AGGSSOTICS

Autoclave Engineers offers a complete selection of accessories to complete your system requirements.

Components such as thermocouples and thermowells are used for monitoring and controlling temperatures in systems with operating pressures up to 100,000 psi (6895 bar).

Safety head assemblies are used to protect systems and pressure vessels from over-pressure conditions. Rupture discs are available in various pressure ranges and material options suitable for the application.

Pressure gauges are used to monitor and control pressure. Pressure gauges are available in two sizes, 4-1/2" and 6" (114.3 mm and 152.4 mm), and ranges from 0 to 80,000 psi (0 to 5116 bar). Optional electrical contact faces for pressure control are used to set high and low limits. Gauges are standard panel mount or can be flush mounted with an optional flush mount kit.

Gauge/instrument snubbers provide superior protection without compromising instrument accuracy or reaction time. Available with male and female connections in 1/4" and 3/8" sizes.

Accessories are also available as specials or non-standard items. Contact your local sales representative for more information.





Division of Snap-tite, Inc. www.autoclave.com

Agessories - Pencil-type Thermocouples

Pressures to 15,000 psi (1034 bar)

Thermocouples provide reliable temperature measurement within a system.

The design permits installation of the element in direct contact with the fluid stream, thereby providing reliable temperature measurement. The quick-connector affords system flexibility. The thermocouple tip has a grounded-type junction.

Materials

Precision-molded plastic connectors have heavy duty, spring-loaded jack inserts for positive contact. The sheath is type 316 stainless steel with 316 SS ferrule and gland. We offer a choice of iron constantan (J) or chromel-alumel (K) type elements (please specify when ordering). Basic assembly includes 1/8" Autoclave Speedbite connection with adapters for other connection sizes.

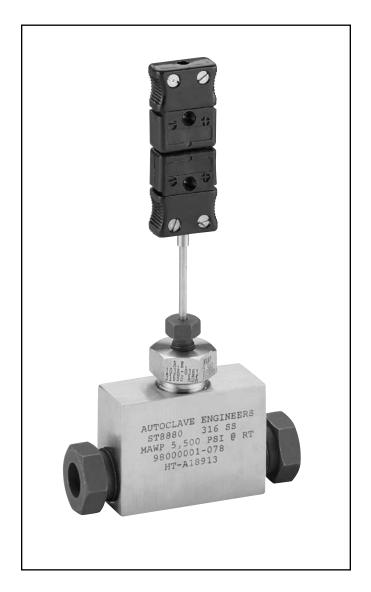
Pressure/Temperature Ratings

Ratings to 15,000 psi (1034 bar) maximum working pressure. Temperature rating based on connection style. Low pressure Speedbite connection not recommended below 0°F (-17.8C) or above 650°F (343°C)

Ordering Information

Catalog order numbers in the table refer to the complete assembly. Add suffix"J" for iron constantan element or "K" for chromel-alumel. To order a basic thermocouple with plug/jack assembly and connection (without through or angle block), change last digit in order number to "0" and specify sheath length if different from standard 3.62" (91.94 mm) length.

Ordering examples: TP4400K 6" (152.4 mm) denotes basic thermocouple to fit into a 1/4" Autoclave SpeedBite connection with chromel-alumel element and 6" (152.4 mm) sheath. TP 4401K denotes the above unit complete with through-type block and standard 3.62" (91.94 mm) sheath.



Thermocouple Specification Table

Calibration Type	Type of Thermocouple	Temperature Range	Comments
J	Iron (+) Constantan (-)	32 - 1400°F (0 - 760°C)	Reducing atmoshphere recommended. Iron leg subject to oxidation to elevated temperaturesuse larger gauge to compensate.
K	Chromel (+) Alumel (-)	-328 - 2300°F (-200 - 1260°)	Well suited for oxidizing atmosphere. Most commonly used calibration type.

Accessories - Pencil-type Thermocouples

Catalog	Fits alog Connection	Tubing Size		Dir	nensions -		Block	Fitting		
Number	Туре	Inches (mm)	А	В	С	D	Е	Н	Thickness	Pattern

Through-Type

TP2201	W125	1/8	1.38	0.69	0.31	3.62	1.00	7.18	0.50	
		(3.18)	(35.05)	(17.53)	(7.87)	(91.95)	(25.40)	(182.37)	(12.70)	
TP4401	SW250	1/4	1.75	0.88	0.44	3.62	1.19	7.25	0.62	0
		(6.35)	(44.45)	(22.35)	(11.18)	(91.95)	(30.23)	(184.15)	(15.75)	See
TP6601	SW375	3/8	2.00	1.00	0.53	3.62	1.38	7.31	0.75	Figure 1
		(9.52)	(50.80)	(25.40)	(13.46)	(91.95)	(35.05)	(185.67)	(19.05)	
TP8801	SW500	1/2	2.50	1.25	0.53	3.62	1.75	7.44	1.00	
		(12.70)	(63.50)	(31.75)	(13.46)	(91.95)	(44.45)	(188.98)	(25.40)	

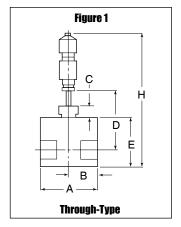
Angle-Type

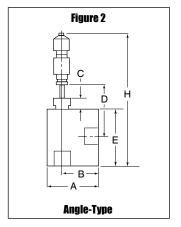
TP2202	W125	1/8	1.00	0.75	0.31	3.62	1.38	7.62	0.50	
		(3.18)	(25.40)	(19.05)	(7.87)	(91.95)	(35.05)	(193.55)	(12.70)	
TP4402	SW250	1/4	1.19	0.88	0.44	3.62	1.75	7.81	0.62	
		(6.35)	(30.23)	(22.35)	(11.18)	(91.95)	(44.45)	(198.37)	(15.75)	See
TP6602	SW375	3/8	1.38	1.00	0.53	3.62	2.00	7.94	0.75	Figure 2
		(9.52)	(35.05)	(25.40)	(13.46)	(91.95)	(50.80)	(201.68)	(19.05)	
TP8802	SW500	1/2	1.75	1.25	0.53	3.62	2.50	8.19	1.00	
		(12.70)	(44.45)	(31.75)	(13.46)	(91.95)	(63.50)	(208.03)	(25.40)	

Note: All thermocouples are furnished complete with connection components unless otherwise specified.

All dimensions for reference only and subject to change. For prompt service, Autoclave stocks select products. Consult your local representative.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.





Note: Tee or elbow is included in standard catalog number.

Accessories - Sheath-type Thermocouples

Pressures to 60,000 psi (4137 bar)

Thermocouples provide reliable temperature measurement within a fluid system.

Similar to low pressure thermocouples, this design also permits direct temperature monitoring at any point in a fluid system. The sheath type thermocouple features grounded junction and rapid response - 100 milliseconds or less at 63.3% of a step charge.

Temperature Rating

Rating to 2,000 °F (1093°C) at tip of thermocouple. (Refer to adjacent Pressure/Temperature chart for elevated temperatures.) Minimum operating temperature 0°F (-17.8°C)

Sheath Length

Differs for each size connection for optimum tip contact with fluid stream.

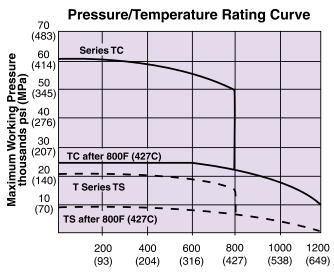
Materials

Bodies high strength stainless steel. 316 sheath brazed into body with gold-nickel alloy brazing material. An aluminum terminal housing is threaded into the body for ready access to terminals. An o-ring seal provides moisture protection.

Ordering Information

To order thermocouples for use in standard Autoclave tees or crosses, use order numbers listed in table (**fittings not included as standard**). For custom length sheaths, to extend through a vessel wall or cover, calculate sheath length as follows:

- 1. Add vessel wall or cover thickness to the distance the sheath will extend into vessel.
- 2. When using a basic 1/4" Autoclave connection, subtract dimension "M" for proper sheath length to order.
- 3. For all other connection sizes, add dimension "N" to measurement obtained in step 1.
- 4. Order a custom length sheath by adding desired length in inches as suffix to order number.



Temperature at Connection: °F (°C)

Standard collar and gland are cold worked 316 SS for use up to 1200°F (649°C). When cold worked 316 SS collar and gland are used, the physical properties are permanently altered after use above 800°F (427°C).

CAUTION: While testing has shown O-rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling, and age of the O-ring. FREQUENT INSPECTION SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See appropriate pressure section in reference to proper selection of tubing.

Accessories - Sheath-type Thermocouples

Ostala v	Fits	Tubing	Flant and	Din	nensions -	inches (m	ım)	Fishing a
Catalog Number	Connection Type	Size Inches (mm)	Element Type	L	M	N	Н	Fitting Pattern

Series TS 20,000 psi (1379 bar)

TSJ4	SF250CX	1/4	iron constantan	0.28	0.95		5.78	See Figure 1
TSK4		(3.18)	chromel-alumel	(7.11)	(24.13)		(146.81)	occ riguic i
TSJ6	SF375CX	3/8	iron constantan	1.19		0.19	6.67	
TSK6		(9.52)	chromel-alumel	(30.23)		(4.83)	(166.88)	
TSJ9	SF562CX	9/16	iron constantan	1.19		0.13	6.50	Coo
TSK9		(14.28)	chromel-alumel	(30.23)		(3.30)	(165.10)	See
TSJ12	SF750CX	3/4	iron constantan	2.00		0.50	6.88	Figure 2
TSK12		(19.05)	chromel-alumel	(50.80)		(12.70)	(174.75)	
TSJ16	SF1000CX	1	iron constantan	2.62		0.57	6.94	
TSK16		(25.4)	chromel-alumel	(66.55)		(14.48)	(176.28)	

Series TC 60,000 psi (4137 bar)

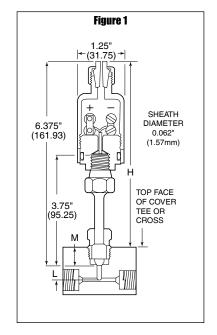
TCJ4	F250C	1/4	iron constantan	0.38	0.50		5.88	See Figure 1
TCK4		(3.18)	chromel-alumel	(9.65)	(12.70)		(149.35)	oee rigure i
TCJ6	F375C	3/8	iron constantan	1.38		0.32	6.69	
TCK6		(9.52)	chromel-alumel	(35.05)		(8.13)	(169.93)	See
TCJ9	F562C	9/16	iron constantan	1.62		0.25	6.62	Figure 2
TCK9		(14.28)	chromel-alumel	(41.15)		(6.35)	(168.15)	

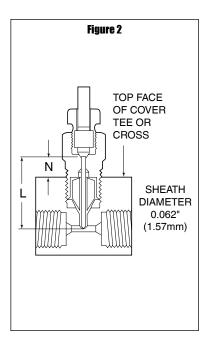
Note: All thermocouples are furnished complete with connection components unless otherwise specified.

All dimensions for reference only and subject to change.
For prompt service, Autoclave stocks select products. Consult your local representative.

Basic assembly includes $1/4^{\prime\prime}$ connection with adapters for other O.D. tube sizes.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.





Note: The tee shown in both figures are for reference only. Tee is not included.

Accessories - Thermowells

Pressures to 20,000 psi (1379 bar)

Thermowells are used to provide isolation between a temperature sensor and the environment, such as liquid or gas. Thermowells protect the sensor from pressure, corrosion, abrasion or vibration caused by the process medium. Thermowells allow the temperature sensor to be removed and replaced without compromising either the ambient region or the process.

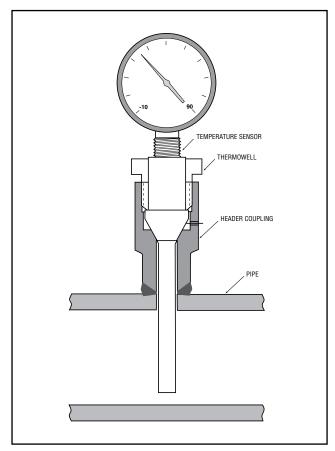
Autoclave manufactures thermowells from solid bar stock to accommodate applications in the petrochemical, chemical, refining, power and other process industries for many years.

Autoclave manufactures 316SS thermowells capable of connecting to a 1" (SF1000CX) Autoclave female medium pressure connection.

Care must be taken in determining the material used for the thermowell as well as other factors. Autoclave offers design assistance that includes pressure, temperature and vibration effect of the fluids. This vibration can cause well stem failure. Standard and special thermowell materials available:

- 316 Stainless Steel
- Hastelloy
- Inconel
- · Connection gland included

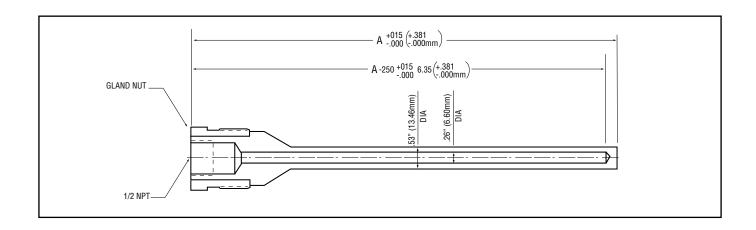
To order Autoclave thermowell assemblies, please refer to our order guide to assist in determining your needs. Contact your local representative or the factory for technical assistance and application suggestions



Typical Thermowell Assembly

Ordering Information

Catalog Number	Dimesion "A" in (mm)	Pressure Rating PSI (bar)
TW02.75	2.75 (70.68)	20,000 (1379)
TW03.12	3.12 (79.25)	20,000 (1379)
TW03.86	3.86 (98.04)	20,000 (1379)
TW04.25	4.25 (107.95)	20,000 (1379)
TW04.50	4.50 (114.30)	20,000 (1379)
TW05.50	5.50 (139.70)	20,000 (1379)
TW05.75	5.75 (146.05)	20,000 (1379)
TW06.25	6.25 (158.75)	20,000 (1379)
TW07.00	7.00 (177.80)	20,000 (1379)
TW07.50	7.50 (190.50)	20,000 (1379)
TW010.00	10.00 (254.00)	20,000 (1379)
TW012.00	12.00 (304.80)	20,000 (1379)



Accessories - Universal Safety Heads

Pressures to 110.000 psi (7584 bar)

Safety Heads/Rupture Discs - Safety Heads and Rupture Discs offer an economical and dependable relief port to guard against system over-pressure.

Autoclave Engineers offers universal safety heads in three series compatible in orifice size and maximum pressure rating with Autoclave Low Pressure, Medium Pressure and High Pressure valves, fittings and tubing.

Autoclave Low Pressure Series SS: Autoclave SpeedBite Ermeto-type tube connection, maximum rupture pressures to 15,000 psi (1034 bar).

Autoclave Medium Pressure Series CSX: Autoclave Medium-Pressure coned-and-threaded tube connection, maximum rupture pressures to 20,000 psi (1379 bar).

Autoclave High Pressure Series CS: Autoclave High Pressure coned-and-threaded tube connection, maximum rupture pressure to 110,000 psi (7584 bar).

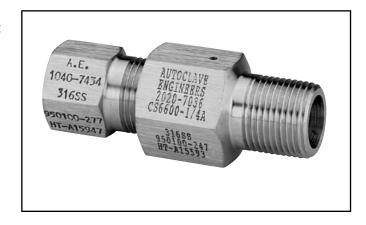
The 3/16F style features a 3/16" blow-out diameter and a flat seat which can be ordered in pressure range from 200 to 27,000 psi (13.8 to 1862 bar).

The 1/4A style features a 1/4" blow-out diameter and an angular seat which can be ordered in pressures from 900 to 60,000 psi (62 to 4137 bar).

The 1/4F style features a 1/4" blow-out diameter and a flat seat which is used for pressure above 60,000 psi (4137 bar).

The 1/2F style features a 1/2" blow-out diameter and a flat seat which can be ordered in pressures from 500 to 10,000 psi (35 to 690 bar).

ASME Safety Head - Autoclave now has an ASME Section VIII Div. 3 safety head assembly rated to 115,000 psi (7929 bar). Contact the factory or your local sales representative for details and ordering information.



Materials and Features

- Non-rotating double-cone plug design avoids galling and scoring of safety head or connection during installation.
 Reduces likelihood of leakage.
- Interchangeable hold-down rings permit use of several different sizes and types of rupture discs in a single safety head. Accommodates discs with rupture pressures as low as 90 psi (6.2 bar) and ranging to 60,000 psi (4137 bar) and above.
- Installs in any standard Autoclave coupling, elbow, cross or tee.
- Cold-worked Type 316 SS body hold down gland and plug, all series.
- Hold down rings are corrossion resistant stainless steel.

Consult Local Sales Representative for safety head assemblies rated above 60,000 psi (4137 bar).

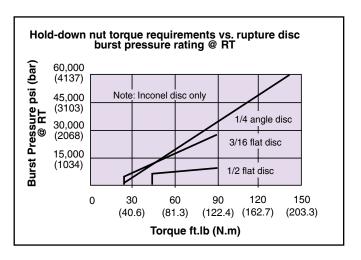
Ordering Information

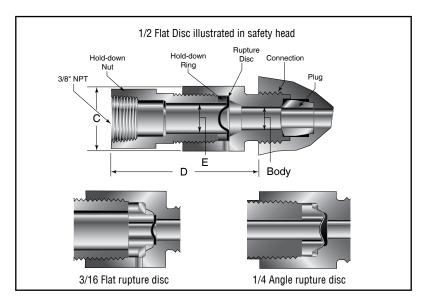
To order an Autoclave Universal Safety Head, use the catalog order number from table. ADD THE SIZE OF THE RUPTURE DISC YOU WANT AS A SUFFIX TO THE CATALOG NUMBER; SUCH AS CS6600-1/4A. Then order desired rupture discs from rupture disc section. (This is important since the disc size determines which hold-down ring will be furnished with the safety head.) Note: Plug is included.

Hold-down nut torque values

Mini	ļue@ mum sure	Torq Maxi Pres		Rupture Disc	Hold-down Ring
Ft. lb. (N.m)	psi (bar)	Ft. lb. psi (N.m) (bar)		inches	Part Number
20 (27.1)	5,000 (345)	90 (122.0)	26,500 (1827)	3/16 Flat [†]	112A-0439
40 (54.2)	4,000 (276)	90 (122.0)	10,000 (690)	1/2 Flat	1050-7434
20 (27.1)	4,000 (276)	140 (189.8)	60,000 (4137)	1/4 Angle	108A-0439

3/16 flat seat disc cannot be used with safety head assemblies SS6600, SS8600, 40CS9600 and CSX9600. Torque values for intermediate pressures may be linearly interpolated. Use minimum torque value for pressures lower than those shown.





Catalog Number	Body	Plua	Hold-down Gland	Fits	Fitting Pressure	Body	Plua	Body		pture Disc S inches (mm)	-	Dimer inches	
Without Disc	Part Number	Part Number	Part Number	Connection Type	Rating psi (bar)	Torque Ft.lb. (N.m)	Orifice inches (mm)	Orifice inches (mm)	3/16F Port E*	1/4A Port E*	1/2F Port E*	С	D

Low-Pressure

SS2600	2010- 7035	101A- 0434	3/16 &	W125	15,000 (1034.2)	15 (20.3)	0.094 (2.39)	0.125 (3.15)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.13 (53.96)
SS4600	2020- 7035	102A- 0434	1/2 Flat 1040-7434	SW250	15,000 (1034.2)	15 (20.3)	0.125 (3.18)	0.250 (6.35)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.13 (53.96)
SS6600	2030- 7035	103A- 0434	1/4	SW375	15,000 (1034.2)	15 (20.3)	0.250 (6.35)	0.375 (9.53)	NA	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.13 (53.96)
SS8600	2040- 7035	104A- 0434	Angle 1030-0241	SW500	10,000 (690.0)	20 (22.1)	0.375 (9.53)	0.375 (9.53)	NA	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.13 (53.96)

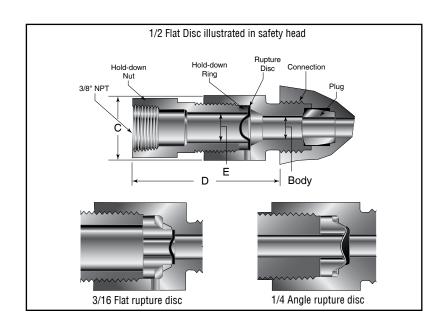
Port E^\star - Minimum disc blow-out diameter of hold down ring

Note: Interchangeable hold-down rings permit use of several different sizes and types of rupture disc in a single safety head.

Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.
For prompt service, Autoclave stocks select products. Consult your local representative.



Catalog Number Body	Plug	Hold-down Gland	Fits	Fitting Pressure	~		Body		pture Disc S nches (mm)	Dimensions inches (mm)		
Without Part Disc Number	Part Number	Part Number	Connection Type	Rating psi (bar)	Torque Ft.lb. (N.m)	Orifice inches (mm)	Orifice inches (mm)	3/16F Port E*	1/4A Port E*	1/2F Port E*	С	D

Medium-Pressure

CSX4600	101A- 1731	2010- 7823	3/16 & 1/2	SF250CX	20,000 (1378.9)	15 (20.3)	0.094 (2.39)	0.141 (3.58)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.19 (55.63)
CSX6600	102A- 1731	2010- 7844	Flat 1040-7434	SF375CX	20,000 (1378.9)	20 (27.1)	0.171 (4.34)	0.250 (6.35)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.19 (55.63)
CSX9600	101A- 0438	102A- 0438	1/4 Angle 1030-0241	SF562CX	20,000 (1378.9)	30 (40.6)	0.312 (7.92)	0.375 (9.53)	NA	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.19 (55.63)

High-Pressure

CS4600	2010- 7036	1030- 4877	3/16 &	F250C	60,000 (4136.8)	20 (2.8)	0.082 (2.08)	0.125 (3.18)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.25 (57.15)
CS6600	2020- 7036	1030- 6096	1/2 Flat 1040-7434	F375C	60,000 (4136.8)	40 (5.5)	0.125 (3.18)	0.219 (5.56)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.00 (25.4)	2.25 (57.15)
CS9600	2030- 7036	1030- 6097		F562C	60,000 (4136.8)	80 (11.1)	0.188 (4.78)	0.281 (7.13)	0.188 (4.78)	0.25 (6.35)	0.50 (12.7)	1.19 (30.23)	2.25 (57.15)
40CS9600	2030- 7036	101C- 7192	1/4 Angle 1030-0241	F562C40	40,000 (2757.9)	80 (11.1	0.250 (6.35)	0.281 (7.13)	NA	0.25 (6.35)	0.50 (12.7)	1.19 (30.23)	2.25 (57.15)

Port E^\star - Minimum disc blow-out diameter of hold down ring

Note: Interchangeable hold-down rings permit use of several different sizes and types of rupture disc in a single safety head.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

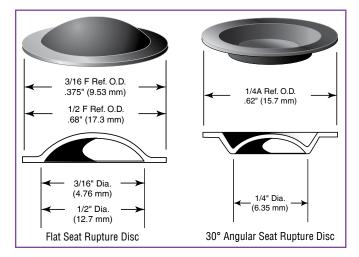
All dimensions for reference only and subject to change.

For prompt service, Autoclave stocks select products. Consult your local representative.

Accessories - Prebulged Rupture Discs

Ordering Information

- Specify quantity, disc size, type, material and temperature.
- Indicate desired rupture rating which should be at least 110% of operating pressure. Manufacturing tolerances are +6% to -3% of nominal rating and will burst at ±5% of furnished rating. Discs are rated at 72°F (22°C).
- Optional burst tolerance ratings are available upon request. 1/4% and 0% options provide a much closer burst to the stated burst pressure. 0% burst discs have a 0% manufacturing tolerance and a +/-2.5% burst tolerance.
- Minimum order of 6 discs required for materials other than
 Income!
- · See next page for standard part numbers.



Disc Material	Disc Size Seat Type	Rupture Pressures Standard Available Range ± 5%	Maximum Temperature Rating
	Inches	psi (bar)	°F (°C)
	3/16 flat	220 to 1,750 (15.2 to 120.7)	250 (121)
Aluminum	1/4 angle	160 to 2,000 (11.0 to 137.9)	250 (121)
	1/2 flat	90 to 1,000 (6.2 to 68.9)	250 (121)
	3/16 flat	500 to 4,500 (34.5 to 310.3)	250 (121)
Silver	1/4 angle	360 to 6,000 (24.8 to 413.7)	250 (121)
	1/2 flat	190 to 1,700 (13.1 to 117.2)	250 (121)
	3/16 flat	3,000 to 65,000 (206.8 to 4481.5)	1,000 (538)
Hastelloy C	1/4 angle	2,500 to 70,000 (172.4 to 4826.3)	1,000 (538)
	1/2 flat	1,300 to 11,500 (89.6 to 792.9)	1,000 (538)
	3/16 flat	770 to 20,000 (53.1 to 1378.9)	750 (399)
Nickel	1/4 angle	550 to 35,000 (37.9 to 2413.1)	750 (399)
	1/2 flat	300 to 7,500 (20.7 to 517.1)	750 (399)
	3/16 flat	960 to 20,000 (66.2 to 1378.9)	800 (427)
Monel	1/4 angle	690 to 40,000 (47.6 to 2757.9)	800 (427)
	1/2 flat	375 to 7,500 (25.9 to 517.1)	800 (427)
	3/16 flat	1,250 to 20,000 (86.2 to 1378.9)	900 (482)
Inconel 600 (Standard)	1/4 angle	900 to 75,000 (62.1 to 5171.0)	900 (482)
	1/2 flat	500 to 10,000 (34.5 to 690.0)	900 (482)
	3/16 flat	1,750 to 20,000 (120.7 to 1378.9)	900 (482)
Type 316 Stainless Steel	1/4 angle	1,250 to 60,000 (86.2 to 4136.8)	900 (482)
	1/2 flat	700 to 10,000 (48.3 to 690.0)	900 (482)

Teflon coating available on one or both sides to increase minimum rupture rating.

All dimensions for reference only and subject to change.
For prompt service, Autoclave stocks select products. Consult your local representative.

CAUTION: High pressure-to-rupture ratios, severe pressure or temperature cycling, corrosion and metal fatigue affect disc life and rupture pressure. Frequent disc replacement may be desirable to avoid premature rupture. Rupture disc manufacturers recommended a 140 to 170 percent margin on disc ratings for extended disc life.

Rupture Disc Stock Part List - 3/16 Flat Disc

Part			Pressure	Pressure
Number	Description	Material	Range	Range
			(psi)	(bar)
P-7003	3/16F DISC	Inconel	1940-2120	134-146
P-7674	3/16F DISC	Inconel	2231-2438	154-168
P-7005	3/16F DISC	Inconel	2910-3180	201-219
P-7007	3/16F DISC	Inconel	3201-3498	221-241
P-7009	3/16F DISC	Inconel	3880-4240	268-292
P-7011	3/16F DISC	Inconel	4365-4700	301-324
P-7013	3/16F DISC	Inconel	4850-5300	334-365
P-7015	3/16F DISC	Inconel	5141-5618	355-387
P-7017	3/16F DISC	Inconel	5335-5830	368-402
P-7018	3/16F DISC	Inconel	5626-6148	388-424
P-7019	3/16F DISC	Inconel	5723-6254	395-431
P-7020	3/16F DISC	Inconel	5820-6360	401-439
P-7021	3/16F DISC	Inconel	6014-6572	415-453
P-7022	3/16F DISC	Inconel	6111-6678	421-460
P-7024	3/16F DISC	Inconel	6305-6890	435-475
P-7026	3/16F DISC	Inconel	6790-7420	468-512
P-7028	3/16F DISC	Inconel	7275-7950	502-548
P-7030	3/16F DISC	Inconel	7760-8480	535-585
P-7032	3/16F DISC	Inconel	8245-9010	568-621
P-7034	3/16F DISC	Inconel	8730-9540	602-658
P-7040	3/16F DISC	Inconel	10185-11130	702-767
P-7044	3/16F DISC	Inconel	11155-12190	769-840
P-7046	3/16F DISC	Inconel	11640-12720	803-877
P-7048	3/16F DISC	Inconel	12125-13250	836-914
P-7050	3/16F DISC	Inconel	12610-13780	869-950
P-7052	3/16F DISC	Inconel	13095-14310	903-987
P-7054	3/16F DISC	Inconel	13580-14840	936-1023
P-7056	3/16F DISC	Inconel	14065-15370	970-1060
P-7058	3/16F DISC	Inconel	14550-15900	1003-1096
P-7060	3/16F DISC	Inconel	15035-16430	1037-1133
P-7062	3/16F DISC	Inconel	15520-16960	1070-1169
P-7064	3/16F DISC	Inconel	16005-17490	1103-1206
P-7068	3/16F DISC	Inconel	16975-18550	1170-1279
P-7072	3/16F DISC	Inconel	17945-19610	1237-1352
P-7074	3/16F DISC	Inconel	18430-20140	1271-1389
P-7080	3/16F DISC	Inconel	19885-21730	1371-1498
P-7082	3/16F DISC	Inconel	20370-22260	1404-1535
P-7084	3/16F DISC	Inconel	20885-22790	1440-1571
P-7086	3/16F DISC	Inconel	21340-23320	1471-1608
P-7088	3/16F DISC	Inconel	21825-23850	1505-1644
P-7094	3/16F DISC	Inconel	23280-25440	1605-1754
P-7096	3/16F DISC	Inconel	24250-26500	1672-1827
P-7098	3/16F DISC	Inconel	24735-27030	1705-1864

Rupture Disc Stock Part List - 1/4 Angle Disc

P-7303	ange	Pressure Range (bar)	Pressure Range (psi)	Material	Description	Part Number
P-7305	 '-73	67-73	970-1060	Inconel	1/4A DISC	P-7301
P-7307)-88	80-88	1164-1272	Inconel	1/4A DISC	P-7303
P-7309)-110	100-110	1445-1590	Inconel	1/4A DISC	P-7305
P-7311	'-128	117-128	1697-1855	Inconel	1/4A DISC	P-7307
P-7313	-146	134-146	1940-2120	Inconel	1/4A DISC	P-7309
P-7315	'-183	167-183	2425-2650	Inconel	1/4A DISC	P-7311
P-7317	-219	201-219	2910-3180	Inconel	1/4A DISC	P-7313
P-7319	-256	234-256	3395-3710	Inconel	1/4A DISC	P-7315
P-7321	3-292	268-292	3880-4240	Inconel	1/4A DISC	P-7317
P-7323 1/4A DISC Inconel 5335-5830 368-40 P-7325 1/4A DISC Inconel 5820-6360 401-43 P-7327 1/4A DISC Inconel 6305-6890 435-47 P-7329 1/4A DISC Inconel 6790-7420 468-51 P-7331 1/4A DISC Inconel 7275-7950 502-54 P-7333 1/4A DISC Inconel 7760-8480 535-58 P-7335 1/4A DISC Inconel 8245-9010 568-62 P-7337 1/4A DISC Inconel 8730-9540 602-65 P-7339 1/4A DISC Inconel 9215-10070 635-69 P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-84 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7347 1/4A DISC Inconel 11215-13250 80-91	-329	301-329	4365-4770	Inconel		P-7319
P-7325	-365	334-365	4850-5300			
P-7327 1/4A DISC Inconel 6305-6890 435-47 P-7329 1/4A DISC Inconel 6790-7420 468-51 P-7331 1/4A DISC Inconel 7275-7950 502-54 P-7333 1/4A DISC Inconel 7760-8480 535-58 P-7335 1/4A DISC Inconel 8245-9010 568-62 P-7337 1/4A DISC Inconel 8730-9540 602-65 P-7339 1/4A DISC Inconel 9215-10070 635-69 P-73341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10670-11660 736-80 P-7345 1/4A DISC Inconel 1155-12190 769-84 P-7347 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12610-13780 869-95 P-7353 1/4A DISC Inconel 13095-14310 903-98 P-7355 1/4A DISC Inconel 13580-14840 936-102<		368-402		Inconel		
P-7329 1/4A DISC Inconel 6790-7420 468-51 P-7331 1/4A DISC Inconel 7275-7950 502-54 P-7333 1/4A DISC Inconel 7760-8480 535-58 P-7335 1/4A DISC Inconel 8245-9010 568-62 P-7337 1/4A DISC Inconel 8730-9540 602-65 P-7339 1/4A DISC Inconel 9215-10070 635-69 P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 13095-14310 903-98 P-7355 1/4A DISC Inconel 13580-14840 936-10	-438	401-438	5820-6360	Inconel		
P-7331		435-475				
P-7333		468-512				
P-7335 1/4A DISC Inconel 8245-9010 568-62 P-7337 1/4A DISC Inconel 8730-9540 602-65 P-7339 1/4A DISC Inconel 9215-10070 635-69 P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15520-16960 <t< td=""><td></td><td>502-548</td><td></td><td></td><td></td><td></td></t<>		502-548				
P-7337 1/4A DISC Inconel 8730-9540 602-65 P-7339 1/4A DISC Inconel 9215-10070 635-69 P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960		535-585		Inconel		
P-7339 1/4A DISC Inconel 9215-10070 635-69 P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16490-18020		568-621				
P-7341 1/4A DISC Inconel 9700-10600 669-73 P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16490-18020 1137-12 P-7377 1/4A DISC Inconel 17460-19080		602-658				
P-7343 1/4A DISC Inconel 10185-11130 702-76 P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16490-18020 1137-12 P-7373 1/4A DISC Inconel 16975-18550 1170-12 P-7375 1/4A DISC Inconel 17460-19080		635-694				
P-7345 1/4A DISC Inconel 10670-11660 736-80 P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7379 1/4A DISC Inconel 16490-18020 1137-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610		669-731				
P-7347 1/4A DISC Inconel 11155-12190 769-84 P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16975-18550 1170-12 P-7371 1/4A DISC Inconel 17945-19610 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 <td></td> <td>702-767</td> <td></td> <td></td> <td></td> <td></td>		702-767				
P-7349 1/4A DISC Inconel 11640-12720 803-87 P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 17460-19080 1204-13 P-7373 1/4A DISC Inconel 17945-19610 1237-13 P-7375 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 <td></td> <td>736-804</td> <td></td> <td></td> <td></td> <td></td>		736-804				
P-7351 1/4A DISC Inconel 12125-13250 836-91 P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
P-7353 1/4A DISC Inconel 12610-13780 869-95 P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7381 1/4A DISC Inconel 1985-21730 1371-14						
P-7355 1/4A DISC Inconel 13095-14310 903-98 P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7381 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7357 1/4A DISC Inconel 13580-14840 936-102 P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 1985-21730 1371-14						
P-7361 1/4A DISC Inconel 14550-15900 1003-10 P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7363 1/4A DISC Inconel 15035-16430 1037-11 P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7365 1/4A DISC Inconel 15520-16960 1070-11 P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7367 1/4A DISC Inconel 16005-17490 1103-12 P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7369 1/4A DISC Inconel 16490-18020 1137-12 P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7371 1/4A DISC Inconel 16975-18550 1170-12 P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7373 1/4A DISC Inconel 17460-19080 1204-13 P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7375 1/4A DISC Inconel 17945-19610 1237-13 P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7377 1/4A DISC Inconel 18915-20670 1304-14 P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7379 1/4A DISC Inconel 19400-21200 1338-14 P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7381 1/4A DISC Inconel 19885-21730 1371-14						
P-7382 1/4A DISC Inconel 21000-22000 1448-15		1371-149				
		1505-164				
		1672-182				

Rupture Disc Stock Part List - 1/4 Angle Disc - con't

Part Number	Description	Material	Pressure Range (psi)	Pressure Range (bar)
P-7387	1/4A DISC	Inconel	25220-27560	1739-1900
P-7389	1/4A DISC	Inconel	26190-28620	1806-1973
P-7391	1/4A DISC	Inconel	27160-29680	1873-2046
P-7393	1/4A DISC	Inconel	29100-31800	2006-2192
P-7395	1/4A DISC	Inconel	30070-32860	2073-2266
P-7397	1/4A DISC	Inconel	31525-34450	2174-2375
P-7399	1/4A DISC	Inconel	33950-37100	2341-2558
P-7401	1/4A DISC	Inconel	36375-39750	2508-2741
P-7403	1/4A DISC	Inconel	38880-42400	2681-2923
P-7405	1/4A DISC	Inconel	41255-45050	2844-3106
P-7407	1/4A DISC	Inconel	43650-47700	3010-3289
P-7409	1/4A DISC	Inconel	48500-53000	3344-3654
P-7411	1/4A DISC	Inconel	53350-58300	3678-4020
P-7413	1/4A DISC	Inconel	58200-63600	4013-4385
P-7415	1/4A DISC	Inconel	62155-66000	4285-4550
P-7417	1/4A DISC	Inconel	65960-72080	4548-4970
P-7419	1/4A DISC	Inconel	68870-75260	4748-5189

Rupture Disc Stock Part List - 1/2 Flat Disc

Part			Pressure	Pressure
Number	Description	Material	Range (psi)	Range (bar)
P-7601	1/2F DISC	Inconel	485-530	33-37
P-7603	1/2F DISC	Inconel	679-742	47-51
P-7605	1/2F DISC	Inconel	727-795	50-55
P-7607	1/2F DISC	Inconel	873-954	60-73
P-7609	1/2F DISC	Inconel	970-1060	67-75
P-7610	1/2F DISC	Inconel	1006-1100	69-76
P-7611	1/2F DISC	Inconel	1164-1272	80-88
P-7613	1/2F DISC	Inconel	1213-1323	84-91
P-7615	1/2F DISC	Inconel	1358-1484	94-102
P-7617	1/2F DISC	Inconel	1455-1590	100-110
P-7619	1/2F DISC	Inconel	1552-1696	107-117
P-7621	1/2F DISC	Inconel	1697-1855	117-128
P-7623	1/2F DISC	Inconel	1746-1908	120-132
P-7625	1/2F DISC	Inconel	1940-2120	134-146
P-7627	1/2F DISC	Inconel	2183-2385	151-164
P-7629	1/2F DISC	Inconel	2271-2438	157-168
P-7631	1/2F DISC	Inconel	2425-2650	167-183
P-7633	1/2F DISC	Inconel	2619-2862	181-197
P-7635	1/2F DISC	Inconel	2716-2968	187-204
P-7637	1/2F DISC	Inconel	2910-3180	201-219
P-7639	1/2F DISC	Inconel	3104-3392	214-234
P-7641	1/2F DISC	Inconel	3395-3710	234-256
P-7643	1/2F DISC	Inconel	3589-3922	247-270
P-7645	1/2F DISC	Inconel	3637-3975	251-274
P-7647	1/2F DISC	Inconel	3880-4240	268-292
P-7649	1/2F DISC	Inconel	4365-4770	301-329
P-7651	1/2F DISC	Inconel	4462-4876	308-336
P-7653	1/2F DISC	Inconel	4850-5300	334-365
P-7655	1/2F DISC	Inconel	5335-5830	368-402
P-7657	1/2F DISC	Inconel	5626-6148	388-424
P-7659	1/2F DISC	Inconel	5820-6360	401-438
P-7661	1/2F DISC	Inconel	6305-6890	435-475
P-7663	1/2F DISC	Inconel	6790-7420	468-512
P-7665	1/2F DISC	Inconel	7275-7950	502-548
P-7667	1/2F DISC	Inconel	7760-8480	535-585
P-7669	1/2F DISC	Inconel	8245-9010	568-621
P-7671	1/2F DISC	Inconel	8730-9540	602-658
P-7673	1/2F DISC	Inconel	9700-10600	669-731

Accessories - Instrument Quality Pressure Gauges

Pressures to 80.000 psi (5116 bar)

Gauges - Pressure gauges are offered for use in low, medium and high pressure systems. Instrument quality gauges are available to pressure of 80,000 psi (5115.7 bar).

Materials and Features

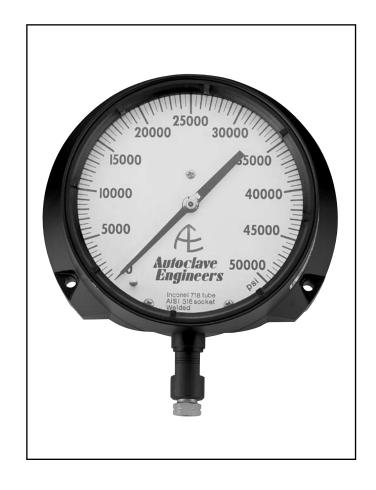
- Accuracy within ±0.5% of full scale range
- 1/4" F250C Autoclave high pressure connection
- Plastic dial cover/solid front aluminum alloy case
- Blow-out back panel for pressure relief in the event of Bourdon tube failure
- 316 Stainless steel Bourdon tubes * *
- Gauges available with bottom and back connections
- Precision stainless steel movement for accuracy and resistance to atmospheric corrosion
- Pointer zero adjustment located on front of gauge behind dial cover for convenience
- · Gauges are commercially cleaned when shipped
- Gauges up to 20,000 psi (1379 bar) oxygen cleaned upon request
- · Gauges glycerin filled upon request
- · Gauges available with dual scale face plates

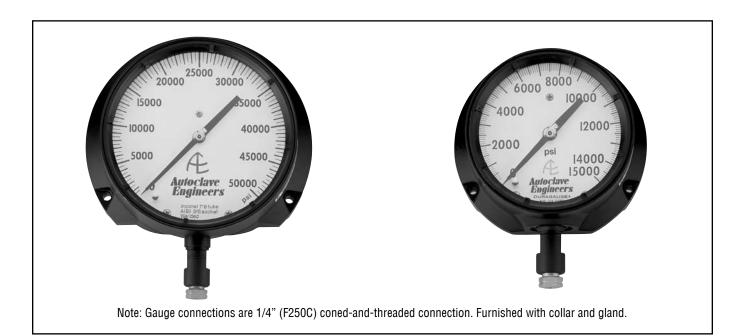
Instrument quality gauges

• Flush panel mounting - Interchangeable dial cover retaining rings are stocked to permit flush panel mounting of any instrument quality gauge. These will be furnished at an additional charge when specified - add "PM" to order number. To order gauge panel mount kit separate: P-8589 4.5" Flush mount

P-8560 6.0" Flush mount

- Optional electrical contact face Available for all instrument quality gauges. With adjustable low and high electrical contacts, this option permits gauges to provide pressure control for automatic or remote operation, or for fail-safe set points.
- **Bourdon tube material for 0-30,000 psi (0-2068 bar) gauge is K Monel. Bourdon tube material for 0-50,000 psi (0-3447 bar) and 0-80,000 psi (0-5116 bar) gauge is Inconel 718.



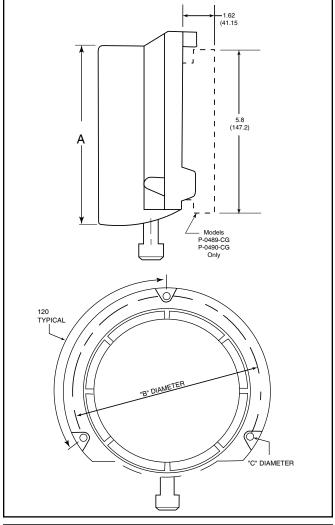


	Bottom connection calibrated in psi only						
Catalog Number	Pressure Range psi (bar)	Minor Interval Value psi (bar)	Dial Diameter inches (mm)				
P-0499-CG	0-1,000 (0-69)	10 (.69)	4-1/2 (114.3)				
P-0479-CG	0-1,500 (0-103)	10 (.69)	4-1/2 (114.3)				
P-0480-CG	0-3,000 (0-207)	20 (1.38)	4-1/2 (114.3)				
P-0481-CG	0-5,000 (0-345)	50 (3.44)	4-1/2 (114.3)				
P-0482-CG	0-10,000 (0-690)	100 (6.89)	4-1/2 (114.3)				
P-0483-CG	0-15,000 (0-1034)	100 (6.89)	4-1/2 (114.3)				
P-0487-CG	0-20,000 (0-1379)	200 (13.79)	4-1/2 (114.3)				
P-0488-CG**	0-30,000 (0-2068)	250 (17.24)	6 (152.4)				
P-0489-CG**	0-50,000 (0-3447)	500 (34.47)	6 (152.4)				
P-0490-CG**	0-80,000 (0-5116)	1,000 (68.94)	6 (152.4)				

Ва	Back connection gauges calibrated in psi only						
Catalog Number	Pressure Range psi (bar)	Minor Interval Value psi (bar)	Dial Diameter inches (mm)				
P-0482B-CG	0-10,000 (0-690)	100 (6.89)	4-1/2 (114.3)				
P-0483B-CG	0-15,000 (0-1034)	100 (6.89)	4-1/2(114.3)				
P-0487B-CG	0-20,000 (0-1379)	200 (13.79)	4-1/2 (114.3)				
P-0488B-CG	0-30,000 (0-2068)	250 (17.24)	6 (152.4)				
P-0489B-CG	0-50,000 (0-3447)	500 (34.47)	6 (152.4)				

Optional Electrical Contact Face				
Catalog Number	Fits Gauge Dial Diameter inches - (mm)			
P-0713	41/2 (114.3)			
P-0714	6 (152.4)			

**Bourdon tube material for 0-30,000 psi (0-2068 bar) gauge is K Monel. Bourdon tube material for 0-50,000 psi (0-3447 bar) and 0-80,000 psi (0-5116 bar) gauge is Inconel 718.



Gauge Size inches - (mm)	"A" cutout inches - (mm)	"B" inches - (mm)	"C" inches - (mm)
4-1/2" (114.3)	4.937 (125.39)	5.375 (136.52)	.281 (7.14)
6" (152.4)	6.437 (163.49)	7.0 (177.80)	.281 (7.14)

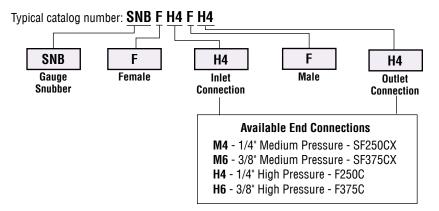
Accessories - Gauge/Instrument Snubbers

Pressures to 60,000 psi (4137 bar)

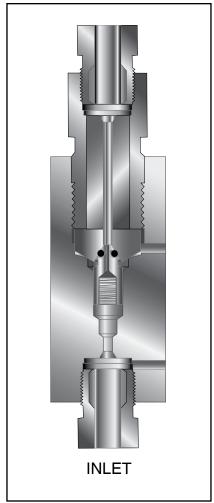
Autoclave Engineers Pressure Snubbers provide protection to gauges and instrumentation from pressure surges, pulsation and shock. The unique snubber design provides superior instrument protection while not compromising instrument accuracy or reaction time. This is accomplished by the use of existing technology from our excess flow check valve with additional design features.

When sudden flow is seen, the poppet will rise, blocking the pressure surge and a small bleed hole in the poppet will allow pressure to slowly equalize. When the pressure is equalized, the poppet will then drop back down allowing normal flow to the gauge. A filter is used to prevent the hole in the plug from becoming plugged. The snubber must be mounted in the vertical position as indicated on the unit.

Snubbers are offered in 316SS as standard, with either male, female or male/female connections in 1/4" and 3/8" sizes. Optional materials available upon request.

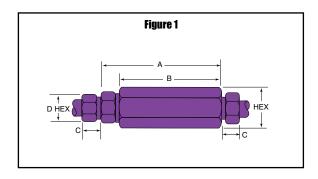


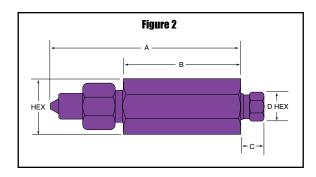


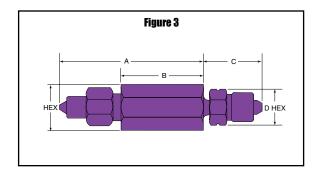


Accessories - Gauge/Instrument Snubbers

Catalog Pressure		Dimensions – Inches (mm)					
Number	Rating psi (bar)	Α	В	C	D	Hex	
SNBFH4FH4	60,000 (4137)	3.36 (85.34)	2.50 (63.50)	0.50 (12.70)	0.63 (15.33)	1.19 (30.15)	1
SNBFH4MH4	60,000 (4137)	4.05 (102.87)	2.50 (63.50)	0.50 (12.70)	0.63 (15.33)	1.19 (30.15)	2
SNBFM4FM4	20,000 (4137)	2.82 (71.63)	2.38 (60.45)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	1
SNBMH6MH4	60,000 (4137)	3.68 (93.47)	2.13 (54.10)	1.50 (38.10)	0.75 (19.05)	1.19 (30.15)	3







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! WARNING !

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