

Insert HOLDER ASSEMBLY

The Insert Holder Assembly is Oseco's primary rupture disk holder.

Oseco manufactures a complete line of Rupture Disk Holders which includes the Insert, Pre-torqued, Threaded, Union Type and Bolted. In addition, Oseco can manufacture any special assemblies to your exact specifications.

The Insert Assembly bolts between and fits within the bolt circle of standard ANSI flanges.



RDI – A 30° angular seat design for use with the STD and CO rupture disks.



FRDI – A non-torque-sensitive flat seat arrangement. For use with the FAS, (F)STD, (F)CO and FST rupture disks.



PRDI – A non-torque-sensitive flat seat arrangement with locator pin. For use with the PCR, PLR, PRO+ and PSR reverse-buckling rupture disks.

RDI-FRDI-PRDI: Insert Holder Dimensional Data

Size (inches)	ANSI Rating	O.D. (inches)	Overall Height (inches)		
			RDI	FRDI	PRDI
1	150	2.5	1.62	1.62	1.75
1	300/600	2.75	1.62	1.62	1.75
1.5	150	3.25	1.62	1.62	1.75
1.5	300/600	3.62	1.62	1.62	1.75
2	150	4.0	1.75	1.62	1.75
2	300/600	4.25	1.75	1.62	1.75
3	150	5.25	1.75	1.62	1.93
3	300/600	5.75	1.75	1.62	1.93
4	150	6.75	1.75	1.87	2.31
4	300	7.0	2.25	1.87	2.31
6	150	8.62	2.25	2.5	2.81
6	300	9.75	2.25	2.5	2.81
8	150	10.87	2.31*	2.87	3.43
10	150	13.25	2.43*	3.12	-
12	150	16.0	2.62*	3.62	-

*Consult factory: Disk crown height may protrude beyond the rupture disk holder outlet.

TABLE 1
Pressure/Temperature Rating for Insert-type Rupture Disk Holders

Temp ° F	150 # ANSI			300 # ANSI			600 # ANSI			900 # ANSI			1500 # ANSI			2500 # ANSI		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
100	285	275	275	740	720	720	1,480	1,440	1,440	2,220	2,160	2,160	3,705	3,600	3,600	6,170	6,000	6,000
200	260	240	235	675	620	600	1,350	1,240	1,200	2,025	1,860	1,800	3,375	3,095	3,000	5,625	5,160	5,000
300	230	215	205	655	560	530	1,315	1,120	1,055	1,970	1,680	1,585	3,280	2,795	2,640	5,470	4,660	4,400
400	200	195	180	635	515	470	1,270	1,030	940	1,900	1,540	1,410	3,170	2,570	2,350	5,280	4,280	3,920
500	170	170	170	600	480	435	1,200	955	875	1,795	1,435	1,310	2,995	2,390	2,185	4,990	3,980	3,640
600	140	140	140	550	450	415	1,095	905	830	1,640	1,355	1,245	2,735	2,255	2,075	4,560	3,760	3,460
650	125	125	125	535	445	410	1,075	890	815	1,610	1,330	1,225	2,685	2,220	2,040	4,475	3,700	3,400
700	110	110	110	535	430	405	1,065	865	805	1,600	1,295	1,210	2,665	2,160	2,015	4,440	3,600	3,360
750	95	95	95	505	425	400	1,010	845	795	1,510	1,270	1,195	2,520	2,110	1,990	4,200	3,520	3,320
800	80	80	80	410	415	395	825	830	790	1,235	1,245	1,180	2,060	2,075	1,970	3,430	3,460	3,280
850	65	65	65	270	405	390	535	810	780	805	1,215	1,165	1,340	2,030	1,945	2,230	3,380	3,240
900	50	50	50	170	395	385	345	790	770	515	1,180	1,150	860	1,970	1,920	1,430	3,280	3,200
950	35	35	35	105	385	375	205	775	750	310	1,160	1,125	515	1,930	1,870	860	3,220	3,120
1000	20	20	20	50	365	325	105	725	645	155	1,090	965	260	1,820	1,610	430	3,030	2,685

LEGEND: **A** – SA-105 and SA-516-70 Flange Type Holder & All Insert Types
B – SA-182-F316 Flange Type Holders Only
C – SA-182-F304 Flange Type Holders Only

NOTE: Minimum temperature rating for the holder materials listed in the table is (-20)° F. If a holder is used at a lower temperature, material certified for use at that temperature must be ordered.

TABLE 2
Pressure/Temperature Rating for Insert-type Rupture Disk Holders

Temp ° F	150 # ANSI				300 # ANSI				600 # ANSI				900 # ANSI				1,500 # ANSI				2,500 # ANSI			
	D	E	F	G	D	E	F	G	D	E	F	G	D	E	F	G	D	E	F	G	D	E	F	G
100	140	230	275	290	360	600	720	750	720	1,200	1,440	1,500	1,080	1,800	2,160	2,250	1,800	3,000	3,600	3,750	3,000	5,000	6,000	6,250
200	140	200	260	260	360	530	670	750	720	1,055	1,345	1,500	1,080	1,585	2,015	2,250	1,800	2,640	3,360	3,750	3,000	4,400	5,600	6,250
300	140	190	230	230	360	495	640	730	720	990	1,275	1,455	1,080	1,485	1,915	2,185	1,800	2,470	3,190	3,640	3,000	4,120	5,320	6,070
400	140	185	200	200	360	480	615	705	720	955	1,230	1,410	1,080	1,435	1,845	2,115	1,800	2,390	3,070	3,530	3,000	3,980	5,120	5,880
500	140	170	170	170	360	475	595	655	720	950	1,185	1,330	1,080	1,435	1,780	1,995	1,800	2,375	2,965	3,325	3,000	3,960	4,940	5,540
600	140	140	140	140	360	475	575	605	720	950	1,145	1,210	1,080	1,435	1,720	1,815	1,800	2,375	2,870	3,025	3,000	3,960	4,780	5,040
650	-	125	125	125	-	475	565	590	-	950	1,130	1,175	-	1,435	1,690	1,765	-	2,375	2,820	2,940	-	3,960	4,700	4,905
700	-	110	110	110	-	475	555	570	-	950	1,115	1,135	-	1,435	1,670	1,705	-	2,375	2,785	2,840	-	3,960	4,640	4,730
750	-	95	95	95	-	470	530	530	-	935	1,065	1,065	-	1,405	1,595	1,595	-	2,340	2,660	2,660	-	3,900	4,430	4,430
800	-	80	80	80	-	460	510	510	-	915	1,015	1,015	-	1,375	1,520	1,520	-	2,290	2,540	2,540	-	3,820	4,230	4,230
850	-	65	65	65	-	340	485	485	-	680	975	975	-	1,020	1,460	1,460	-	1,695	2,435	2,435	-	2,830	4,060	4,060
900	-	50	50	50	-	245	450	450	-	495	900	900	-	740	1,350	1,350	-	1,235	2,245	2,245	-	2,055	3,745	3,745
950	-	-	35	35	-	-	325	385	-	-	655	775	-	-	980	1,160	-	-	1,635	1,930	-	-	2,725	3,220
1,000	-	-	20	20	-	-	215	365	-	-	430	725	-	-	650	1,090	-	-	1,080	1,820	-	-	1,800	3,030

LEGEND: **D** – SB-160 Grade N02200 Flange Type Holders Only (NI-200)
E – SB-564 Grade N04400 Flange Type Holders Only (MON-400)
F – SB-564 Grade N06600 Flange Type Holders Only (INC-600)
G – SB-574 Grade N10275 Flange Type Holders Only (HAST C-276)