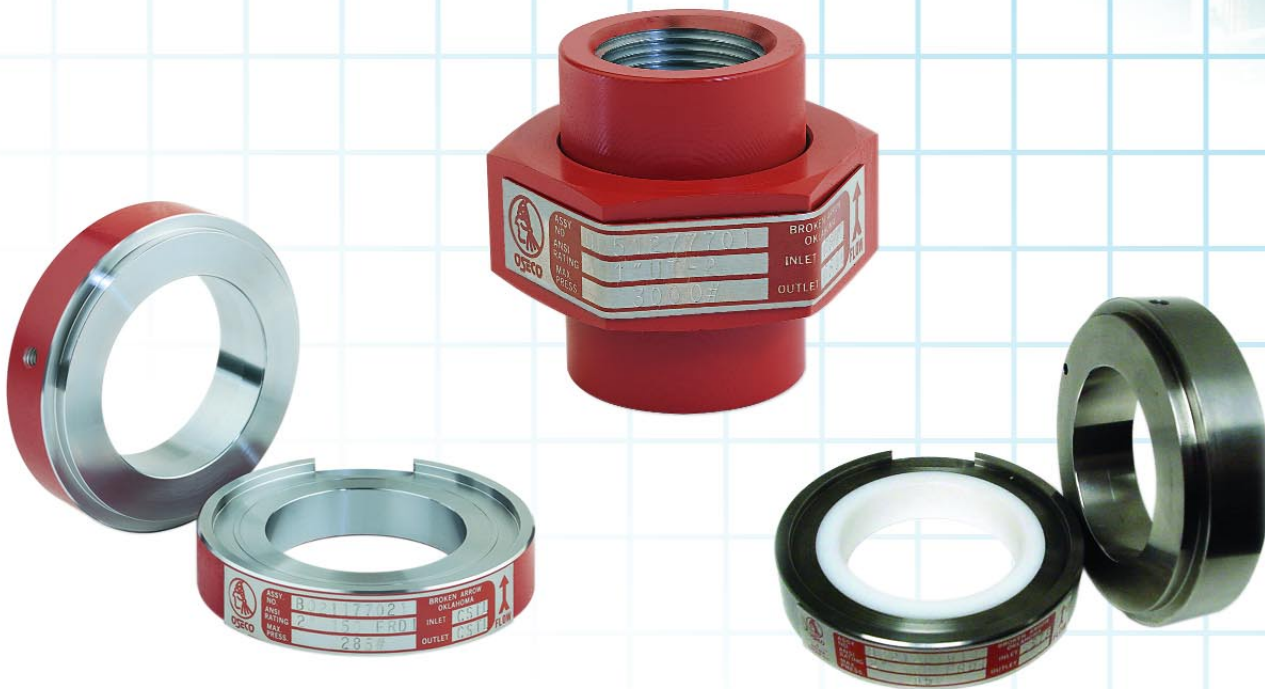




*Oseco manufactures a
complete line of Rupture
Disk Holders.*



HOLDERS

INSERT RUPTURE DISK HOLDERS

Oseco manufactures a complete line of rupture disk holders. Our selection of insert holders includes non-torque-sensitive, pretorqued, and Teflon®-booted holders. In addition, Oseco also manufactures union, threaded, and bolted holders, and manufactures special assemblies to your exact specifications.

frdi • prdi INSERT HOLDERS

Oseco's non-torque-sensitive FRDI and PRDI insert holders bolt between and fit within the bolt circle of standard ANSI flanges.



FRDI • A non-torque-sensitive flat-seat arrangement, for use with FAS, FCO, and FST rupture disks.



PRDI • A non-torque-sensitive flat-seat arrangement with locator pin, for use with PCR, PLR, and PSR rupture disks.

rdi INSERT HOLDER

Oseco's RDI is a 30° angular-seat design, for use with STD and CO rupture disks.



TABLE 1
Insert Holder Dimensional Data for FRDI, PRDI, RDI

Line Size inches	Outer Diameter inches			Overall Height inches		
	150#	300#	600#	FRDI	PRDI	RDI
1.0	2.500	2.750	2.750	1.6250	1.7500	1.6250
1.5	3.250	3.625	3.625	1.6250	1.7500	1.6250
2.0	4.000	4.250	4.250	1.6250	1.7500	1.7500
3.0	5.250	5.750	5.750	1.6250	1.9375	2.0000
4.0	6.750	—	—	1.8750	2.3125	1.7500
4.0	—	7.000	—	1.8750	2.3125	2.2500
6.0	8.625	9.750	—	2.5000	2.8125	2.2500
8.0	10.875	—	—	2.8750	3.4375	2.3125*
10.0	13.250	—	—	3.1250	—	2.4375*
12.0	16.000	—	—	3.6250	—	2.7500*

*Please consult the Oseco factory for sizes of 8" or larger, as disk crown height may protrude beyond the rupture disk holder outlet.

TABLE 2
Maximum Burst Pressures for Insert Holders

Holder Material	Temp °F	Max Pressure psig					
		150#	300#	600#	900#	1500#	2500#
Carbon Steel	100	285	740	1480	2220	3705	6170
	200	260	675	1350	2025	3375	5625
	300	230	655	1315	1970	3280	5470
	400	200	635	1270	1900	3170	5280
	500	170	600	1200	1795	2995	4990
	600	140	550	1095	1640	2735	4560
	650	125	535	1075	1610	2685	4475
	700	110	535	1065	1600	2665	4440
	750	95	505	1010	1510	2520	4200
	800	80	410	825	1235	2060	3430
	850	65	270	535	805	1340	2230
	900	50	170	345	515	860	1430
	950	35	105	205	310	515	860
	1000	20	50	105	155	260	430
Stainless Steel 316	100	275	720	1440	2160	3600	6000
	200	240	620	1240	1860	3095	5160
	300	215	560	1120	1680	2795	4660
	400	195	515	1030	1540	2570	4280
	500	170	480	955	1435	2390	3980
	600	140	450	905	1355	2255	3760
	650	125	445	890	1330	2220	3700
	700	110	430	865	1295	2160	3600
	750	95	425	845	1270	2110	3520
	800	80	415	830	1245	2075	3460
	850	65	405	810	1215	2030	3380
	900	50	395	790	1180	1970	3280
	950	35	385	775	1160	1930	3220
	1000	20	365	725	1090	1820	3030
Stainless Steel 304	100	275	720	1440	2160	3600	6000
	200	235	600	1200	1800	3000	5000
	300	205	530	1055	1585	2640	4400
	400	180	470	940	1410	2350	3920
	500	170	435	875	1310	2185	3640
	600	140	415	830	1245	2075	3460
	650	125	410	815	1225	2040	3400
	700	110	405	805	1210	2015	3360
	750	95	400	795	1195	1990	3320
	800	80	395	790	1180	1970	3280
	850	65	390	780	1165	1945	3240
	900	50	385	770	1150	1920	3200
	950	35	375	750	1125	1870	3120
	1000	20	325	645	965	1610	2685

Holder Material	Temp °F	Max Pressure psig					
		150#	300#	600#	900#	1500#	2500#
Nickel	100-600	140	360	720	1080	1800	3000
Monel® 400	100	230	600	1200	1800	3000	5000
	200	200	530	1055	1585	2640	4400
	300	190	495	990	1485	2470	4120
	400	185	480	955	1435	2390	3980
	500	170	475	950	1435	2375	3960
	600	140	475	950	1435	2375	3960
	650	125	475	950	1435	2375	3960
	700	110	475	950	1435	2375	3960
	750	95	470	935	1405	2340	3900
	800	80	460	915	1375	2290	3820
Inconel® 600	850	65	340	680	1020	1695	2830
	900	50	245	495	740	1235	2055
	100	275	720	1440	2160	3600	6000
	200	260	670	1345	2015	3360	5600
	300	230	640	1275	1915	3190	5320
	400	200	615	1230	1845	3070	5120
	500	170	595	1185	1780	2965	4940
	600	140	575	1145	1720	2870	4780
	650	125	565	1130	1690	2820	4700
	700	110	555	1115	1670	2785	4640
Hastelloy® C-276	750	95	530	1065	1595	2660	4430
	800	80	510	1015	1520	2540	4230
	850	65	485	975	1460	2435	4060
	900	50	450	900	1350	2245	3745
	950	35	325	655	980	1635	2725
	1000	20	215	430	650	1080	1800
	100	290	750	1500	2250	3750	6250
	200	260	750	1500	2250	3750	6250
	300	230	730	1455	2185	3640	6070
	400	200	705	1410	2115	3530	5880
	500	170	655	1330	1995	3325	5540
	600	140	605	1210	1815	3025	5040
	650	125	590	1175	1765	2940	4905
	700	110	570	1135	1705	2840	4730
	750	95	530	1065	1595	2660	4430
	800	80	510	1015	1520	2540	4230
	850	65	485	975	1460	2435	4060
	900	50	450	900	1350	2245	3745
	950	35	385	775	1160	1930	3220
	1000	20	365	725	1090	1820	3030

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

Hastelloy® is a registered trademark of Haynes International, Inc.
Inconel® and Monel® are registered trademarks of Inco, Ltd., and the Inco family of companies.
Teflon® is a registered trademark of E.I. du Pont de Nemours and Company, Inc.
OSECO, FAS, and PLR are registered trademarks, and CO, FCO, FRDI, FRDIP, FST, PCR, PRDI, PRDIP, PSR, RDH, RDI, and STD are trademarks, of Oklahoma Safety Equipment Co., Inc.

1.800.395.
disk

INSERT & UNION RUPTURE DISK HOLDERS

frdi • prdi

TEFLON®-BOOTED INSERT HOLDER

The Oseco Teflon®-booted insert holder is used in applications where aggressive corrosives are present. A solid PFA insert is pressed into the inner diameter of FRDI and PRDI non-torque-sensitive holders. When used with rupture disks with Teflon® liners attached to the process side, only Teflon® is in contact with the media.

- Economical
- Available in sizes 1" through 8"
- Excellent for replacing exotic materials such as tantalum
- Non-torque-sensitive
- Good for temperatures up to 500 °F



Teflon®-booted FRDI

TABLE 3

Insert Holder Dimensional Data for Teflon®-booted FRDI, PRDI



Line Size inches	Outer Diameter inches		Overall Height inches	
	150#	300#	FRDI	PRDI
1.0	2.500	2.750	1.6250	1.7500
1.5	3.250	3.625	1.6250	1.7500
2.0	4.000	4.250	1.6250	1.7500
3.0	5.250	5.750	1.6250	1.9375
4.0	6.750	7.000	1.8750	2.3125
6.0	8.625	9.750	2.5000	2.8125
8.0	10.875	—	2.8750	3.4375

Please refer to Table 2 overleaf for pressure and temperature limitations.

frdip • prdip PRETORQUED INSERT HOLDERS

Oseco's pretorqued assemblies save time and worry in any application. The entire FRDIP or PRDIP unit may be removed for inspection purposes and returned without disturbing the torque values placed on the rupture disk. This single feature saves significantly on the purchase of replacement rupture disks and the time installing the Oseco pretorqued holder. The FRDIP is available in 1" through 18", and the PRDIP in 1" through 8", both with ANSI ratings of 150# or 300#.



TABLE 4
Dimensional Data for FRDIP, PRDIP

Line Size inches	Outer Diameter inches	Overall Height inches	
		FRDIP	PRDIP
1.0	3.6250	1.6250	1.7500
1.5	4.3750	1.6250	1.7500
2.0	5.0000	1.6250	1.7500
3.0	6.1875	1.6250	1.9375
4.0	7.6250	1.8750	2.3125
6.0	9.6250	2.5000	2.8125
8.0	11.8750	2.8750	3.4375
10.0	14.2500	3.1250	—
12.0	17.0000	3.6250	—
14.0	19.2500	3.8750	—
18.0	23.1250	5.1250	—

TABLE 5
Maximum Burst Pressures for Union Holders

Service Temperature °F	Max Pressure Rating psig		
	1200#	3000#	6000#
100	1200	3000	6000
150	1180	2950	5919
200	1160	2900	5830
250	1140	2850	5750
300	1120	2800	5690
350	1095	2740	5625
400	1075	2690	5550
450	1050	2630	5490
500	1000	2500	5210
550	950	2370	4925
600	890	2220	4620
650	830	2070	4300
700	760	1900	3920
750	680	1700	3550
850	490	1230	2500
900	420	1050	1750
950	330	825	1375
1000	240	600	1000

union RUPTURE DISK HOLDER

Low in cost and ideal for limited-space applications, Oseco's union assembly reduces replacement time, as only the union nut is removed to obtain access to the rupture disk. The 30° angular-seat design is for use with STD and CO series rupture disks (rupture disk tags remain unattached for union holder installation). Standard nominal sizes are .5", 1", 1.5", and 2", with nominal ratings of 1200#, 3000#, and 6000#, and with threaded or welded connections available. Standard materials are carbon steel and stainless steel 316; please consult the Oseco factory for other materials available upon request.



Union Holder

1.800.395.
disk

THREADED RUPTURE DISK HOLDERS

threaded RUPTURE DISK HOLDER

The threaded holder is widely used on high-pressure applications up to 15,000 psig at 100 °F. Oseco's standard threaded assembly utilizes an 11/16" or 1/2" flat-seat hold-down ring. For disk ratings of 1,000 psig or less, the 11/16" hold-down ring is used. Standard material of construction is stainless steel 316, with Teflon® lining available on one or two sides. Standard inlet connections are 1/4" MPT or 1/2" MPT, with 1/2" MPT or muffled outlet. Other materials and connections are available to your exact specifications.

TABLE 6
Maximum Burst Pressures for Threaded Holders

Service Temperature °F	Max Pressure Rating psig
100	15000
250	14500
500	13000
750	9800
1000	8000



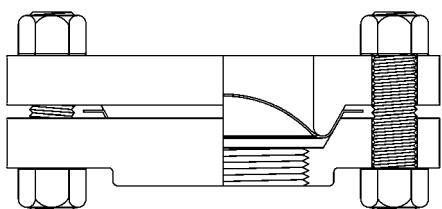
TABLE 7
Minimum and Maximum Burst Pressures and Maximum Temperatures for Threaded Holders

Size inches	Disk Material	Unlined Disks			Teflon®-Lined Disks			
		Min Press psig	Max Press psig	Max Temp °F	Min Press 1 Side psig	Min Press 2 Sides psig	Max Press 1 or 2 Sides psig	Max Temp 1 or 2 Sides °F
11/16"	Stainless steel 316	455	1000	900	650	740	1000	400
	Nickel 200	200	1000	750	370	460	1000	400
	Monel® 400	250	1000	800	420	510	1000	400
	Inconel® 600	325	1000	900	500	590	1000	400
	Aluminum	55	650	250	225	315	650	250
1/2"	Stainless steel 316	700	15000	900	950	1060	5000	400
	Nickel 200	300	7500	750	500	610	3750	400
	Monel® 400	375	7500	800	575	685	4500	400
	Inconel® 600	500	15000	900	725	835	5000	400
	Aluminum	90	1000	250	275	380	1000	250

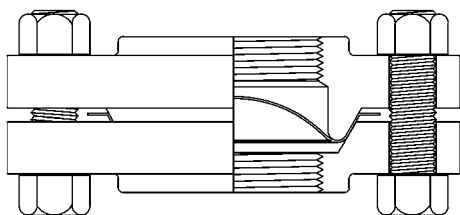
BOLTED RUPTURE DISK HOLDERS

bolted RUPTURE DISK HOLDER

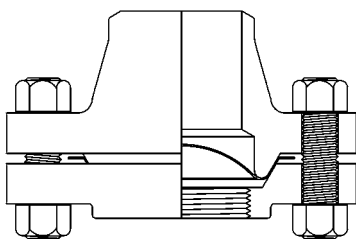
Available with any combination of weld-neck, threaded or flat inlet and outlet connections. Full-diameter flat-faced inlet and outlet flanges are available, designed to be used between ANSI companion flanges. The bolted rupture disk holders are designed to be used with ANSI B16.5. Standard materials of construction are carbon steel and stainless steel 316. Other materials are available upon request.



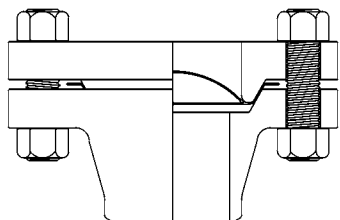
RDH1 • Threaded inlet, flat outlet.



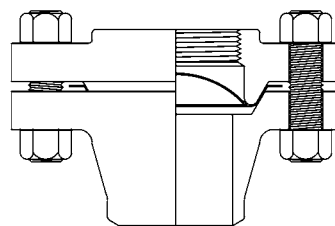
RDH2 • Threaded inlet, threaded outlet.



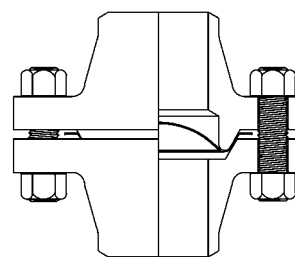
RDH3 • Threaded inlet, welded outlet.



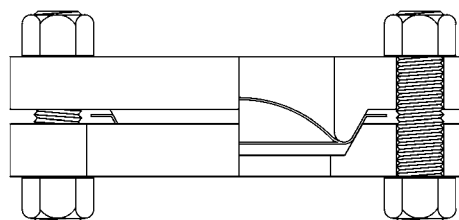
RDH4 • Welded inlet, flat outlet.



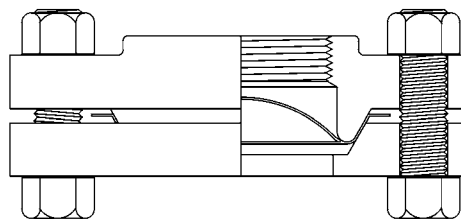
RDH5 • Welded inlet, threaded outlet.



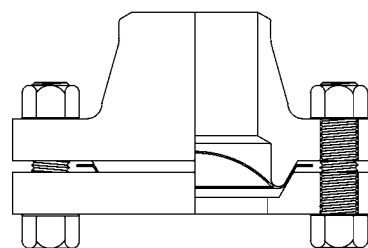
RDH6 • Welded inlet, welded outlet.



RDH7 • Flat inlet, flat outlet.



RDH8 • Flat inlet, threaded outlet.



RDH9 • Flat inlet, welded outlet.

1.800.395.
disk

Trust... the Oseco Advantage

PERFORMANCE

Oseco manufactures rupture disks, panels, and other pressure relief products in two climate-controlled, state-of-the-art facilities, considered by many the finest in the world industry-wide. Computerized load cells, used to manufacture our high-performance rupture disks, provide technology so precise that we can control scoring to within millionths of an inch. You've come to expect accuracy, dependability, and repeatability from Oseco.

QUALITY

Only Oseco uses single-craftsperson responsibility: the maker's signature on each and every order assures you we have enough pride in our work to take credit for it. This, coupled with a quality control program that exceeds the requirements of ISO 9001, promises you that Oseco's products are made with the highest quality in the industry.

RESPONSE

Orders for most custom-made products are shipped from Oseco within three weeks of receiving the order. Oseco utilizes its own in-house, five-axis laser, which allows us to provide reduced delivery times for emergency SureShip orders. In many cases, same-day service is available!

SERVICE

Oseco's company-owned, employee-operated laser gives us control over production and gives you the fastest delivery available. Its precise, repeatable trimming technology also makes available unique new designs, such as our low-pressure PLR. After all, Oseco's goal is to provide you, the customer, with the best response, quality, and overall performance for your rupture disk needs.

Let us prove our commitment to this goal: contact your local Oseco representative and ask us for a Rupture Disk Review. Your representative and a factory technician will review all of your pressure applications, suggest changes as applicable, and give you a competitive quotation at no cost, guaranteed to save you money.

TRUST OSECO TO PROVIDE YOU WHAT YOU NEED MOST: VALUE!

Visit the Oseco website at www.oseco.com, write us at info@oseco.com, or call us toll-free at 1.800.395.disk for more information or to receive your free Rupture Disk Review.

**OSECO**

A handwritten signature in blue ink, reading "Joe Ragosta".

Joseph M. Ragosta
President, Oseco

Made in the USA Since 1981

OSECO, INC.

OSECO
1701 West Tacoma, **Broken Arrow, Okla.** 74012, U.S.A.
voice 1.918.258.5626 • fax 1.918.251.7662

EUROPE: OSECO EUROPE BV
Box 23, 8330AA **Steenwĳk, the Netherlands**
voice 31.521.522.578 • fax 31.521.510.405

ASIA: HALMA ASIA OSECO DIVISION
Pantech Complex, Block 192 Pandan Loop #501, **Singapore** 128381
voice 65.745.2936 • fax 65.745.0467

www.oseco.com • 1.800.395.disk • info@oseco.com

—A—
**HALMA
GROUP
COMPANY**