{1}{4}$ " - 2"
1 PIECE
INVESTMENT CASTING

CE APPROVED

HOW TO ORDER

BODY MATERIAL SIZE END CONNECTIONS
11K R3T



FEATURES:

PIPE THREAD IN ACCORDANCE WITH:

* ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)

* ANSI B1.20 (NPTF)

* BS21:1973

* DIN259/2999

* ISO228

- BLOW-OUT PROOF STEM

-REDUCE BORE

1000 PSI W.O.G / 800 PSI W.O.G

-MATERIAL TRACEABILITY

- MATERIAL:

* ASTM-A351-CF8M (INVESTMENT CASTING)

- OPTION:

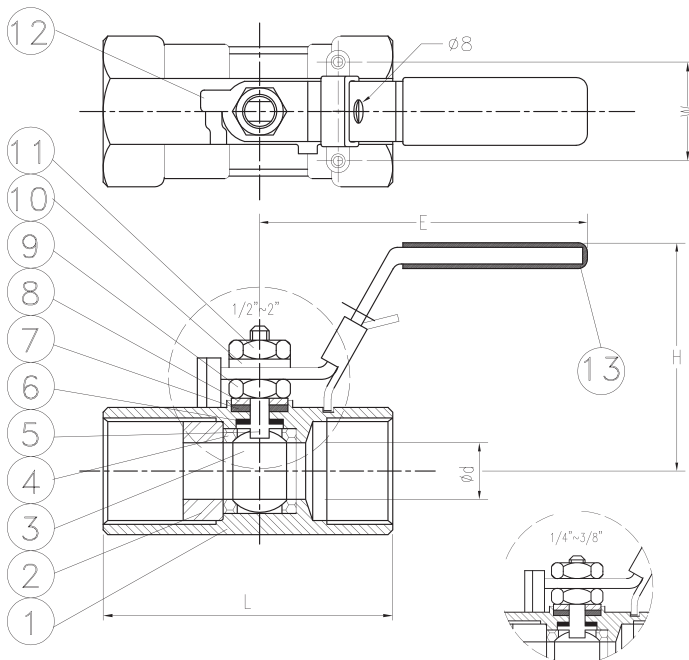
* LOCKING DEVICE

DIMENSIONS		UNIT:mm				
	SIZE	d	L	H	E	W
DN8	$\frac{1}{4}$ "	9.2	58.5	46.9	109	28.5
DN10	$\frac{3}{8}$ "	9.2	58.5	46.9	109	28.2
DN15	$\frac{1}{2}$ "	9.2	66.0	57.9	102	28.2
DN20	$\frac{3}{4}$ "	12.5	70.0	60.9	102	28.2
DN25	1"	15.0	80.0	63.8	104.7	35.6
DN32	1-1/4"	20.0	95.0	70.3	101.9	35.6
DN40	1-1/2"	25.0	101	72.3	156.1	35.6
DN50	2"	32.0	114	78.3	155.1	35.6

PARTS

MATERIAL

1	BODY	ASTM-A351-CF8M
2	INSERT	ASTM-A351-CF8M
3	BALL	ASTM-A351-CF8M
4	SEAT	15% G/F + R-PTFE
5	STEM	ASTM-A351-CF8M
6	THRUST WASHER	PTFE
7	STEM SEAL	PTFE
8	GLAND WASHER	SS304
9	NUT	SS304
10	SPRING WASHER ($\frac{1}{2}$ " - 2")	SS304
11	NUT	SS304
12	HANDLE	PLASTIC
13	HANDLE SLEEVE	(VINIL GRIP)



2-PIECE BALL VALVE
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 - CF8
ASTM A 216 - WCB

21K TYPE

FEATURES:

- PIPE THREAD IN ACCORDANCE WITH:
 - * ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)
 - * ANSI B1.20 (NPTF)
 - * BS21:1973
 - * DIN259/2999
 - * ISO228
- BLOW-OUT PROOF STEM
- FULL PORT
- 1000 PSI W.O.G
- LUG BODY
- LOCKING DEVICE
- MATERIAL TRACEABILITY
- MATERIALS:
 - * ASTM-A351-CF8, ASTM-A351-CF8M, A216-WCB
- OPTION:
 - * DRILLING & TAPPED MOUNTING PAD

NOMINAL SIZE	d	L	H	W	X	BL	Cv Factor	Torque Kgf-cm
1/4"	9.2	42.9	35	70	4	M6x1	6.6	40
3/8"	12.5	44.5	51	95	5	5/16"	7.9	40
1/2"	15	53.6	53	95	5	5/16"	11.2	54
3/4"	20	62.6	59.5	110	6.5	3/8"	21	74
1"	25	72.9	73	135	8	7/16"	35	104
1-1/4"	32	87.3	79	135	8	7/16"	57	135
1-1/2"	38	97.0	90.5	165	9	1/2"	80	180
2"	50	116.0	98.5	165	9	1/2"	148	250
2-1/2"	65	145.4	130.5	215	12	3/4"	265	480
3"	80	166.8	142.5	215	12	3/4"	415	750
4"	100	209.6	173.5	325	16	1"	780	1100

PARTS	MATERIAL	
	21K	21K-C
1 BODY	ASTM-A351-CF8M	ASTM-A216-WCB
2 CAP	ASTM-A351-CF8M	ASTM-A216-WCB
3 BALL	ASTM-A351-CF8M	
4 BALL SEAT	15% - R-PTFE	
5 JOINT GASKET	PTFE	
6 STEM	ASTM-A351-CF8M	
7 THRUST WASHER	PTFE	
8 STEM PACKING	PTFE	
9 GLAND NUT	ASTM-A351-CF8	
10 HANDLE	ASTM-A351-CF8	
11 SPRING WASHER	ASTM-A351-CF8	
12 STEM NUT	ASTM-A351-CF8	
13 HANDLE SLEEVE	PLASTIC (VINIL GRIP)	
14 LOCK DEVICE	ASTM-A351-CF8	

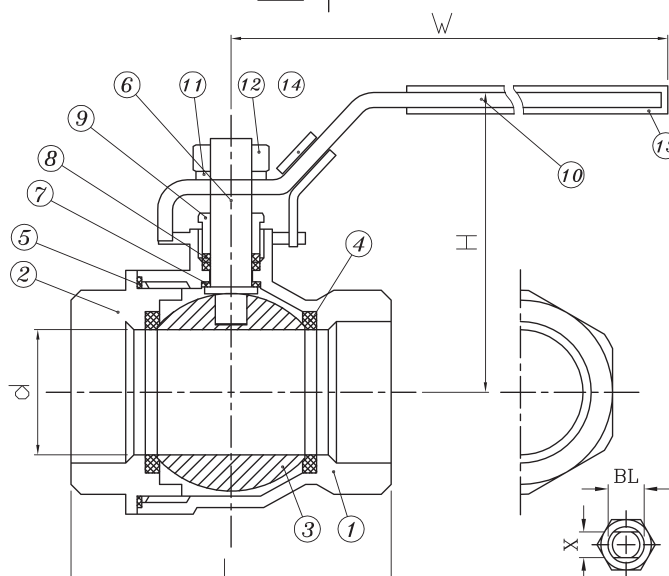
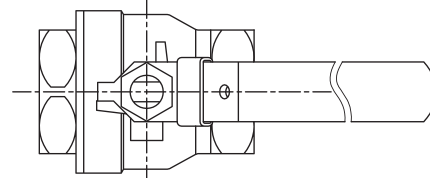
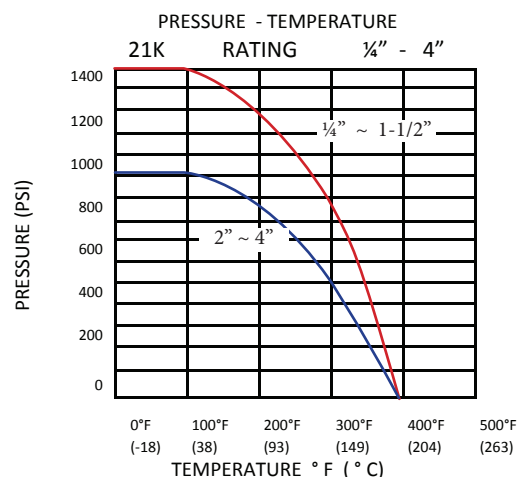


SIZE: 1/4" - 4"
SCREWED END

CE APPROVED

HOW TO ORDER

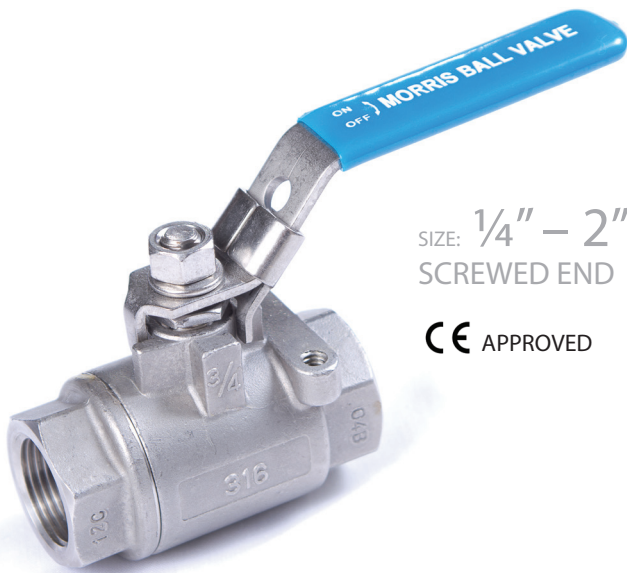
BODY MATERIAL SIZE END CONNECTIONS
21K F3T



MORRIS VALVES
SERVING THE WORLD ONE PRODUCT AT A TIME

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2-PIECE BALL VALVE
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 - CF8
ASTM A 216 - WCB



SIZE: 1/4" - 2"
SCREWED END

CE APPROVED

22K TYPE

FEATURES:

PIPE THREAD IN ACCORDANCE WITH:

- * ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)
- * ANSI B1.20 (NPTF)
- * BS21:1973
- * DIN259/2999
- * ISO228

- BLOW-OUT PROOF STEM

- FULL PORT

- 2000 PSI W.O.G

- LUG BODY

- LOCKING DEVICE

- MATERIAL TRACEABILITY

- MATERIAL:

* ASTM-A351-CF8, ASTM-A351-CF8M, A216-WCB

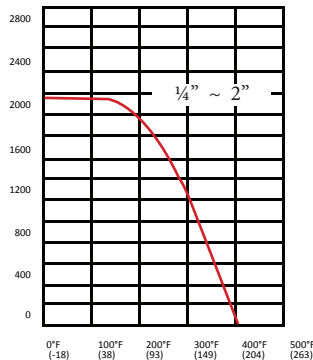
- OPTION:

* DRILLING & TAPPED MOUNTING PAD

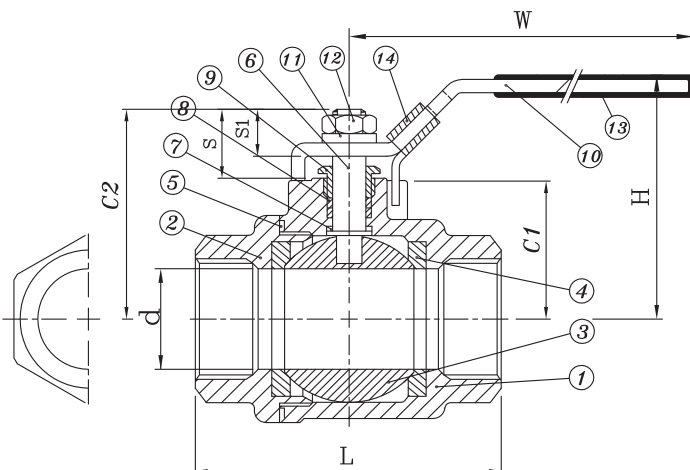
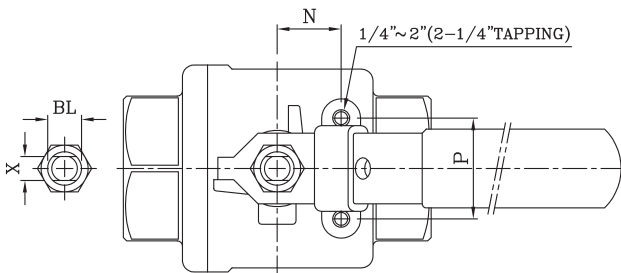
HOW TO ORDER

BODY MATERIAL SIZE END CONNECTIONS
22K F3T

PRESSURE - TEMPERATURE
22K RATING 1/4" - 2"



TEMPERATURE ° F (° C)



NOMINAL SIZE	d	L	H	W	S	S1	X	N	P	BL	Cv Factor	Torque Kgf-cm
1/4"	11.6	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	6.6	46
3/8"	12.7	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	7.9	46
1/2"	15	62	53	95	16.5	10.2	5	12.5	28.5	5/16"	11.2	54
3/4"	20	77	60	110	20	13.5	6.5	21	34.8	3/8"	21	78
1"	25.4	90	74	135	23.5	16	8	22.5	34.8	7/16"	35	106
1-1/4"	32	100	80	135	23.5	16	8	23.5	38.1	7/16"	57	150
1-1/2"	38	118	92	165	25.5	17	9	23.5	38.1	1/2"	80	200
2"	50	138	101	165	25.5	17	9	34	38.1	1/2"	150	280

PARTS	MATERIAL	
	22K	22K-C
1 BODY	ASTM-A351-CF8M	ASTM-A216-WCB
2 CAP	ASTM-A351-CF8M	ASTM-A216-WCB
3 BALL	ASTM-A351-CF8M	
4 BALL SEAT	15% - R-PTFE	
5 JOINT GASKET	PTFE	
6 STEM	ASTM-A351-CF8M	
7 THRUST WASHER	PTFE	
8 STEM PACKING	PTFE	
9 GLAND NUT	ASTM-A351-CF8	
10 HANDLE	ASTM-A351-CF8	
11 SPRING WASHER	ASTM-A351-CF8	
12 STEM NUT	ASTM-A351-CF8	
13 HANDLE SLEEVE	PLASTIC (VINIL GRIP)	
14 LOCK DEVICE	ASTM-A351-CF8	

2-PIECE BALL VALVE
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M / ASTM A 351 - CF8
ASTM A 216 - WCB

23K TYPE

FEATURES:

PIPE THREAD IN ACCORDANCE WITH:

- * ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)
- * ANSI B1.20 (NPTF)
- * BS21:1973
- * DIN259/2999
- * ISO228
- BLOW-OUT PROOF STEM
- FULL PORT
- 3000 PSI W.O.G
- LUG BODY
- LOCKING DEVICE
- MATERIAL TRACEABILITY
- MATERIAL:
- * ASTM-A351-CF8,ASTM-A351-CF8M,A216-WCB
- OPTION:
- * DRILLING & TAPPED MOUNTING PAD

NOMINAL SIZE	d	L	H	W	S	S1	X	N	P	BL	Cv	Torque Factor Kgf-cm
1/4"	11.6	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	6.6	54
3/8"	12.7	60.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	7.9	54
1/2"	15	62.5	53	95	16.5	10.2	5	12.5	28.5	5/16"	11.2	54
3/4"	20	77	60	110	20	13.5	6.5	21	34.8	3/8"	21	106
1"	25.4	90	74	135	23.5	16	8	22.5	34.8	7/16"	35	200
1-1/4"	32	100	80	135	25.5	16	8	23.5	38.1	7/16"	57	320
1-1/2"	38	118	92	165	25.5	17	9	23.5	38.1	1/2"	80	500
2"	50.8	138	101	165	25.5	17	9	34	38.1	1/2"	150	620

PARTS	MATERIAL
	23K
1 BODY	ASTM-A351-CF8M
2 CAP	ASTM-A351-CF8M
3 BALL	ASTM-A351-CF8M
4 BALL SEAT	1/4" - 1" (RPTFE); 1-1/4" - 4" (POM or PEEK)
5 STEM	ASTM-A351-CF8M
6 THRUST WASHER	PTFE
7 STEM PACKING	PTFE
8 GLAND NUT	ASTM-A351-CF8
9 HANDLE	ASTM-A351-CF8
10 SPRING WASHER	ASTM-A351-CF8
11 STEM NUT	ASTM-A351-CF8
12 HANDLE SLEEVE	PLASTIC (VINIL GRIP)
13 LOCK DEVICE	ASTM-A351-CF8



SIZE: 1/4" - 2"
SCREWED END

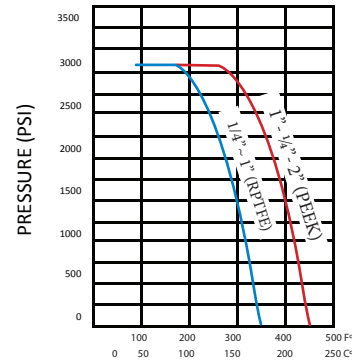
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HOW TO ORDER

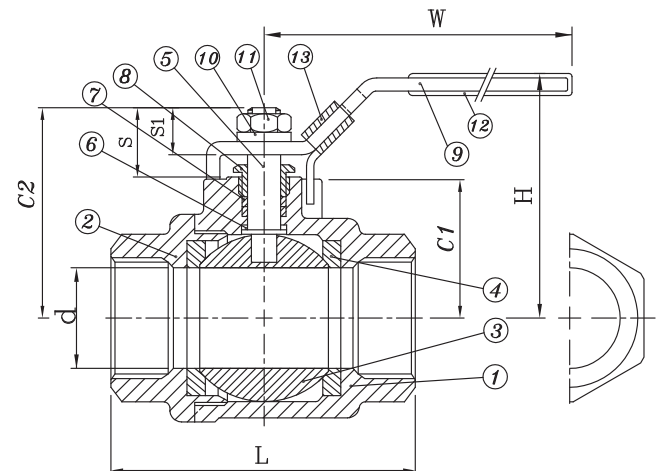
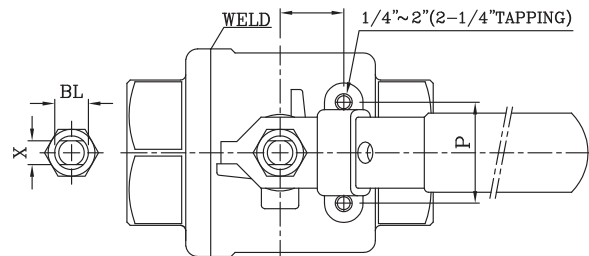
BODY MATERIAL SIZE END CONNECTIONS
23K F3T

PRESSURE - TEMPERATURE

RATING 1/4" - 2"



TEMPERATURE



MORRIS VALVES
BETWEEN THE WORLD'S TWO PRODUCT OF A TREE

3-PIECE BALL VALVE
INVESTMENT CASTING BODY & CAP
ASTM A 351 - CF8M (DIN 1.4408)
ASTM A 351 - CF8 (DIN 1.4301)
ASTM A 216 - WCB (DIN 1.0619)



SIZE: $\frac{1}{4}$ " - 4"

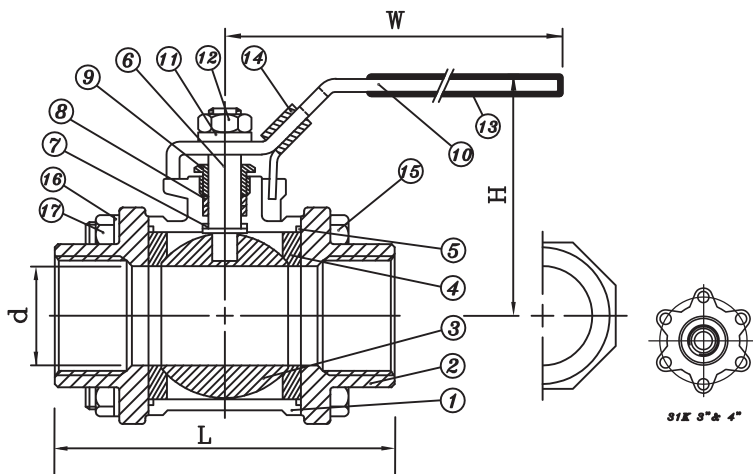
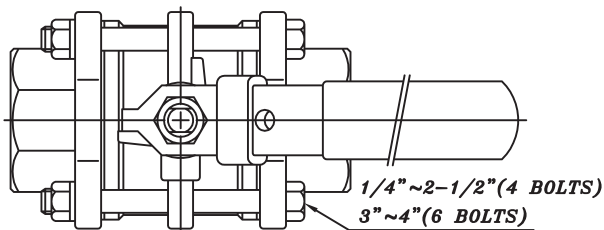
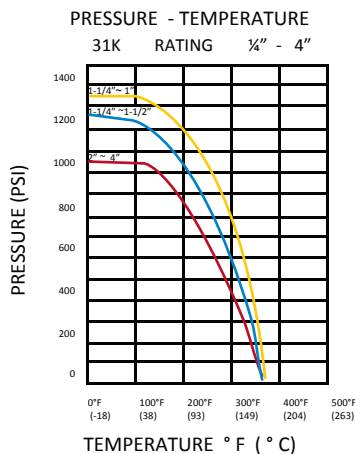
-SCREWED

-BUTT & SOCKETWELD END

CE APPROVED

HOW TO ORDER

BODY MATERIAL SIZE END CONNECTIONS
31K F3T



FEATURES:

- PIPE THREAD IN ACCORDANCE WITH:

* ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)

* ANSI B1.20 (NPTF)

* BS21:1973

* DIN259/2999

* ISO228

- BLOW-OUT PROOF STEM

- FULL PORT

- 1000 PSI W.O.G

- LUG BODY

- LOCKING DEVICE

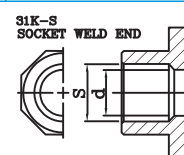
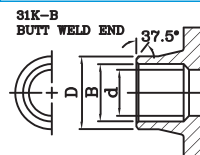
- MATERIAL TRACEABILITY

- MATERIALS:

* ASTM-A351-CF8, ASTM-A351-CF8M, A216-WCB

NOMINAL SIZE	d	L	H	W	B	D	S	Cv	Torque Factor Kgf-cm
$\frac{1}{4}$ "	11.6	54	51	95	12	18	14.1	6.6	40
$\frac{3}{8}$ "	12.7	54	51	95	12.52	18	17.6	7.9	40
$\frac{1}{2}$ "	15	61.5	55	95	15.8	22	21.7	11.2	54
$\frac{3}{4}$ "	20	71	58.5	110	20.93	28	27.2	21	74
1"	25	83.5	73	135	26.64	34	33.9	34	104
1 - $\frac{1}{4}$ "	32	97	78.5	135	35.05	44	42.6	57	135
1 - $\frac{1}{2}$ "	38	110.5	90.5	165	40.9	50	48.7	80	180
2"	50	129	99	165	52.5	61.5	61.1	148	250
2 - $\frac{1}{2}$ "	65	171.5	127	215	69	76	76.9	265	480
3"	80	200	136	215	82	90	89.8	415	750
4"	100	252	172	325	106	115	115.4	780	1100

PARTS	MATERIAL
1 BODY	ASTM-A351-CF8M ASTM-A216-WCB
2 CAP	ASTM-A351-CF8M ASTM-A216-WCB
3 BALL	ASTM-A351-CF8M
4 BALL SEAT	15% - R-PTFE
5 JOINT GASKET	PTFE
6 STEM	ASTM-A351-CF8M
7 THRUST WASHER	PTFE
8 STEM PACKING	PTFE
9 GLAND NUT	ASTM-A351-CF8
10 HANDLE	ASTM-A351-CF8
11 STEM WASHER	ASTM-A351-CF8
12 STEM NUT	ASTM-A351-CF8
13 HANDLE SLEEVE	PLASTIC (VINIL GRIP)
14 LOCK DEVICE	ASTM-A351-CF8
15 BOLT	ASTM-A351-CF8
16 SPRING WASHER	ASTM-A351-CF8
17 HEX NUT	ASTM-A351-CF8



3-PIECE BALL VALVE

ASTM A 351 - CF8M (DIN 1.4408) / ASTM A 351 – CF8
(DIN 1.4301) ASTM A 216 – WCB (DIN 1.0619)

31KM TYPE

FEATURES:

- * MOUNTING PAD FOR ISO 5211 STD
- PIPE THREAD IN ACCORDANCE WITH:
- * ANSI B2.1(BASIC STD FOR STEEL PIPE THREADS)
- * ANSI B1.20 (NPTF)
- * BS21:1973
- * DIN259/2999
- * ISO228
- BLOW-OUT PROOF STEM
- FULL PORT
- 1000 PSI W.O.G
- LUG BODY
- LOCKING DEVICE
- MATERIAL TRACEABILITY
- MATERIALS:
- * ASTM A351 CF8M / ASTM A 351 CF8 /
ASTM A 216 WCB



CE APPROVED

HOW TO ORDER

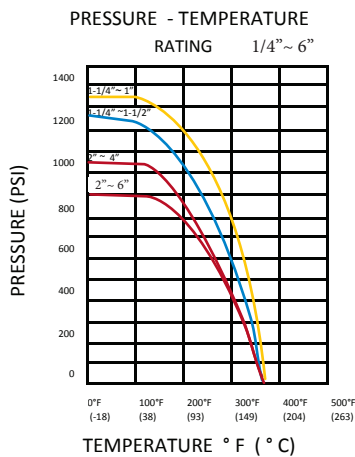
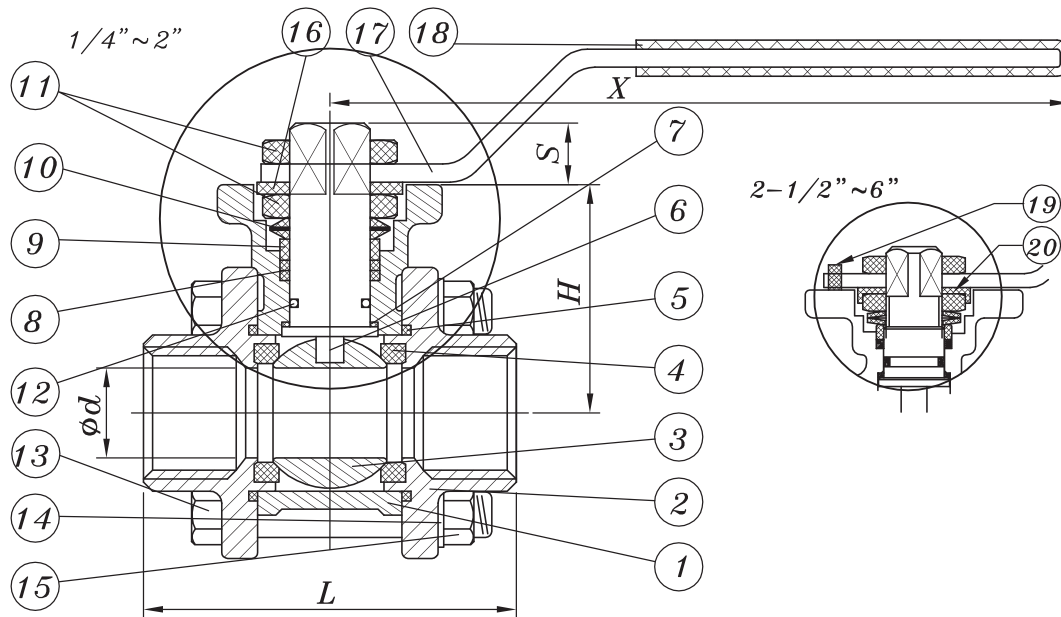
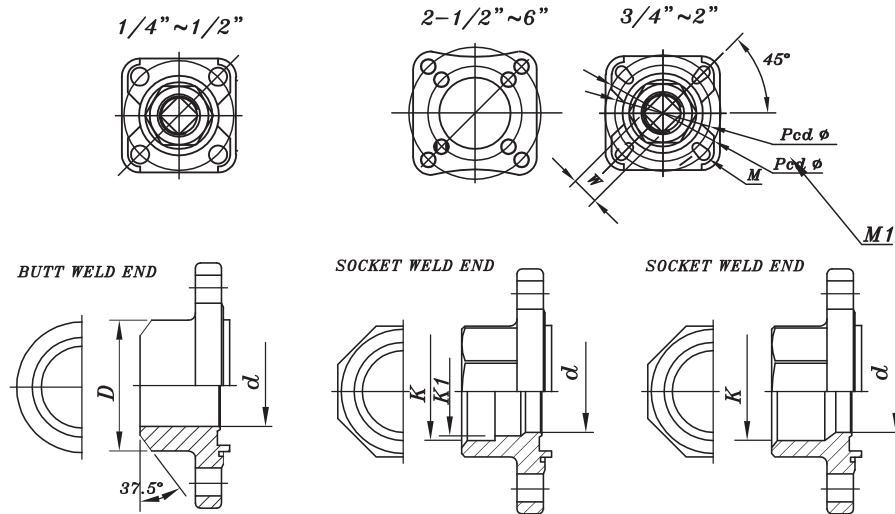
31KM BODY MATERIAL SIZE END CONNECTIONS

NOMINAL SIZE	d	L	H	S	X	ISO 5211 Pcd Ø	W	M	M1	Cv Factor	Torque Kgf-cm	D	d	K	K1
1/4"	11.6	58	36	9.6	112	F03 Ø36	9	Ø6.0	X	6.6	45	Ø 18.1	Ø 11.6	Ø 14.1	X
3/8"	12.8	58	36	9.6	112	F03 Ø36	9	Ø6.0	X	7.9	45	Ø 18.1	Ø 12.7	Ø 17.6	X
1/2"	15	62	38	9.6	112	F03 Ø36	9	Ø6.0	X	11.2	55	Ø 21.7	Ø 15	Ø 21.7	X
3/4"	20	77	41.7	11.6	138	F04 F05 Ø42 Ø50	11	R 3.5	R 3.0	21	90	Ø 27.2	Ø 20	Ø 27.2	X
1"	25	83	44.4	11.6	138	F04 F05 Ø42 Ø50	11	R 3.5	R 3.0	34	110	Ø 34	Ø 25	Ø 33.9	X
1 - 1/4"	20	94	52.8	11.2	205	F05 F07 Ø50 Ø70	14	R 4.5	R 3.5	57	155	Ø 42.7	Ø 32	Ø 42.6	X
1 - 1/2"	32	107	58.5	11.2	205	F05 F07 Ø50 Ø70	14	R 4.5	R 3.5	80	220	Ø 48.6	Ø 40	Ø 48.7	X
2"	38	120	66	11.2	205	F07 F10 Ø70 Ø102	14	R 4.5	R 3.5	148	330	Ø 60.5	Ø 50	Ø 61.1	K1
2 - 1/2"	50	156	101.5	18.5	300	F07 F10 Ø70 Ø102	17	Ø 11	Ø9.0	265	400	Ø 76.3	Ø 65	Ø 73.8	Ø 70.9
3"	80	182	112.5	18.5	300	F07 F10 Ø70 Ø102	17	Ø 11	Ø9.0	415	660	Ø 93	Ø 80	Ø 89.8	Ø 82.5
4"	100	213.6	127	18.5	330	F10 F12 Ø102 Ø125	17	Ø 11	Ø9.0	780	900	Ø114	Ø 100	Ø115.4	Ø 108
5"	125	283	158.5	47	500	F10 F12 Ø102 Ø125	27	Ø 14	Ø12	1040	1200	Ø139.8	Ø 125	Ø134.7	Ø127.2
6"	150	342	175	47	500	F10 F12 Ø102 Ø125	27	Ø 14	Ø12	1200	1500	Ø165.2	Ø 150	Ø161.5	Ø 154



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PARTS		QTY	MATERIAL	
			31K	31K-C
1	BODY	1	ASTM-A351-CF8M	ASTM-A216-WCB
2	CAP	2	ASTM-A351-CF8M	ASTM-A216-WCB
3	BALL	1	ASTM-A351-CF8M	
4	BALL SEAT	2	15% - R-PTFE	
5	JOINT GASKET	2	PTFE	
6	STEM	1	ASTM-A351-CF8M	
7	THRUST WASHER	1	15% R-PTFE	
8	STEM PACKING	2	15% R- PTFE	
9	HIGH WASHER	1	ASTM-A351-CF8	
10	BELLEVILLE WASHER	2	ASTM-A351-CF8	
11	STEM NUT	2	ASTM-A351-CF8	
12	O-RING	1	VITON	
13	BOLT	1/4" ~ 2" x 4	2-1/2" ~ 4" x 6	ASTM-A351-CF8
14	SPRING WASHER	1/4" ~ 2" x 4	2-1/2" ~ 4" x 6	ASTM-A351-CF8
15	HEX NUT	1/4" ~ 2" x 4	2-1/2" ~ 4" x 6	ASTM-A351-CF8
16	STOPPER	1	ASTM-A351-CF8	
17	HANDLE	1	ASTM-A351-CF8	
18	HANDLE SLEEVE	1	PLASTIC (VINIL GRIP)	
19	STOPPER PIN	1	ASTM-A351-CF8	
20	LOCK WASHER	1	ASTM-A351-CF8	

3-PIECE BALL VALVE
 INVESTMENT CASTING BODY & CAP DIRECT MOUNTING PAD
 ASTM A 351 - CF8M (DIN 1.4408)
 ASTM A 351 - CF8 (DIN 1.4301)
 ASTM A 216 - WCB (DIN 1.0619)

33K TYPE

FIRE SAFE DESIGN

FEATURES:

- PIPE THREAD IN ACCORDANCE WITH:
- * ANSI B2.1 (BASIC STD FOR STEEL PIPE THREADS)
- * ANSI B1.20 (NPTF)
- * BS21:1973
- * DIN259/2999
- * ISO228
- BLOW-OUT PROOF STEM
- 2000 PSI OR 3000PSI (W.O.G)- LUG BODY
- FIRE-SAFE DESIGN
- STANDARD PORT
- LUG BODY
- DIRECT MOUNTING PAD ISO 5211
- LOCKING DEVICE
- MATERIAL TRACEABILITY

NOMINAL SIZE	A	ØB	ØC	d	S	H	L	ISO 5211 Pcd Ø1	W	Cv Factor	Torque Kgf-cm
1/4"	20.8	18	12	8	14.1	49	66.2	F03 Ø36	116	4.5	40
3/8"	20.8	18	14	11.5	17.6	49	66.2	F03 Ø36	116	6.6	40
1/2"	20.8	22	17.1	12.7	21.7	49	66.2	F03 Ø36	116	7.9	40
3/4"	24.8	27	22.5	15	27.2	53	71.5	F03 Ø36	116	11.2	60
1"	32	33.5	28	20	33.9	63	96.8	F04 Ø42	150	21	78
1 - 1/4"	41.4	42	33.5	25.4	42.6	67	108.4	F04 Ø42	150	34	110
1 - 1/2"	48.5	48	43	32	48.7	77	116.5	F05 Ø50	181	57	155
2"	56.5	60	53	38	61.1	85	128.5	F05 Ø50	181	80	220

PARTS	QTY	MATERIAL	
		31K	31K-C
1 BODY	1	ASTM-A351-CF8M	ASTM-A216-WCB
2 CAP	1	ASTM-A351-CF8M	ASTM-A216-WCB
3 BALL	1	ASTM-A351-CF8M	ASTM-A351-CF8
4 BALL SEATS	2	15% - R-PTFE	
5 JOINT GASKET	1	PTFE	
6 STEM	1	ASTM-A351-CF8M	
7 THRUST WASHER	1	PTFE	
8 STEM PACKING	2	PTFE	
9 STEM BUSHING	1	ASTM-A351-CF8	
10 BELLEVILLE WASHER	2	ASTM-A351-CF8	
11 STEM NUT	1	ASTM-A351-CF8	
12 HANDLE	1	ASTM-A351-CF8	
13 HANDLE SLEEVE	1	PLASTIC (VINYL GRIP)	
14 HANDLE NUT	1	ASTM-A351-CF8	
15 BODY BOLT	8	ASTM-A351-CF8	

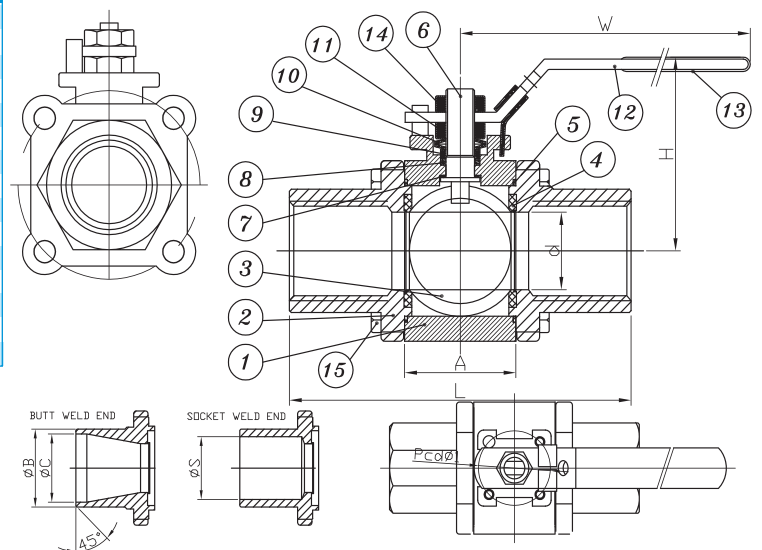
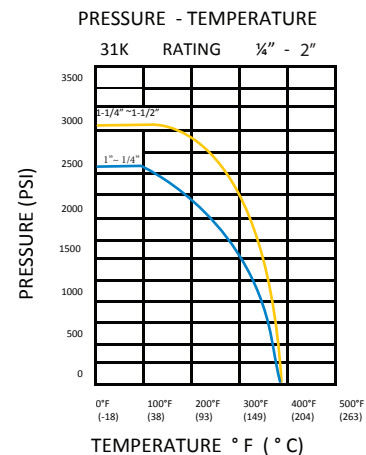


SIZE: 1/4" - 2"
 SCREWED / BUTT &
 SOCKETWELD END

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HOW TO ORDER

BODY MATERIAL SIZE END CONNECTIONS
 33K F3T



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SIZE: **1/2" – 10"**
FULL PORT

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HOW TO ORDER

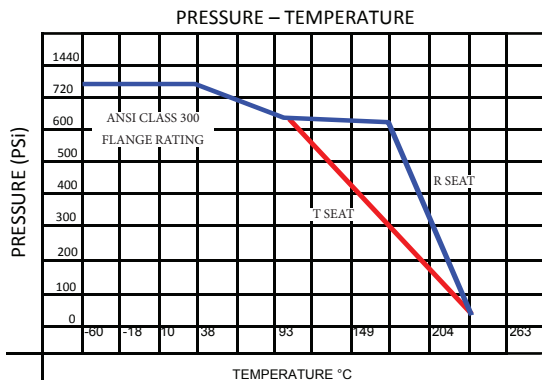
BODY MATERIAL
FBV F3

2- PIECE FLANGED BALL VALVE
ANSI 300# / FLANGED END

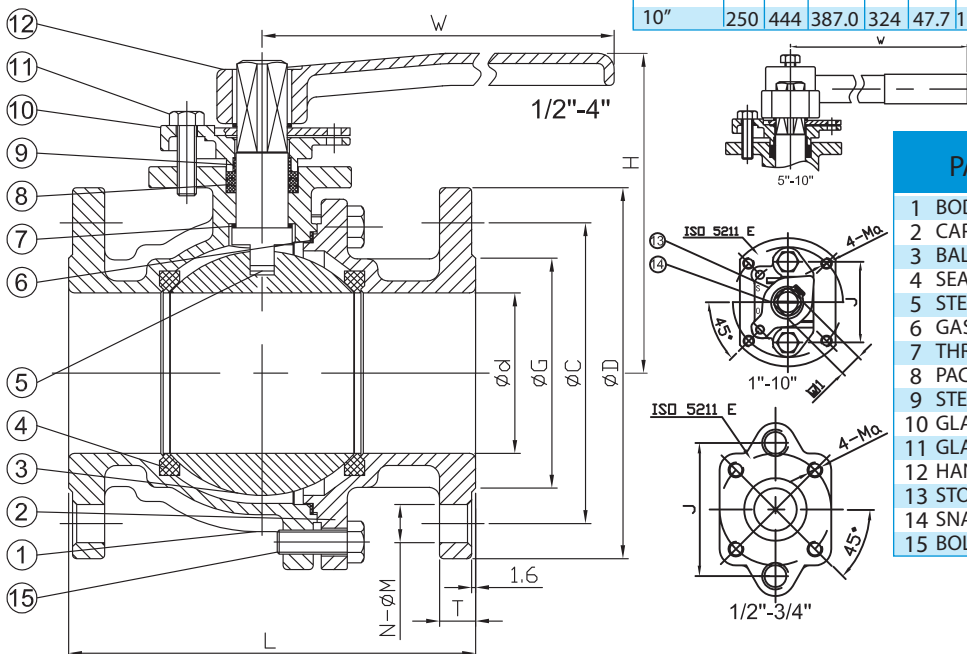
FBV TYPE

FEATURES:

- FACE TO FACE DIMENSION:
*ANSI B16.10
- END FLANGE DIMENSION:
*ANSI B16.5
- DESIGN:
*ANSI B16.34
- TEST:
*API 598
- WITH ISO 5211 MOUNTING PAD
- INVESTMENT CASTING BODY
- BLOW-OUT PROOF STEM
- LEVER OPERATED OR GEAR OPERATED
- MATERIAL TRACEABILITY
- MATERIALS: ASTM A351-CF8M / A 351-CF8
ASTM A216Gr-WCB



NOMINAL SIZE	d	D	C	G	T	N-øM	L	H	W	W1	J	ISO 5211	E	Ma
1/2"	15	95	66.5	35	14.3	4-ø16	140	140	160	12	50	F04	42	M5
3/4"	20	117	82.5	43	15.9	4-ø19	152	152	160	12	50	F04	42	M5
1"	25	124	89.0	51	17.5	4-ø19	165	165	160	12	50	F05	50	M6
1 1/4"	32	133	98.5	64	19.1	4-ø19	178	178	160	12	50	F05	50	M6
1 1/2"	40	156	114.5	73	20.7	4-ø22	190	190	186	17	62	F07	70	M8
2"	50	165	127.0	92	22.3	8-ø19	216	216	186	17	62	F07	70	M8
2 1/2"	65	190	149.0	105	25.4	8-ø22	241	241	324	21	75	F07	70	M8
3"	80	210	168.0	127	28.6	8-ø22	283	283	324	21	75	F10	102	M10
4"	100	254	200.0	157	31.8	8-ø22	305	305	324	21	75	F10	102	M10
5"	125	279	235.0	186	35.0	8-ø22	381	381	750	24	89	F12	125	M12
6"	150	318	270.0	216	36.6	12-ø22	403	403	750	24	89	F12	125	M12
8"	200	381	330.0	270	41.3	12-ø25	502	502	1000	32	100	F12	125	M12
10"	250	444	387.0	324	47.7	12-ø29	568	568	1000	32	100	F14	140	M16

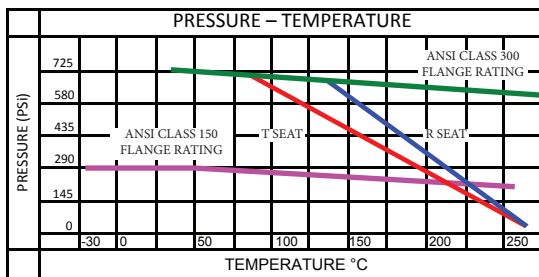


PARTS	MATERIAL		
1 BODY	WCB	CF8	CF8M
2 CAP	WCB	CF8	CF8M
3 BALL	WCB	CF8	CF8M
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 STEM PACKING		PTFE	
10 GLAND		CF8	
11 GLAND BOLT	B7	SUS304	SUS304
12 HANDLE		WCB	
13 STOPPER		SUS304	
14 SNAP		SUS304	
15 BOLT	B7	SUS304	SUS304

FBV TYPE

FEATURES:

- FULL PORT
- FACE TO FACE DIMENSION:
*ANSI B16.10
- END FLANGE DIMENSION:
*ANSI B16.5
- TEST:
*API 598
- WITH ISO 5211 MOUNTING PAD
- INVESTMENT CASTING BODY
- BLOW-OUT PROOF STEM
- MATERIAL TRACEABILITY
- MATERIAL:
*A216 Gr-WCB / A351Gr-CF8 / A351Gr-CF8M
- 2-1/2" – 4" SOLID BALL OR HOLLOW BALL



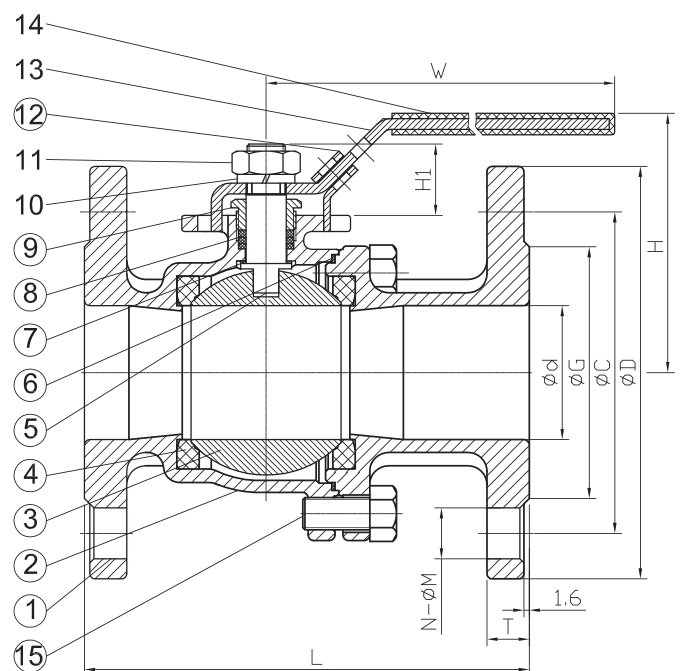
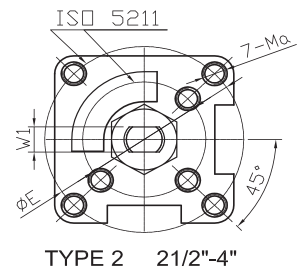
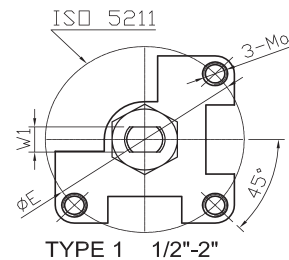
PARTS		MATERIAL			
1	BODY	WCB	CF8	CF8M	
2	CAP	WCB	CF8	CF8M	
3	BALL	WCB	CF8	CF8M	
4	SEAT		PTFE		
5	STEM	SUS304	SUS304	SUS316	
6	GASKET		PTFE		
7	THRUST WASHER		PTFE		
8	PACKING		PTFE		
9	GLAND		SUS304		
10	SPRING WASHER		SUS304		
11	STEM NUT		SUS304		
12	LOCKING DEVICE		SUS304		
13	HANDLE		SUS304		
14	PLASTIC COVER		PLASTIC		
15	BOLT		SUS304		



HOW TO ORDER

BODY MATERIAL
FBV F1

SIZE

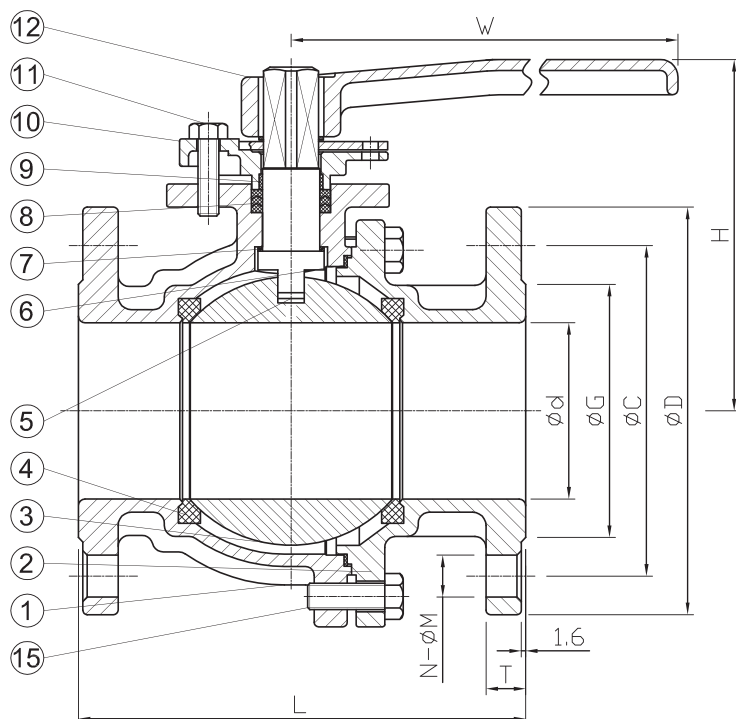
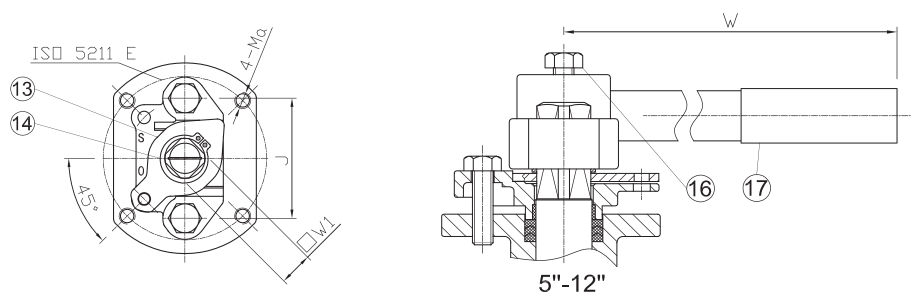


SIZE: 1/2" – 4"

NOMINAL SIZE	d	D	C	G	T	N-øM	L	H	H1	W	W1	ISO 5211	E	Ma
1/2"	15	89	60.5	35	12.1	4-ø16	108	72	16.5	123	6.5	F03	36	M5
3/4"	20	98	70.0	43	12.1	4-ø16	117	76	16.5	123	6.5	F03	36	M5
1"	25	108	79.5	51	12.1	4-ø16	127	92	23.5	183	9.5	F04	42	M5
1 1/4"	32	117	89.5	64	12.7	4-ø16	140	95	21.0	153	8.0	F04	42	M5
1 1/2"	40	127	98.5	73	14.3	4-ø16	165	125	37.5	246	12	F07	70	M8
2"	50	152	120.5	92	15.9	4-ø19	178	132	37.5	246	12	F07	70	M8
2 1/2"	65	178	139.5	105	17.5	4-ø19	190	166	47.0	285	16	F07-F10	70-102	M10
3"	80	190	152.5	127	19.1	4-ø19	203	176	47.0	285	16	F07-F10	70-102	M10
4"	100	229	190.5	157	23.9	8-ø19	229	189	47.0	385	16	F07-F10	70-102	M10

SIZE: 5" – 12"

NOMINAL SIZE	d	D	C	G	T FC	SUS	N-øM	L	H	W	W1	J	ISO 5211	E	Ma
5 "	125	254	216.0	186	23.9	23.9	8-ø22	356	224	750	24	89	F12	125	M12
6"	150	279	241	216	25.4	25.4	8-ø22	394	247	750	24	89	F12	125	M12
8"	200	343	298.5	270	28.6	28.6	8-ø22	457	305	1000	32	100	F12	125	M12
10"	250	406	362.0	324	30.2	30.2	12-ø25	533	327	1000	32	100	F14	140	M16
12"	300	483	432.0	381	31.8	31.8	12-ø25	610	355	1000	32	100	F14	140	M16



PARTS	MATERIAL		
1 BODY	WCB	CF8	CF8M
2 CAP	WCB	CF8	CF8M
3 BALL	WCB	CF8	CF8M
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 GLAND		SUS304	
10 SPRING WASHER		SUS304	
11 STEM NUT		SUS304	
12 LOCKING DEVICE		SUS304	
13 HANDLE		SUS304	
14 PLASTIC COVER		PLASTIC	
15 BOLT		SUS304	

FBV TYPE

FEATURES:

-FACE TO FACE DIMENSION:

*DIN 3202-F4

-END FLANGE DIMENSION:

*PN40 DIN 2633

-TEST:

*EN 12266-1

-WITH ISO 5211 MOUNTING PAD

-INVESTMENT CASTING BODY

-BLOW-OUT PROOF STEM

-LEVER OPERATED

-MATERIAL TRACEABILITY

MATERIALS:

*CARBON STEEL (1.0619) / STAINLESS STEEL

(304/1.4308) / STAINLESS STEEL (316/1.4408)

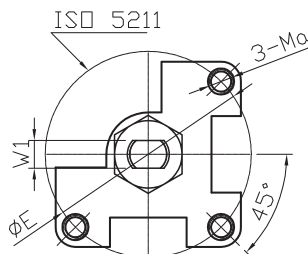
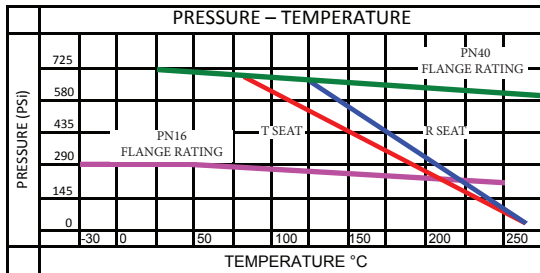


SIZE: DN15 – DN300
FULL PORT

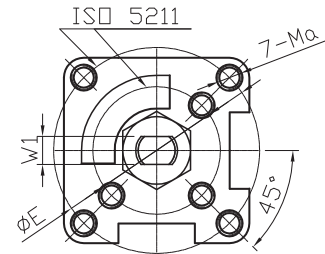
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HOW TO ORDER

BODY MATERIAL SIZE PN
FBV - -

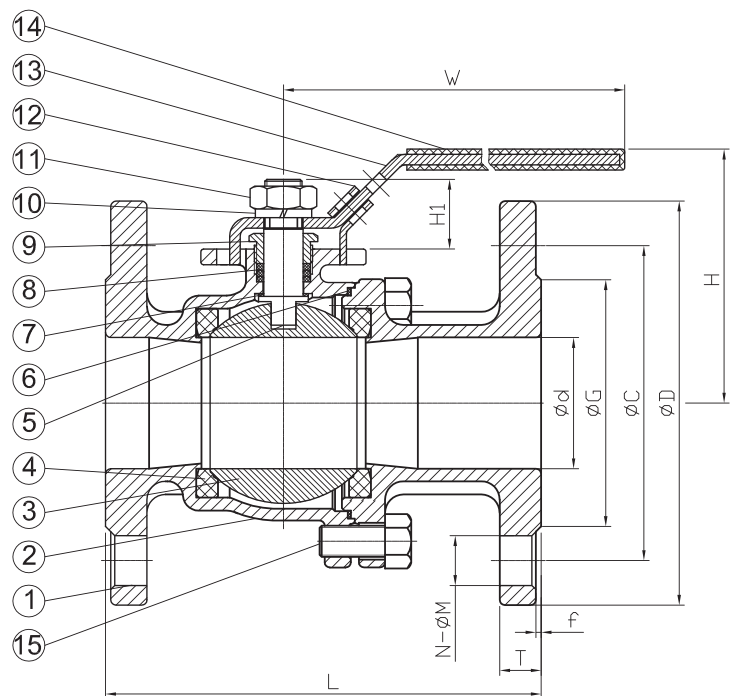


TYPE 1 DN15-DN50



TYPE 2 DN65-DN100

PARTS	MATERIAL		
1 BODY	1.0619	1.4308	1.4408
2 CAP	1.0619	1.4308	1.4408
3 BALL	1.4308	1.4308	1.4408
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 GLAND		SUS304	
10 SPRING WASHER		SUS304	
11 STEM NUT		SUS304	
12 LOCKING DEVICE		SUS304	
13 HANDLE		SUS304	
14 PLASTIC COVER		PLASTIC	
15 BOLT		SUS304	

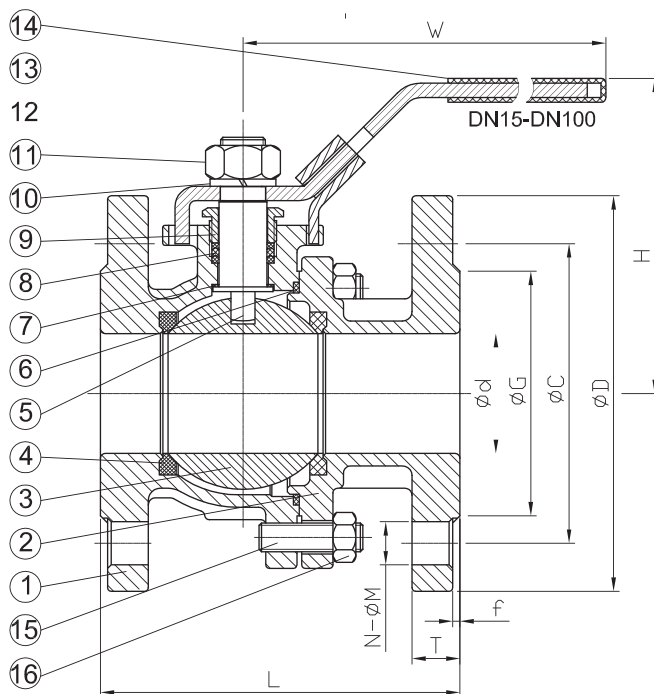
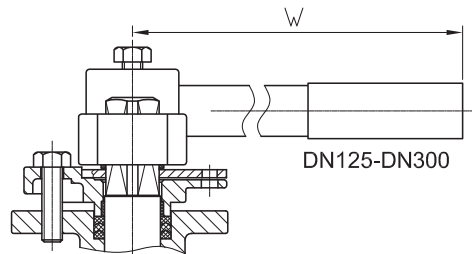
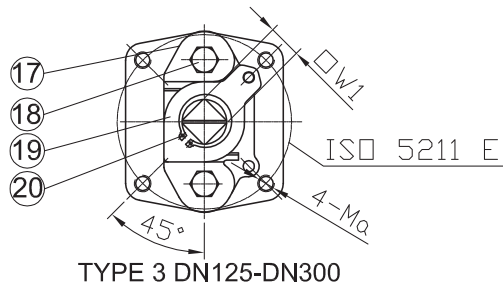


SIZE: DN15- DN100

NOMINAL SIZE	d	D	C	G	F	T	N-øM	L	H	H1	W	ISO 5211	E	Ma
15	15	95	65	45	2	16	4-ø14	115	72	16.5	123	F03	36	M5
20	20	105	75	58	2	18	4-ø14	120	76	16.5	123	F03	36	M5
25	25	115	85	68	2	18	4-ø14	125	92	21.0	153	F04	42	M5
32	32	140	100	78	2	18	4-ø18	130	95	23.5	183	F04	42	M5
40	40	150	110	88	3	18	4-ø18	140	125	37.5	246	F07	70	M8
50	50	165	125	102	3	18	4-ø18	150	132	37.5	246	F07	70	M8
65	65	185	145	122	3	20	4-ø18	170	166	47.0	285	F07-F10	70-102	M10
80	80	200	160	138	3	20	8-ø18	180	176	47.0	285	F07-F10	70-102	M10
100	100	220	180	158	3	20	8-ø18	190	189	47.0	385	F07-F10	70-102	M10

SIZE: DN125- DN300

NOMINAL SIZE	d	D	C	G	F	T	N-øM	L	H	W	W1	ISO 5211	E	Ma
125	125	250	210	188	3	22	8-ø18	325	224	750	24	F12	125	M12
150	150	285	240	212	3	22	8-ø22	350	247	750	24	F12	125	M12
200	200	340	295	268	3	24	12-ø22	400	305	1000	32	F12	125	M12
250	250	405	355	320	3	26	12-ø26	450	327	1000	32	F14	140	M16
300	300	460	410	378	4	28	16-ø26	500	355	1000	32	F14	140	M16



PARTS	MATERIAL		
1 BODY	1.0619	1.4308	1.4408
2 CAP	1.0619	1.4308	1.4408
3 BALL	1.4308	1.4308	1.4408
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 GLAND		SUS304	
10 SPRING WASHER		SUS304	
11 STEM NUT		SUS304	
12 LOCKING DEVICE		SUS304	
13 HANDLE		SUS304	
14 PLASTIC COVER		PLASTIC	
15 BOLT		SUS304	
16 NUT		SUS304	
17 GLAND		1.4308	
18 GLAND BOLT		SUS304	
19 STOPPER		SUS304	
20 SNAP RING		SUS304	

2- PIECE FLANGED BALL VALVE
DIN PN40 FLANGED END

FBV TYPE

FEATURES:

-FACE TO FACE DIMENSION:

*DIN 3202-F4

-END FLANGE DIMENSION:

*PN40, DIN 2635

-TEST:

*EN 12266-1

-ANTI-STATIC DEVICE, FIRE SAFE DESIGN

-WITH ISO 5211 MOUNTING PAD

-INVESTMENT CASTING BODY

-BLOW-OUT PROOF STEM

-LEVER OPERATED

-MATERIAL TRACEABILITY

MATERIALS:

*CARBON STEEL (1.0619) / STAINLESS STEEL

(304/1.4308) / STAINLESS STEEL (316/1.4408)

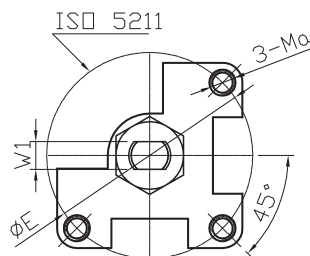
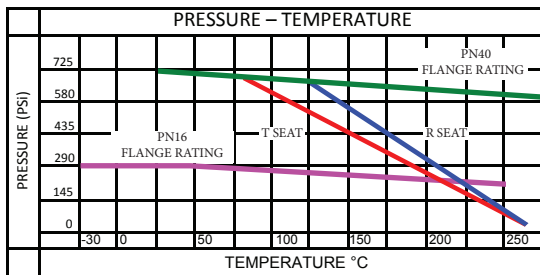


SIZE: DN15 – DN100
FULL PORT

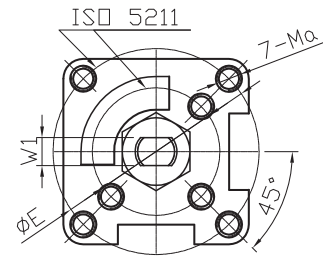
CE APPROVED

HOW TO ORDER

BODY MATERIAL SIZE PN
FBV - -

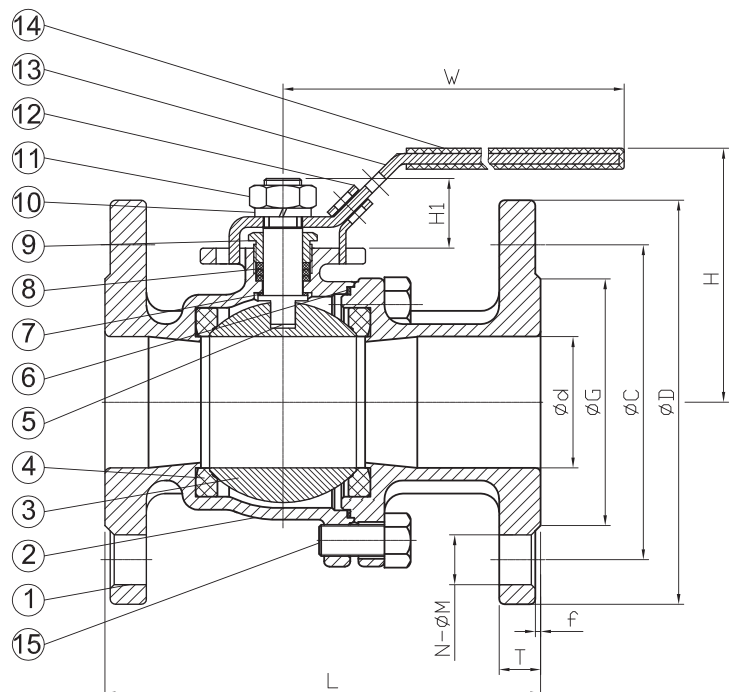


TYPE 1 DN15-DN50



TYPE 2 DN65-DN100

PARTS	MATERIAL		
1 BODY	1.0619	1.4308	1.4408
2 CAP	1.0619	1.4308	1.4408
3 BALL	1.4308	1.4308	1.4408
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 GLAND		SUS304	
10 SPRING WASHER		SUS304	
11 STEM NUT		SUS304	
12 LOCKING DEVICE		SUS304	
13 HANDLE		SUS304	
14 PLASTIC COVER		PLASTIC	
15 BOLT		SUS304	



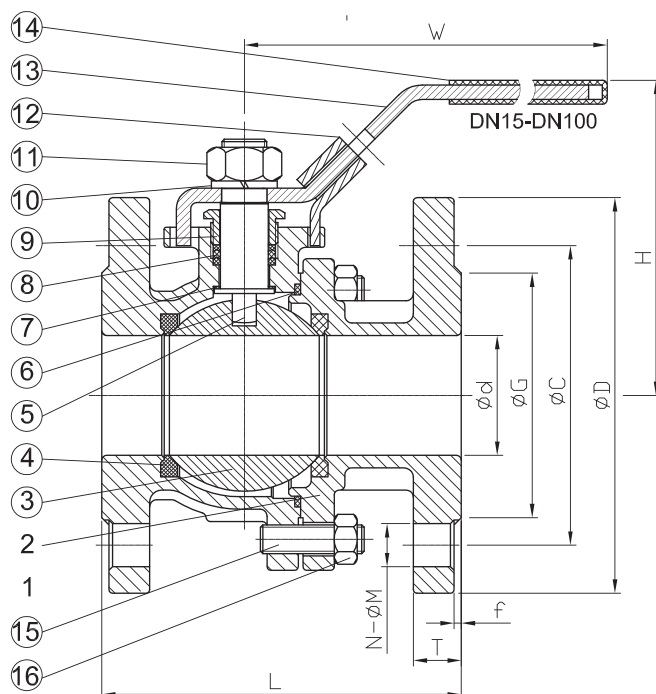
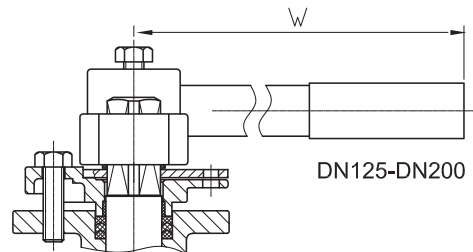
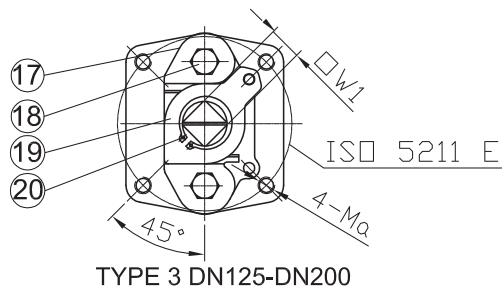
MORRIS VALVES
BEYOND THE WORLD, ONE PRODUCT AT A TIME

SIZE: DN15- DN100

NOMINAL SIZE	d	D	C	G	F	T	N-øM	L	H	H1	W	ISO 5211	E	Ma
15	15	95	65	45	2	16	4-ø14	115	72	16.5	123	F03	36	M5
20	20	105	75	58	2	18	4-ø14	120	76	16.5	123	F03	36	M5
25	25	115	85	68	2	18	4-ø14	125	92	21.0	153	F04	42	M5
32	32	140	100	78	2	18	4-ø18	130	95	23.5	183	F04	42	M5
40	40	150	110	88	3	18	4-ø18	140	125	37.5	246	F07	70	M8
50	50	165	125	102	3	18	4-ø18	150	132	37.5	246	F07	70	M8
65	65	185	145	122	3	20	4-ø18	170	166	47.0	285	F07-F10	70-102	M10
80	80	200	160	138	3	20	8-ø18	180	176	47.0	285	F07-F10	70-102	M10
100	100	220	180	158	3	20	8-ø18	190	189	47.0	385	F07-F10	70-102	M10

SIZE: DN125- DN200

NOMINAL SIZE	d	D	C	G	F	T	N-øM	L	H	W	W1	ISO 5211	E	Ma
125	125	250	210	188	3	22	8-ø18	325	224	750	24	F12	125	M12
150	150	285	240	212	3	22	8-ø22	350	247	750	24	F12	125	M12
200	200	340	295	268	3	24	12-ø22	400	305	1000	32	F12	125	M12



PARTS	MATERIAL		
1 BODY	1.0619	1.4308	1.4408
2 CAP	1.0619	1.4308	1.4408
3 BALL	1.4308	1.4308	1.4408
4 SEAT		PTFE	
5 STEM	SUS304	SUS304	SUS316
6 GASKET		PTFE	
7 THRUST WASHER		PTFE	
8 PACKING		PTFE	
9 GLAND		SUS304	
10 SPRING WASHER		SUS304	
11 STEM NUT		SUS304	
12 LOCKING DEVICE		SUS304	
13 HANDLE		SUS304	
14 PLASTIC COVER		PLASTIC	
15 BOLT		SUS304	
16 NUT		SUS304	
17 GLAND		1.4308	
18 GLAND BOLT		SUS304	
19 STOPPER		SUS304	
20 SNAP RING		SUS304	

2- PIECE SWING CHECK VALVE
FLANGED END 150#, RF

FSCKV TYPE

FEATURES:

-FACE TO FACE DIMENSION:

*ANSI B16.10

-END FLANGE DIMENSION:

*ANSI B16.5

-MATERIAL TRACEABILITY

-MATERIALS:

*ASTM A351CF8M/A351-CF8

*ASTM A216 WCB

-BASIC DESIGN:

*AP16D & BS1868

-TEST STANDARD:

*API 598



SIZE: 2" - 24"

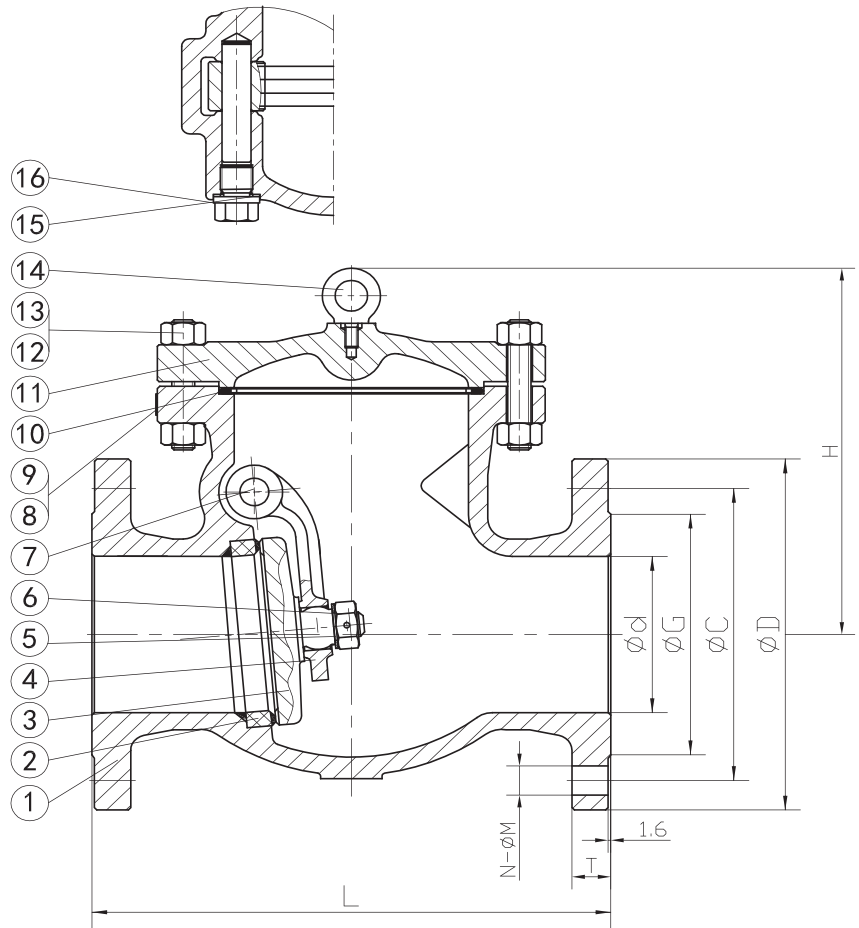
CE APPROVED

HOW TO ORDER

FSCKV BODY MATERIAL - SIZE F1

NOMINAL SIZE	d	L	H	D	C	G	T	N	M
2"	51	203	135	152	120.5	92	19	4	19
2 1/2"	64	216	155	178	139.5	105	22.5	4	19
3"	76	241	168	190	152.5	127	24	4	19
4"	102	292	235	229	190.5	157	24	8	19
5"	127	330	249	254	216	186	24	8	22
6"	152	356	277	279	241.5	216	26	8	22
8"	203	495	339	343	298.5	270	29	8	22
10"	254	622	398	406	362	324	31	12	25
12"	305	698	525	483	432	381	32	12	25
14"	337	787	553	533	476	413	35	12	29
16"	387	864	584	597	540	470	37	16	29
18"	438	978	668	635	578	533	40	16	32
20"	489	978	712	699	635	584	43	20	32
24"	591	1295	740	813	749.5	692	48	20	35

PARTS	MATERIAL
1 BODY	WCB
2 SEAT	A105+HF
3 DISC	WCB+F6
4 HINGE	WCB
5 GASKET	A276 410
6 NUT	A276 410
7 PIN	A276 410
8 RIVET	304
9 NAME PLATE	304
10 GASKET	304+FLEXIBLE GRAPHITE
11 BONNET	WCB
12 BOLT	A193 B7
13 NUT	A194 2h
14 EYEBOLT	A29 1035
15 GASKET	1008
16 PLUG	A276 410



MORRIS VALVES
BETWEEN THE WORLD'S TWO PROJECTS OF A YEAR



DUAL PLATE, WAFER STYLE, CHECK VALVE
(ASTM A351 CF8M/CF8)

DCKV-TYPE

SIZE: **DN40 – DN600** **CE** APPROVED

HOW TO ORDER

BODY MATERIAL SIZE RATING
DCKV - -

FEATURES:

-INVESTMENT CASTING:

-SIZE:

*DN40-DN600

-PRESSURE:

*DINPN16/PN40 (ANSI150/300#)

-MATERIAL TRACEABILITY

-MATERIAL:

*ASTM-A351 CF8M/CF8

-BODY & PLATE:

*ASTM-A351 CF8M/CF8

-SEAT:

* NBR, EPDM, VITON,

Metal to Metal

-DESIGN:

* API 594 Dual Plate,

Wafer Style

FACE - FACE:

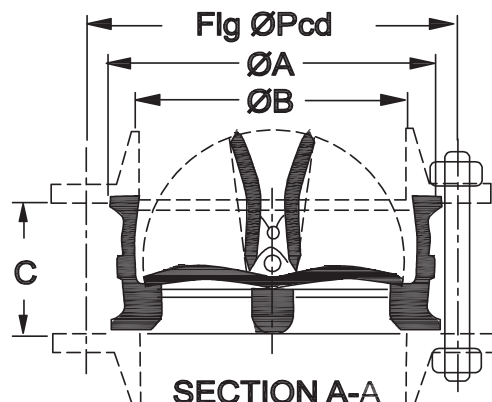
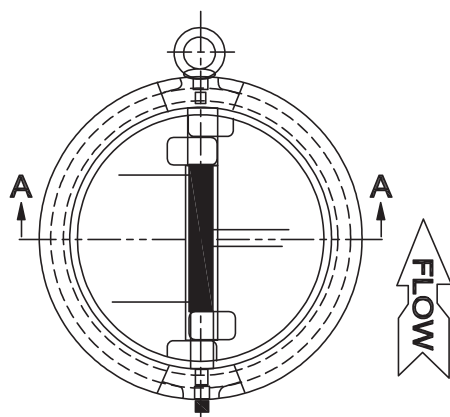
* API-549/API-6D

-INSPECTION:

* API-598/ASME-B16.34

-SULT FLANGED FOR:

* ISO-7005-1



SIZE	End Facing	Pressure Rating	Ø A mm	Ø B mm	Ø C mm	Weight (kgs)	Dia. Of Bolt Circle	Stud Selection stud	Stud Selection stud	Strd Length
DN40	RF	PN6	86		43	1.5	100.0	4	M12	110
	RF	PN10-16-25-40	92	60	43	1.5	110.0	4	M16	115
DN50	RF	PN6	96		60	2.5	110.0	4	M12	135
	RF	PN10-16-25-40	105	60	60	2.5	125.0	4	M16	140
DN65	RF	PN6	115		67	2.7	130.0	4	M12	140
	RF	PN10/16	124	73	67	2.7	145.0	8	M16	150
DN80	RF	PN25/40	124		67	2.7	145.0	8	M16	155
	RF	PN6	132		73	4.5	150.0	4	M16	145
DN100	RF	PN10/16	137	189	73	4.5	160.0	8	M16	155
	RF	PN25/40	137		73	4.5	160.0	8	M16	165
DN125	RF	PN6	146		73	8.0	170.0	4	M16	150
	RF	PN10/16	156	114	73	8.0	180.0	8	M16	160
DN150	RF	PN25/40	168		73	8.5	190.0	8	M20	165
	RF	PN6	181		86	10.0	200.0	8	M16	160
DN200	RF	PN10/16	187	141	86	10.0	210.0	8	M16	165
	RF	PN25/40	194		86	13.0	220.0	8	M24	180
DN250	RF	PN6	207		98	13.0	225.0	8	M16	175
	RF	PN10/16	217	168	98	13.0	240.0	8	M20	180
DN300	RF	PN25/40	224		98	23.0	250.0	8	M24	200
	RF	PN6	257		127	28.0	280.0	8	M16	210
DN350	RF	PN10	267		127	28.0	295.0	8	M20	18
	RF	PN16	267	219	127	28.0	295.0	12	M20	215
DN400	RF	PN25	276		127	28.0	310.0	12	M24	235
	RF/R-49	PN40	290		127	36.0	320.0	12	M27	270
DN450	RF	PN6	317		146	45.0	335.0	12	M16	230
	RF	PN10	330		146	45.0	350.0	12	M20	235
DN500	RF	PN16	330		146	45.0	355.0	12	M24	235
	RF	PN25	340	274	146	45.0	370.0	12	M27	260
DN600	RF/R-53	PN40	353		146	60.0	385.0	12	M30	305
	RF	PN6	367		181	68.0	395.0	12	M20	275
DN650	RF	PN10	375		181	68.0	400.0	12	M20	280
	RF	PN16	375	324	181	68.0	410.0	12	M24	280
DN700	RF	PN25	400		181	68.0	430.0	16	M27	300
	RF/R-57	PN40	417		181	86.0	540.0	16	M30	355
DN750	RF	PN6	10		184	95.0	445.0	12	M20	285
	RF	PN10	438		184	95.0	460.0	16	M20	290
DN800	RF	PN16	438		184	95.0	470.0	16	M24	290
	RF	PN25	457	356	184	95.0	490.0	16	M30	300
DN850	RF/R-61	PN40	474		222	170.0	510.0	16	M33	400
	RF	PN6	470		191	132.0	495.0	16	M24	285
DN900	RF	PN10	483		191	132.0	515.0	16	M27	295
	RF	PN16	495	406	191	132.0	525.0	16	M33	305
DN950	RF	PN25	507		191	132.0	550.0	16	M33	325
	RF/R-65	PN40	546		232	208.0	585.0	16	M36	425
DN1000	RF	PN6	528		203	147.0	550.0	16	M20	310
	RF	PN10	538		203	147.0	565.0	20	M24	325
DN1050	RF	PN16	545		203	147.0	585.0	20	M27	325
	RF	PN25	565	457	203	147.0	600.0	20	M33	325
DN1100	RF/R-69	PN40	571		264	296.0	610.0	20	M36	460
	RF	PN6	578		219	202.0	600.0	20	M20	335
DN1150	RF	PN10	592		219	202.0	620.0	20	M24	350
	RF	PN16	617	508	219	202.0	650.0	20	M30	350
DN1200	RF	PN25	625		219	202.0	660.0	20	M33	380
	RF/R-73	PN40	625		292	366.0	670.0	20	M39	495
DN1250	RF	PN6	679		222	265.0	705.0	20	M24	345
	RF	PN10	695		222	265.0	725.0	20	M27	360
DN1300	RF	PN16	731	610	222	265.0	770.0	20	M33	360
	RF	PN25	731		222	265.0	770.0	20	M36	395
DN1350	RF/R-77	PN40			318	529.0	795.0	20	M45	550

GLOBE VALVE
FLANGED END 150#, RF

FGLV TYPE

FEATURES:

-FACE TO FACE DIMENSIONS:

*ANSI B16.10

-END FLANGE DIMENSIONS:

*ANSI B16.5

-MATERIAL TRACEABILITY

-MATERIALS:

*ASTM A351CF8M/A351-CF8

*ASTM A-216 WCB

-BASIC DESIGN:

*BS 1873

-TEST STANDARD:

*API 598

NOMINAL SIZE	d	L	H	W	D	C	G	T	N	M
2"	51	203	341	200	152	120.5	92	19	4	19
2 1/2"	64	216	367	250	178	139.5	105	22.5	4	19
3"	76	241	375	250	190	152.5	127	24	4	19
4"	102	292	483	300	229	190.5	157	24	8	19
5"	127	356	537	300	254	216	186	24	8	22
6"	152	406	517	350	279	241.5	216	26	8	22
8"	203	495	590	400	343	298.5	270	29	8	22
10"	254	622	754	450	406	362	324	31	12	25
12"	305	698	941	640	483	432	381	32	12	25
14"	337	787	966	640	533	476	413	35	12	29
16"	387	914	1085	460*	597	540	470	37	16	29

PARTS	MATERIAL
1 BODE	WCB
2 SEAT	A105+HF
3 DISC	WCB+F6
4 THRUST PLATE	A276 430
5 DISC COVER	A276 410
6 STEM	A182 F6
7 GASKET	304+FLEXIBLE GRAPHITE
8 BONNET	WCB
9 BOLT	A193 B7
10 NUT	A194 2H
11 PIN	A29 1035
12 SPLIT PIN	A570 Gr.A
13 GLAND FLANGE	WCB
14 EYE BOLT	A193 B7
15 EYE NUT	A194 2H
16 STEM NUT	D-2
17 GASKET	A276 410
18 NUT	A29 1035
19 HANDWHEEL	60-40-18
20 SOREW	A29 1035
21 GLAND	A276 410
22 PACKING	STAINLESS STEEL
23 PACKING	WIRE FLEXIBLE GRAPHITE
24 DISTANCE RING	A276 410
25 BACK SEAT	A276 410
26 RIVET	304
27 NAME PLATE	304

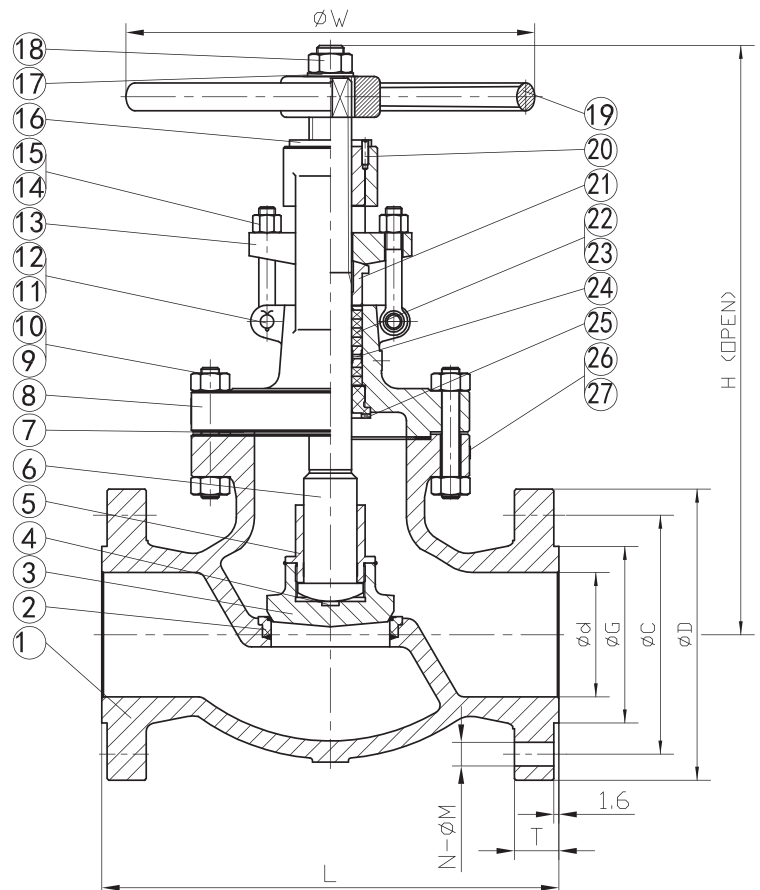
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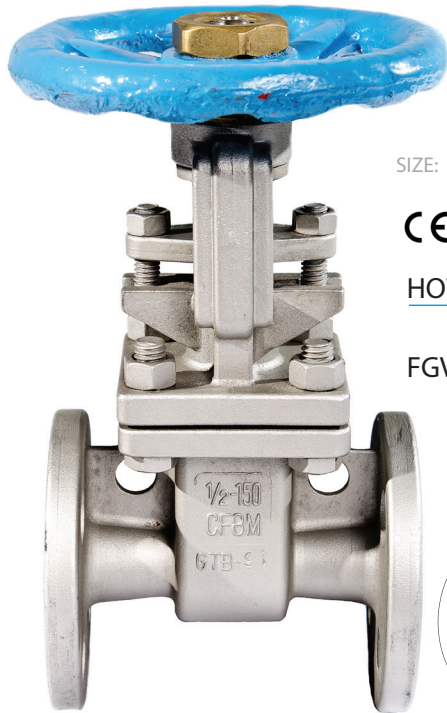


HOW TO ORDER

FGLV BODY MATERIAL - SIZE F1



FGV TYPE

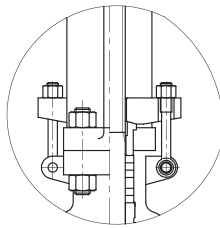


SIZE: 2" – 24"

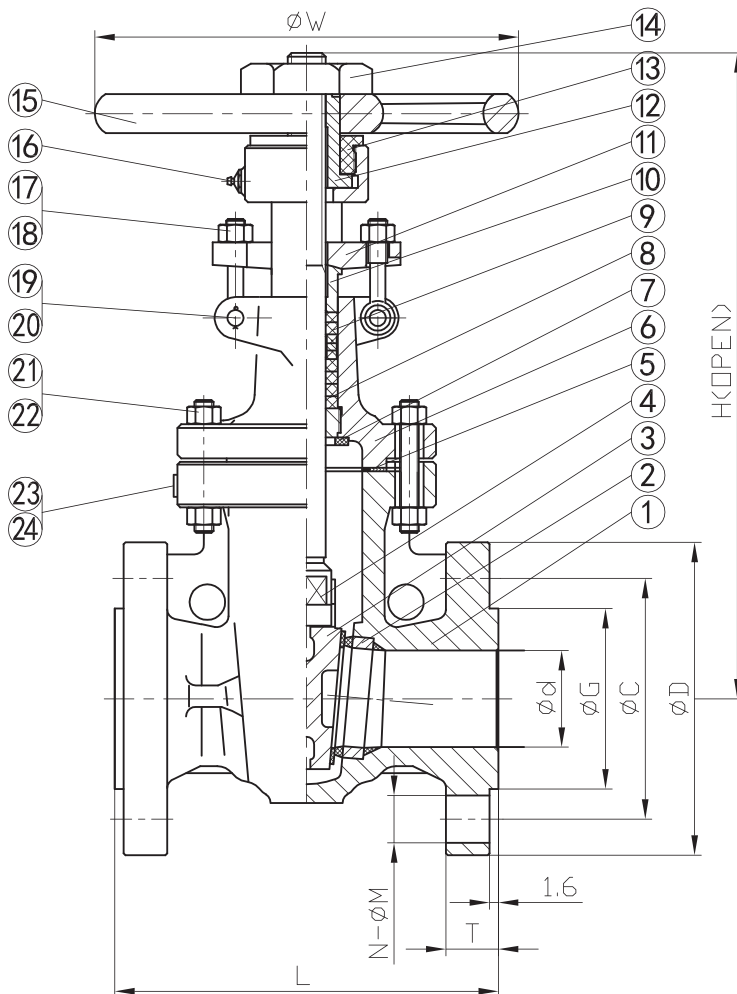
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HOW TO ORDER

BODY MATERIAL
FGV F1



14" & Larger



FEATURES:

- FACE TO FACE DIMENSION:
*ANSI B16.10
- END FLANGE DIMENSION:
*ANSI B16.5
- MATERIAL TRACEABILITY

-MATERIALS:

- *ASTM A351CF8M/
ASTM A351CF8)
- *(ASTM A216 WCB)
- DESIGN:
*ANSI B16.34/API 600
- TEST STANDARD:
*API 598

NOMINAL SIZE	d	L	H	W	D	C	G	T	N	M
2"	51	178	386	200	152	120.5	92	19	4	19
2 1/2"	64	190	435	200	178	139.5	105	22.5	4	19
3"	76	203	483	250	190	152.5	127	24	4	19
4"	102	229	587	250	229	190.5	157	24	8	19
5"	127	254	673	300	254	216	186	24	8	22
6"	152	267	767	300	279	241.5	216	26	8	22
8"	203	292	955	350	343	298.5	270	29	8	22
10"	254	330	1146	450	406	362	324	31	12	25
12"	305	356	1328	500	483	432	381	32	12	25
14"	337	381	1519	460*	533	476	413	35	12	29
16"	387	406	1721	460*	597	540	470	37	16	29
18"	438	432	1900	460*	635	578	533	40	16	32
20"	489	457	2116	610*	699	635	584	43	20	32
24"	591	508	2480	610*	813	749.5	692	48	20	35

*Manual gear operator is recommended

PARTS	MATERIAL
1 BODY	A216-WCB
2 SEAT	A105+H/F STL#6
3 WEDGE	A216-WCB+F6
4 STEM	A182 F8
5 GASKET	O8F+FLEXIBLE GRAPHITE
6 BONNET	A216-WCB
7 BACK SEAT	A276 410
8 PACKING	STAINLESS STEEL WIRE
9 PACKING	WITH FLEXIBLE GRAPHITE
10 GLAND	A276 410
11 GLAND FLANGE	A216-WCB
12 STEM NUT	D-2
13 LOCK NUT	1035
14 GLAND NUT	A29 1035
15 HANDWHEEL	60-40-18
16 OILFILLER	A570 Gr.A
17 EYE BOLT	A193 B7
18 EYE NUT	A194 2H
19 PIN	A29 1035
20 SPLIT PIN	A570 Gr. A
21 BOLT	A193 B7
22 NUT	A194 2H
23 RIVET	304
24 NAME PLATE	304



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