

CVI Swing Check Valve (AWWA C508)

CVI(1)(2)-(3)(4)(5)(6)-(7)(8)(9)/(10)-(11)

1. 2 Digit Size 02-48
2. Connection
 - F-Flanged CL125
 - 2-Flanged CL250
3. Body Material
 - C-Cast Iron
 - D-Ductile Iron
4. Disc Material
 - S-Stainless 304
 - 3-Stainless 316
 - D-Ductile Iron
 - C-Cast Iron
 - B-Aluminum Bronze
5. Shaft
 - S-SS304
 - 3-SS316
 - B-Bronze
6. Seat
 - E-EPDM to SS
 - B-Bronze on Bronze
7. Bearing Material
 - P-PTFE
 - B-Bronze
 - S-Stainless 304
8. Hardware Material
 - S-Stainless 304
 - 3-Stainless 316
 - Z-Zinc Plated
9. Coatings
 - 1-FBE
 - 2-Themec N140
10. Configuration
 - O-Outside Lever and weight
 - B-Bare
 - C-Aluminum Air Cushion Cylinder
 - OC-Oil Cushioned Cylinder



VALVE SIZE		A	B	C	D	E	F
NPS	DIN						
2	50	8.00	5.4	4.75	6.0	4	0.75
2.5	65	8.50	5.8	5.50	7.0	4	0.75
3	75	9.50	6.3	6.00	7.2	4	0.75
4	100	11.50	7.1	7.50	9.0	8	0.75
5	125	13.00	8.0	8.50	10.0	8	0.75
6	150	14.00	8.8	9.50	11.0	8	0.88
8	200	19.50	10.2	11.75	13.5	8	0.88
10	250	24.50	11.4	14.25	16.0	12	1.00
12	300	27.50	12.8	17.00	19.0	12	1.00
14	350	31.00	16.7	18.74	21.0	12	1.13
16	400	36.00	17.5	21.25	23.5	16	1.13
18	450	38.00	18.9	22.75	25.0	16	1.25
20	500	42.00	20.7	25.00	27.5	20	1.25
24	600	48.00	23.9	29.50	32.0	20	1.38
30	750	56.00	28.6	36.00	38.8	28	1.38
36	900	63.00	37.0	42.75	46.0	32	1.63
42	1050	70.00	41.0	49.50	53.0	36	1.63
48	1200	76.00	49.0	56.00	49.5	44	1.63

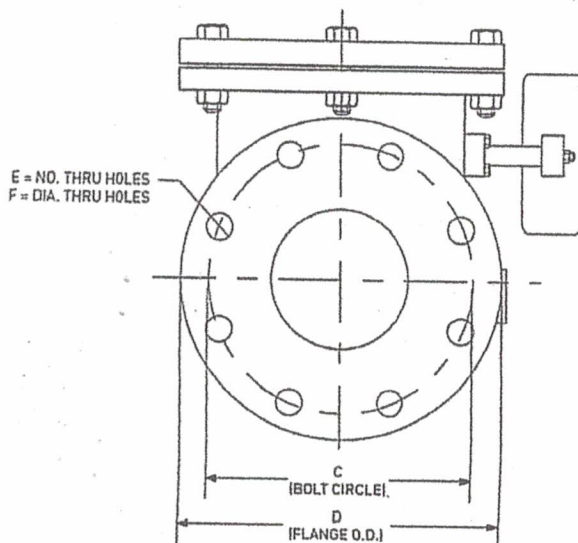
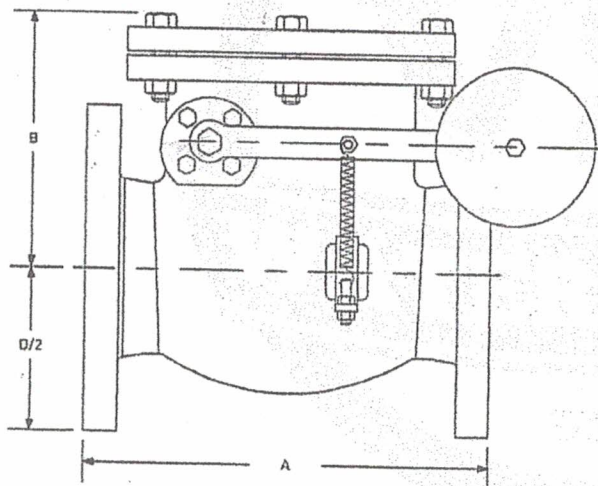
NOTES:

- 1) FLANGES PER ASME/ANSI B16.1 CL125 AND B16.5 CL150
- 2) VALVE MANUFACTURED & TESTED IN ACCORDANCE WITH AWWA C508 LATEST REVISION

CAST EMBOSSED ON VALVE BODY:

CASTING YEAR
175 PSI (12" - 12")
150 PSI (14" - 48")
AWWA C508
POUR IDENTIFIER

TOLERANCES		
DECIMAL	ANGULAR	
X.X	±0.1	±0.25°
X.XX	±0.02	
X.XXX	±0.006	



2"-48" FLANGED SERIES CVI
AWWA C508 SWING CHECK
VALVE LEVER AND WEIGHT

UNITS: INCHES REV 6
SCALE: NTS 05-18-2017

REV.	DATE	BY	DESCRIPTION
05-18-17	TT	EDIT TITLE DESCRIPTION	

DWG NO. CVI-1024



Dimensions

VALVE SIZE		A	B	C	D	E	F
NPS	DIN						
2	50	8.00	5.4	4.75	6.0	4	0.75
2.5	65	8.50	5.8	5.50	7.0	4	0.75
3	75	9.50	6.3	6.00	7.2	4	0.75
4	100	11.50	7.1	7.50	9.0	8	0.75
5	125	13.00	8.0	8.50	10.0	8	0.75
6	150	14.00	8.8	9.50	11.0	8	0.88
8	200	19.50	10.2	11.75	13.5	8	0.88
10	250	24.50	11.4	14.25	16.0	12	1.00
12	300	27.50	12.8	17.00	19.0	12	1.00
14	350	31.00	16.7	18.74	21.0	12	1.13
16	400	36.00	17.5	21.25	23.5	16	1.13
18	450	38.00	18.9	22.75	25.0	16	1.25
20	500	42.00	20.7	25.00	27.5	20	1.25
24	600	48.00	23.9	29.50	32.0	20	1.38
30	750	56.00	45.0	36.00	38.8	28	1.38

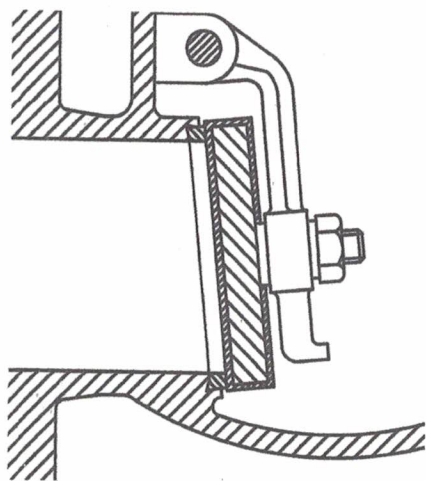
*Other sizes, standards, and accessories available upon request. Please Inquire

Design Features



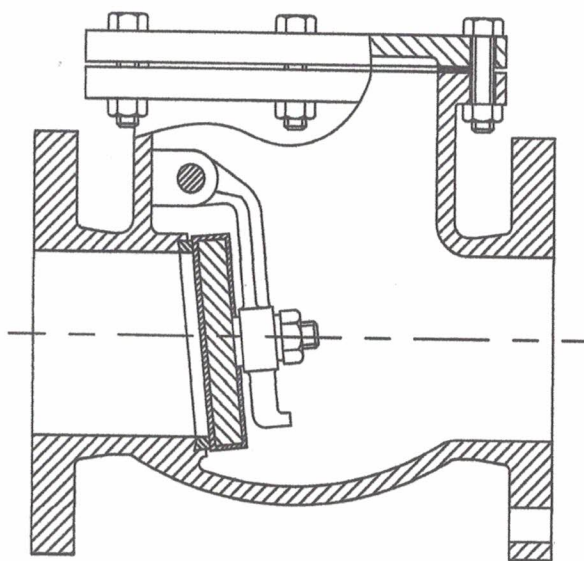
Replacable Seats

Swing Check Valves incorporate a replaceable seat, which can be removed without taking the valve out from the line. Simply remove the sealed cover, and change out the entire disc.



Rebuildable Body

Swing Check Valves are built with ductile iron, cast iron, or stainless steel. The valve features Large Service Port that can be removed and can service all internal parts without removing the valve from the line.



Design Standards

Construction	AWWA C508
	ASME B16.34
	API 600
Coatings	AWWA C550
Connections	ANSI B16.1 Class 125*
	ANSI B16.5 Class 150
	ANSI/AWWA C111/A21.11
	ISO 7005
Laying Length	AWWA C508 Appendix A
	ISO 5752
Classifications	150 PSIG
	175 PSIG*
	200 PSIG
	250 PSIG

*Standard Option

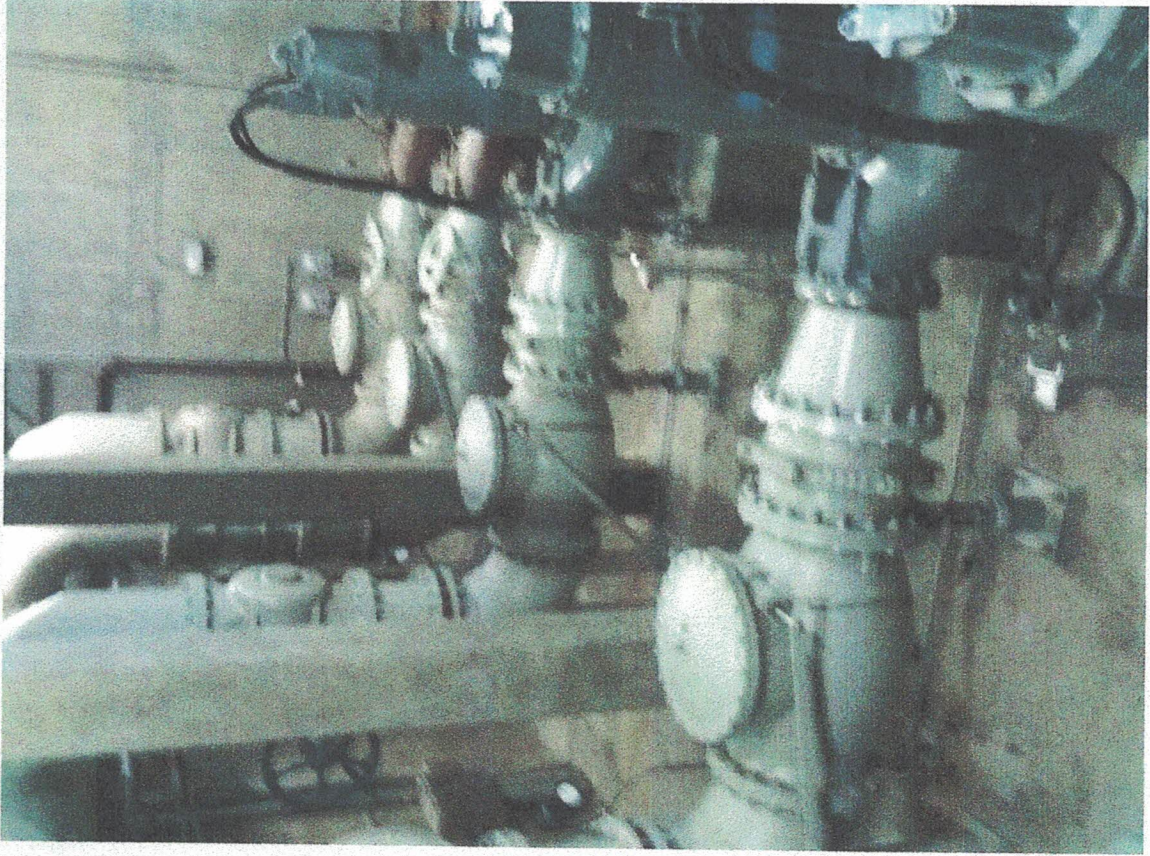


**American Water Works
Association**



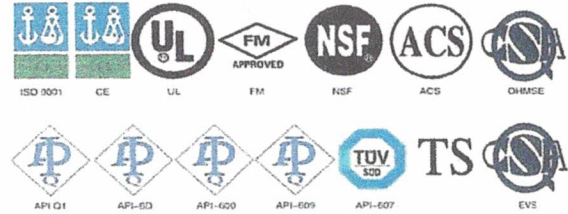
Bakersfield California
Wastewater Treatment Plan
24" AWWA C 508 Swing
Check Valves - OLW
Parsons Engineering
Kiewit Construction

2008

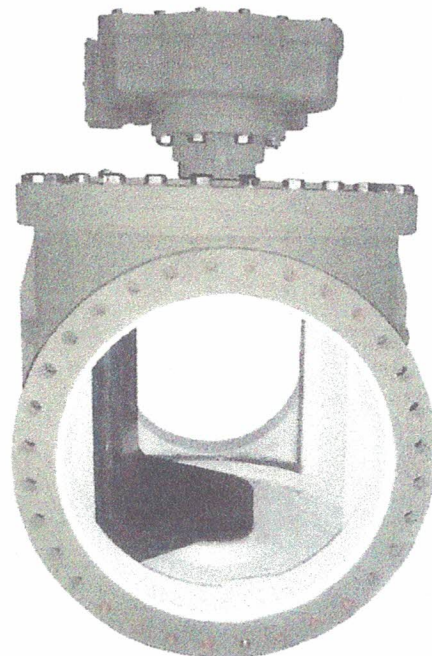
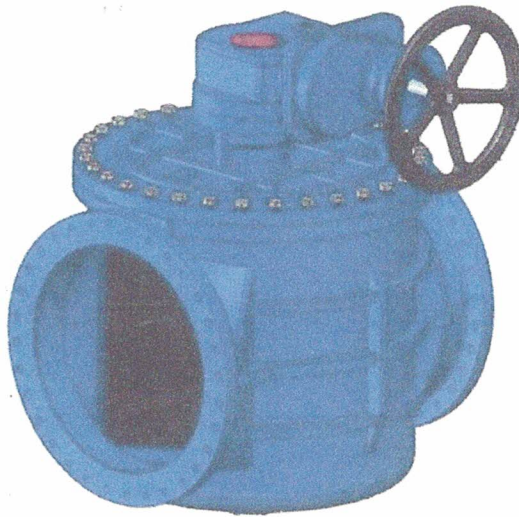




COMPANY CERTIFICATE



AWWA C517 ECCENTRIC PLUG VALVES

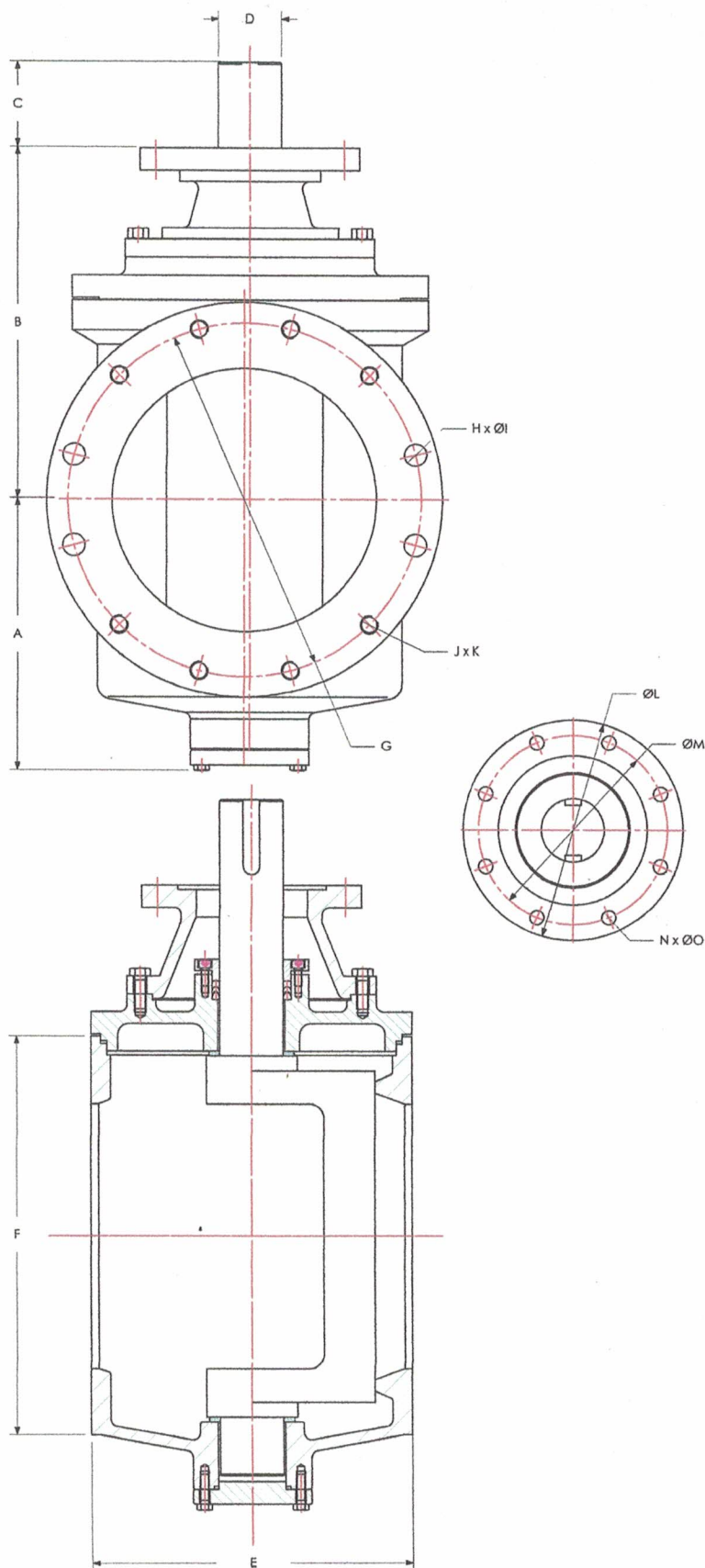


WTR/Plug Valve Partnership

VERSION: 2014-09-EPV



SIZE	DIN	A	B	C	D	Packing ID	Packing OD	Packing Height	Bonnet O-Ring ID	Bonnet O-Ring Height	E	F	G	H	I	J	K	L	M	N	O	Key Size	Port Area
8	200	203	311	60	50	50	70	18	256	4	292	343	298.5	4	19	4	5/8-11UNC	210	165.1	4	22	16	81
12	300	320	395	97	76	76	90	18	300	4	356	483	432	8	25	8	7/8-9UNC	296	254	8	19	22	80.4
14	350	366	473	114	80	80	100	25	390	4	432	533	476.5	4	30	8	1-8UNC	296	254	8	19	22	79.7
16	400	413	520	114	80	80	100	25	390	4	451	597	540	8	30	8	1-8UNC	296	254	8	19	22	80.1



Material Options

Body and Bonnet

- ☐ ASTM A536 65-45-12*
- ☐ ASTM A126
- ☐ ASTM A351 CF8
- ☐ ASTM A351 CF8M
- ☐ ASTM A216 WCB
- ☐ _____

Plug and Stem

ASTM A536 65-45-12*
ASTM A126
ASTM A216 WCB

Seat

- ☐ 90% Nickel Welded Overlay
- ☐ Stellite
- ☐ _____

Seal

NBR*
EPDM
FPM

O-Rings

- ☐ EPDM*
- ☐ PTFE
- ☐ NBR
- ☐ _____

Bushings

SS304 Reinforced PTFE*
Bronze
ASTM A276 316

Bearings

- ☐ PTFE*
- ☐ Viton
- ☐ Nylon
- ☐ _____

Packing

EPDM*
PTFE
NBR

Exterior Hardware

- ☐ Zinc Plated CS*
- ☐ SS304
- ☐ SS316
- ☐ _____

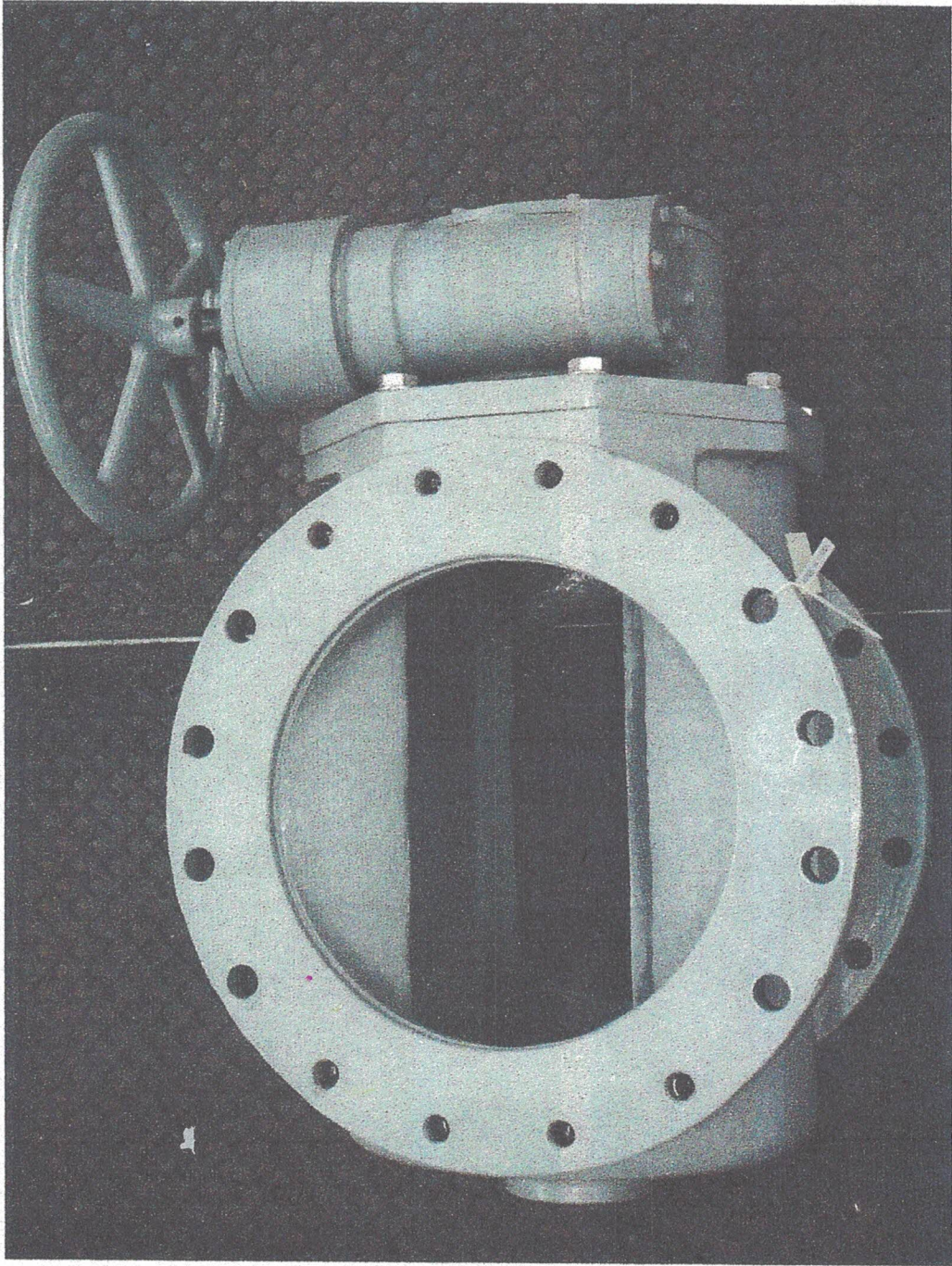
Key

ASTM 1045

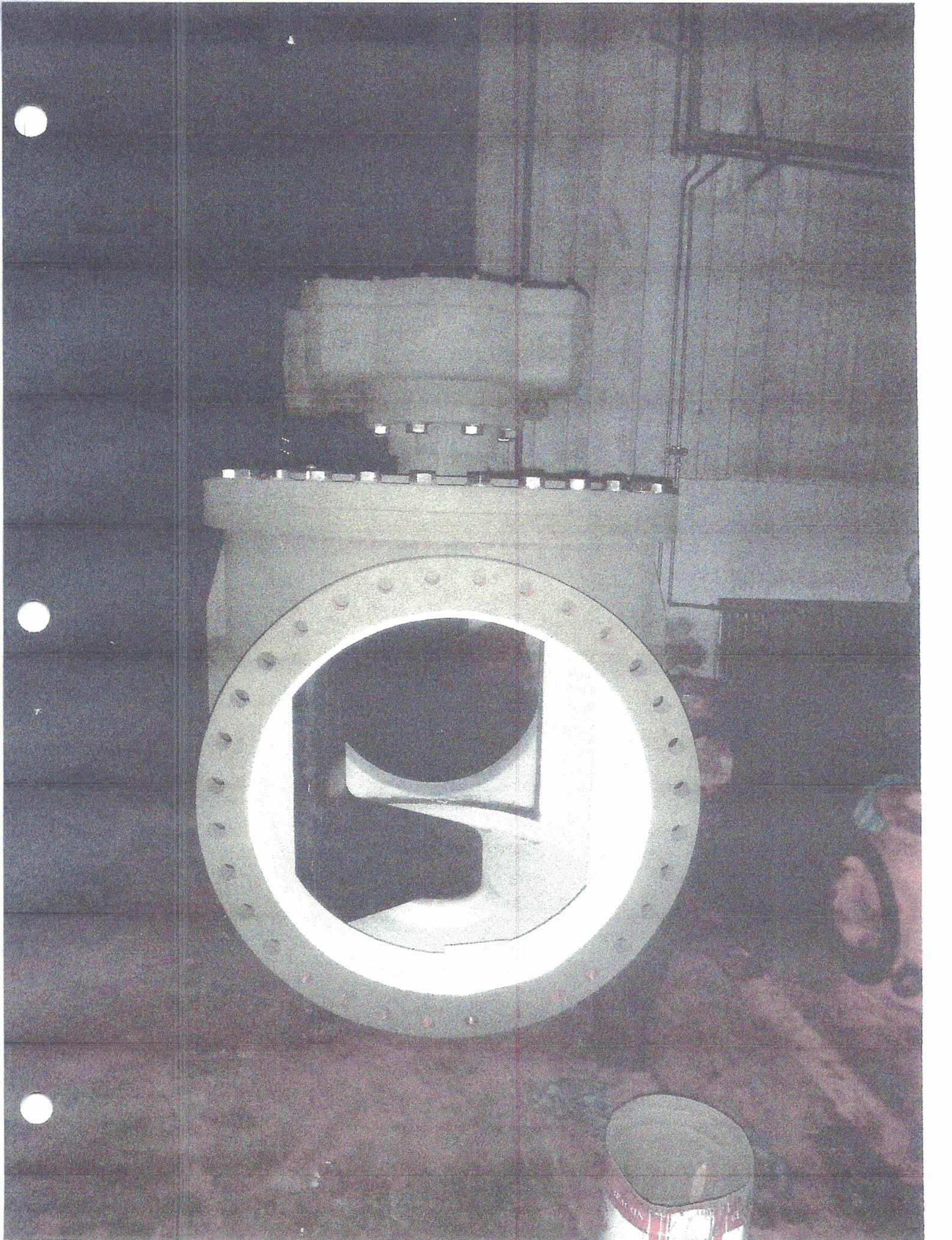
*Standard Option
Other Materials Available Upon Request

Seal Selection Guide

Designation	Common Name(s)	Composition	Min/Max Temperature Range	General Properties	Resistant to:	Attacked by:
PTFE	Teflon®	Polytetrafluoroethylene	-100 F / 450 F	Excellent abrasion resistance and chemically inert	Acids, harsh inorganic and organic chemicals, oils, oxidizing agents, and solvents	Molten alkali metals and fluorine at high temperatures
EPDM, EPM	EPDM	Ethylene-propylene-diene; Ethylene-propylene	-40 F / 300 F	Excellent ozone, chemical, and aging resistance. Poor resistance to petroleum-based fluids.	Animal and vegetable oils, ozone, strong and oxidizing chemicals.	Mineral oils and solvents, aromatic hydrocarbons.
NBR	Buna-N	Nitrile-butadiene	-30 F / 250 F	Excellent resistance to petroleum-based fluids. Good physical properties.	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.
FPM	Viton®	Hexafluoropropylene-vinylidene fluoride	-10 F / 400 F	Excellent oil and air resistance both at low and high temperatures. Very good chemical resistance.	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Ketones, low molecular weight esters and nitro containing compounds.



16" AWWA Plug Valve





PLUG VALVE