

BOEHRINGER®

INSTRUCTIONS

**INSPIRATORY FORCE METER –
ENDOTRACHEAL TUBE CUFF PRESSURE METER**

MODELS 4102, 4103

Description

The Boehringer Inspiratory Force Meter is an accurate aneroid manometer for use in the assessment of ventilatory weaning parameters. It is equipped with a removable, safety-ported manifold tube (15 mm ID, 22 mm OD) for attachment to standard anesthesia fittings or to a mask. The safety manifold tube may be autoclaved, gas sterilized or cleaned in Cidex.

Note: Do not Autoclave the Inspiratory Force Meter

Contraindications, Warnings, Cautions

CAUTION: FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF PHYSICIAN

Be certain to disconnect stopcock, gauge, and syringe from cuff to avoid loss of cuff pressure from inadvertent disconnect.

Directions for Use

Inspiratory Force

To record pressures, after administering 100% O₂, attach the meter to the patient's airway. The red "lazy hand" memory pointer should be returned to zero, prior to measurement. To occlude the airway, the manifold's safety port is covered by the operator's finger or thumb. The patient should be observed closely during this period, to detect possible ill effects of airway occlusion. (Some authors recommend a 15 second period of airway occlusion, and require achievement of at least 25 cm H₂O negative pressure, prior to extubating a patient following neuromuscular blockade. *)

Cuff Pressure Monitor (see Fig. 1)

To use the Inspiratory Force Meter as a cuff pressure monitor, first remove the nylon manifold from the gauge. Firmly plug the male-male luer adapter into the gauge. Attach the three-way stopcock to the gauge, filling syringe and cuff as shown in the diagram on the next page. Move the stopcock to the "on" position and read cuff pressure while filling. You may then unplug the stopcock from the cuff, or turn the stopcock to the "off" position and unplug.

References

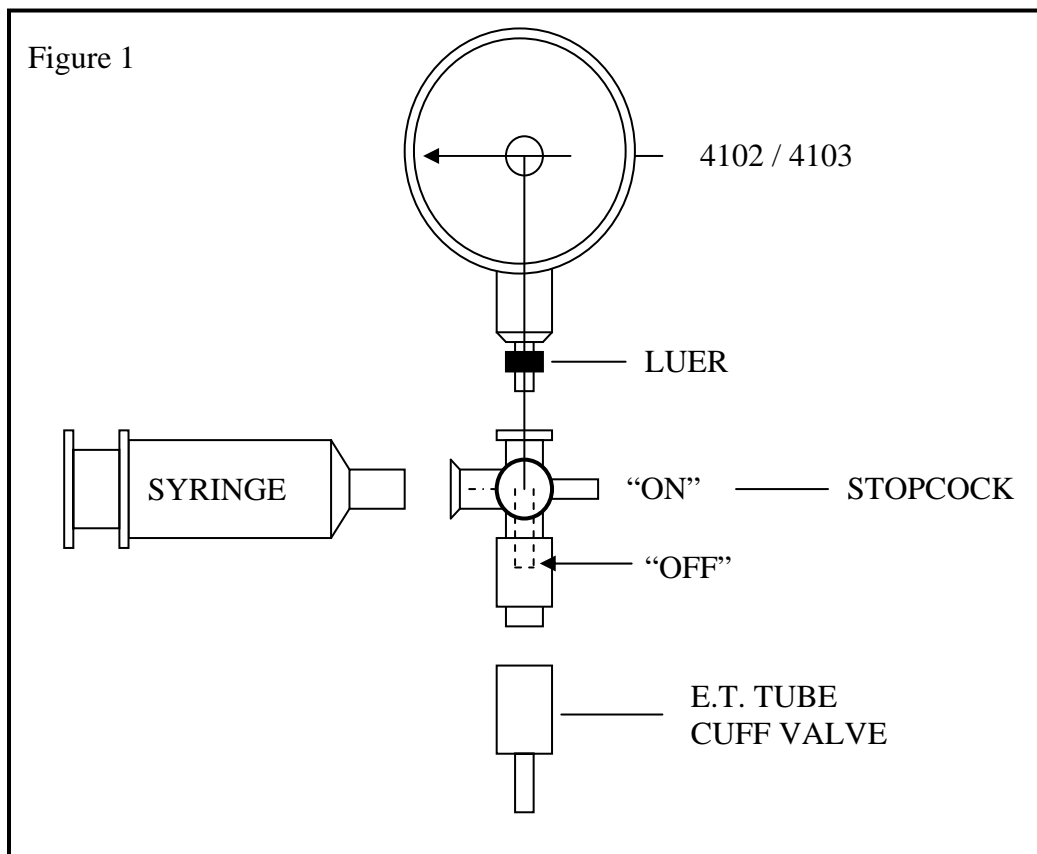
*Bendixen, H.D., Egbert, L.D., Hedley-Whyte, J., Laver, M.B., and Pontoppidan, H., Respiratory Care. (St. Louis: C.V. Mosby, 1965.)

Crespo, Airton S. Predictors of Weaning. RT International 4: 63-65, 1995.

Szeinberg, A., Marcotte, J.E., Roizin, H., Mindorff, C., England, S., Tabachnik, E., and Levison, H. Normal Values of Maximal Inspiratory and Expiratory Pressures With a Portable Apparatus in Children, Adolescents, and Young Adults. *Pediatric Pulmonology* 3: 255-258, 1987.

Specifications

- RANGE: Model #4102 ± 60 cm H₂O
Model #4103 ± 150 cm H₂O
- ACCURACY: $\pm 3\%$ full scale
- FITTING: 15 mm – 22 mm manifold and standard luer
- DISINFECTION: 100 EtO cycles minimum, refer to BL# 4100.018
- DIAMETER: 2.75"
- LENGTH: 5.375"
- WIDTH: 1.625"
- WEIGHT: 10 oz.



**BOEHRINGER LABORATORIES, LLC, PO BOX 870 NORRISTOWN, PA 19404
800-642-4945**

© 1980, 1990, 1992, 1997, 2007 Boehringer Laboratories, Inc.