Seismic Applications are basically the same as Non Seismic but complicated by the need to keep equipment in place. Whenever we show our Z-1011 heavily cushioned snubbers, the input to the equipment will not exceed 4 G. All mountings, hanger-cables or snubbers are designed to resist the seismic force in any zone or specification. Many of the mountings and hangers are the same as in static locations but designated by numbers in the Selection Guide rather than letters to distinguish the two applications. We hope these illustrations will help.

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**NOTE:** All floor mounted systems are on seismically attached Housekeeping Pads. All pipelines include Safeflex expansion joints to allow seismic movement.
**CENTRIFUGAL CHILLER** on **WFSL** Base with height saving brackets and high deflection **SLF** Mounts and **Z-1011** Seismic Restraints. Reinforced housekeeping pad secured by **HPA** Anchors. **SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**WFSL BASE - WIDE FLANGE STEEL**
Base minimum 6" (152mm) or 1/10 longest base dimension **SPECIFICATION 20**

**SLF MOUNTS**
With specified deflection **SPECIFICATION 5**

**SAFEFLEX SFDEJ EXPANSION JOINT**
Installed on equipment side of the shutoff valves **SPECIFICATION 23**

**HEIGHT SAVING BRACKETS**

**FRICITION PAD**
Bolting not required **SPECIFICATION 29**

**REINFORCED HOUSEKEEPING PAD**
Is attached to the structure to meet the seismic code by **HPA ANCHORS** locked to the pad reinforcing steel and screwed to **SAS FLOOR STUDS**. **SPECIFICATION 29**

**CR - CONTROL RODS**
Used only when **SAFEFLEX** cannot be preextended to pressurized length during installation **SPECIFICATION 17**

**RESILIENT Z-1011 SEISMIC SNUBBERS**
Must be secured with **SAB ANCHORS** **SPECIFICATION 17**
**CENTRIFUGAL CHILLER** directly mounted on seismically rated **SLR-MT** Restrained Twin Sphere Air Spring Mounts. Reinforced housekeeping pad secured by **HPA** Anchors. **SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SAFEFLEX SDJEJ EXPANSION JOINT** installed on equipment side of the shutoff valves. **SPECIFICATION 23**

**3 AIR SPRING LEVELING VALVES** (Piping Not Shown)

**CR - CONTROL RODS** used only when **SAFEFLEX** cannot be preextended to pressurized length during installation.

**CORNER VALVE** each side controls corner air springs

**SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SAFEFLEX SFDEJ EXPANSION JOINT** installed on equipment side of the shutoff valves. **SPECIFICATION 23**

**SLR-MT RESTRAINED TWIN SPHERE AIR SPRING MOUNT WITH SPECIFIED FREQUENCY**. **MUST BE SECURED WITH SAB ANCHORS**. **SPECIFICATION 9**

**SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

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**SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.
**RECIPIROCATING DIRECT DRIVE COMPRESSOR** with height saving brackets on high deflection SLF Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by **HPA Anchors**.

- **SLF SPRING MOUNTS** with specified deflection **SPECIFICATION 5**
- **HEIGHT SAVING BRACKET**
- **FRICION PAD BOLTING NOT REQUIRED**
- **COMPRESSOR MANUFACTURERS BASE MUST HAVE SUFFICIENT INTEGRITY TO ACCEPT MOUNTING AND SNUBBER LOADING**
- **REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY **HPA ANCHORS** LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO **SAS FLOOR STUDS**. **SPECIFICATION 29**
- **RESILIENT Z-1011 SEISMIC SNUBBERS MUST BE SECURED WITH **SAB ANCHORS** **SPECIFICATION 17**
**STEAM GENERATOR** directly mounted on **SLR** Restrained Spring Mounts. Reinforced housekeeping pad secured by **HPA** Anchors.

In seismic zones extended base plates may be required to meet bolting codes and must be anchored with **SAB ANCHORS.**

**SPECIFICATION 19**

**SLR RESTRAINED SPRING MOUNT** with specified deflection must be secured with **SAB ANCHORS**

**SPECIFICATION 9**

**REINFORCED HOUSEKEEPING PAD** is attached to the structure to meet the seismic code by **HPA ANCHORS** locked to the pad reinforcing steel and screwed to **SAS FLOOR STUDS.**

**SPECIFICATION 29**
DOUBLE SUCTION PUMP on concrete filled BMK Base with height saving brackets, high deflection SLF Spring Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

SAFEFLEX SFDEJ EXPANSION JOINT INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES

SPECIFICATION 23

CR - CONTROL RODS
USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

FILL PUMP BASE WITH GROUT IF CALLED FOR BY PUMP MANUFACTURER

RESILIENT Z-1011 SEISMIC SNUBBERS MUST BE SECURED WITH SAB ANCHORS
SPECIFICATION 17

HEIGHT SAVING BRACKETS

REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS.
SPECIFICATION 29

SLF SPRING MOUNTS WITH SPECIFIED DEFLECTION
SPECIFICATION 5

BMK BASE IS LARGE ENOUGH TO SUPPORT SUCTION AND DISCHARGE ELBOWS

BMK FLOATING CONCRETE BASE
MINIMUM 6" (150mm) OR 1/12 LONGEST BASE DIMENSION
SPECIFICATION 21

FRICTION PAD BOLTING NOT REQUIRED

SPECIFICATION 6S

SEISMIC APPLICATIONS

MASON INDUSTRIES
**END SUCTION PUMP** on WFSL Base with height saving brackets, high deflection SLF Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors. **SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SAFEFLEX SFDEJ EXPANSION JOINT**
	INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
	SPECIFICATION 23

**WFSL BASE** - WIDE FLANGE STEEL
	BASE MINIMUM 6" (152mm) OR 1/10 LONGEST BASE DIMENSION
	SPECIFICATION 20

**SAFEFLEX SFDEJ EXPANSION JOINT**
	INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
	SPECIFICATION 23

**FRICITION PAD BOLTNG NOT REQUIRED**

**WFSL BASE** IS LARGE ENOUGH TO SUPPORT SUCTION ELBOW

**RESILIENT Z-1011 SEISMIC SNUBBERS**
	MUST BE SECURED WITH SAB ANCHORS
	SPECIFICATION 17

**REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS.**
	SPECIFICATION 29

**SLF SPRING MOUNTS**
	WITH SPECIFIED DEFLECTION
	SPECIFICATION 5

**CR - CONTROL RODS**
	USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION
**END SUCTION PUMP** on WFSL Base with height saving brackets, MT Air Springs and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

- **WFSL BASE - WIDE FLANGE STEEL**
  - BASE MINIMUM 6" (152mm) OR 1/10 LONGEST BASE DIMENSION
  - SPECIFICATION 20

- **SAFEFLEX SFDEJ EXPANSION JOINT**
  - INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
  - SPECIFICATION 23

- **MT TWIN SPHERE AIR SPRINGS**
  - MUST BE INSTALLED WITH AIRSPRING LEVELING VALVES
  - SPECIFICATION 8

- **RESILIENT Z-1011 SEISMIC SNUBBERS**
  - MUST BE SECURED WITH SAB ANCHORS
  - SPECIFICATION 17

- **CORNER VALVE**
  - EACH SIDE CONTROLS CORNER AIR SPRINGS

- **REINFORCED HOUSEKEEPING PAD**
  - IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS.
  - SPECIFICATION 29

- **CR - CONTROL RODS**
  - USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

- **FRICITION PAD BOLTING NOT REQUIRED**

- **MT TWIN SPHERE AIR SPRINGS**
  - USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

- **SAFEFLEX SFDEJ EXPANSION JOINT**
  - INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
  - SPECIFICATION 23

- **3 AIR SPRING LEVELING VALVES**
  - (PIPING NOT SHOWN)

- **SAFEFLEX EXPANSION JOINT**
  - INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
  - SPECIFICATION 23

- **SAFEFLEX SFDEJ EXPANSION JOINT**
  - INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
  - SPECIFICATION 23
HVAC UNIT suspended from **RW30N** Hangers and restrained by **SCB** Cable Assemblies in four corners. **SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SCB** - **SEISMIC CABLE BRACING**
*Both sides (one side shown)*
**SPECIFICATION 12**

**SRC** - **SEISMIC ROD CLAMP AND ANGLE BRACES FOR THREADED RODS**
**SPECIFICATION 14**

**SCBH** - **SEISMIC CABLE BRACING HOOK**
**SPECIFICATION 12**

**RW30N SPRING HANGERS**
*With specified deflection*
**SPECIFICATION 10**

**SAFEFLEX SFDEJ EXPANSION JOINT**
*Installed on equipment side of the shutoff valves*
**SPECIFICATION 23**

**CR - CONTROL RODS**
*Used only when SAFEFLEX cannot be preextended to pressurized length during installation*
**HVAC UNIT** on steel base with height saving brackets, high deflection SLF Spring Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SLF SPRING MOUNTS** with specified deflection

**HEIGHT SAVING BRACKETS**

**FRICTION PAD** bolting not required

**REINFORCED HOUSEKEEPING PAD** is attached to the structure to meet the seismic code by HPA ANCHORS locked to the pad reinforcing steel and screwed to SAS FLOOR STUDS.

**RESILIENT Z-1011 SEISMIC SNUBBERS** must be secured with SAB ANCHORS.

**SAFEFLEX SFDEJ EXPANSION JOINT** installed on equipment side of the shutoff valves.

**WFSL BASE - WIDE FLANGE BASE BASE** minimum 6" (152mm) or 1/10 longest base dimension. Supplementary base is used to provide snubber attachment strength or support multiple sections.

**CR - CONTROL RODS** used only when SAFEFLEX cannot be preextended to pressurized length during installation.
HVAC UNIT directly mounted on 1" deflection SSLFH Spring Mounts. Reinforced housekeeping pad secured by HPA Anchors. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.
VERTICAL TANK TYPE COMPRESSOR directly mounted on BMK Concrete Filled Base, 1" deflection SLF Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors.

BMK FLOATING CONCRETE BASE
MINIMUM 6" (150mm)
OR 1/12 LONGEST BASE DIMENSION
SPECIFICATION 21

TEMPLATES

RESILIENT Z-1011 SEISMIC SNUBBERS
MUST BE SECURED WITH SAB ANCHORS
SPECIFICATION 17

REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS.
SPECIFICATION 29

HIGH CENTER OF GRAVITY WITHOUT CONCRETE BASE (POOR STABILITY)
LOWERED CENTER OF GRAVITY ON CONCRETE BASE (IMPROVED STABILITY)

CENTER OF GRAVITY IS LOWERED BY MASS OF BMK FLOATING CONCRETE BASE

SLF SPRING MOUNTS WITH SPECIFIED DEFLECTION
SPECIFICATION 5

STABILITY FURTHER IMPROVED BY SPREADING OF MOUNTS
HORIZONTAL TANK TYPE COMPRESSOR
directly mounted on SLR Restrained Spring Mounts.
Reinforced housekeeping pad secured by HPA Anchors.

REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS. SPECIFICATION 29

SLR RESTRAINED SPRING MOUNT WITH SPECIFIED FREQUENCY, MUST BE SECURED WITH SAB ANCHORS. SPECIFICATION 9

IN SEISMIC ZONES EXTENDED BASE PLATES MAY BE REQUIRED TO MEET BOLTING CODES AND MUST BE ANCHORED WITH SAB ANCHORS. SPECIFICATION 19
DIRECT DRIVE BLOWER bolted to MS-SLR Steel Angle Base supported by SLR-A Restrained Spring Mounts. Reinforced housekeeping pad secured by HPA Anchors.

**NOTE:** NO OUTBOARD SUPPORT LOCATION BY MANUFACTURER

**MS-SLR - STEEL ANGLE BASE**
Compensates for blower overhang and prevents tipping.

**SLR-A RESTRAINED SPRING MOUNT**
With specified deflection, wind resistant or seismic capacity which ever is higher. Must be secured with SAB Anchors. Specification 6

**REINFORCED HOUSEKEEPING PAD**
Is attached to the structure to meet the seismic code by HPA ANCHORS locked to the pad reinforcing steel and screwed to SAS FLOOR STUDS. Specification 29
UTILITY BLOWER directly mounted on seismically restrained SLR-A Mounts. Reinforced housekeeping pad secured by HPA Anchors. Also useful for non seismic outdoor windy locations.

SLR-A SPRING MOUNT WITH SPECIFIED DEFLECTION, WIND RESISTANT OR SEISMIC CAPACITY WHICH EVER IS HIGHER. MUST BE SECURED WITH SAB ANCHORS SPECIFICATION 6

NOTE: MOUNT LOCATION OMITTED BECAUSE OF SECTION TOTAL 6 MOUNTS

REINFORCED HOUSEKEEPING PAD IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS. SPECIFICATION 29
**CENTRIFUGAL BLOWER** on concrete filled **BMK** Base with height saving brackets, high deflection **SLF** Spring Mounts and **Z-1011** Seismic Snubbers. Reinforced housekeeping pad secured by **HPA** Anchors.

**BMK FLOATING CONCRETE BASE**
MINIMUM 6" (150mm) OR 1/12 LONGEST BASE DIMENSION
**SPECIFICATION 21**

**RESILIENT Z-1011 SEISMIC SNUBBERS**
**SPECIFICATION 17**

**REINFORCED HOUSEKEEPING PAD**
IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY 
**HPA ANCHORS** LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO **SAS FLOOR STUDS**. 
**SPECIFICATION 29**

**TEMPLATES**

**MOTOR SLIDE RAILS**
TO MATCH MOTOR FRAME

**HEIGHT SAVING BRACKETS**

**SLF SPRING MOUNTS**
WITH SPECIFIED DEFLECTION
**SPECIFICATION 5**

**FRICTION PAD BOLTING NOT REQUIRED**

**ANCHOR BOLTS AND ANCHOR SLEEVES**
**CENTRIFUGAL BLOWER** on concrete filled BMK Base with built in corners, 1" deflection SLF Spring Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors.

- **RESILIENT Z-1011 SEISMIC SNUBBERS**
  - **SPECIFICATION 17**
- **BMK FLOATING CONCRETE BASE**
  - Minimum 6" (150mm) or 1/12 longest base dimension
  - **SPECIFICATION 21**
- **MOTOR SLIDE RAILS**
  - To match motor frame
- **TEMPLATES**
- **FRICITION CUP BOLTING NOT REQUIRED**
- **REINFORCED HOUSEKEEPING PAD**
  - Is attached to the structure to meet the seismic code by HPA ANCHORS locked to the pad reinforcing steel and screwed to SAS FLOOR STUDS.
  - **SPECIFICATION 29**
- **RESILIENT Z-1011 SEISMIC SNUBBERS**
  - Must be secured with SAB ANCHORS
  - **SPECIFICATION 17**
- **SLF SPRING MOUNTS**
  - With specified deflection
  - **SPECIFICATION 5**
**AXIAL BLOWER with WBI/WBD Thrust Restraints mounted on WFSL Base**

with height saving brackets, high deflection SLF Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors.

- **WFSL - WIDE FLANGE STEEL BASE**
  - Minimum 6” or 1/10 longest base dimension
  - **SPECIFICATION 20**

- **RESILIENT Z-1011 SEISMIC SNUBBERS**
  - Must be secured with SAB Anchors
  - **SPECIFICATION 17**

- **SLF SPRING MOUNTS**
  - With specified deflection
  - **SPECIFICATION 5**

- **HANGER DEFLECTION**
  - **SPECIFICATION 28**

- **FRICTION PAD BOLTING NOT REQUIRED**

- **REINFORCED HOUSEKEEPING PAD**
  - Is attached to the structure to meet the seismic code by HPA ANCHORS locked to the pad reinforcing steel and screwed to SAS FLOOR STUDS.
  - **SPECIFICATION 29**

- **STEEL CROSS BRACING**

- **AIR FLOW**

- **HEIGHT SAVING BRACKETS**
AXIAL BLOWER with WBI/WBD Thrust Restraints suspended by RW30N Hangers and restrained by SCB Cable Assemblies

- **DOUBLE DEFLECTION NEOPRENE ELEMENT**
  - WITH PROJECTING BUSHING TO PREVENT STEEL TO STEEL CONTACT.
- **NEOPRENE SPRING CUP**
  - WITH A PROJECTING BUSHING TO PREVENT STEEL TO STEEL CONTACT
- **REBOUND WASHER**
  - TO PREVENT UP LIFT.
- **ROD CAN SWING 30° BEFORE CONTACTING RESILIENT BUSHING.**

**SCB - SEISMIC CABLE BRACING**
- BOTH SIDES (ONE SIDE SHOWN)
  - **SPECIFICATION 12**

**RW30N SPRING HANGERS**
- WITH SPECIFIED DEFORMATION
  - **SPECIFICATION 10**

**SRC - SEISMIC ROD CLAMP**
- AND ANGLE BRACES FOR THREADED RODS
  - **SPECIFICATION 14**

**SCBH - SEISMIC CABLE BRACING HOOK**
- **SPECIFICATION 12**

**WBI/WBD THRUST RESTRAINTS**
- ACROSS FLEXIBLE CONNECTION WITH DEFLECTION EQUAL TO HANGER DEFORMATION
  - **SPECIFICATION 28**

**AIR FLOW**

**ANGLE OF ATTACHMENT 45°**

**RESTRAINT ANGLE**
- 30° TO 60° TO STRUCTURE

**THREADED ROD**

**SWAY BRACING**
- NOT SHOWN THIS SIDE
LARGE MULTI-SECTIONED COOLING TOWER secured to steel base and beam supports using SLR-MT Restrained Air Spring Mounts. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

3 AIR SPRING LEVELING VALVES (PIPING NOT SHOWN)

SAFEFLEX SFDEJ EXPANSION JOINT INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES SPECIFICATION 23

3 CORNER AIR SPRINGS

STEEL BASE BY MASON

COLUMNS EXTENSIONS OR PEDESTALS PROPERLY REINFORCED

CORNER VALVE EACH SIDE. CONTROLS 3 SIDE AIR SPRINGS

ALL INTERFACES SECURED

CR - CONTROL RODS USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

SLR-MT RESTRAINED AIR SPRING MOUNTS WITH SPECIFIED FREQUENCY. WIND RESISTANT OR SEISMIC CAPACITY IN SEISMIC ZONES, WHICHERVER IS HIGHER. SPECIFICATION 9

STRUCTURAL SUB BASE NORMALLY BY OTHERS

30S
**LARGE MULTI-SECTIONED COOLING TOWER** secured to steel base and beam supports using high deflection **SLR** Restrained Spring Mounts. **SAFEFLEX** Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

**SAFEFLEX SFDEJ EXPANSION JOINT** installed on equipment side of the shutoff valves

**CR - CONTROL RODS**
- Used only when Safeflex cannot be preextended to pressurized length during installation

**STEEL BASE** by Mason

**HIGH DEFLECTION SLR RESTRAINED SPRING MOUNTS** with specified deflection.
- Wind resistant or seismic capacity in seismic zones, whichever is higher
- **SPECIFICATION 6**

**STRUCTURAL SUB BASE** normally by others

**ALL INTERFACES SECURED**

**SPRING DEFLECTION BASED ON FAN RPM WHEN LESS THAN 600 RPM**

**PROPERLY REINFORCED COLUMNS, Extensions OR PEDESTALS**

**21S**
PACKAGED HVAC COOLING TOWER on steel base with SLR-MT Restrained Twin Sphere Air Spring Mounts. SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

SLR-MT RESTRAINED TWIN SPHERE AIR SPRING MOUNTS WITH SPECIFIED FREQUENCY. WIND RESISTANT OR SEISMIC CAPACITY IN SEISMIC ZONES, WHICHEVER IS HIGHER. SPECIFICATION 9

SAFEFLEX SFDEJ EXPANSION JOINT INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES SPECIFICATION 23

CR - CONTROL RODS USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

ADDITIONAL STEEL TO HOLD AIR SPRING LEVELING VALVES

3 AIR SPRING LEVELING VALVES (PIPING NOT SHOWN)

CONTROLS 2 END AIR SPRINGS

STEEL BASE BY MASON

CORNER VALVE EACH SIDE CONTROLS CORNER AIR SPRINGS

PROPERLY REINFORCED COLUMNS, EXTENSIONS OR PEDESTALS
ROOFTOP PACKAGED HVAC COOLING TOWER
on steel base and SLR Restrained Spring Mounts.
SAFEFLEX Expansion Joints are installed in pipelines to reduce blade frequency vibration and noise and to allow for seismic displacement.

HIGH DEFLECTION SLR RESTRAINED SPRING MOUNTS
WITH SPECIFIED DEFLECTION. WIND RESISTANT OR SEISMIC CAPACITY IN SEISMIC ZONES, WHICHERVER IS HIGHER.
SPECIFICATION 6

SAFEFLEX SFDEJ EXPANSION JOINT
INSTALLED ON EQUIPMENT SIDE OF THE SHUTOFF VALVES
SPECIFICATION 23

CR - CONTROL RODS
USED ONLY WHEN SAFEFLEX CANNOT BE PREEXTENDED TO PRESSURIZED LENGTH DURING INSTALLATION

STEEL BASE BY MASON

PROPERLY REINFORCED COLUMNS, EXTENSIONS OR PEDESTALS

EXTENDED BASE PLATE TO MEET BOLTING CODE

SPRING DEFLECTION BASED ON FAN RPM WHEN LESS THAN 600 RPM
LARGE TRANSFORMER mounted on a WFSL or KSL Base supported by MT Air Spring Mounts and Z-1011 Seismic Restraints. Reinforced housekeeping pad secured by HPA Anchors. Schematic Only—Final installation to meet all safety regulations as well as electrical and other codes.

WFSL BASE - WIDE FLANGE STEEL
BASE MINIMUM 6" (152mm) OR 1/10 LONGEST BASE DIMENSION
SPECIFICATION 20

3 AIR SPRING LEVELING VALVES
(CORNER VALVE EACH SIDE
CONTROLS CORNER
AIR SPRINGS

MT TWIN SPHERE AIR SPRINGS
MUST BE INSTALLED WITH AIR SPRING LEVELING VALVES
SPECIFICATION 8

RESILIENT Z-1011 SEISMIC SNUBBERS
MUST BE SECURED WITH SAB ANCHORS
SPECIFICATION 17

REINFORCED HOUSEKEEPING PAD
IS ATTACHED TO THE STRUCTURE TO MEET THE SEISMIC CODE BY HPA ANCHORS LOCKED TO THE PAD REINFORCING STEEL AND SCREWED TO SAS FLOOR STUDS.
SPECIFICATION 29

KSL BASE - STEEL CHANNEL
REINFORCED AND FILLED WITH CONCRETE. BASE MINIMUM 6" (152mm) OR 1/12 LONGEST BASE DIMENSION
SPECIFICATION 21

ALL OTHER CALLOUTS ABOVE APPLY HERE