

# KITZ

## ASME CLASS 600 FLOATING BALL VALVE

## CAST CARBON and STAINLESS STEEL Flanged 1/2"-4" Full Port

### FEATURES:

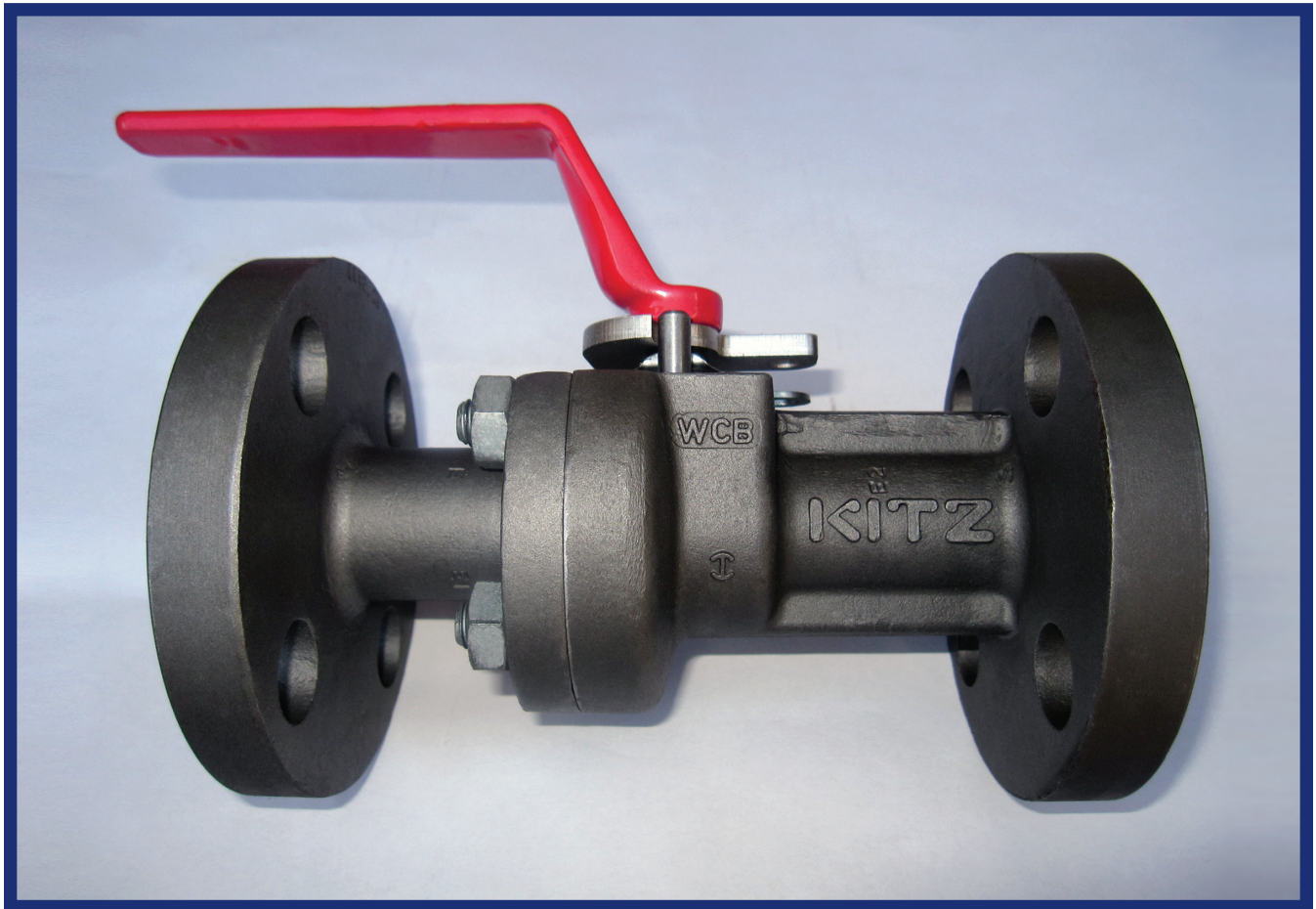
1. RUGGED 2-PC CONSTRUCTION
2. FULL PORT
3. GROUNDED BALL and STEM
4. NACE MR0175
5. API 607 CERTIFIED
6. LOCKING LEVER
7. ISO 5211 MOUNTING PAD
8. API 641 CERTIFIED LOW EMISSIONS

### FIGURE NUMBERS:

CAST CARBON STEEL - A600F-F14AN-CS/316-FSM  
CAST STAINLESS STEEL - A600F-F14AN-SS/316-FSM

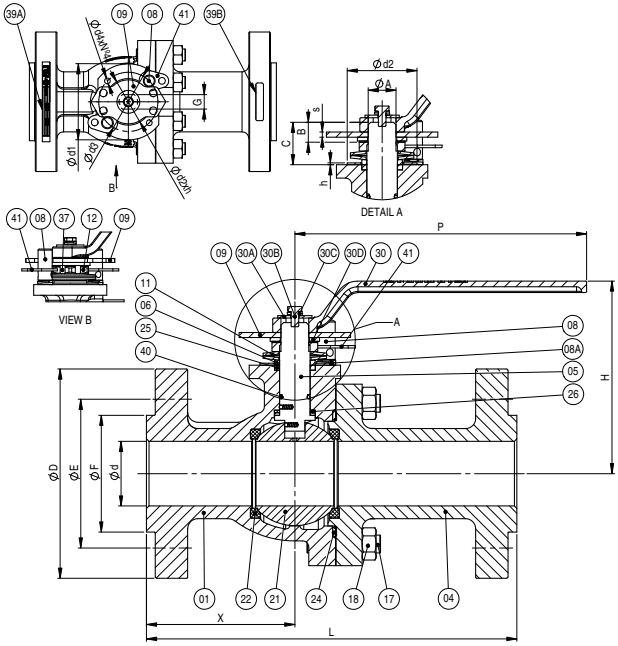
### STANDARDS:

GENERAL VALVE DESIGN - API 608  
FACE-TO-FACE - ASME B16.10  
END CONNECTIONS - ASME B16.5  
WALL THICKNESS - ASME B16.34 CLASS 600  
PRESSURE TEST - API 598



**KITZ**  
CORPORATION OF AMERICA

**TYPICAL VALVE CONSTRUCTION (FOR A SPECIFIC SIZE, CONTACT KCA)**



	CARBON STEEL	STAINLESS STEEL
41	KEY LOCK PLATE	STAINLESS STEEL
40	O-RING	H-NBR*
39B	TAG	STAINLESS STEEL
39A	NAMEPLATE	STAINLESS STEEL
37	SAFETY WASHER	STAINLESS STEEL
30D	WASHER	STAINLESS STEEL
30C	SPRING WASHER	STAINLESS STEEL
30B	BOLT	STAINLESS STEEL
30A	WASHER	STAINLESS STEEL
30	HANDLE	DUCTILE IRON
26	THRUST WASHER	PTFE
25	GLAND PACKING	GRAPHITE
24	GASKET	GRAPHITE + 316L
22	SEAT	HYPATITE PTFE
21	BALL	ASTM A351 Gr. CF8M
18	CAP NUT	ASTM A194 Gr. 2HM**
17	CAP BOLT	ASTM A193 Gr. B7M**
12	GLAND NUT	AISI 316 (S31600)
11	DISK SPRING	INCONEL 718
09	STOPPER PLATE	STAINLESS STEEL
08A	SPRING WASHER	STAINLESS STEEL
08	STOP PIN	STAINLESS STEEL
06	GLAND RING	ASTM A479 TYPE 316
05	ANTISTATIC STEM	ASTM A182 Gr. F316 / ASTM A479 TYPE 316
04	CAP	ASTM A216 Gr. WCB***
01	BODY	ASTM A216 Gr. WCB***

\*VITON/FKM also available \*\*DELTAONE COATED \*\*\*LCC available for low temperature

SIZE	DIMENSIONS, inches																		
	dd	dD	dE	dF	L	X	H	P	dA	B min	C	s	G	dd1	ISO 5211	dd2	h	dd3	dd4 x no.4
1/2"	0.50	3.74	2.63	1.38	6.50	3.25	3.50	5.12	0.39	0.28	0.67	0.20	0.28	-	F03	0.98	0.06	1.42	M5
3/4"	0.75	4.53	3.25	1.69	7.50	3.74	3.66	5.12	0.39	0.28	0.67	0.20	0.28	-	F03	0.98	0.06	1.42	M5
1"	1.00	4.92	3.50	2.01	8.50	4.25	4.06	6.30	0.55	0.43	1.02	0.12	0.43	-	F04	1.18	0.06	1.65	M5
1-1/2"	1.50	6.10	4.50	2.87	9.50	4.04	4.92	6.30	0.55	0.43	1.04	0.12	0.43	2.13	F04	1.18	0.06	1.65	M5
2"	2.00	6.50	5.00	3.62	11.50	4.61	5.98	9.06	0.87	0.67	1.34	0.16	0.67	3.54	F07	2.17	0.06	2.76	M8
3"	3.00	8.27	6.63	5.00	14.02	5.37	6.87	15.75	0.87	0.67	1.32	0.20	0.67	3.54	F07	2.17	0.10	2.76	M8
4"	4.02	10.80	8.50	6.20	17.00	8.50	8.10	15.75	1.10	0.87	1.77	0.16	0.87	4.90	F10	2.76	0.04	4.02	M10

**FLOW COEFFICIENT**

SIZE	FULL OPEN Cv
1/2"	18
3/4"	37
1"	70
1-1/2"	199
2"	391
3"	983
4"	1818

**PRESSURE-TEMPERATURE RATINGS**

°F	O-Ring / Seat Material*	ASME B16.34 Rating		Valve Size		
		WCB	CF8M	1/2" - 1-1/2"	2"	3" - 4"
-20 - +100		1480	1440	1480	1480	1480
150				1420	1420	1005
200		1360	1240	1360	1200	860
250				1200	980	700
284	H-NBR Max			1120	840	600
300		1310	1120	1075	770	550
350				785	560	400
392	FKM Max			545	380	275
400		1265	1025	485	345	245
482	H-PTFE Max			0	0	0

\*Low temperature materials to -50°F. Please contact KITZ for assistance.

**OPERATING TORQUE**

Valve size	MAXIMUM DIFFERENTIAL PRESSURE [psig] / [lbf-in]															
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1480	
1/2"	37	37	45	52	52	52	52	52	52	52	52	52	52	52	52	
3/4"	67	67	67	75	75	75	75	75	75	75	75	75	75	75	75	
1"	135	142	142	142	142	142	142	142	142	142	142	142	142	150	150	
1-1/2"	202	202	202	202	202	202	209	239	239	269	269	299	299	314	314	
2"	598	598	598	598	598	598	598	673	673	673	673	673	673	673	673	
3"	823	1047	1122	1271	1294	1312	1381	1389	1443	1443	1443	1443	1443	1443	1443	
4"	1570	1570	1645	1645	1720	1870	2243	2617	2617	2617	2617	2767	2767	2842	2842	

All torque values include 30% safety factor. Values are for clean, static water at ambient temperature.