



ISO 9001 ✓

xanik

EPX 002

TEST SPECIFICATION FOR HF VALVES

REVIEW:

F

DATE : JUNE, 2008

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TABLE 1
SPECIFICATIONS FOR THE 7 TESTS FOR HF SERVICE VALVES
GATE, GLOBE, CHECK VALVES FROM 1/2" TO 36"
CLASSES 150, 300, 600 API 600 – CLASS 800 API 602

TEST				TEST COMPONENT	STEM/WEDGE POSITION	xanik ALLOWABLE LEAKAGE RATE	OBSERVATIONS APPLICABLE REFERENCE STANDARDS
No.	TYPE	PRESSURE (PSIG)	MINIMUM TIME (MINUTES)				
1	HELIUM	500	3 (*)	BACKSEAT	TOTALLY OPEN	ZERO	ASME B16.34 & ISO 5208
2	HELIUM	500	5	SHELL	PARTIALLY OPEN	ZERO	ASME B16.34 & ISO 5208
3	HIGH PRESSURE PARAFFINIC OIL	1.5 TIMES WORKING PRESSURE	5	SHELL	PARTIALLY OPEN	ZERO	ADJUST PACKING AS REQUIRED TO STOP ANY LEAKAGE DURING THE TEST ASME B16.34 & ISO 5208 (FOR PRESSURES SEE TABLE 3)
4	HIGH PRESSURE CLOSURE PARAFFINIC OIL	1.1 TIMES WORKING PRESSURE	3 (*)	SEAT A	CLOSED	ZERO	ASME B16.34 & ISO 5208 (FOR PRESSURES SEE TABLE 3)
5	HIGH PRESSURE CLOSURE PARAFFINIC OIL	1.1 TIMES WORKING PRESSURE	3 (*)	SEAT B	CLOSED	ZERO	ASME B16.34 & ISO 5208 (FOR PRESSURES SEE TABLE 3)
6	LOW PRESSURE CLOSURE AIR	60-100	3 (*)	SEAT A	CLOSED	ZERO	ASME B16.34 & ISO 5208
7	LOW PRESSURE CLOSURE AIR	60-100	3 (*)	SEAT B	CLOSED	ZERO	ASME B16.34 & ISO 5208

NOTE *: FOR GATE AND GLOBE VALVES IN 1/2", 3/4" AND 1" SIZES, THE TESTING TIME IS 1 MINUTE MINIMUM

NOTE 1: TEST PRESSURE GAGES ARE SHOWN IN TABLE 2 AND SHOULD NOT BE LESS THAN 1.5" DIAL DIAMETER

NOTE 2: TEST TEMPERATURE USING KEROSENE SHOULD NOT EXCEED OF 52°C (125°F)

NOTE 3: OPENING AND CLOSING OPERATION SHOULD BE MADE WITHOUT ANY PROBLEM AND PERFORMED AT LEAST 2 TIMES BEFORE TESTING THE VALVE

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**TABLE 2
TEST PRESSURE GAGES**

MANOMETER CAPACITY (PSI)	MANOMETER MEASUREMENT RANGE (PSI) 25-75% of Manometer Capacity
200	50 a 150
500	125 a 375
1000	250 a 750
1500	375 a 1125
3000	750 a 2250
5000	1250 a 3750
7500	1875 a 5625
10000	2500 a 7500
14000	3500 a 10500
23000	5750 a 17250

**TABLE 3
TEST PRESSURES USING PARAFFINIC OIL**

MATERIAL GROUP NUMBER	MATERIAL NOMINAL DESIGNATION	SPECIFICATION NUMBER	MINIMUM TEST PRESSURE							
			150		300		600		800	
			SHELL	SEAT	SHELL	SEAT	SHELL	SEAT	SHELL	SEAT
1.1	CARBON STEEL	A216 WCB A105	450	320	1125	825	2225	1650	2975	2175
3.4	67 Ni-30 Cu	A494 M35-1	350	260	900	660	1800	1320	2800	2050

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