



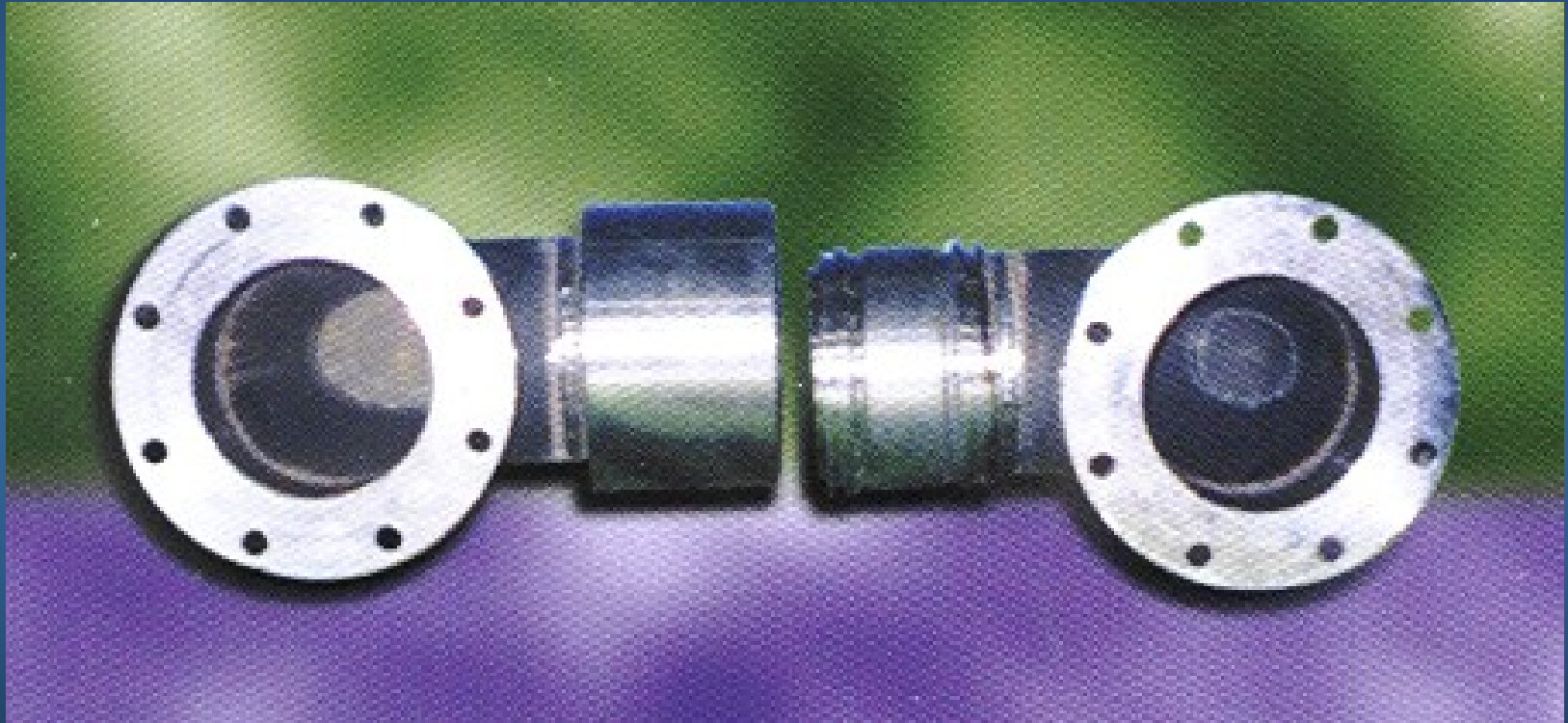
World Bridge Drain system

WB R&D Center

Kibds of Roof Drain Systems

1. Flexible Hose Type
2. Swivel Joint Type
3. '3+1' Type (WB's Recommendation)
Flexible Swing Joint Type

Swivel Joint Type (Inflexible Joint)



'3+1' Type Roof Drain System

- ◎ 3 + 1 Joint System

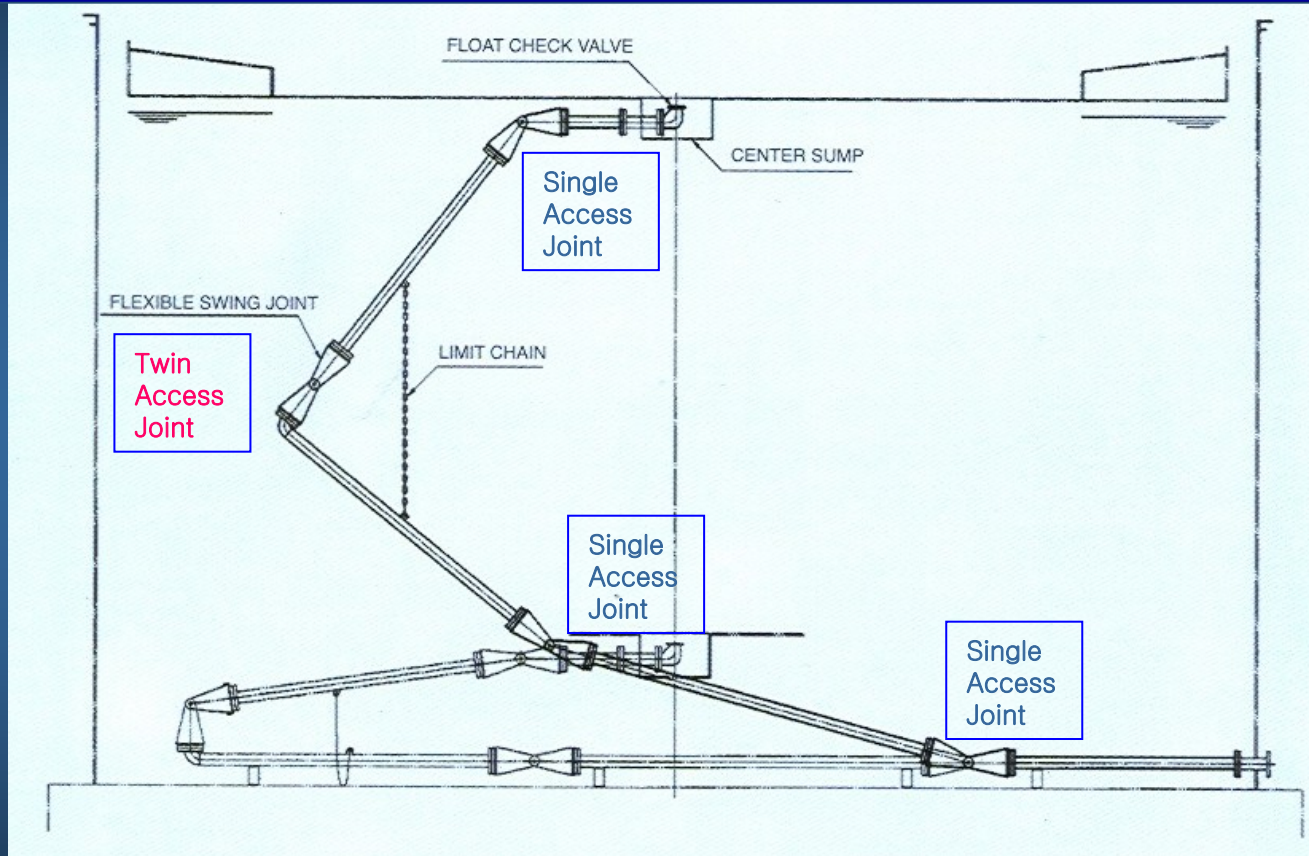
 - 3 sets of single access type normal joint

 - 1 set of twin access type special joint

- ◎ Excellent Design for movement of pontoon in any direction

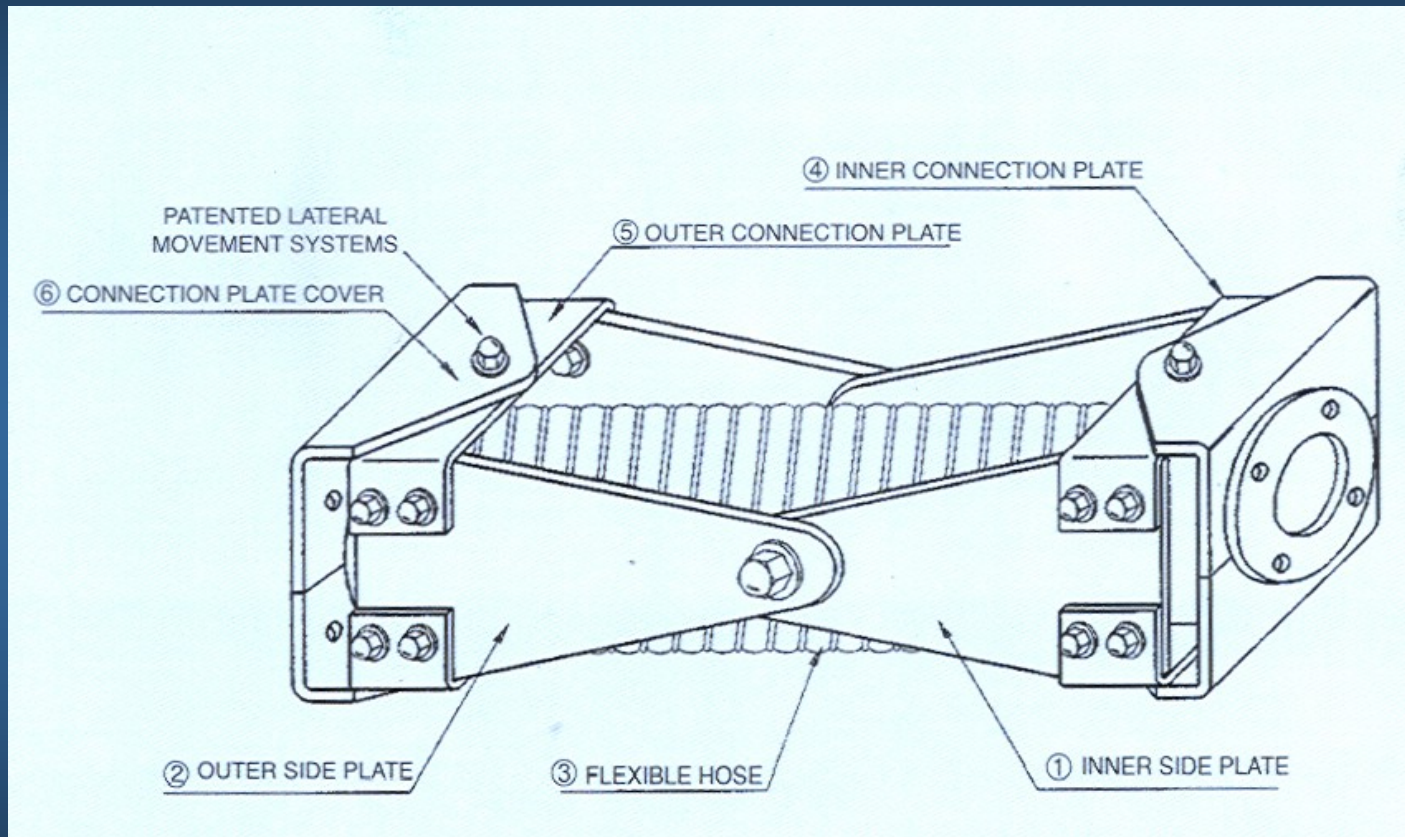
- ◎ Specially fabricated flexible hose is set to the Joint

'3+1' Type Roof Drain System



☞ General Elevation View for Flexible Roof Drain System of FRT

Twin Access Type



☞ WB's patented design for the twin access type flexible Swing Joint

Twin Access Type (patented)

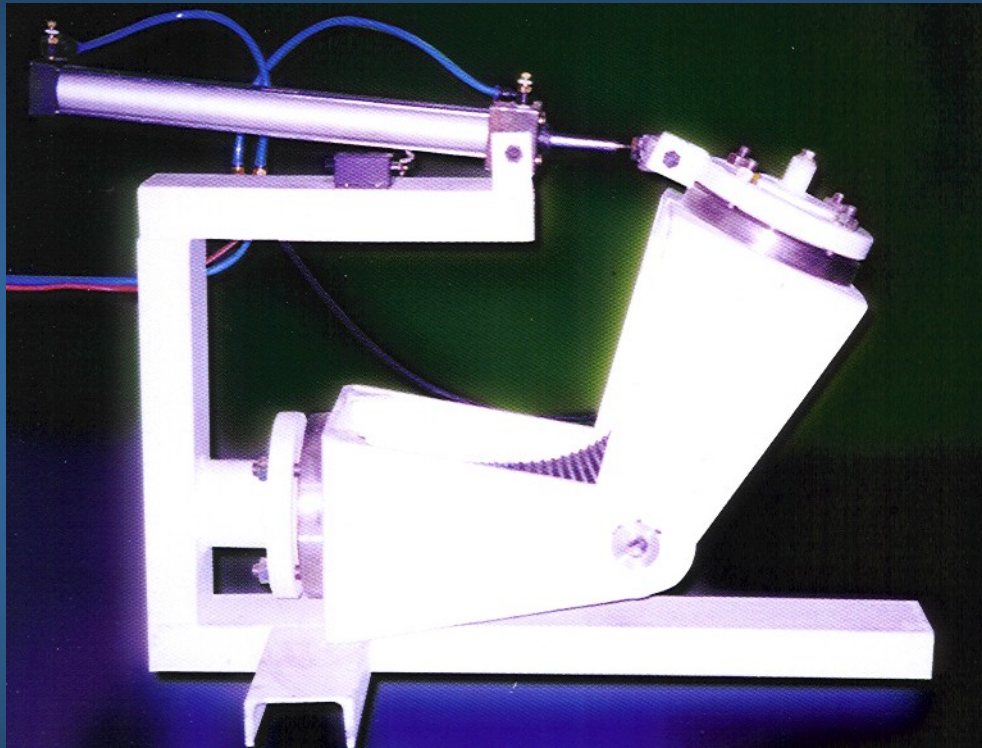
- ↙ It gives similar effect of flexible hose type
- ↙ It can absorb deck's movement works by +/- 15° Max. (left and right hand side) as well as vertical movement.

Twin Access Type

☞ It is allowing both vertical and horizontal deck movements to reduce excessive stress.

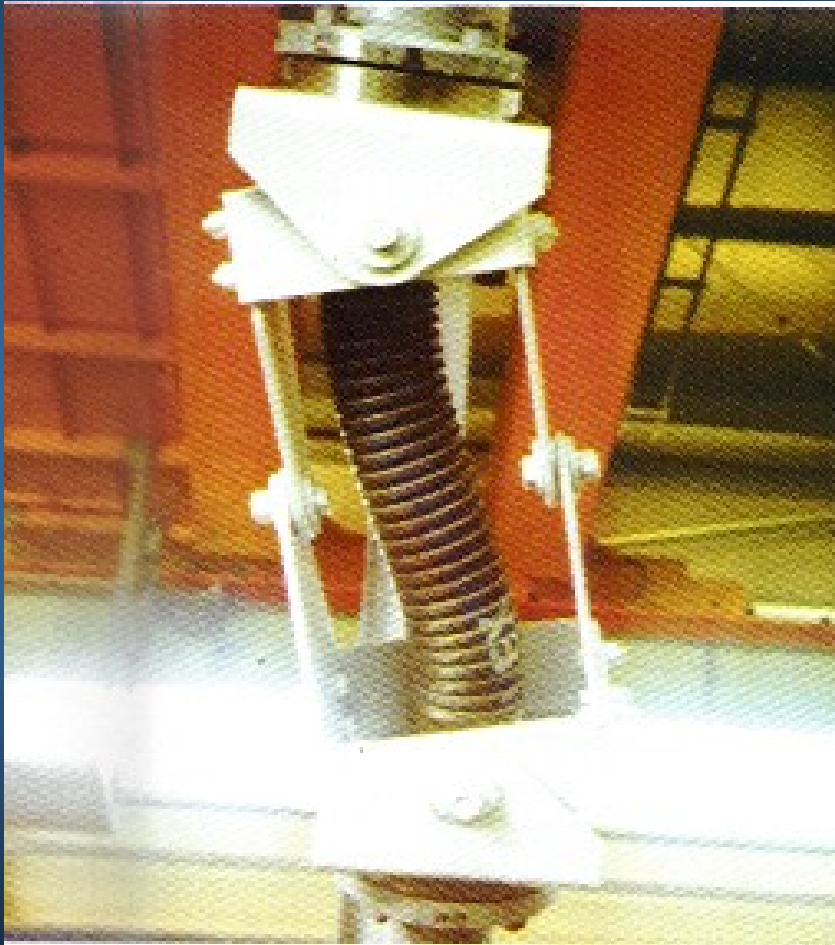


Excellent Design for any stored products



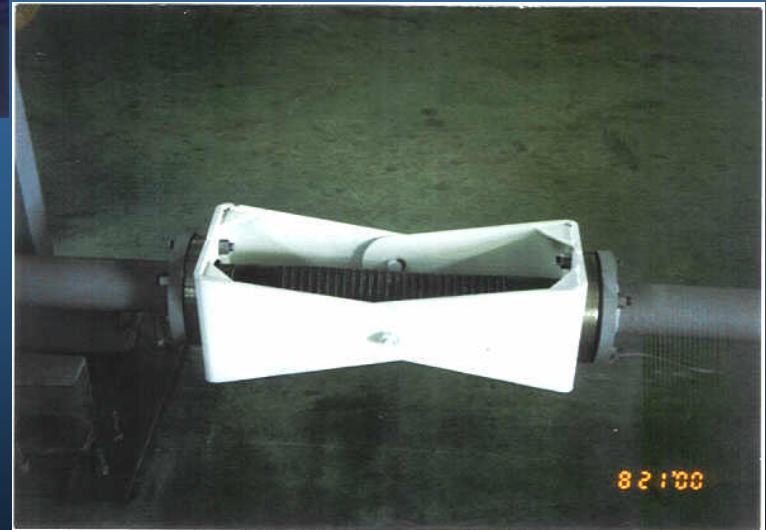
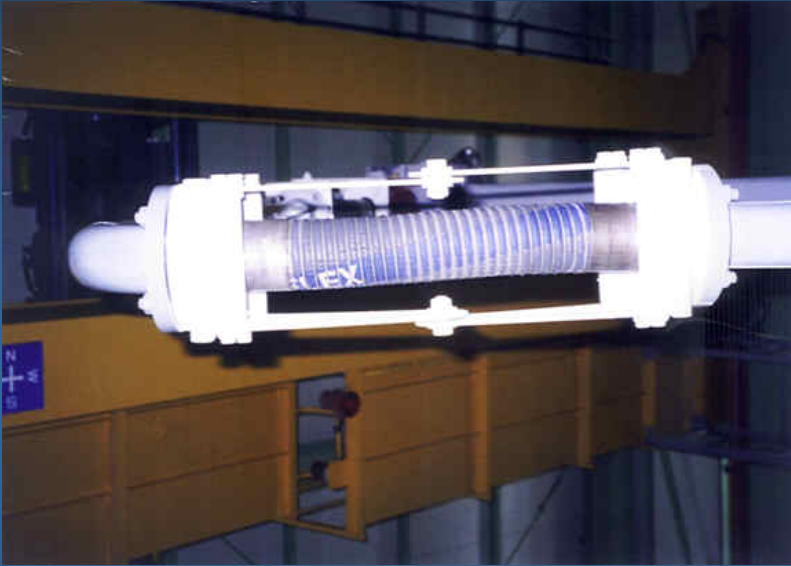
☞ Hydro test finished successfully under 0.1kg/cm^2 of inside water pressure over 10,000 cycle with continuous 90° degree repeatable bending movement..

Twin Access Type



☞ It shows the flexible joint need to allow lateral movement when floating deck runs.

Picture 1



Picture 2



Float Check Valve



- Automatically to prevent a possible overflow of leaked oil from the damaged drain line.

World Bridge always do our best.

THANK YOU !