



AD BUCKLING RESTRAINED BRACE

Aseismic Retrofitting



AD Buckling Restrained Brace *Aseismic Retrofitting*



AD Buckling Restrained Brace has equal compression and tensile strengths, due to the restraining function of the outer pipe that prevents buckling of the inner one.

Characteristics

» Wide application range

AD Buckling Restrained Brace is applicable to both new construction and retrofit to improve safety against earthquakes.

» Ease of installation

With the turnbuckling function, it is easy to adjust the distance between the pins in ± 20 mm. It provides ease of installation.

» Reliable materials

For the clevis, the cast steel SCW620 as per JIS standard is used. For the pins, SCM453H approved by the Ministry of Land and Transportation in Japan, is used.

» Reliability

Design and manufacture of **AD Buckling Restrained Brace** has been approved by the Japanese government officially.



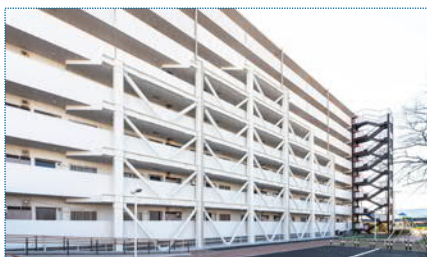
Force Application Test

The safety of the components used for the **AD Buckling Restrained Brace** are verified.

With an actual size loading test, strength of the brace and safety of the clevis, pin and gusset plate is ensured. Shape and dimension of the gusset plate is also standardized.



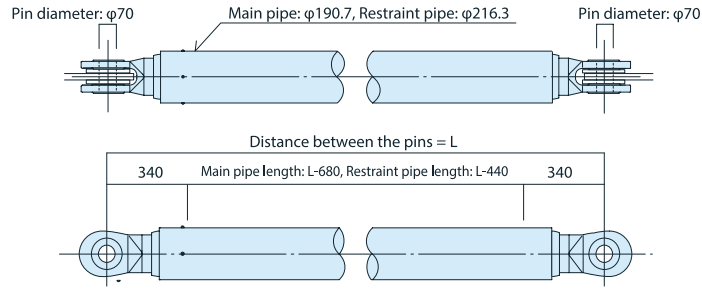
Application Examples



Standard Dimensions

ADW-19

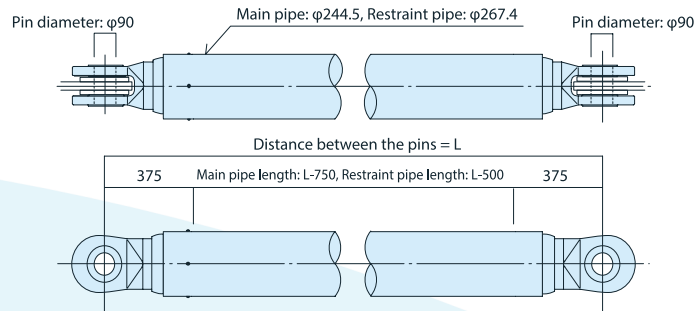
Main pipe diameter: $\phi 190.7$
 Restraint pipe diameter: $\phi 216.3$



Pipe Thickness	
STKN400B	STKM13A
7.0	—
8.0	—
10.0	—
—	12.0

ADW-24

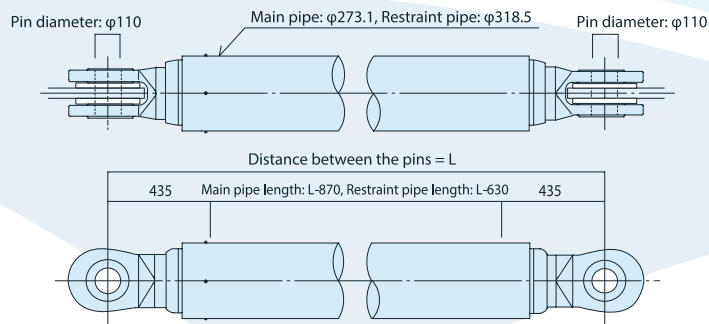
Main pipe diameter: $\phi 244.5$
 Restraint pipe diameter: $\phi 267.4$



Pipe Thickness	
STKN400B	STKM13A
10.0	—
12.0	—
—	15.0

ADW-27

Main pipe diameter: $\phi 273.1$
 Restraint pipe diameter: $\phi 318.5$



Pipe Thickness	
STKN400B	STKM13A
12.0	—
15.0	—
—	18.0

Material List

Type	Main pipe			Restraint pipe		Compressive/Tensile durability	Max. distance between pins
	Diameter	Thickness		Diameter	Thickness		
		STKN400B	STKM13A				
ADW-1907	$\phi 190.7$	7	-	$\phi 216.3$	8.2	1,042	5,726
ADW-1908		8	-			1,185	5,261
ADW-1910		10	-			1,465	4,533
ADW-1912		-	12			1,590	4,200
ADW-2410	$\phi 244.5$	10	-	$\phi 267.4$	6.6	1,901	4,860
ADW-2412		12	-			2,261	4,263
ADW-2415		-	15			2,552	3,800
ADW-2712	$\phi 273.1$	12	-	$\phi 318.5$	10.3	2,540	6,000
ADW-2715		15	-			3,138	4,825
ADW-2718		-	18			3,404	4,335

(mm, kN)



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