

FCD BACK PLATE TYPE CONTROL UNIT

Control unit is recommended to use for protection of connectors as following conditions;



Feature

In case that it is hard to support reaction force (thrust) by pressure during the test operation or normal operation.

In case that lateral movement is anticipated more than the designed movement.

In case that the connectors are anticipated to compressed when installation.

When control units are required to assist with the installation of joint, refer to the below table.

Remark: *** Control Unit can't control the compression movement.

Back Plate Thickness, Min.Rod & Bolt length Calculation

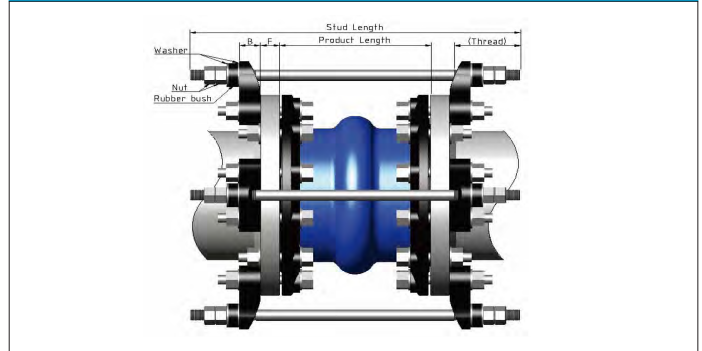
Back Plate	TZB -A1	TZB -A2	TZB -B1	TZB -B2	TZB -C	TZB -D1	TZB -D2	TZB -E1	TZB -E2	TZB -F1	TZB -F2	TZB -G1	TZB -G2	TZB -H	TZB -I
Thickness (mm)	78	68	68	56	62	51	46	48	40	33	28	38	30	17	63

Min. Rod Length = OAL + 2*Flange thickness + 2* Back Plate thickness+ 6*Nut high+ 4*Washer thickness + 2*Bush high

Min. Thread Length = Back Plate thickness+ 3*Nut high + 2*Washer thickness + Bush high

Minimum Bolt Length = 2*Flange thickness + Back Plate thickness + Rubber Packing thickness+2*Nut high

Structure



No.	Parts	Material	No.	Parts	Material
①	Back Plate	FCD	③	Control rod	Mild Steel
②	Nut and Washer	Mild Steel	④	Rubber Bush	Synthetic Rubber

Flanges Standard And FCD Back Plate Type Selection

SIZE (A)	FLANGE STANDARD	ANSI 150 LB	ANSI 300 LB	JIS 10K	JIS 16K	JIS 20K	PN10	PN16	PN25	ANSI B16.47 SR.A	ANSI B16.47 SR.B
100	Back Plate	TZB-H	TZB-G2	TZB-H	TZB-G2	TZB-G2	TZB-H	TZB-H	TZB-G2	N/A	N/A
	Q'Ty-Stud Size	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	N/A	N/A
125	Back Plate	TZB-G2	TZB-G2	TZB-G2	TZB-G2	TZB-G2	TZB-H	TZB-H	TZB-G2	N/A	N/A
	Q'Ty-Stud Size	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	2-M16	N/A	N/A
150	Back Plate	TZB-F1	TZB-G2	TZB-F1	TZB-G2	TZB-G2	TZB-F1	TZB-F1	TZB-F2	N/A	N/A
	Q'Ty-Stud Size	2-M16	2-M20	2-M16	2-M16	2-M20	2-M16	2-M16	2-M20	N/A	N/A
200	Back Plate	TZB-F1	TZB-G1	TZB-G2	TZB-G2	TZB-G1	TZB-F1	TZB-G2	TZB-G1	N/A	N/A
	Q'Ty-Stud Size	2-M16	3-M20	2-M16	3-M20	3-M20	2-M16	3-M20	4-M20	N/A	N/A
250	Back Plate	TZB-F2	TZB-E2	TZB-F2	TZB-E2	TZB-E2	TZB-G1	TZB-E2	TZB-E2	N/A	N/A
	Q'Ty-Stud Size	2-M20	3-M24	2-M20	3-M24	3-M24	2-M20	3-M24	4-M24	N/A	N/A
300	Back Plate	TZB-F2	TZB-E2	TZB-G1	TZB-E2	TZB-E2	TZB-F2	TZB-D2	TZB-E1	N/A	N/A
	Q'Ty-Stud Size	3-M20	4-M24	3-M20	4-M24	4-M24	3-M20	4-M24	4-M27	N/A	N/A
350	Back Plate	TZB-D2	TZB-E1	TZB-G1	TZB-C	TZB-C	TZB-G1	TZB-E2	N/A	N/A	N/A
	Q'Ty-Stud Size	3-M24	4-M27	4-M20	4-M24	4-M27	4-M20	4-M24	N/A	N/A	N/A
400	Back Plate	TZB-D1	TZB-C	TZB-E2	TZB-B1	TZB-B2	TZB-E2	TZB-D1	N/A	N/A	N/A
	Q'Ty-Stud Size	3-M24	5-M30	4-M24	4-M30	5-M30	4-M24	4-M30	N/A	N/A	N/A
450	Back Plate	TZB-D2	TZB-C	TZB-E1	TZB-C	TZB-C	TZB-E1	TZB-E1	N/A	N/A	N/A
	Q'Ty-Stud Size	4-M27	6-M30	4-M27	5-M27	6-M30	4-M27	5-M27	N/A	N/A	N/A
500	Back Plate	TZB-E1	TZB-C	TZB-E1	TZB-B2	TZB-B2	TZB-E1	TZB-C	N/A	N/A	N/A
	Q'Ty-Stud Size	4-M27	6-M27	4-M27	5-M30	6-M33	4-M27	5-M30	N/A	N/A	N/A
550	Back Plate	N/A	N/A	TZB-B1	TZB-A1	TZB-A2	N/A	N/A	N/A	TZB-B1	N/A
	Q'Ty-Stud Size	N/A	N/A	5-M30	5-M30	6-M30	N/A	N/A	N/A	5-M30	N/A
600	Back Plate	TZB-B1	TZB-A2	TZB-C	TZB-A1	TZB-A2	TZB-D1	TZB-B2	N/A	N/A	N/A
	Q'Ty-Stud Size	5-M30	8-M33	6-M30	8-M30	8-M33	6-M30	8-M30	N/A	N/A	N/A
650	Back Plate	N/A	N/A	TZB-B1	N/A	N/A	N/A	N/A	N/A	TZB-B1	TZB-I
	Q'Ty-Stud Size	N/A	N/A	6-M30	N/A	N/A	N/A	N/A	N/A	6-M30	6-M30
700	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	TZB-D1	TZB-B2	N/A	TZB-C	TZB-I
	Q'Ty-Stud Size	N/A	N/A	8-M30	N/A	N/A	8-M30	10-M33	N/A	8-M30	8-M30
750	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	N/A	N/A	N/A	TZB-B2	TZB-I
	Q'Ty-Stud Size	N/A	N/A	8-M30	N/A	N/A	N/A	N/A	N/A	8-M30	8-M30
800	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	TZB-B2	TZB-A1	N/A	TZB-A1	TZB-I
	Q'Ty-Stud Size	N/A	N/A	8-M33	N/A	N/A	8-M33	12-M33	N/A	8-M33	8-M33
850	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	N/A	N/A	N/A	TZB-A1	TZB-I
	Q'Ty-Stud Size	N/A	N/A	8-M33	N/A	N/A	N/A	N/A	N/A	8-M33	8-M33
900	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	TZB-B2	TZB-A2	N/A	TZB-A1	TZB-I
	Q'Ty-Stud Size	N/A	N/A	8-M36	N/A	N/A	8-M36	14-M33	N/A	8-M36	8-M36
1000	Back Plate	N/A	N/A	TZB-B2	N/A	N/A	TZB-B2	TZB-A1	N/A	TZB-A1	TZB-I
	Q'Ty-Stud Size	N/A	N/A	10-M36	N/A	N/A	10-M36	14-M36	N/A	10-M36	10-M36

Note: This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

Agent

TOZEN Corporation
8-4, Asahi, Yoshikawa
Saitama 342-0008 Japan