

ASME B16.34 VALVE TEST PRESSURES COMMON GRADES

WCB/ A105/ LF2/ LF3

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 285 | 427.50 | 313.50 |
| 300 | 740 | 1110.00 | 814.00 |
| 600 | 1480 | 2220.00 | 1628.00 |
| 800 | 1975 | 2962.50 | 2172.50 |
| 900 | 2220 | 3330.00 | 2442.00 |
| 1500 | 3705 | 5557.50 | 4075.50 |
| 2500 | 6170 | 9255.00 | 6787.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 1.96 | 2.95 | 2.16 |
| 300 | 5.10 | 7.65 | 5.61 |
| 600 | 10.20 | 15.30 | 11.22 |
| 800 | 13.61 | 20.41 | 14.97 |
| 900 | 15.30 | 22.94 | 16.83 |
| 1500 | 25.53 | 38.29 | 28.08 |
| 2500 | 42.51 | 63.77 | 46.76 |

AIR TEST 80 PSI 0.55 MPA

WCC/ WC6 WC9

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 290 | 435.00 | 319.00 |
| 300 | 750 | 1125.00 | 825.00 |
| 600 | 1500 | 2250.00 | 1650.00 |
| 800 | - | - | - |
| 900 | 2250 | 3375.00 | 2475.00 |
| 1500 | 3750 | 5625.00 | 4125.00 |
| 2500 | 6250 | 9375.00 | 6875.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 2.00 | 3.00 | 2.20 |
| 300 | 5.17 | 7.75 | 5.68 |
| 600 | 10.34 | 15.50 | 11.37 |
| 800 | - | - | - |
| 900 | 15.50 | 23.25 | 17.05 |
| 1500 | 25.84 | 38.76 | 28.42 |
| 2500 | 43.06 | 64.59 | 47.37 |

AIR TEST 80 PSI 0.55 MPA

CF8M/ CF8/ CF8C/ 316/ 304

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 275 | 412.50 | 302.50 |
| 300 | 720 | 1080.00 | 792.00 |
| 600 | 1440 | 2160.00 | 1584.00 |
| 800 | 1920 | 2880.00 | 2112.00 |
| 900 | 2160 | 3240.00 | 2376.00 |
| 1500 | 3600 | 5400.00 | 3960.00 |
| 2500 | 6000 | 9000.00 | 6600.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 1.89 | 2.84 | 2.08 |
| 300 | 4.96 | 7.44 | 5.46 |
| 600 | 9.92 | 14.88 | 10.91 |
| 800 | 13.23 | 19.84 | 14.55 |
| 900 | 14.88 | 22.32 | 16.37 |
| 1500 | 24.80 | 37.21 | 27.28 |
| 2500 | 41.34 | 62.01 | 45.47 |

AIR TEST 80 PSI 0.55 MPA

316L/ 304L/ CN7M (Alloy 20)

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 230 | 345.00 | 253.00 |
| 300 | 600 | 900.00 | 660.00 |
| 600 | 1200 | 1800.00 | 1320.00 |
| 800 | 1600 | 2400.00 | 1760.00 |
| 900 | 1800 | 2700.00 | 1980.00 |
| 1500 | 3000 | 4500.00 | 3300.00 |
| 2500 | 5000 | 7500.00 | 5500.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 1.58 | 2.38 | 1.74 |
| 300 | 4.13 | 6.20 | 4.55 |
| 600 | 8.27 | 12.40 | 9.09 |
| 800 | 11.02 | 16.54 | 12.13 |
| 900 | 12.40 | 18.60 | 13.64 |
| 1500 | 20.67 | 31.01 | 22.74 |
| 2500 | 34.45 | 51.68 | 37.90 |

AIR TEST 80 PSI 0.55 MPA

LCB

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 265 | 397.50 | 291.50 |
| 300 | 695 | 1042.50 | 764.50 |
| 600 | 1395 | 2092.50 | 1534.50 |
| 800 | 1975 | 2962.50 | 2172.50 |
| 900 | 2090 | 3135.00 | 2299.00 |
| 1500 | 3480 | 5220.00 | 3828.00 |
| 2500 | 5805 | 8707.50 | 6385.50 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 1.83 | 2.74 | 2.01 |
| 300 | 4.79 | 7.18 | 5.27 |
| 600 | 9.61 | 14.42 | 10.57 |
| 800 | 13.61 | 20.41 | 14.97 |
| 900 | 14.40 | 21.60 | 15.84 |
| 1500 | 23.98 | 35.97 | 26.37 |
| 2500 | 40.00 | 59.99 | 44.00 |

AIR TEST 80 PSI 0.55 MPA

LCC

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 290 | 435.00 | 319.00 |
| 300 | 750 | 1125.00 | 825.00 |
| 600 | 1500 | 2250.00 | 1650.00 |
| 800 | - | - | - |
| 900 | 2250 | 3375.00 | 2475.00 |
| 1500 | 3750 | 5625.00 | 4125.00 |
| 2500 | 6250 | 9375.00 | 6875.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 2.00 | 3.00 | 2.20 |
| 300 | 5.17 | 7.75 | 5.68 |
| 600 | 10.34 | 15.50 | 11.37 |
| 800 | - | - | - |
| 900 | 15.50 | 23.25 | 17.05 |
| 1500 | 25.84 | 38.76 | 28.42 |
| 2500 | 43.06 | 64.59 | 47.37 |

AIR TEST 80 PSI 0.55 MPA

F5, F11, F22, F51, CE8MN

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|---------|---------|---------------------|---------------------|
| 150 | 290 | 435.00 | 319.00 |
| 300 | 750 | 1125.00 | 825.00 |
| 600 | 1500 | 2250.00 | 1650.00 |
| 800 | 2000 | 3000.00 | 2200.00 |
| 900 | 2250 | 3375.00 | 2475.00 |
| 1500 | 3750 | 5625.00 | 4125.00 |
| 2500 | 6250 | 9375.00 | 6875.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|---------|---------|---------------------|---------------------|
| 150 | 2.00 | 3.00 | 2.20 |
| 300 | 5.17 | 7.75 | 5.68 |
| 600 | 10.34 | 15.50 | 11.37 |
| 800 | 13.78 | 20.67 | 15.16 |
| 900 | 15.50 | 23.25 | 17.05 |
| 1500 | 25.84 | 38.76 | 28.42 |
| 2500 | 43.06 | 64.59 | 47.37 |

AIR TEST 80 PSI 0.55 MPA

CAST IRON

| CLASS # | CWP-PSI | BODY TEST X 1.5 PSI | SEAT TEST X 1.1 PSI |
|--------------------|---------|---------------------|---------------------|
| Table E (16 Bar) | 232 | 348.00 | 255.20 |
| Table E (14 Bar) | 200 | 300.00 | 220.00 |
| PN16 (16 Bar) | 232 | 348.00 | 255.20 |
| Class 125 (10 Bar) | 150 | 225.00 | 165.00 |

| CLASS # | CWP-MPA | BODY TEST X 1.5 MPA | SEAT TEST X 1.1 MPA |
|------------------|---------|---------------------|---------------------|
| Table E (16 Bar) | 1.60 | 2.40 | 1.76 |
| Table E (14 Bar) | 1.38 | 2.07 | 1.52 |
| PN16 (16 Bar) | 1.60 | 2.40 | 1.76 |
| PN10 (10 Bar) | 1.00 | 1.50 | 1.10 |

AIR TEST 80 PSI 0.55 MPA

CWP shown as per ASME B16.34-2013.
Test duration can be as per API598 (ISO 5208) or API6D (ISO 14313)