



Notes:

1) Type of steel used is HSS or structural tubing

- 2) Outside diameter of tubing 2"/2.5"
- 3) Wall thickness of tubing 0.238"/0.25"

4) Dimensions are approximations.

Detailed filling steps continues on the reverse page. **PipeSak QF Frame Dimensions:**

QF PipeSak Model	(A) (P6/P9)	(B) (P7)	(C) (P8)	(D)	(E) (P10)
QF6 PipeSak	45″	25″	25″	5″	6.625"
QF8 PipeSak	45″	25″	25″	5″	8.625″
QF10 PipeSak	60"	28″	33"	8″	10.75″
QF12 PipeSak	60"	28″	33"	8″	12.75″
QF16 PipeSak	70″	40"	44″	10"	16"
QF20-24 PipeSak	95″	56"	40″	12″	20-24″
QF30 PipeSak	110"	80″	48″	16″	30"
QF36 PipeSak	110″	83″	58"	20″	36"
QF42-48 PipeSak	110″	89"	68″	24″	42-48″

Technical Notes

Quick-Fill Assembly

GENERAL

PipeSak[®] QF (Quick-Fill) weights are designed to use local, natural aggregate as ballast – utilizing a specially developed quick-fill frame (a PipeSak[®] Pipeline Product Inc. tool available with your PipeSak[®] order). Filling can take place anywhere a few loads of gravel can be dropped off. For large quantities, it is recommended PipeSak[®] weights are filled locally, close to the pipeline, using a PipeSak[®] filling crew (i.e. contractor's yard or local gravel pit).

TYPE OF BALLAST

PipeSak® QF weight is designed to hold a specific volume of gravel ballast, based on a dry bulk density of at least 100 lbs/cu.m. (1,602 kg/ cu.m.) to achieve their design weight. The type of ballast used can vary from clean sand to a screened stone (1/8 in to 3/4 in). During freezing conditions, a clear, natural stone is recommended – free of silt and clay that may promote freezing.



Bill of Materials:

Part	Name	Description	ΩTY
P1	Corner Brace A	2.5" x 2.5" x 0.238" Square Tubing	2
P2	Corner Brace B	2.5" x 2.5" x 0.238" Square Tubing	2
P3	Center Brace*	2.5" x 2.5" x 0.238" Square Tubing	2
P4	Spreader Bar Support	2.5" x 2.5" x 0.238" Square Tubing	6
P5	Pipe Chalk	2.5" x 2.5" x 0.238" Square Tubing	4
P6	Length Tubing	2.0" x 2.0" x 0.25" Square Tubing	2
P7	Width Tubing	2.0" x 2.0" x 0.25" Square Tubing	3
P8	Height Tubing	2.0" x 2.0" x 0.25" Square Tubing	6
P9	Spread Bar	2.0" x 2.0" x 0.25" Square Tubing	2
P10	Pipe Joint	Equivalent to QF size	1
P11	Nuts and Bolts	$3/4^{\prime\prime}$ Nut and matching bolt	32

*Center Brace is only used when filling QF30 and above Contact PipeSak for further drawing information



Unfold, stretch bag to the frame.



Thread the two retaining rods.





Bag is centered along the rods.



Evenly fill with ballast.



Close the duffle.



Lifted higher to clear the frame.



Cut all white loops.



Attach all four yellow straps.



Transport to stockpile.

Technical Notes

Filling Instruction

FILLING

It is strongly recommended that filling be carried out by trained PipeSak® personnel.

Step 1: Unfold an empty PipeSak QF weight and make a quick visual inspection to ensure there are no obvious manufacturing defects.

Stretch open the bag and pull out all four lift straps (orange webbing) to the outside of the bag – two per side. Inner compartments should be pulled opened prior to setting in the fill frame.

Step 2: Place PipeSak QF over the 7' pipe of the diameter needed centered in the filling frame. Small corner loops (white webbing loops on inside of weight) should be pulled over the four corner posts of fill frame thereby securing the QF to the frame.

Thread the two retaining rods through the remaining loops two to three per side. Resting each rod on the brackets located on the top of the corner posts. To promote proper and even filling ALL retaining loops should be evenly centered along the retaining rods.

Step 3: With approved ballast, slowly add material until the bag touches the ground then EVENLY fill the QF weight to the top. Depending on material density this should achieve +/-5% the designed weight.

Step 4: Once filling is complete, cut all white loops from retaining rods and frame, releasing the weight from the frame.

Remove both retaining rods.

To prevent spillage, close the duffle top prior to lifting the PipeSak QF out of the frame. To securely and easily close the top, it is recommended the duffle rope be looped over the bucket of the filling equipment (skid steer or excavator) and lift - making sure not to break.

Secure the duffle top with a knot.

Step 5: Attach ALL four lifting straps (two outside and two inner, slip straps) to lifting device. Carefully remove filled QF bag from the frame. To limit damage and ensure worker and machinery safety, the QF bag must be lifted high to clear frame support stands.

Step 6: Transport filled PipeSak QF to stockpile location. When stacking, ensure both legs are supported.