



FORGED STEEL & STAINLESS STEEL VALVES

150# - 2500# • Gate Globe Check



4E Valve U.S.A.



4E Valve is a Texas Corporation Company located in Stafford, TX. Since 1993, 4Excellent Quality, 4Extraordinary Service, 4Expediant Delivery and 4Extensive Inventory is what many Industries have counted on for over decades 4E Valve. Our World-Wide Distributor Network which will be there for anyone who represent a Reliable Source of 4E Valve Products.

For Excellent Quality, 4E's API Certified manufacturing facilities are dedicated to exceeding applicable API, ANSI, ASTM and other industry standards. Our products come with a vigilant quality assurance program and Liability Insurance. 4E monitors its products from scratch to finish. And Our commitment to quality does not end at our factories where all 4E valves are tested in accordance with API 598. 4E scrutinizes material test reports and maintains an MTR Data Base System. Furthermore, 4E valves are selected periodically to undergo full non-destructive and destructive testing in accordance with ASTM A703 and API 598 at an independent laboratory to insure product integrity.

For Extraordinary Service, our trained professionals are ready to provide immediate answers to your inquiries. 4E strives to quote within the hour of receiving large inquiries via email, fax or any means of communication.

For Expediant Delivery, 4E dispatches valves from stock within 24 hours after placement of order.

For Extensive Inventory, 4E maintains a significant inventory of valves in Houston, TX and our products are available from 4E distributors and agents in the the United States, North America and overseas.

4EXCELLENT
4EXTRAORDINARY
4EXPEDIANT
4EXTENSIVE

4E Forged Steel & Stainless Steel Brochure
Designed in the U.S.A. in April 2023



4E MANUFACTURER



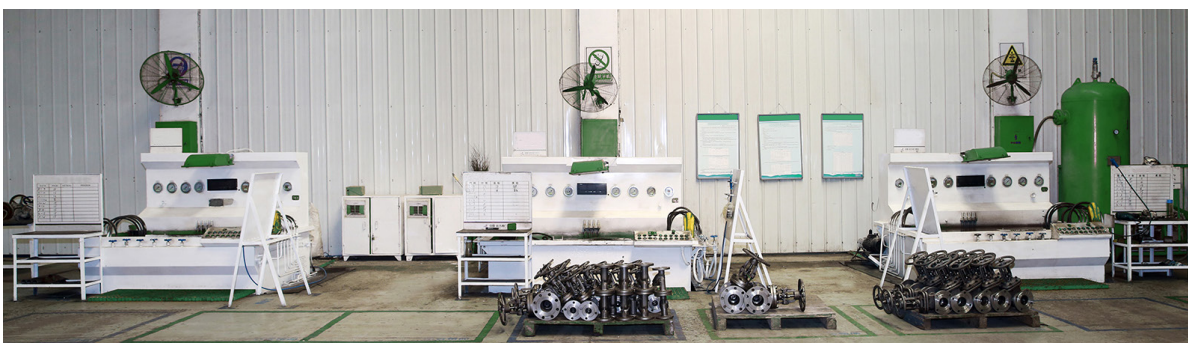
- a.
- b.
- c.
- d.

4E Manufacturer's

- a. Foundry
- b. Machining Center
- c. Testing Stations

4E U.S.A.

- d. 4E New Warehouse in Houston (2019)



STOCK IN THE U.S.A.

Houston Warehouse, Texas

6907 Brasada Dr., Suite B
Houston, TX 77085



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U.S.A.

4E API 602 FORGED STEEL A105 VALVES, SW & FNPT



800# GATE VALVE

IS 1/2" – 2", Trim 8
Socket Weld & FNPT
FIG.# 4E-18FG08S/T/ST



800# GLOBE VALVE

IS 1/2" – 2", Trim 8
Socket Weld & FNPT
FIG.# 4E-28FG08S/T/ST



800# SWING CHECK VALVE

IS 1/2" – 2", Trim 8
Socket Weld & FNPT
FIG.# 4E-38FG08S/T/ST



800# PISTON CHECK VALVE

IS 1/2" – 2", Trim 8
Socket Weld & FNPT
FIG.# 4E-58FG08S/T/ST

4E API 602 FORGED STAINLESS STEEL A182 F316L VALVES, SW & FNPT



800# GATE VALVE

IS 1/2" – 2", Trim 10
Socket Weld & FNPT
FIG.# 4E-18F1610S/T/ST



800# GLOBE VALVE

IS 1/2" – 2", Trim 10
Socket Weld & FNPT
FIG.# 4E-28F1610S/T/ST



800# SWING CHECK VALVE

IS 1/2" – 2", Trim 10
Socket Weld & FNPT
FIG.# 4E-38F1610S/T/ST



800# PISTON CHECK VALVE

IS 1/2" – 2", Trim 10
Socket Weld & FNPT
FIG.# 4E-58F1610S/T/ST

4E API 602 FORGED STEEL A105 VALVES, FLANGED



150# RF GATE VALVE

IS 1/2" – 2", Trim 8
Flanged
FIG.# 4E-11FG08F

Back Order Body Material available in LF2, LF3, F304, F304L & F316L;
Back Order Pressure available from Class 150 to 2500;

IS - IN STOCK
BO - BACK ORDER

How to Order



Please use 4E figure numbers to ensure accurate processing of your order. The figures show on this key covers basic features of 4E Valves. A detailed description must accompany any special orders.

I II III IV V
4E - 5 8 FG0 08 S **- 2"**

4E - 58FG008S - 2"

Example: 4E Piston Check Valve, 800#, A105 Forged Carbon Steel Body, API Trim 08, Socket Weld Connection

I	VALVE TYPE
1	OS&Y Gate Vave
2	Globe Valve
3	Swing Check Valve
5	Piston Check Valve

II	PRESSURE CLASS
1	Class 150
8	Class 800

III	BODY MATERIAL	
FG0	A105	Forged Carbon Steel
F16	A182	Forged 316/316L

IV	API TRIM				
#	MATERIAL	SEAT/ DISK		BACKSEAT	STEM
08	410 and Hardfaced	Stellite	410	410	410
10	316	316	316	316	316

V	END CONNECTION
S	Socket Weld
F	Threaded / FNPT
ST	One side Socket Weld, the another side Threaded/ FNPT
T	Raised Face Flanged



Class 800 Forged Steel Gate Valve

FIG.# 4E-18FG08S/T/ST

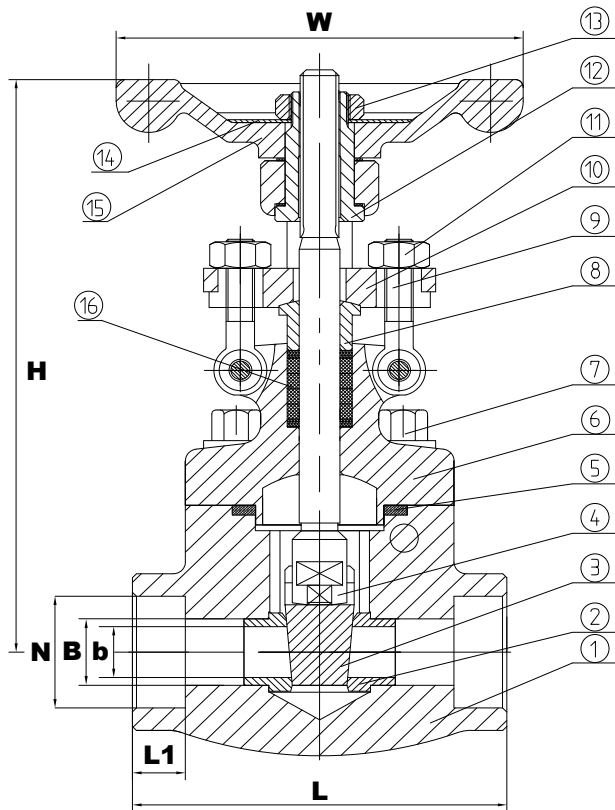
Class 800 to 2500, OS & Y, Bolted Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
	Backseat	15.4	
	Air	0.6	
Temperature: - 29°C (- 20°F) ~ 425°C (797°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598

MATERIAL LIST		
No.	Part Name	Material
1.	Body	ASTM A105N
2.	Seat Ring	ASTM A182 F6a+STL8#
3.	Wedge	ASTM A182 F6a
4.	Stem	ASTM A182 F6a
5.	Gasket	SS+Graphite
6.	Bonnet	ASTM A105N
7.	Hex. Bolt	ASTM A193 B7
8.	Gland	ASTM A182 F6a
9.	Gland Eyebolt	ASTM A193 B7
10.	Gland Flange	ASTM A105
11.	Gland Nut	ASTM A194 2H
12.	Yoke Nut	ASTM 1035
13.	H.W. Nut	ASTM A194 2H
14.	Nameplate	SS304
15.	Handwheel	A 197
16.	Packing	Flexible Graphite



DIMENSIONS & WEIGHT							
SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	4.72	5.51
	mm	79	92	111	120	120	140
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
b	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
B	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
H	inch	6.50	6.65	8.15	9.06	9.80	11.14
	mm	165	169	207	230	249	283
W	inch	3.78	3.78	4.72	6.14	6.14	7.01
	mm	96	96	120	156	156	178
Weight	LBS.	4.85	5.29	9.04	12.13	17.64	22.05
	Kgs.	2.2	2.4	4.1	5.5	8	10



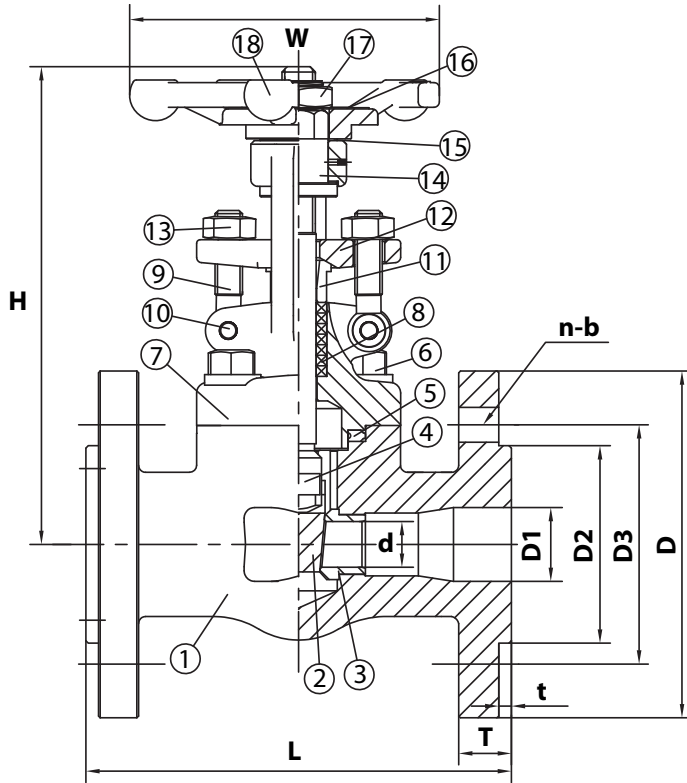
NOTE:

1. Due to the continuous development of our products, specifications subject to change without notice.
2. In Dimension & Weight (SW) figures are for Socket Weld Valves only.
3. Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

Class 150 Forged Steel RF Gate Valve **4E**[®]

FIG.# 4E-11FG08F

Class 150, RF, Bolted Bonnet, Trim 8, NACE MR- 0175 Compliance



STANDARDS COMPLIANCE:

Design and Manufacture	API 602 & ASME B16.34
Flange Dimensions	ASME B16.5
Face to Face Dimension	ASME B16.10
Test & Inspect	API 598

CLASS		150	
Test	Shell	3.0	MPa
	Backseat	2.2	
	High- Pressure Closure	/	
	Low- Pressure Closure	0.6	
Test Temperature: - 29°C (- 20°F) ~ 38°C (100.4°F)			
Medium: Water, Oil & Gas			

MATERIAL LIST

No.	Part Name	Material
1.	Body	ASTM A105N
2.	Wedge	ASTM A 276 410
3.	Seat Ring	ASTM A 276 410 + STL
4.	Stem	ASTM A 276 410
5.	Gasket	304 + Graphite
6.	Bonnet Bolt	ASTM A193 B7M
7.	Bonnet	ASTM A105N
8.	Packing	Graphite
9.	Gland Bolt	ASTM A193 B7M
10.	Gland Bolt Pin	ASTM A 276 304
11.	Gland	ASTM A 276 420
12.	Gland Flange	ASTM A105N
13.	Nut	ASTM A194 2HM
14.	Stem Nut	ASTM A 276 410
15.	Washer	ASTM A 276 410
16.	Name Plate	Aluminum
17.	Hand Wheel Nut	ASTM A108 1020
18.	Hand Wheel	ASTM A197

DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	4.25	4.61	5.00	5.51	6.50	7.01
	mm	108	117	127	140	165	178
d(o)	inch	0.39	0.49	0.71	0.94	1.14	1.44
	mm	10.0	12.5	18.0	24.0	29.0	36.5
D1(o)	inch	0.63	0.83	1.04	1.38	1.61	2.07
	mm	16.0	21.0	26.5	35.0	41.0	52.5
D2(o)	inch	1.37	1.69	2.00	2.50	2.87	3.63
	mm	34.9	42.9	50.8	63.5	73.0	92.1
D3(o)	inch	2.37	2.75	3.13	3.50	3.87	4.75
	mm	60.3	69.9	79.4	88.9	98.4	120.7
D(o)	inch	3.54	3.94	4.33	4.53	4.92	5.91
	mm	90.0	100.0	110.0	115.0	125.0	150.0
T	inch	0.41	0.43	0.47	0.53	0.59	0.65
	mm	10.3	11.0	12.0	13.5	15.0	16.6
t	inch	0.06	0.06	0.06	0.06	0.06	0.06
	mm	1.6	1.6	1.6	1.6	1.6	1.6
n - b	inch	4-(o)0.63	4-(o)0.63	4-(o)0.63	4-(o)0.63	4-(o)0.63	4-(o)0.75
	mm	4-(o)16	4-(o)16	4-(o)16	4-(o)16	4-(o)16	4-(o)19
H	inch	6.02	6.18	7.28	8.90	9.49	11.02
	mm	153.0	157.0	185.0	226.0	241.0	280.0
W	inch	3.94	3.94	4.72	6.30	6.30	8.66
	mm	100.0	100.0	120.0	160.0	160.0	220.0
Weight	lbs.	5.95	7.50	11.68	16.98	20.94	30.86
	Kgs.	2.7	3.4	5.3	7.7	9.5	14.0
Torque	NM	25.0	25.0	35.0	45.0	55.0	63.0



NOTE:

1. Due to continuous development of our products, all products, specifications and data are subject to change without prior notice or obligation.



Class 800 Forged Steel Globe Valve

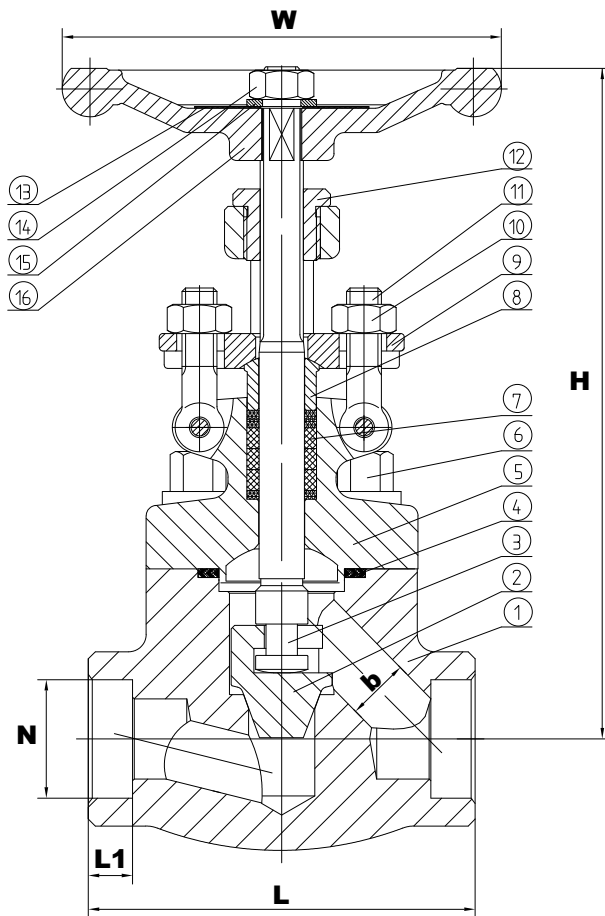
FIG.# 4E-28FG08S/T/ST

Class 800 to 2500, OS & Y, Bolted Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
	Backseat	15.4	
	Air	0.6	
Temperature: - 29°C (- 20°F) ~ 425°C (797°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598



MATERIAL LIST

No.	Part Name	Material
1.	Body	A105N+STL 6#
2.	Disc	A182 F6a
3.	Stem	A182 F6a
4.	Gasket	SS+Graphite
5.	Bonnet	A105N
6.	Hex. Bolt	A193 B7
7.	Packing	Flexible Graphite
8.	Gland	A276 410
9.	Gland Flange	A105
10.	Gland Nut	A194 2H
11.	Gland Eyebolt	A193 B7
12.	Yoke Nut	ASTM 1035
13.	Nameplate	SS304
14.	Bolt	CS
15.	Washer	Stainless Steel
16.	Handwheel	A197

DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	92	111	120	152	172
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
H	inch	6.69	6.77	8.15	8.98	10.63	12.60
	mm	170	172	207	228	270	320
W	inch	3.78	3.78	4.72	6.14	6.14	9.84
	mm	96	96	120	156	156	250
Weight	LBS.	4.85	5.29	9.04	12.13	19.84	30.86
	Kgs.	2.2	2.4	4.1	5.5	9	14

NOTE:

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2. In Dimension & Weight (SW) figures are for Socket Weld Valves only.
3. Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

Class 800 Forged Steel Swing Check Valve



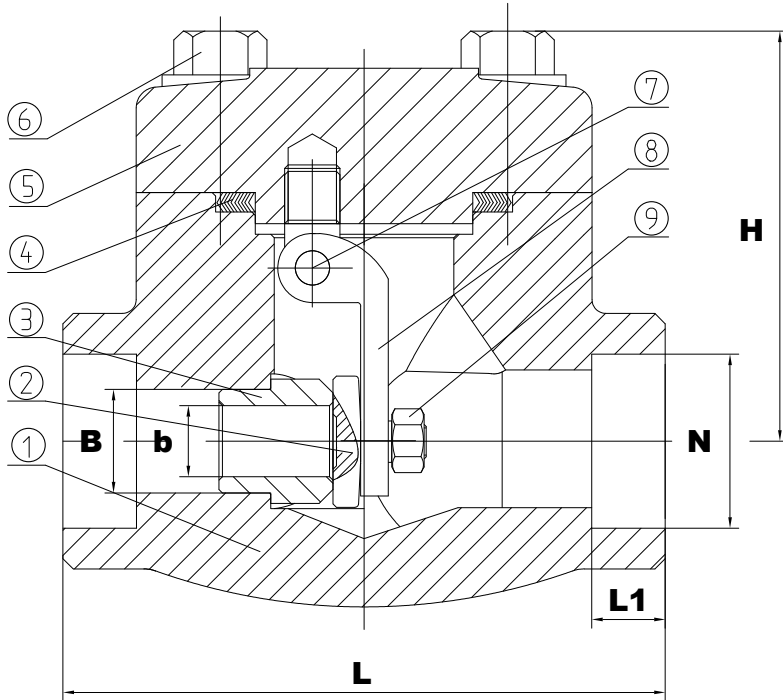
FIG.# 4E-38FG08S/T/ST

Class 800 to 2500, Swing Type, Bolted Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
Temperature: - 29°C (- 20°F) ~ 425°C (797°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598



MATERIAL LIST

No.	Part Name	Material
1.	Body	A105N
2.	Disc	A182 F6a+STL 6#
3.	Seat	A182 F6a
4.	Gasket	SS + Flexible Graphite
5.	Bonnet	A105N
6.	Bolt	A193 B7
7.	Pin	A276 410
8.	Hinge	SS 304
9.	Nut	A194 2H



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DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	4.72	5.51
	mm	79	92	111	120	120	140
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
b	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
B	inch	0.59	0.67	0.87	1.10	1.37	1.65
	mm	15	17	22	28	35	42
H	inch	2.60	2.63	3.23	3.43	4.17	4.84
	mm	66	67	82	87	106	123
Weight	LBS.	3.40	3.70	6.32	8.49	12.35	15.43
	Kgs.	1.54	1.68	2.87	3.85	5.6	7

4E[®] Class 800 Forged Steel Piston/Lift Check Valve

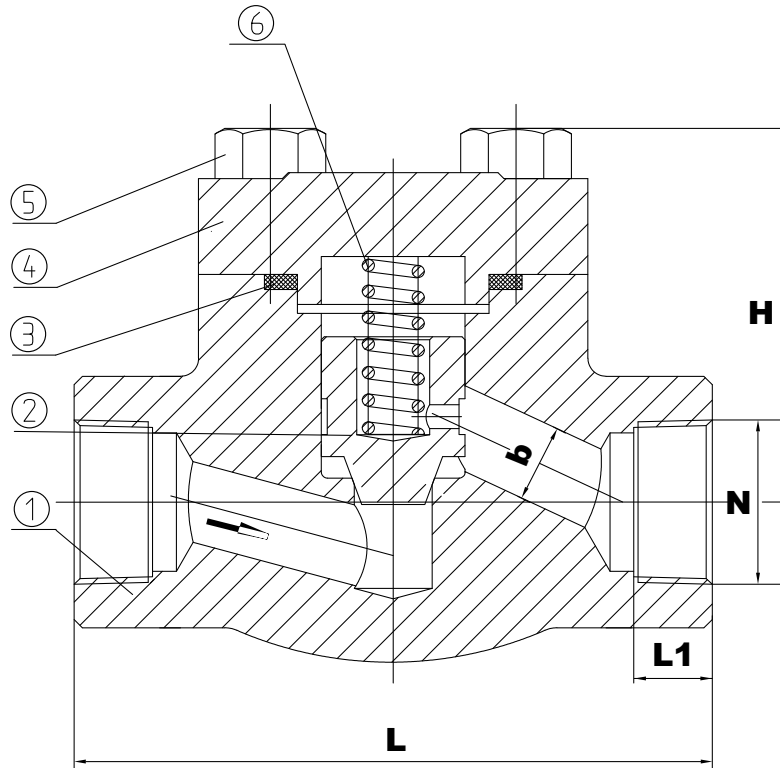
FIG.# 4E-58FG08S/T/ST

Class 800 to 2500, Piston/ Lift Type, Bolted Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
Temperature: - 29°C (- 20°F) ~ 425°C (797°F)			
Medium: Water, Oil & Gas			
Cracking Pressure: 3 Bar			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598



MATERIAL LIST

No.	Part Name	Material
1.	Body	A105N+STL 6#
2.	Disc	A182 F6a
3.	Gasket	SS + Flexible Graphite
4.	Cover	A105N
5.	Stud	A193 B7
6.	Spring	SS 304



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DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	92	111	120	152	172
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
b	inch	0.39	0.51	0.67	0.87	1.06	1.30
	mm	10	13	17	22	27	33
H	inch	2.44	2.48	3.07	3.23	4.02	4.72
	mm	62	63	78	82	102	120
Weight	LBS.	3.40	3.70	6.32	8.49	13.89	17.74
	Kgs.	1.54	1.68	2.87	3.85	6.3	8.05

Class 800 Forged Stainless Steel Gate Valve



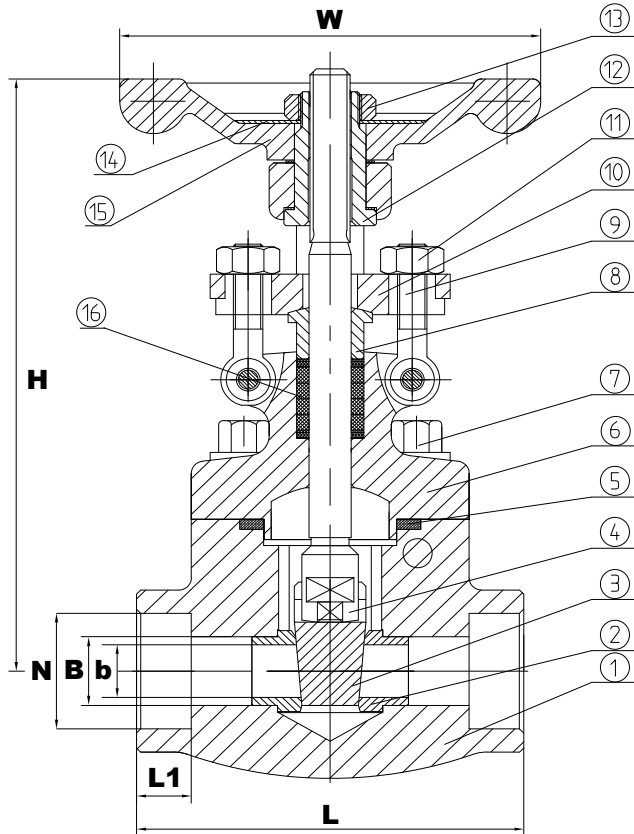
FIG.# 4E-18F1610S/T/ST

Class 800, OS & Y, Bolted Bonnet, ASTM A182/ F316L
 316L Body, Seat Ring, Stem and Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
	Backseat	15.4	
	Air	0.6	
Temperature: - 29°C (- 20°F) ~ 300°C (572°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598



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MATERIAL LIST

No.	Part Name	Material
1.	Body	ASTM A182 F316L
2.	Seat Ring	ASTM A182 F316L
3.	Wedge	ASTM A182 F316
4.	Stem	ASTM A182 F316L
5.	Gasket	SS+Graphite
6.	Bonnet	ASTM A182 F316L
7.	Hex. Bolt	ASTM A193 B8M
8.	Gland	ASTM A182 F316
9.	Gland Eyebolt	ASTM A193 B8M
10.	Gland Flange	ASTM A182 F316
11.	Gland Nut	ASTM A194 8M
12.	Yoke Nut	ASTM A276 410
13.	H.W. Nut	ASTM A194 2H
14.	Nameplate	AL
15.	Handwheel	A 197
16.	Packing	Flexible Graphite

DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	4.72	5.51
	mm	79	92	111	120	120	140
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
b	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
B	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
H	inch	6.50	6.65	8.15	9.06	9.80	11.14
	mm	165	169	207	230	249	283
W	inch	3.78	3.78	4.72	6.14	6.14	7.01
	mm	96	96	120	156	156	178
Weight	LBS.	4.85	5.29	9.04	12.13	17.64	22.05
	Kgs.	2.2	2.4	4.1	5.5	8	10



Class 800 Forged Stainless Steel Globe Valve

FIG.# 4E-28F1610S/T/ST

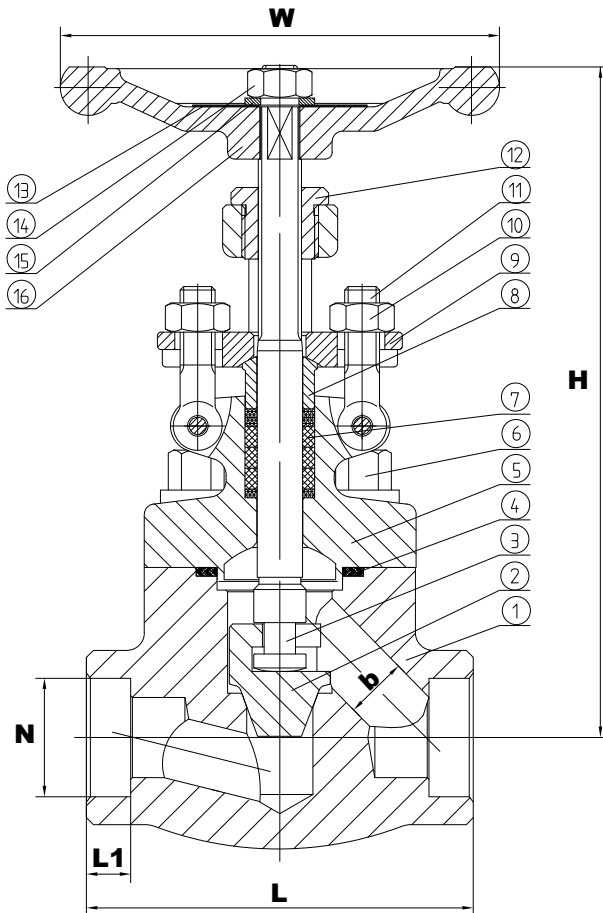
Class 800, Bolted Bonnet, ASTM A182/ F316L
 316L Body, Disc, Stem and Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
	Backseat	15.4	
	Air	0.6	
Temperature: - 29°C (- 20°F) ~ 300°C (572°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598

MATERIAL LIST		
No.	Part Name	Material
1.	Body	ASTM A182 F316L
2.	Disc	ASTM A182 F316L
3.	Stem	ASTM A182 F316L
4.	Gasket	SS+Graphite
5.	Bonnet	ASTM A182 F316L
6.	Hex. Bolt	A193 B8M
7.	Packing	Flexible Graphite
8.	Gland	ASTM A182 F316
9.	Gland Flange	ASTM A182 F316
10.	Gland Nut	A194 8M
11.	Gland Eyebolt	A193 B8M
12.	Yoke Nut	ASTM A276 410
13.	Nameplate	AL
14.	Bolt	CS
15.	Washer	Stainless Steel
16.	Handwheel	A197



NOTE:

1. Due to the continuous development of our products, specifications subject to change without notice.
2. In Dimension & Weight (SW) figures are for Socket Weld Valves only.
3. Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

DIMENSIONS & WEIGHT							
SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	92	111	120	152	172
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
H	inch	6.69	6.77	8.15	8.98	10.63	12.60
	mm	170	172	207	228	270	320
W	inch	3.78	3.78	4.72	6.14	6.14	9.84
	mm	96	96	120	156	156	250
Weight	LBS.	4.85	5.29	9.04	12.13	19.84	30.86
	Kgs.	2.2	2.4	4.1	5.5	9	14

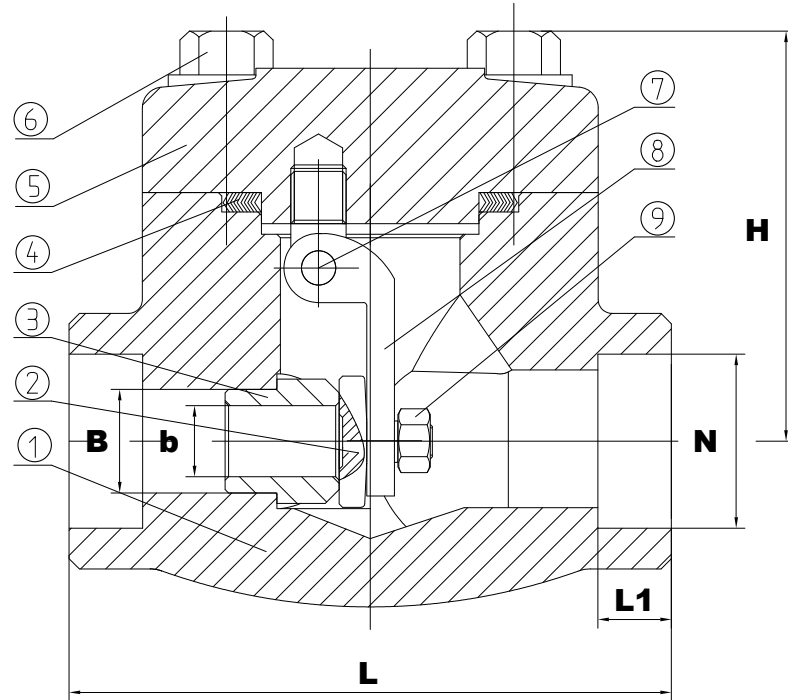
Class 800 Forged Stainless Steel Swing Check Valve



FIG.# 4E-38F1610S/T/ST

Class 800, Swing Type, Bolted Bonnet, ASTM A182/ F316L
316L Body and Bonnet

Available in Socket Weld, Threaded and SW x Thrd connections
Both NACE MR- 0175 Compliance and None NACE are in stock



CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
Temperature: - 29°C (- 20°F) ~ 300°C (572°F)			
Medium: Water, Oil & Gas			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598

MATERIAL LIST

No.	Part Name	Material
1.	Body	ASTM A182 F316L
2.	Disc	ASTM A182 F316L
3.	Seat	ASTM A182 F316L
4.	Gasket	SS 316 + Flexible Graphite
5.	Bonnet	ASTM A182 F316L
6.	Bolt	A193 B8M
7.	Pin	A276 316L
8.	Hinge	SS316L
9.	Nut	A194 8M



NOTE:

- Due to the continuous development of our products, specifications subject to change without notice.
- In Dimension & Weight (SW) figures are for Socket Weld Valves only.
- Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	4.72	5.51
	mm	79	92	111	120	120	140
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
b	inch	0.41	0.53	0.71	0.91	1.14	1.42
	mm	10.3	13.5	18	23	29	36
B	inch	0.59	0.67	0.87	1.10	1.37	1.65
	mm	15	17	22	28	35	42
H	inch	2.60	2.63	3.23	3.43	4.17	4.84
	mm	66	67	82	87	106	123
Weight	LBS.	3.40	3.70	6.32	8.49	12.35	15.43
	Kgs.	1.54	1.68	2.87	3.85	5.6	7



Class 800 Forged Stainless Steel Piston/Lift Check Valve

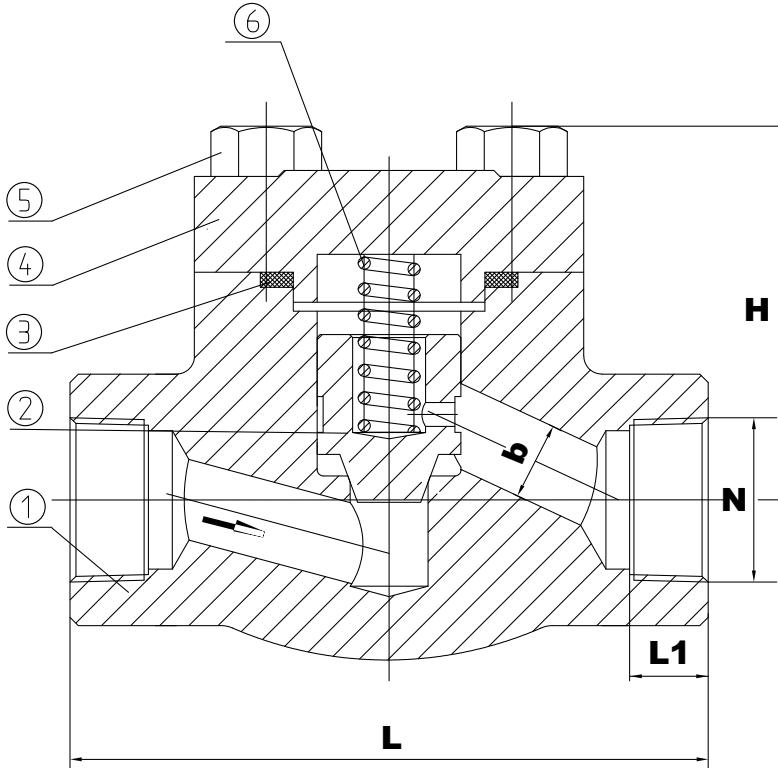
FIG.# 4E-58F1610S/T/ST

Class 800, Swing Type, Bolted Bonnet, ASTM A182/ F316L
 316L Body and Bonnet
 Available in Socket Weld, Threaded and SW x Thrd connections
 Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
Temperature: - 29°C (- 20°F) ~ 300°C (572°F)			
Medium: Water, Oil & Gas			
Cracking Pressure: 3 Bar			

STANDARDS COMPLIANCE:

Design and Manufacture	API 602
Face to Face Dimensions	MFG'S
End Connection	Socket Weld Ends to ASME B16.11 Screwed Ends (NPT) to ASME B1.20.1 Butt Welding Edns to ASME B16.25
Pressure- Temperature	ANSI B16.34
Test & Inspect	API 598



MATERIAL LIST

No.	Part Name	Material
1.	Body	ASTM A182 F316L
2.	Disc	ASTM A182 F316L
3.	Gasket	SS + Flexible Graphite
4.	Cover	ASTM A182 F316L
5.	Stud	A193 B8M
6.	Spring	SS316



NOTE:

1. Due to the continuous development of our products, specifications subject to change without notice.
2. In Dimension & Weight (SW) figures are for Socket Weld Valves only.
3. Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

DIMENSIONS & WEIGHT

SIZE	unit	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	inch	3.11	3.62	4.37	4.72	5.98	6.77
	mm	79	92	111	120	152	172
L1 (SW)	inch	0.39	0.51	0.51	0.51	0.51	0.63
	mm	10	13	13	13	13	16
NPT	inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	mm	12.7	19.1	25.4	31.8	38.1	50.8
N (SW)	inch	0.86	1.07	1.33	1.68	1.92	2.41
	mm	21.8	27.2	33.9	42.7	48.8	61.2
b	inch	0.39	0.51	0.67	0.87	1.06	1.30
	mm	10	13	17	22	27	33
H	inch	2.44	2.48	3.07	3.23	4.02	4.72
	mm	62	63	78	82	102	120
Weight	LBS.	3.40	3.70	6.32	8.49	13.89	17.74
	Kgs.	1.54	1.68	2.87	3.85	6.3	8.05

WARRANTY

LIMITED WARRANTY: 1. 4Evergeen Valve warrants to the original purchaser, for a period of one year from and after the date of delivery to the original customer, that its products will be free from defects in workmanship and materials, not caused or resulting from improper usage or application, improper installation, improper maintenance, repair, modification or alteration. In the event the original purchase shall determine that a product purchased from 4E is defective in workmanship or materials, the customer shall notify the 4E Warranty Representative within 24 hours from such determination, followed by written notice to such effect within 7 days therefrom, addressed to: 4E VALVEh, P.O. Box 450809, Houston, TX 77245.

2. In the event 4E shall determine that the product is defective based upon such examination of the product which 4E may deem appropriate, 4E shall thereupon, at its sole option, cause the defective product to be (a) repaired, (b) replaced with a substantially identical product, or (c) accept the return of a defective product and refund the purchasing price to the original purchaser, but shall in no event bear any installation, reinstallation, engineering or other costs incurred in connection with repair or replacement.

3. Since 4E shall not provide engineering and/or suitability of application or installation services for a purchaser, the selection, suitability, installation and fitness of all products sold by 4E shall be deemed to have been determined exclusively by and within the resulting from the selection, application, suitability, fitness or installation of its products.

4. The foregoing constitutes the sole obligation of 4E with respect to defective products purchased from it and in no manner shall 4E assume or be liable for any other expenses, incidental or consequential damages, losses, lost profits, downtime or otherwise, whether directly or indirectly suffered, or in any other manner relating to or as the result of any defect or failure of any product that it may sell.

5. Except as otherwise provided herein, 4E MAKES NO WARRANTIES OR REPRESENTATION, WHETHER EXPRESS OR IMPLIED, OF ANY KIND WHATSOEVER WITH RESPECT TO GOODS AND PRODUCTS SOLD BY IT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES WITH RESPECT TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO GRANT OR EXTEND ANY WARRANTY OR REPRESENTATION ON BEHALF OF 4E OTHER THAN AS SET FORTH HEREIN.



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