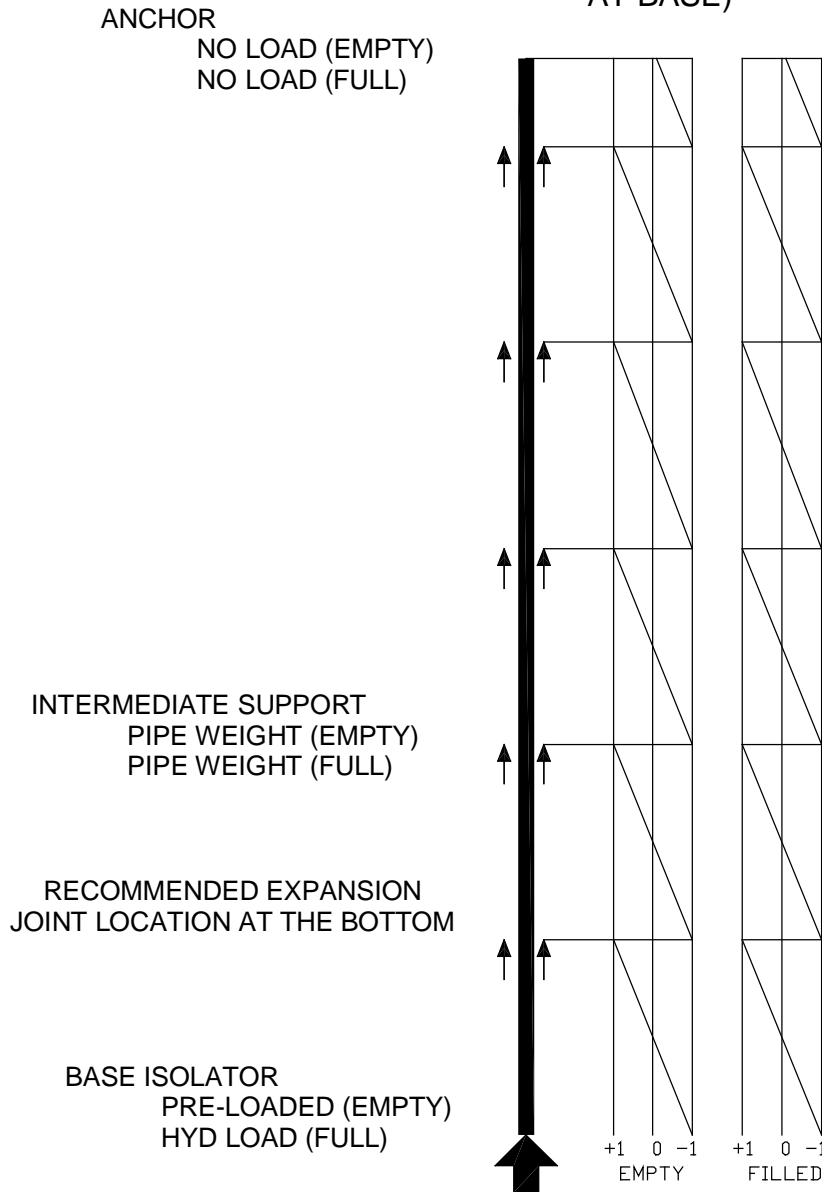


WELDED OR BOLTED FLANGE PIPE RISER (TOP RESTRAINED)

(ANCHORED AT TOP WITH NON-RESTRAINED SPRING INTERMEDIATE SUPPORTS AND VERTICALLY RESTRAINED SPRING ISOLATOR AT BOTTOM – WATER LOAD AT BASE)



RELATIVE PIPE STRESS ASSUMING PIPE WT/FT AND WATER WT/FT IS APPROXIMATELY EQUAL (12' STD WT PIPE)

USE WITH CAUTION ON EXPANSIVE SYSTEMS
DO NOT USE FOR CONTRACTIVE SYSTEMS

CONC HYD LOAD / TOP RESTRAINED / SOLID COUPLING - TYPE 1

PAGE 1 OF 2



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DOCUMENT:

R1.2



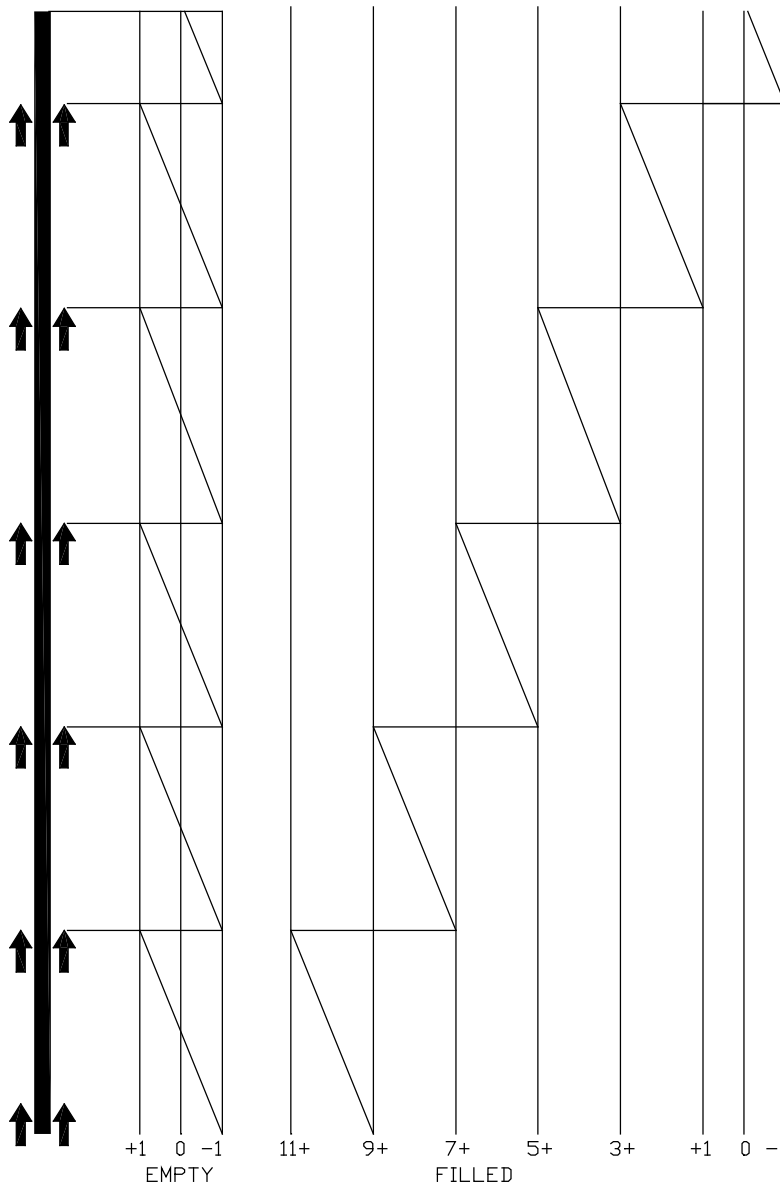
WELDED OR BOLTED FLANGE PIPE RISER (TOP RESTRAINED)

(ANCHORED AT TOP WITH VERTICALLY RESTRAINED SPRING PIPE SUPPORTS AT BASE AND INTERMEDIATE LOCATIONS – WATER LOAD DISTRIBUTED)

ANCHOR
NO LOAD (EMPTY)
NO LOAD (FULL)

INTERMEDIATE AND BOTTOM
SUPPORT
PIPE WEIGHT + PRE-
LOAD (EMPTY)
PIPE WEIGHT + LOCAL
WATER WEIGHT (FULL)

RECOMMENDED
EXPANSION JOINT
LOCATION AT THE BOTTOM



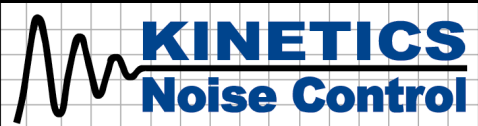
RELATIVE PIPE STRESS ASSUMING PIPE WT/FT AND WATER WT/FT IS APPROXIMATELY EQUAL (12' STD WT PIPE)

OK FOR EXPANSIVE SYSTEMS
DO NOT USE FOR CONTRACTIVE SYSTEMS

KINETICS™ Riser Design Manual

DIST HYD LOAD / TOP RESTRAINED / SOLID COUPLING - TYPE 2

PAGE 2 OF 2



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