

ANSI/ASME Class 300 Lbs FluoroSeal® HF Alkylation Plug Valve

HF ALKYLATION PLUG VALVES



FluoroSeal® HF Alkylation Valves are designed and manufactured in strict compliance with the requirements of the HF Alkylation’s Process Licensor specifications. Due to the severity of the process, all testing procedures are strictly adhered to per Licensor’s requirements.

FluoroSeal Inc.’s commitment to high quality requires each valve body to be subjected to a hydrostatic shell test at 1.5 times the ANSI rating at 100°F (38°C), as defined in ASME B16.34 (DIN EN 12266-1). In addition, every valve body casting is tested with helium gas at 450 psig for 100% assurance of no through-wall leakage.

We also conduct a full X-Ray test on the bodies to ensure that they meet FluoroSeal Inc.’s casting requirements per ASTM E446 (DIN EN 444 and DIN EN 462).

STANDARDS CONFORMITY

API 598  
ASME B16.5  
ASME B16.34  
MSS SP-6

API 607  
ASME B16.10  
MSS SP-55  
MSS SP-61

# HF ALKYLATION PLUG VALVES

## MATERIALS OF CONSTRUCTION

	ANSI/ASME	DIN
Body	ASTM A494 Gr. M35-1	2.4365
Plug	ASTM A494 Gr. M35-1	2.4365
Cover	ASTM A494 Gr. M35-1	2.4365
Cover Bolts	ASTM A193 Gr. B7M	
Adjusting Bolts	ASTM A193 Gr. B7M	
Thrust Washer	ASTM A494 Gr. M35-1	2.4365
Metal Diaphragm	MONEL® 400	MONEL® 400
Delta Ring	Flexible Graphite	Flexible Graphite
Cover Seal Ring	Flexible Graphite	Flexible Graphite
Diaphragm	PTFE Fluorocarbon	PTFE Fluorocarbon
Sleeve	PTFE Fluorocarbon	PTFE Fluorocarbon
Paint	Special for Leak Detection	Special for Leak Detection

## 2-WAY ANSI/ASME CLASS 300 LBS

Flanged Ends  
Wrench Operated  
Actuators Optional on All Sizes

Dimensions to ANSI B16.5 & B16.10

E = Clearance required for resleeving measured from center line

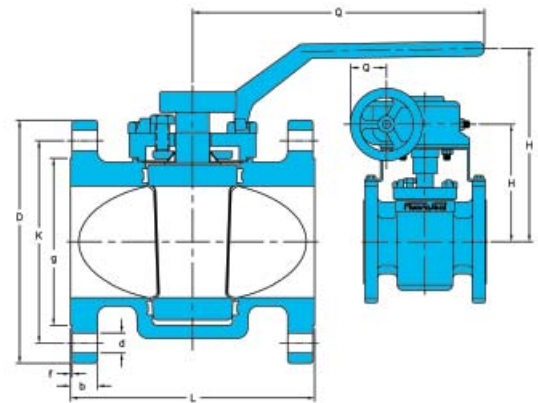
EG = Enclosed gear operated

N = Number of holes

<sup>1</sup>Two (2) top holes in flanges are tapped with UNC threads. See Hole-UNC column

<sup>2</sup>Four (4) top holes in flanges are tapped with UNC threads. See Hole-UNC column

\* 2 1/2" valves are made from 3" casting, but flanges are machined to 2 1/2" dimensions



SIZE	L		H		D		K		g		b		f		d		Q		Weight		E		N	Hole-UNC
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	kg	lbs	in	mm		
1/2"	5.50	139.70	3.38	86.00	3.75	95.30	2.63	66.80	1.38	35.0	0.56	14.20	0.06	1.52	0.63	16.0	8.00	203.00	3.2	7.0	6.38	162.10	4	-
3/4"	6.00	152.40	3.38	86.00	4.63	117.60	3.25	82.60	1.69	42.7	0.63	16.00	0.06	1.52	0.75	19.00	8.00	203.00	4.1	9.0	6.38	162.10	4	-
1"	6.50	165.10	4.50	114.00	4.88	124.00	3.50	88.90	2.00	50.8	0.69	17.50	0.06	1.52	0.75	19.00	9.00	229.00	5.5	12.0	8.50	215.90	4	-
1 1/2"	7.50	190.50	5.31	135.00	6.13	155.70	4.50	114.30	2.88	73.2	0.81	20.60	0.06	1.52	0.88	22.40	14.25	362.00	9.5	21.0	10.38	263.70	4	-
2"	8.50	215.90	6.25	159.00	6.50	165.10	5.00	127.00	3.63	92.0	0.88	22.40	0.06	1.52	0.75	19.00	16.50	419.00	13.2	29.0	12.25	311.20	8	-
*2 1/2"	11.13	282.70	6.56	167.00	8.25	209.6	5.88	149.40	4.13	104.6	1.13	28.70	0.06	1.52	0.88	22.40	16.50	419.00	21.8	48.0	12.63	320.80	8	-
3"	11.13	282.70	6.56	167.00	8.25	209.6	6.63	168.40	5.00	127.0	1.13	28.70	0.06	1.52	0.88	22.40	16.50	419.00	21.8	48.0	13.63	346.20	8	-
4"	12.00	304.80	7.63	194.00	10.00	254.00	7.88	200.20	6.19	157.2	1.25	31.80	0.06	1.52	0.88	22.40	23.63	600.00	42.0	92.0	16.25	412.80	8	-
4" EG	12.00	304.80	9.10	231.00	10.00	254.00	7.88	200.20	6.19	157.2	1.25	31.80	0.06	1.52	0.88	22.40	7.25	184.00	54.0	119.0	17.63	447.80	8	-
6" EG	15.88	403.40	10.80	274.00	12.50	317.50	10.63	270.00	8.50	215.9	1.44	36.6	0.06	1.52	0.88	22.40	7.25	184.00	91.4	201.0	21.75	552.50	12	-
8" EG <sup>1</sup>	16.50	419.10	12.75	324.00	15.00	381.00	13.00	330.20	10.63	269.8	1.63	41.40	0.06	1.52	1.00	25.40	9.75	248.00	141.4	311.0	26.63	676.40	12	7/8"-7
10" EG <sup>1</sup>	18.00	457.20	14.68	373.00	17.50	444.50	15.25	387.40	12.75	323.9	1.88	47.80	0.06	1.52	1.13	28.70	9.75	248.00	210.9	464.0	31.25	793.80	16	1"-8
12" EG <sup>1</sup>	19.75	501.70	16.40	417.00	20.50	520.70	17.75	450.90	15.00	381.0	2.00	50.80	0.06	1.52	1.25	31.80	13.75	349.25	279.0	614.0	33.75	857.30	16	1 1/8"-8
14" EG	30.00	762.00	17.40	442.00	23.00	584.20	20.25	514.40	16.25	412.8	2.12	53.80	0.06	1.52	1.25	31.80	13.75	349.25	363.0	800.0	34.75	882.70	20	-
16" EG <sup>1</sup>	33.00	838.20	21.29	540.72	25.50	647.70	22.50	571.50	18.50	469.90	2.19	55.63	0.06	1.52	1.38	34.93	9.85	698.50	-	-	46.00	1168.40	20	1 1/4"-8
18" EG	36.00	914.40	21.29	540.84	28.00	711.20	24.75	628.65	21.00	533.40	2.31	58.67	0.06	1.52	1.38	34.93	9.85	698.50	-	-	46.00	1168.40	24	-
20" EG <sup>2</sup>	39.00	990.60	27.43	696.70	30.50	774.70	27.00	685.80	23.00	584.20	2.44	61.98	0.06	1.52	1.38	34.93	9.85	698.50	-	-	57.63	1463.80	24	1 1/4"-8 <sup>1</sup>
24" EG <sup>1</sup>	45.00	1143.0	27.43	696.70	36.00	914.40	32.00	812.80	27.25	692.15	2.69	68.33	0.06	1.52	1.63	41.28	9.85	698.50	-	-	57.63	1463.80	24	1 1/2"-8

HF-ANSI-DIN-R002-S