



# **FORGED STEEL VALVES**

**150# - 2500# • Gate Globe Check**



**4E Valve U.S.A.**



**4E** Valve, headquartered in Houston, TX, is a Texas corporation established in 1993. With over three decades of experience, we are committed to delivering Excellent Quality, Extraordinary Service, Expedient Delivery, and Extensive Inventory—core values that have earned the trust of numerous industries.

We specialize in providing high-quality flow control products to sectors such as oil and gas, petrochemical, food, refinery, marine, mining, power, and water treatment. Our extensive inventory includes API 6D, 600, 602, 603, 608, 609, IBBM, CE, and ISO 9001 certified valves, making us a leading name in valve wholesale. The name 4E represents our dedication to Excellent Quality, Extraordinary Service, Expedient Delivery, and Extensive Inventory, ensuring we deliver the best value valves to our customers.

#### Excellent Quality

4E Valve's API Certified manufacturing facilities are dedicated to exceeding applicable API, ANSI, ASTM, and other industry standards. Our products undergo rigorous quality assurance programs and are backed by Liability Insurance. From inception to completion, 4E closely monitors every product. Our commitment to quality extends beyond our factories.

#### Extraordinary Service

Our team of trained professionals is ready to provide immediate responses to your inquiries. 4E strives to provide quotes within an hour of receiving large inquiries via email, fax, or any other means of communication.

#### Expedient Delivery

4E Valve dispatches products from stock within 24 hours after order placement, ensuring swift delivery to meet your needs.

#### Extensive Inventory

We maintain a significant inventory of valves in Houston, TX, with products available through 4E distributors and agents across the United States, North America, and internationally.

Over the past 30 years, 4E Valve has grown into a recognized valve brand and wholesaler in the U.S. and beyond. With our new 47,000 square foot warehouse facility in Houston, Texas, we are well-positioned to continue supporting the industry and our valued customers.



## 4E MANUFACTURER

**4E Manufacture'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

#### Call us

281.494.4300

#### Email us

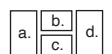
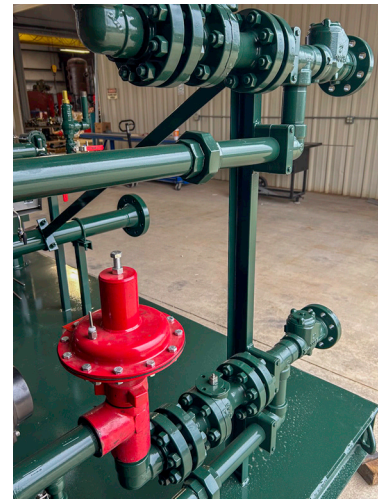
[sales@4evalve.com](mailto:sales@4evalve.com)

#### Check our website

[www.4Evalve.com](http://www.4Evalve.com)



## LET 4E BE YOUR 1ST CHOICE FOR VALVES



a. Stainless Steel Gate  
b. Flanged Ball Valve  
c. Oilfield Valve  
d. 4E Ball Valve

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



### 800# & 1500# OS&Y GATE VALVE

IS 1/2" – 2", Trim 8  
SW, BW & FNPT  
FIG.# 4E-18FG08S/T/ST  
4E-155FG08S/T/ST/B



### 800# & 1500# GLOBE VALVE

IS 1/2" – 2", Trim 8  
SW, BW & FNPT  
FIG.# 4E-28FG08S/T/ST  
4E-215FG08S/T/ST/B



### 800# & 1500# SWING CHECK VALVE

IS 1/2" – 2", Trim 8  
SW, BW & FNPT  
FIG.# 4E-38FG08S/T/ST  
4E-315FG08S/T/ST/B



### 800# & 1500# PISTON CHECK VALVE

IS 1/2" – 2", Trim 8  
SW, BW & FNPT  
FIG.# 4E-58FG08S/T/ST  
4E-515FG08S/T/ST/B

## 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 Valve
2	Globe Valve
3	Swing Check Valve
5	Piston Check Valve

II	PRESSURE CLASS
1	Class 150
8	Class 800
15	Class 1500

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
B	Butt Welded Connection



# Class 800 Forged Steel Gate Valve

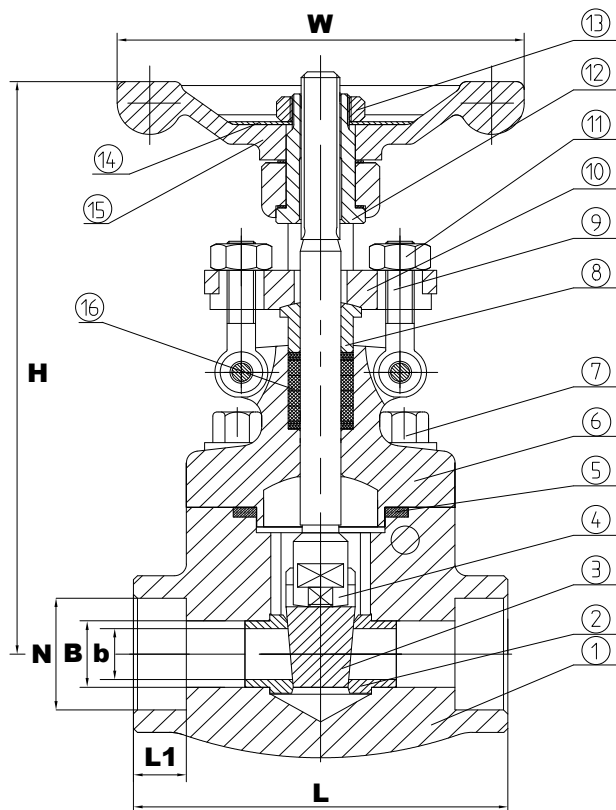
## FIG.# 4E-18FG08S/T/ST

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.	Stern	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



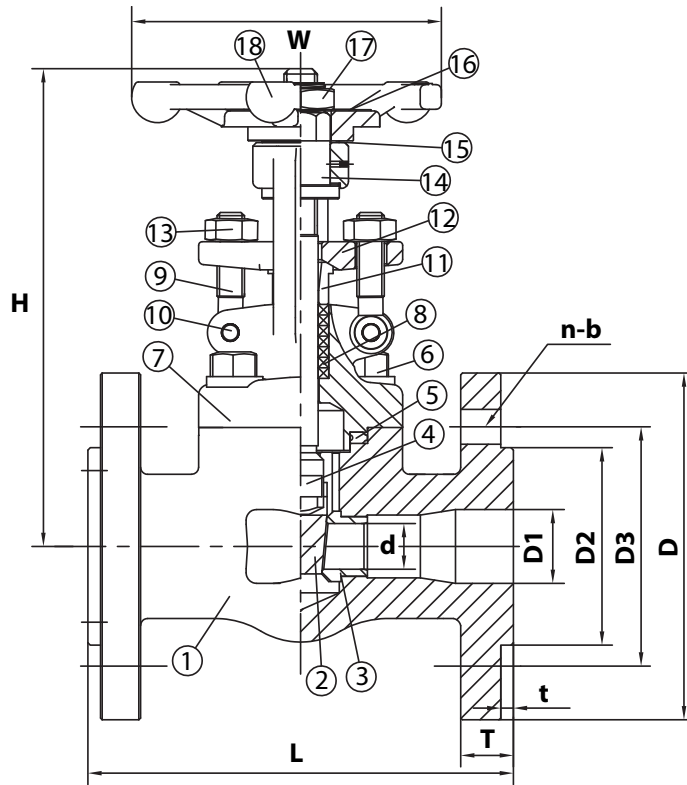
### NOTE:

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



## 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

## 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	MPa
Test	Shell	3.0	
	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



## 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

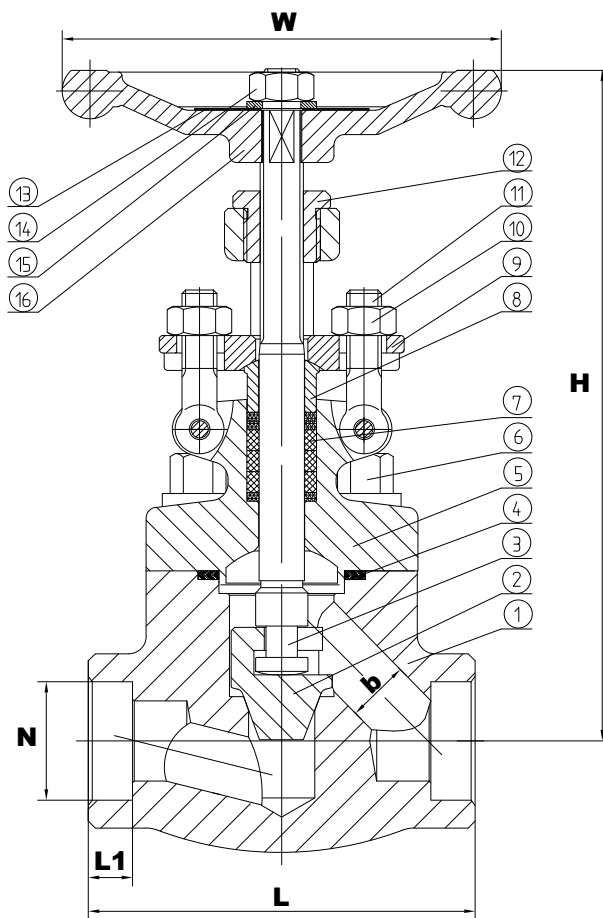
**FIG.# 4E-28FG08S/T/ST**

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:

- 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.



# 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

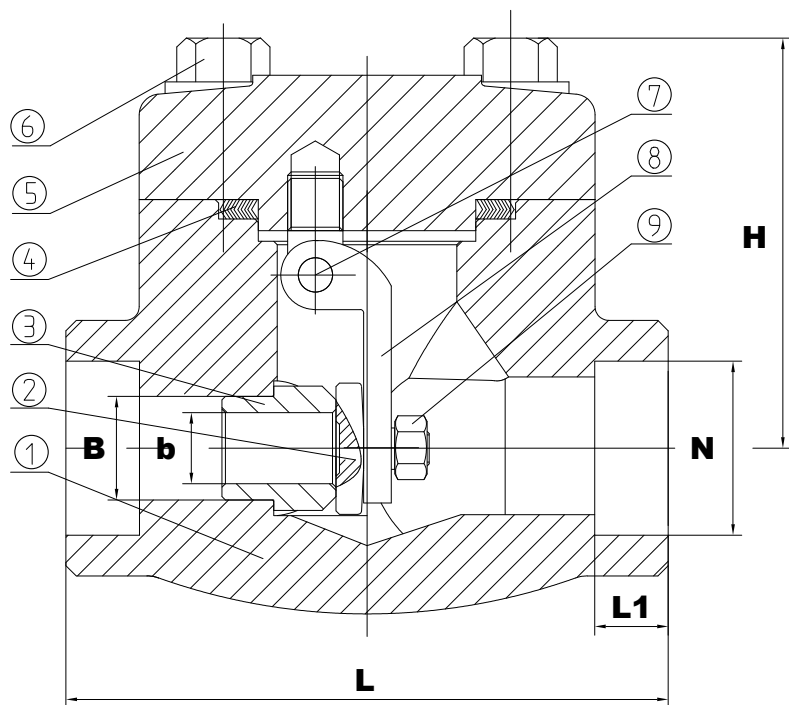
CLASS		800	
Test	Shell	21.4	MPa
	Seat	15.4	
Temperature: - 29°C (- 20°F) ~ 425°C (797°F)			
Medium: Water, Oil & Gas			

## 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



### NOTE:

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- 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

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

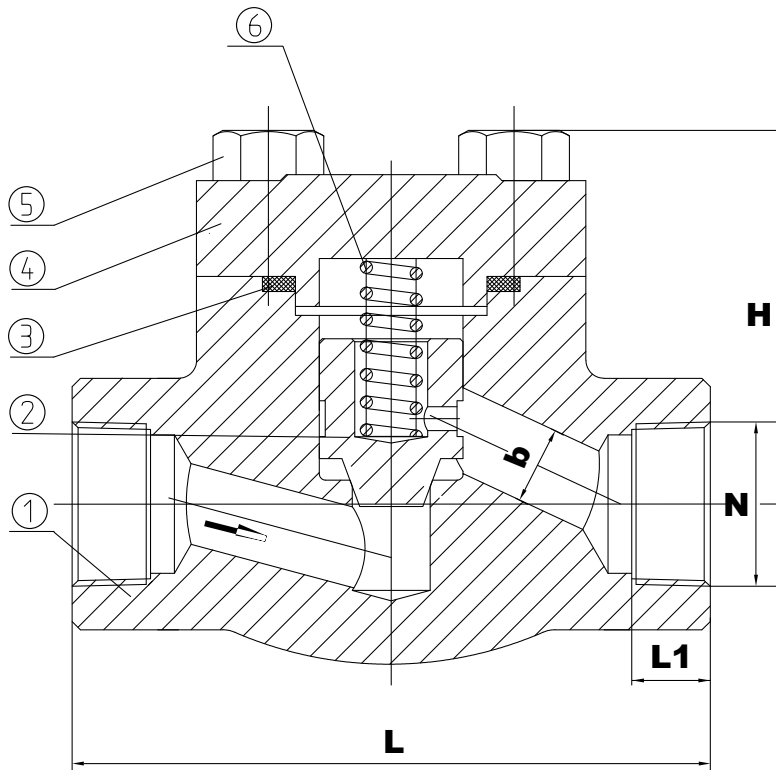
**FIG.# 4E-58FG08S/T/ST**

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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- 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

# Class 800 Forged Stainless Steel Gate Valve



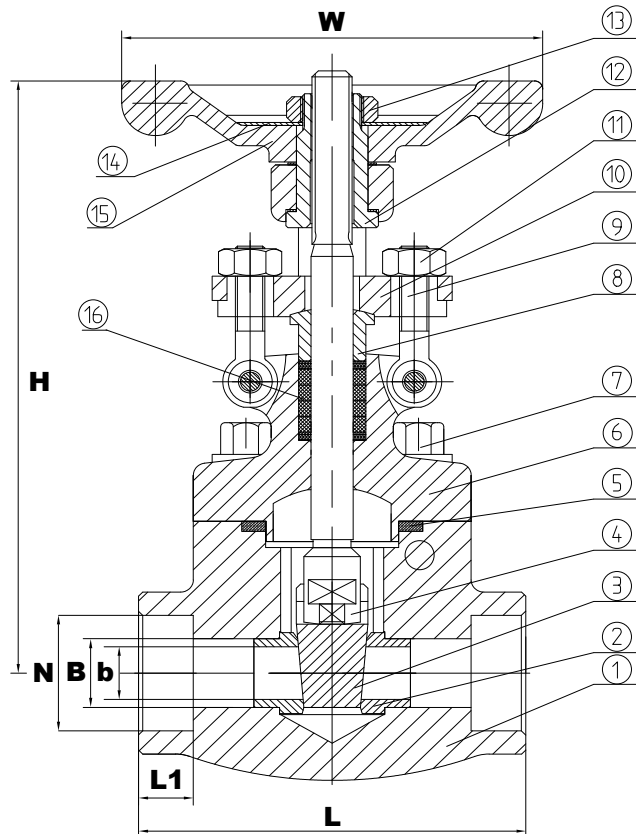
## FIG.# 4E-18F1610S/T/ST

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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- Please specify whether the product is NACE compliance when placing your order, otherwise 4E will ship out products in accordance with our inventory.

## 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

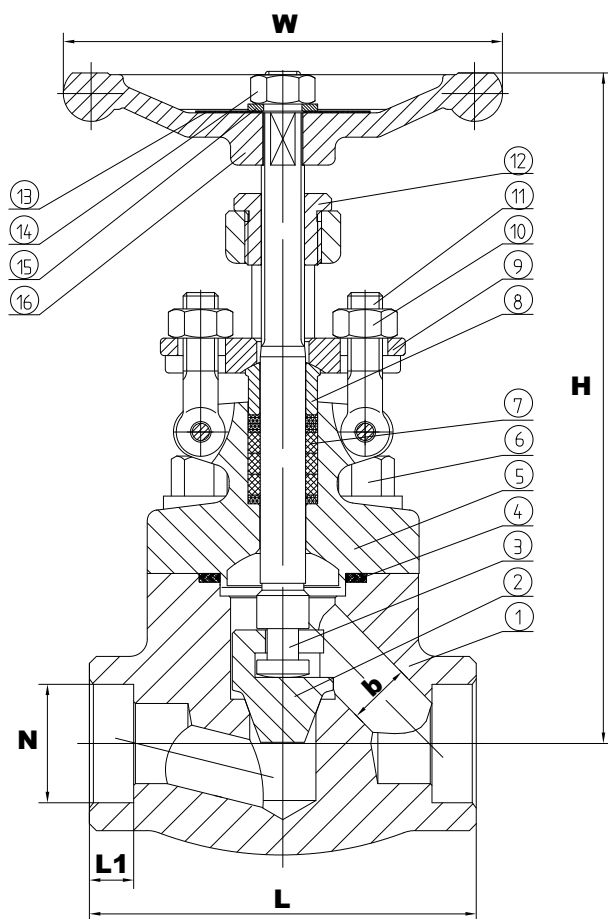
Available in Socket Weld, Threaded and SW x Thrd connections

Both NACE MR- 0175 Compliance and None NACE are in stock

CLASS		800	MPa
Test	Shell	21.4	
	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



## 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.

## 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

## 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**

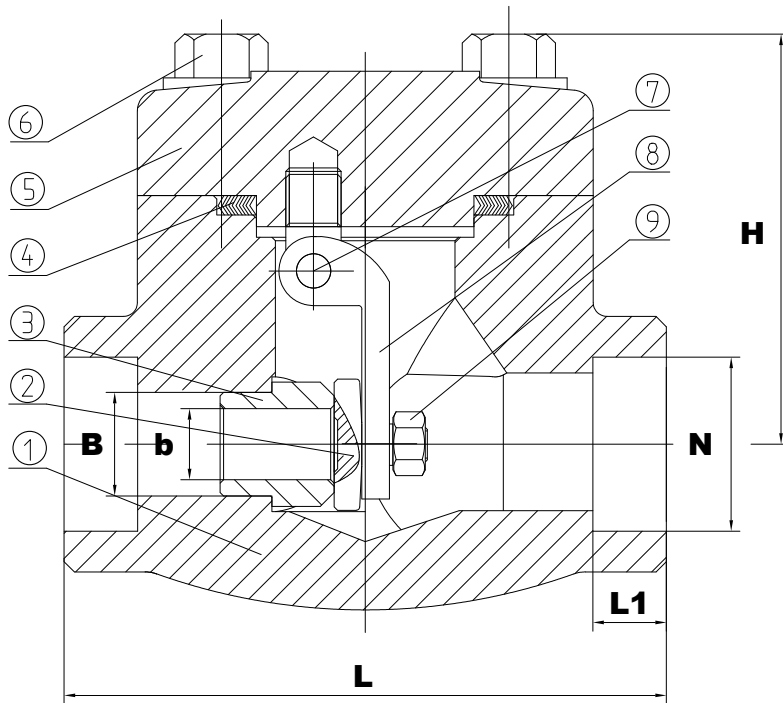
Class 800, Swing Type, Bolted Bonnet, ASTM A182/ F316L  
316L Body and Bonnet

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

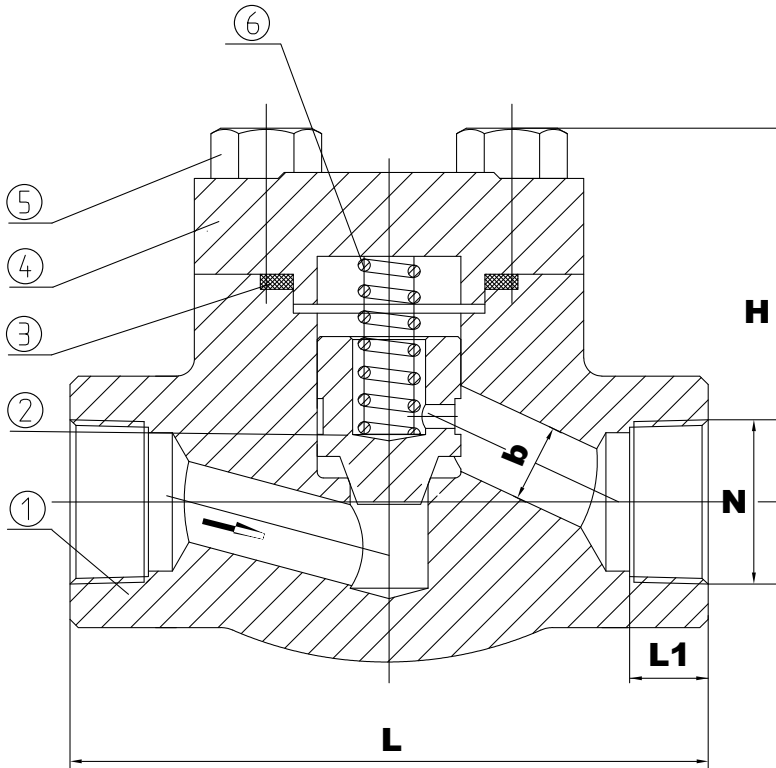
Available in Socket Weld, Threaded and SW x Thrd connections

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:

- 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	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. 4Evergreen 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.

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