

# MASTER LEAK

## Leak detector Calibration checking

MASTER LEAKS ARE USED FOR CHECKING CALIBRATION AND CALIBRATING ATEQ FLOWMETERS FROM THE F AND G RANGE.

THE LEAKS ARE DELIVERED WITH A CERTIFICATE OF CALIBRATION IN A PROTECTIVE BOX, MOUNTED ON A QUICK CONNECTOR.

Pressure	Type of leak/rate in air at 20°C and 1013 hPa										
	A	B	5	C	D	50	E	F	G	1000	5000
20 mbar					8,2	16	34,7	1,3	2,7	5,8	52
50 mbar				8,7	21	41	1,5	3,3	6,8	15	130
150 mbar		6,0	13	27	64	2,2	4,7	10	21	47	383
200 mbar		8,1	17	37	88	3,0	6,3	14	29	64	505
300 mbar	5,8	13	26	57	2,3	4,6	9,8	21	45	99	740
500 mbar	10	22	46	1,7	4,1	8,2	17	38	81	176	1198
750 mbar	17	36	75	2,8	6,7	13	28	62	132	281	1823
850 mbar	19	42	88	3,3	7,8	15	32	73	155	325	2049
1 bar	23	51	1,8	4,0	9,5	19	40	90	190	394	2404
2 bar	58	2,2	4,6	10	24	46	95	234	486	904	4709
4 bar	2,7	6,1	13	27	61	118	233	665	1305	2086	9357
10 bar	11	24	51	99	213	394	729	2810	4620	6143	
20 bar	31	65	134	247	512	916	1661				
- 0,1 bar			7,8	17	39	78	2,8	6,1	13	28	237
- 0,2 bar		7,1	15	31	75	149	5,3	12	24	53	427
- 0,5 bar	7,4	15	32	69	163	324	11,3	25	52	112	813
- 0,75 bar	9,8	20	42	90	212	418	14,5	29	66	142	991
- 0,85 bar	10,6	22	45	97	225	443	15,4	35	70	149	1032
- 0,95 bar	11,3	23	47	101	235	462	15,9	36	73	153	



■ cm<sup>3</sup>/h □ cm<sup>3</sup>/min

Note: the values indicated above are given for information and can vary  $\pm 20\%$ . The true leak rate is precisely measured before delivery with an accuracy of  $\pm 5\%$  of the value for a use between 15°C to 35°C. Special master leaks can be manufactured on request, within  $\pm 5\%$  of the nominal value.

### Operating instruction



- The leak must be used with dry and clean air.
- The "o" ring located inside the leak must be checked.
- The leak must not be used under water, and must be put in its box after use.
- The leak can be visually checked by generating bubbles using tubing under water.
- The zero of the instrument must be checked by blanking the instrument output with cap.
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- Option: an extra leak can be provided in the same box to allow a double calibration check or a spare calibration office to be used when one is sent to our laboratory for a recertification.