

# METHODS OF MEASURING

This manual was developed to provide consistency in the methods of measuring between Orvis and your company. These methods are used in both the Orvis Technical Design and Quality Assurance departments. Each point of measure in this guide includes a photo and description for easy reference

### GENERAL GUIDELINES

- Measurements are taken with all fasteners and vents fully closed unless otherwise stated.
- Garments are to be measured flat on a table with all wrinkles smoothed out.
- All measurements are for finished garments, after wash or garment dye, if applicable.
- Knit top measurements are given as half circumference, or width.
- Knit pant, knit skirt, and all woven items measurements are given as full circumference. Any exceptions to this rule will be noted.
- Styling features not covered in this manual will be explained in detail on the individual tech pack.
- If you have questions regarding the method of measuring for any point, please contact the technical designer listed in the tech pack.
- Some common terminology references used in this manual and in the tech packs include:
  - 1. CF—center front
  - 2. CB—center back
  - 3. CBN—center back neck
  - 4. HPS—high point of shoulder. HPS is determined by placing a straight edge across from shoulder/neck seam to shoulder/neck seam, or inside edge to inside edge, as shown below. At Orvis, we most often use the sharp edge of a table as a straight edge.





### METHOD OF MEASURING TOPS/ DRESSES



### 1) Chest/Bust

a) Measure straight across garment 1" below armhole, edge to edge.



b) For shirts with back pleats, measure from back 1" below armhole, edge to edge, with pleats pulled open.



c) For dolman sleeve shirts, measure X" down from HPS (as listed in tech pack), then straight across from edge to edge.



### 2) Waist

a) Measure X" down from HPS (as listed in tech pack), then straight across, edge to edge.



### 3) Sweep

a) For garments with a straight hem, measure straight across bottom from edge to edge.



b) For garments with shirttail hem or curved hem, measure at the top of the shirttail or curve, straight across from edge to edge.



c) For garments with side slits, measure at the top of the side slits, straight across from edge to edge.



### 4) Center Back Length

a) For garments with collar or neck seam, measure from center back neck at seam to bottom edge.



b) For garments without collar or neck seam, measure from center back neck at top edge to bottom edge.



### 5) Front Length

a) For straight hem, measure from HPS on front of garment to bottom edge.



b) For irregular hem or shirttail hem, measure from HPS on front of garment straight down, level with the lowest point of garment.



### 6) CB Bodice Length

a) Measure from center back neck to waist seam or top of waist tunnel.



### 7) Torso Length

a) Measure in a straight line from HPS to crotch fold.



### 8) Dress Skirt Length

a) At center back, measure from waist seam to bottom edge.



### 9) Dress Hip

a) Measure X" down from HPS (as listed in tech pack) and then measure straight across from edge to edge.
Unless otherwise noted, pleats should be pulled open.



### 10) Across Shoulder

a) Measure across back of garment from armhole seam to armhole seam, at shoulder fold points.



b) For sleeveless garments, measure across back of garment from armhole edge to armhole edge, at shoulder fold points.



#### 11) Across Back (or X-Back)

a) On back of garment, measure X" down from HPS (as listed in tech pack), then straight across from armhole seam to armhole seam (or edge to edge on sleeveless items).



### 12) Across Chest (or X-Chest)

a) On front of garment, measure X" down from HPS (as listed in tech pack), then straight across from armhole seam to armhole seam (or edge to edge on sleeveless items).



### 13) Sleeve Length

a) From Armhole: Measure from top of sleeve/armhole seam along outside edge of sleeve fold to end of cuff.



b) From Center Back Neck: Measure from CBN, across shoulder, pivoting tape as needed to follow outside edge of sleeve, to end of cuff.



c) Underarm Sleeve: Measure from bottom of armhole seam along inside edge of sleeve to end of cuff.



### 14) Armhole

a) Woven Circumference: Align front armhole seam over back armhole seam. Measure along seam on the body from underarm to shoulder.



b) Knits and Sweaters Straight Measure: Measure in a straight line from shoulder point to underarm point.



c) Sleeveless: Measure straight from shoulder point to underarm point. In some cases, both straight and circumference measurements will be used.



d) Raglan Armhole Length: In a straight line, measure from HPS to underarm seam.



e) Armhole Depth: Measure straight down from HPS to a level perpendicular to underarm.



### 15) Upper Arm/Muscle

a) Measure 1" below armhole, straight across sleeve, parallel to sleeve opening, edge to edge.



#### 16) Forearm

a) Measure X" up (as listed in tech pack) from end of cuff, straight across sleeve, parallel to sleeve opening, edge to edge.



### 17) Sleeve/Cuff Opening

a) Measure straight across, edge to edge.



b) Extended: Measure straight across, edge to edge, with all fullness pulled out.



### 18) Cuff/Sleeve Hem Height

a) Measure from seam or stitch line to cuff edge.



### 19) Shoulder Slope

a) Measure straight down from HPS to shoulder fold at armhole seam or armhole edge.



### 20) Shoulder Forward Roll

a) At HPS, measure perpendicularly from shoulder fold to shoulder/yoke seam.



### 21) Sleeve Cap Height

a) With sleeve folded along straight grain, measure sleeve along center fold. Then measure the sleeve underarm seam and subtract from outer sleeve length.



b) Perpendicular Method: With sleeve folded along straight grain, draw a perpendicular line from underarm to sleeve fold. Measure from armhole seam to perpendicular line.



### 22) Sleeve Cap Width

a) At X" down from top of sleeve (as listed in tech pack), measure across sleeve cap from seam to seam, perpendicular to grain.



#### 23) Neck Width

a) Seam to Seam: Measure straight across HPS from neck seam left to neck seam right.



b) Inside: Measure straight across HPS inside neck opening, edge to edge.



#### 24) Neck Width Extended

a) Align front neck on top of back neck and gently extend neck to its natural limit. Measure straight across from edge to edge. This is easiest with a ruler fixed to the work surface. If the garment has a collar, extend and measure the garment along the actual neck seam.



## 25) Neck Width at Top Opening

a) Align front collar edge over back collar edge. Measure straight across opening from edge to edge.



#### 26) Neckband Length

a) With collar open and flat, measure through center of neckband from center of button to outer edge of buttonhole.



### 27) Neckband Circumference

a) With neckband buttoned, align front evenly over back, and measure from edge to edge through center of neckband.



### 28) Front Neck Depth/Drop

a) Measure from HPS straight down to front neck edge, front neck seam, or 1st button, (as listed in tech pack).



### 29) Back Neck Depth/ Drop

a) Measure from HPS straight down to a point level with neck edge or back neck seam.



### 30) CB Collar Height

a) At center back, measure straight from collar edge to collar seam.



## 31) CB Neckband/Collarstand Height

a) At center back, measure straight from collar seam to neck seam.



### 32) Collar Point

a) Measure from collar point to seam.



b) With lapel: Measure from collar point to notch.



### 33) Lapel Width

a) Measure straight across from lapel point to lapel fold.



### 34) Lapel Point

a) Measure from lapel point to lapel notch.



### 35) Lapel Notch Spread

a) Measure distance from collar point to lapel point.



### 36) Collar Point Spread

a) With all buttons fastened and neckband flat against table, measure straight across from collar point to collar point.



### 37) Center Back Yoke Depth

a) At CBN, measure straight down from neck seam to yoke seam.



### 38) Front Yoke Depth

a) On front, measure straight down from HPS to yoke seam.



### 39) Hood Height

a) At front opening: fold hood in half with front opening edges even.Measure along front opening from top edge to neck seam.



b) From HPS: fold hood in half with front opening edges even. Measure from top of hood to HPS.



c) Hood face opening: measure from top of hood opening in a straight line to bottom of hood opening.



### 40) Hood Width

Fold hood in half with front opening edges even. At X" down from top edge (as listed in tech pack), measure straight across from hood fold to opening edge.



### 41) Placket Width

a) Measure straight across from edge to edge, or seam to edge.



### 42) Placket Length

a) Measure straight down through center of placket from top edge or neck seam to bottom seam or topstitch.



### 43) Side Slit

a) Even hem: Measure actual opening from top of slit to bottom edge.



b) For garments with an uneven hem, measure from the top of the side slit to the lowest point (as listed in tech pack).



### 44) Back Vent

a) Measure from top of vent opening to bottom edge of garment.



### 45) Pleat Depth

a) Insert tape under pleat to measure depth.



### 46) Front or Back Dart from HPS

a) From HPS, measure straight down to top of dart.



### 47) Front or Back Dart from CF or CB

a) Measure X" down from HPS (as listed in tech pack). Then measure horizontally from dart to CF or CB.



### 48) Front or Back Dart Length

a) Measure along dart from top point to bottom point.



### 49) Bust Dart Point from HPS

a) Measure straight down from HPS to a level perpendicular to bust dart point.



### 50) Bust Dart Leg from HPS

a) Measure straight down from HPS to a level perpendicular to bust dart at side seam.



### 51) Bust Dart Length

a) Measure along dart from side seam to point.



#### 52) Pocket H x W

a) Measure height and width of pocket (as listed in tech pack) from edge to edge in both directions.



### 53) Pocket Placement from HPS

a) Measure straight down from HPS to a level perpendicular to the top edge of the pocket or flap.



b) For angled pockets: Measure straight down from HPS to a level that is perpendicular to the most CF corner of the pocket.



### 54) Pocket Placement from CF

a) Measure straight across from the pocket edge, or flap edge to CF.

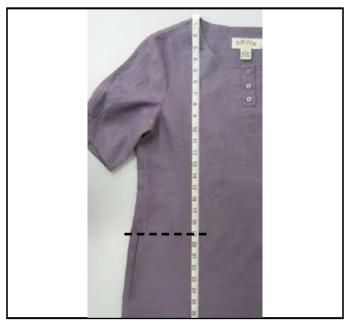


b) For angled pockets: measure straight across from CF to the most CF corner of the pocket.



### 55) On Seam Pocket Opening

a) Measure actual usable opening.



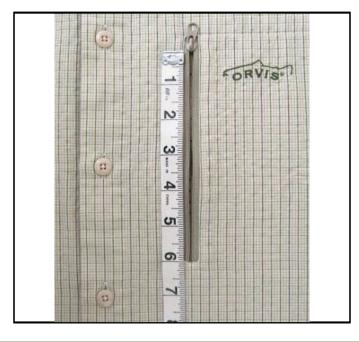
### 56) On Seam Pocket Placement

a) Measure straight down from HPS, armhole seam, or waist seam(as listed in tech pack) to top of pocket opening.



### 57) Zipper Length

a) For fixed-length zippers: Ensuring that zipper is smooth and flat, measure from top stop to bottom stop.



b) Functional zipper opening: With zipper not open, measure from edge of zipper slider to bottom of opening.

### METHOD OF MEASURING BOTTOMS



### 1) Waist Circumference

a) MEN'S—Waist Inside: Lay waistband smooth and flat with the top edges of the front and back waistband aligned. Measure straight across top of band from inside edge to inside edge.



b) MEN'S—Waist Outside: Lay waistband smooth and flat with the top edges of the front and back waistband aligned. Measure straight through center of band from outer edge to outer edge.



c) WOMEN'S—Garments with waistband: Lay waistband smooth and flat with the top edges of the front and back waistband aligned. Measure straight through center of band from outer edge to outer edge.



d) WOMEN'S—Garments without waistband or contour waistbands: Lay waist area smooth and flat with the top edges of the front and back waistline aligned. Measure along top from outer edge to outer edge.



e) Extended waist: Lay waistband with the top edges of the front and back waistband aligned. Gently extend waist to its natural limit. Measure straight across from outer edge to outer edge. This is easiest with a ruler fixed to the work surface.



### 2) Waistband Height

a) Measure straight from waistband edge to seam.



### 3) Side Back Elastic

a) Measure through center of waistband from elastic stitch line to elastic stitch line.



### 4) High Hip

a) Measure X" down from waistband seam or top edge (as listed in tech pack) at CF and side seams. In a 3-point motion, start at side seam, pivot at center and finish at opposite side seam. In a pleated garment, measure with the pleats closed.



### 5) Low Hip

a) X" Below WB: Measure X" down from waistband seam or top edge (as listed in tech pack) at CF and side seams. In a 3-point motion, start at side seam, pivot at center and finish at opposite side seam. In a pleated garment, measure with the pleats open.



b) X"Above Crotch: Measure X" up from crotch seam (as listed in tech pack) and mark point. Then measure down from waistband the distance to marked point at CF and side seams. In a 3-point motion, start at side seam, pivot at center and finish at opposite side seam. In a pleated garment, measure with the pleats open.



### 6) Thigh

a) With leg folded at outseam, measure along inseam, X" down from crotch (as listed in tech pack). Then measure straight across leg edge to edge, parallel to bottom hem.



### 7) Knee

a) With leg folded at outseam, measure along inseam, X" down from crotch (as listed in tech pack). Then measure straight across leg edge to edge, parallel to bottom hem.



### 8) Leg Opening

a) At bottom: Measure straight across bottom opening edge to edge.



b) At 8" up from bottom: Measure 8" up from edge of pant leg, then measure straight across edge to edge.



### 9) Inseam

a) Measure from crotch seam to bottom of leg, following seam on front panel, including cuff where applicable.



### 10) Outseam

a) Measure from waistband seam or top edge (as listed in tech pack), along outside edge of leg to bottom, including cuff where applicable.



### 11) Front Rise

a) Align front rise seam in as straight a line as possible without stretching. Measure center front seam from crotch seam to waistband seam or top edge (as listed in tech pack).



### 12) Back Rise

a) Align back rise seam in as straight a line as possible without stretching. Measure center back seam from crotch seam to waistband seam or top edge (as listed in tech pack).



### 13) Skirt Sweep

a) Straight Measure: At bottom of skirt, measure in a straight line from edge to edge.



b) Along Curve: At bottom of skirt, measure following hem shape from edge to edge.



### 14) CB Skirt Length

a) Measure from below waistband seam or from top edge (as listed in tech pack) to bottom edge at center back.



### 15) Yoke Depth

a) CF or CB: Measure from below waistband seam or top edge (as listed in tech pack) to yoke seam at center front or center back.



b) Side Seam: Measure from below waistband seam or top edge (as listed in tech pack) to yoke seam along side seam.



### 16) Zipper Length

a) Purchased Zipper Length: Measure from top stop to bottom stop.



b) Functional Zipper Opening: With zipper fully opened, measure from top stop to top of zipper slider.



### 17) Pocket H x W

a) Measure height and width of pocket (as listed in tech pack) from edge to edge in both directions.



# 18) Pocket Placement from Waistband, Top Edge, or Yoke

a) Measure straight down from waistband seam, top edge, or yoke (as listed in tech pack) to top of pocket.



### 19) Pocket Placement from CF/CB or Side Seam

a) From CF or CB: measure straight across from top of pocket to specified seam.



b) From Side Seam: measure straight across from side seam to top of pocket.



### 20) On Seam Pocket Opening

a) Measure actual usable opening.



### 21) On Seam Pocket Placement:

a) Measure from below waistband or top edge (as listed in tech pack) to top of pocket opening.



### 22) Slash/Quartertop Pockets

a) From Side Seam: Measure from side seam to edge of pocket along waistband seam. Fully extend any elastic in this area if applicable.



b) From Waist: Measure from waistband seam to edge of pocket along side seam.



c) Opening: Measure along angle of pocket opening from bartack to bartack.



### 23) Back Vent

a) Measure from top of vent opening to bottom edge of garment.



### 24) Pleat Depth

a) Insert tape under pleat to measure depth.



### 25) Dart Length

a) Measure from waistband or top edge (as listed in tech pack) along dart to end.



### 26) Dart Placement from CF or CB

a) Measure from dart to specified seam along waist seam or top edge.



### 27) Belt Loops

a) Total Height: Measure loop from top fold to bottom fold.



b) Functional Height: Measure actual usable opening of loop.



c) Width: Measure across loop from edge to edge.

### 28) Belt Details

a) Belt Length: Measure from bar to center hole or belt end (as listed in tech pack).



b) Sash Length: Measure from end to end at longest points.



c) Width: Measure across belt from edge to edge.





### 29) Hem/Cuff Height

a) Measure straight from hem stitching or top of cuff to bottom edge.