
LINE BLANKS



ITE.
INDUSTRIAL TECHNICAL EQUIPMENT

INTRODUCTION



I.T.E. is an Italian company established in 1998 from the merge between 2 companies, one specialized in trading and one in machining activities, both operating in the Oil & Gas field since 1980. I.T.E. is one of the largest Italian and European manufacturers of valves and fittings for the installation of industrial instruments, mainly in O&G and Energy sectors, with a huge production of: **Needle Valves, Instrument Manifolds, Ball Valves, Pots & Siphons, Compression Fittings, Check Valves, Forged Globe Neele Valves, Adapters/Fittings, Fire Sensors, Sampling Systems, Protection Boxes.**

I.T.E. is specialized also on tailor-made solutions, on request complete packages can be provided to meet customer's needs.

I.T.E. is a flexible and customer oriented company, the manufacturing plant is equipped with different CNC machines, automatic welding machines and an automatic warehouse with different semi-finished standard products, this structure allows us to be reliable partner with a fast response to the customer needs.

I.T.E. products are 100% engineered, manufactured, assembled and tested in Italy, all the products have the traceability system so that we are able to provide the best assistance to customers also specially during maintenance activities providing the right product/component.



FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from I.T.E. s.r.l., its authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by I.T.E. s.r.l. and its subsidiaries at any time without notice.

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FEATURES

I.T.E. Line Blanks (Spectacle Blinds, Paddles, and Spacers) are designed to provide positive, safe, and cost-effective physical isolation of piping systems during maintenance and plant shutdowns. Engineered to pair seamlessly with ASME B16.5 and ASME B16.47 flanges, they combine standard mating geometries with an optimized structural design to maximize manufacturing efficiency and workshop availability.

STANDARD FEATURES

Standard Geometric Compatibility: Outside diameters, inside diameters, and centerlines are engineered in accordance with ASME B16.48 configurations, ensuring a perfect fit between standard flanges without bolt interference.

Tailored Thickness Design: Disc thicknesses are manufactured according to optimized internal engineering standards, offering an excellent balance between mechanical reliability, reduced structural weight, and maximum workshop feasibility.

Positive Isolation: They guarantee a total physical separation of the process fluid within the pipeline, eliminating any risk of bypass or leakage typical of traditional isolation valves.

Comprehensive Range of Configurations: Available as Figure-8 Blanks (Spectacle Blinds), Paddle Blanks, and Paddle Spacers to suit any specific maintenance procedure.

Precision Surface Finishes: Gasket contact surfaces are machined with a standard serrated finish (concentric or phonographic) to optimize seating and sealing integrity against the plant flanges.

Permanent Laser Engraving: Each item is permanently identified via laser engraving on the rim or handle (Manufacturer's name, NPS, Class, Material Grade, and Heat Number) for total material traceability.

MATERIAL

MATERIAL GROUP	I.T.E. DESIGNATION	ASTM	UNS	AVAILABILITY ON STOCK
Stainless Steel	316/316L	A182 F316/F316L /	S31600 / S31603	YES
	6Mo	A182 F44 / A240	N08367 / S31254	ON REQUEST
Duplex & Super Duplex	Duplex	A182 F51 / A240	S31803 / S32205	ON REQUEST
	Superduplex	A182 F55 / A240	S32750	ON REQUEST
Carbon Steel	LF2	A350 LF2	K03011	ON REQUEST
	A105	A105	K03504	ON REQUEST
Alloy	Alloy 400	B564 N04400 /	N04400	ON REQUEST
	Alloy C276	B564 N10276 /	N10276	ON REQUEST
	Alloy 625	B564 N06625 /	N06625	ON REQUEST
	Alloy 825	B564 N08825 /	N08825	ON REQUEST
Titanium	Ti Gr.2	B381 Gr.F2 / B265	R50400	ON REQUEST



FEATURES

RATING & FINISHES

PRESSURE RATING	NOMINAL SIZE (DN / NPS)	FACING TYPES	SURFACE FINISH (Ra / AARH)
Class 150	NPS 1/2" - 24" (DN 15 - 600)	RF (Raised Face) / FF (Flat Face)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish
Class 300	NPS 1/2" - 24" (DN 15 - 600)	RF (Raised Face) / RTJ (Ring Joint)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish
Class 600	NPS 1/2" - 24" (DN 15 - 600)	RF (Raised Face) / RTJ (Ring Joint)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish / < 1.6 µm for RTJ
Class 900	NPS 1/2" - 24" (DN 15 - 600)	RF (Raised Face) / RTJ (Ring Joint)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish / < 1.6 µm for RTJ
Class 1500	NPS 1/2" - 12" (DN 15 - 300)	RF (Raised Face) / RTJ (Ring Joint)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish / < 1.6 µm for RTJ
Class 2500	NPS 1/2" - 12" (DN 15 - 300)	RF (Raised Face) / RTJ (Ring Joint)	3.2 - 6.3 µm (125 - 250 AARH) Spiral Serrated (Phonographic) finish / < 1.6 µm for RTJ

NOTE

Overall dimensions and facing details comply with ASME B16.48 and are designed for installation between mating flanges according to ASME B16.5 (up to NPS 24") and ASME B16.47 Series A or B (for larger sizes, if applicable).

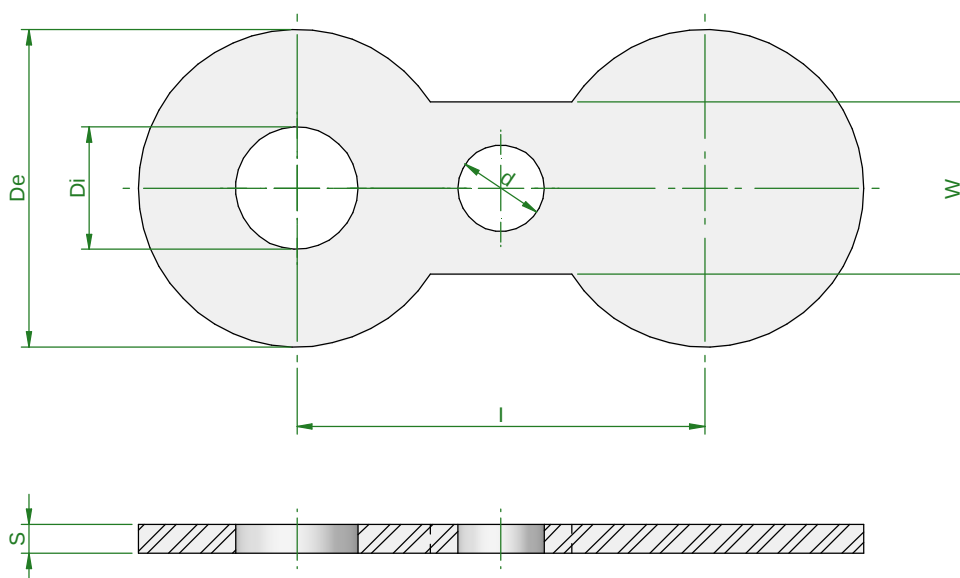
All products are supplied with Material Test Certificates (MTC) type 3.1 in accordance with EN 10204, ensuring full traceability from the original heat number. Supplementary testings (e.g., NDT, Ultrasonic, Low-Temperature Impact, NACE MR0175/ISO 15156 corrosion tests) are available upon request.

Carbon steel items are supplied as standard with rust-preventative protection (e.g., light oil, black primer paint, or galvanizing) unless otherwise specified. Machined gasket surfaces are protected with grease or dedicated covers.



SPETACLE BLINDS

Spectacle Blinds (also known as Figure-8 blinds or reversible discs) are safety piping components consisting of one solid blind disc and one open-bore spacer ring, connected by a solid metal web. Engineered in strict compliance with the ASME B16.48 standard, these devices ensure a positive, safe, and long-term physical isolation of piping sections or process lines during maintenance, shutdowns, or system testing.



CLASS 150 Lbs							
NPS	De	Di	S	W	L	d	CODE
1/2"	44,5	15,8	3	38	60	16	DR-8-01RF9-S
3/4"	53,8	20,8	3	38	70	16	DR-12-01RF9-S
1"	63,3	26,67	3	38	79,2	16	DR-16-01RF9-S
1.1/2"	82,5	48,3	6	38	98,55	16	DR-24-01RF9-S
2"	101,6	60,5	6	51	120,65	19	DR-32-01RF9-S
3"	133,3	88,9	6	64	152,4	19	DR-48-01RF9-S
4"	171,45	114,3	10	64	190,5	19	DR-64-01RF9-S
6"	219	168	12	76	240	22,2	DR-96-01RF9-S
8"	276	219	12	76	300	22,2	DR-128-01RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



SPETACLE BLINDS

CLASS 300 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	50,8	15,8	6	38	66,55	16	DR-8-03RF9-S
3/4"	63,5	20,8	6	38	82,55	19	DR-12-03RF9-S
1"	69,85	26,57	6	38	88,9	19	DR-16-03RF9-S
1.1/2"	92	48,3	6	38	114,3	22,2	DR-24-03RF9-S
2"	107,95	60,5	6	51	127	19	DR-32-03RF9-S
3"	146	88,9	6	64	168	19	DR-48-03RF9-S
4"	190,5	114,3	10	64	200,15	19	DR-64-03RF9-S
6"	264	168	16	76	270	22,2	DR-96-03RF9-S
8"	318	219	22	76	330	25,4	DR-128-03RF9-S

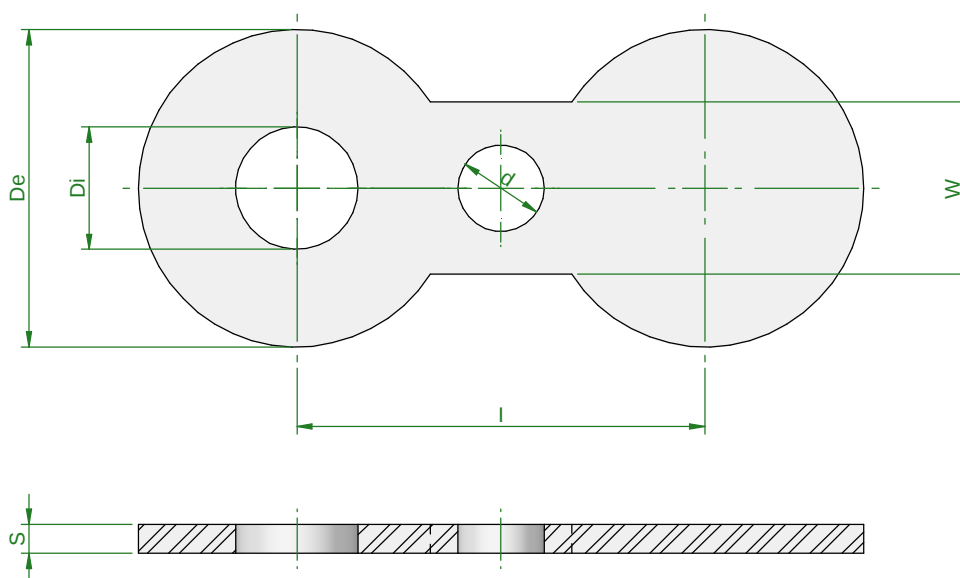
CLASS 600 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	50,8	15,8	6	38	66,55	16	DR-8-06RF9-S
3/4"	63,5	20,8	6	38	82,55	19	DR-12-06RF9-S
1"	69,85	26,67	6	57	88,9	19	DR-16-06RF9-S
1.1/2"	92	42,7	10	67	114,3	22,2	DR-24-06RF9-S
2"	107,95	54,86	10	57	127	19	DR-32-06RF9-S
3"	146	82,8	10	67	168	25,4	DR-48-06RF9-S
4"	190,5	108,2	16	76	215,9	19	DR-64-06RF9-S
6"	264	162	22	86	290	28,6	DR-96-06RF9-S
8"	318	212	28	95	350	31,7	DR-128-06RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



SPETACLE BLINDS

Spectacle Blinds (also known as Figure-8 blinds or reversible discs) are safety piping components consisting of one solid blind disc and one open-bore spacer ring, connected by a solid metal web. Engineered in strict compliance with the ASME B16.48 standard, these devices ensure a positive, safe, and long-term physical isolation of piping sections or process lines during maintenance, shutdowns, or system testing.



CLASS 900 Lbs							
NPS	D_e	D_i	S	W	L	d	CODE
1/2"	61	16	6	38	80	22,2	DR-8-09RF9-S
3/4"	67	21	10	41	90	22,2	DR-12-09RF9-S
1"	76	27	10	57	100	25,4	DR-16-09RF9-S
1.1/2"	95	41	12	67	125	28,6	DR-24-09RF9-S
2"	140	53	12	57	165	25,4	DR-32-09RF9-S
3"	165	83	16	67	190	25,4	DR-48-09RF9-S
4"	206	108	19	76	235	31,7	DR-64-09RF9-S
6"	286	162	25	86	320	31,7	DR-96-09RF9-S
8"	356	212	35	95	395	38,1	DR-128-09RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.

SPETACLE BLINDS

CLASS 1500 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	61	16	6	38	80	22,2	DR-8-15RF9-S
3/4"	67	21	10	41	90	22,2	DR-12-15RF9-S
1"	76	27	10	64	100	25,4	DR-16-15RF9-S
1.1/2"	95	41	12	70	125	28,6	DR-24-15RF9-S
2"	140	53	12	70	165	25,4	DR-32-15RF9-S
3"	172	78	20	76	205	25,4	DR-48-15RF9-S
4"	206	102	22	89	240	31,7	DR-64-15RF9-S
6"	279	154	35	89	320	31,7	DR-96-15RF9-S
8"	349	203	41	102	395	38,1	DR-128-15RF9-S

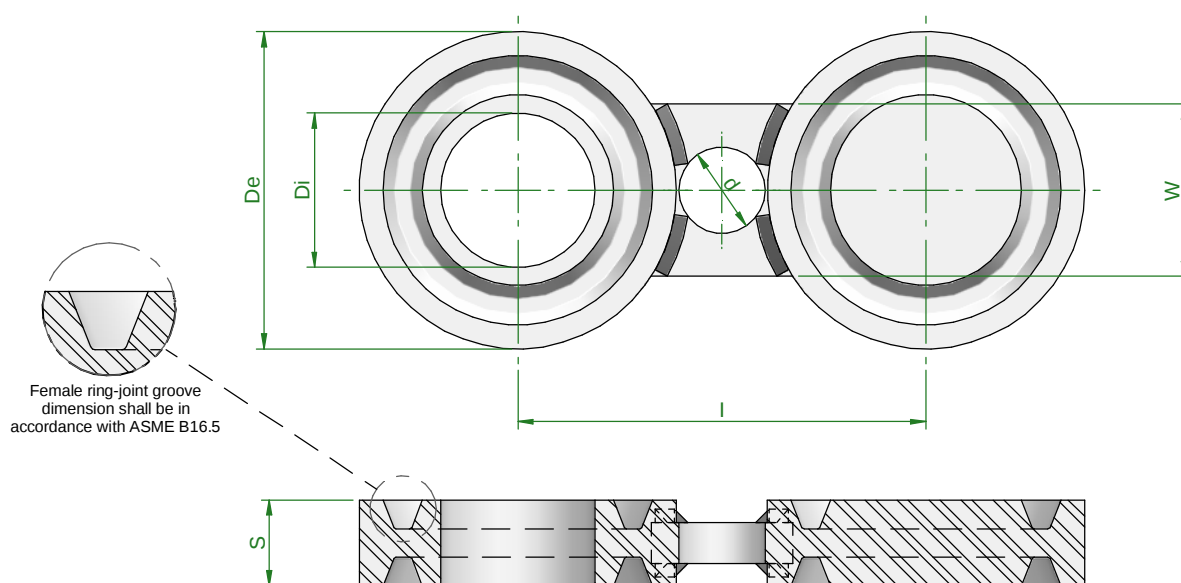
CLASS 2500 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	67	16	10	38	90	22,2	DR-8-25RF9-S
3/4"	73	21	10	41	95	22,2	DR-12-25RF9-S
1"	83	27	10	64	110	25,4	DR-16-25RF9-S
1.1/2"	114	41	16	70	145	31,7	DR-24-25RF9-S
2"	143	53	16	70	170	28,6	DR-32-25RF9-S
3"	194	78	22	76	230	34,9	DR-48-25RF9-S
4"	232	102	28	89	275	41,3	DR-64-25RF9-S
6"	314	154	41	89	370	54	DR-96-25RF9-S
8"	384	198	54	102	440	54	DR-128-25RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



SPETACLE BLINDS

Spectacle Blinds (also known as Figure-8 blinds or reversible discs) are safety piping components consisting of one solid blind disc and one open-bore spacer ring, connected by a solid metal web. Engineered in strict compliance with the ASME B16.48 standard, these devices ensure a positive, safe, and long-term physical isolation of piping sections or process lines during maintenance, shutdowns, or system testing.



CLASS 150 Lbs							
NPS	D_e	D_i	S	W	L	d	CODE
1"	64	34	19,1	51	80	16	DR-16-01RJ-S
1.1/2"	83	48	19,1	51	100	16	DR-24-01RJ-S
2"	102	61	19,1	57	120	19	DR-32-01RJ-S
3"	133	89	22,4	57	150	19	DR-48-01RJ-S
4"	172	114	22,4	64	190	19	DR-64-01RJ-S
6"	219	168	25,4	83	240	22,2	DR-96-01RJ-S
8"	276	219	28,6	95	298,5	22,2	DR-128-01RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



SPETACLE BLINDS

CLASS 300 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	51	21	15,7	38	65	16	DR-8-03RJ-S
3/4"	64	27	19,1	41	80	19	DR-12-03RJ-S
1"	70	34	19,1	64	90	19	DR-16-03RJ-S
1.1/2"	90	48	22,4	70	115	22,2	DR-24-03RJ-S
2"	108	61	25,4	70	125	19	DR-32-03RJ-S
3"	146	89	28,4	76	170	22,2	DR-48-03RJ-S
4"	175	114	31,8	89	200	22,2	DR-64-03RJ-S
6"	241	168	35,1	89	270	22,2	DR-96-03RJ-S
8"	302	219	41,1	102	330	25,4	DR-128-03RJ-S

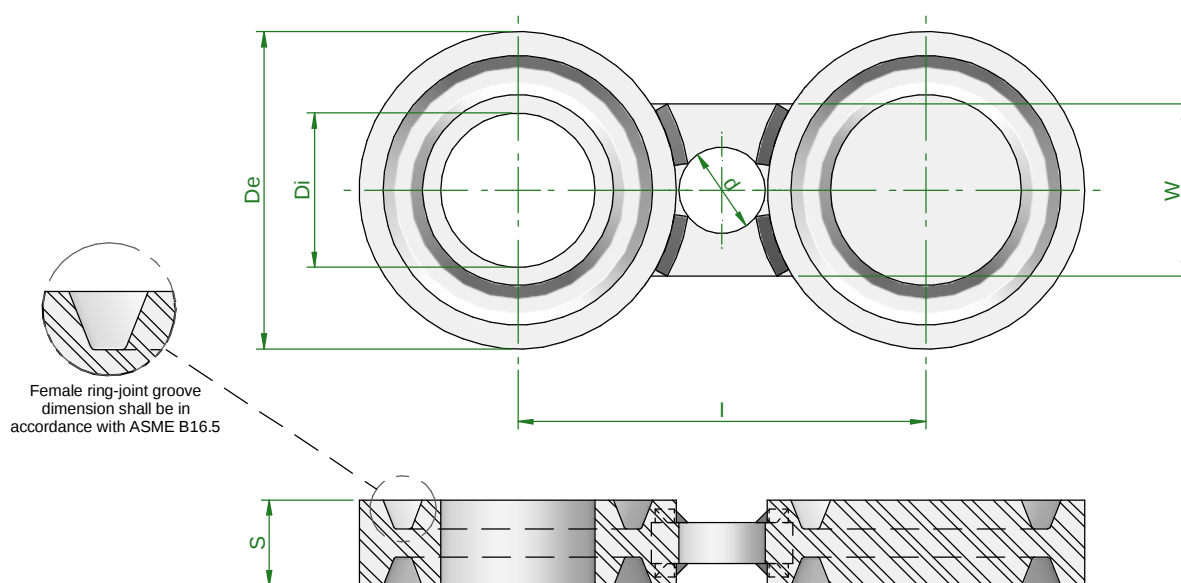
CLASS 600 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	51	21	19,1	38	65	16	DR-8-06RJ-S
3/4"	64	27	22,4	45	80	19	DR-12-06RJ-S
1"	70	34	22,4	51	90	19	DR-16-06RJ-S
1.1/2"	90	48	22,4	57	115	22,2	DR-24-06RJ-S
2"	108	61	28,4	57	125	19	DR-32-06RJ-S
3"	146	89	31,8	57	170	22,2	DR-48-06RJ-S
4"	175	114	35,1	70	200	22,2	DR-64-06RJ-S
6"	241	168	44,5	83	270	22,2	DR-96-06RJ-S
8"	302	219	50,8	95	330	25,4	DR-128-06RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



SPETACLE BLINDS

Spectacle Blinds (also known as Figure-8 blinds or reversible discs) are safety piping components consisting of one solid blind disc and one open-bore spacer ring, connected by a solid metal web. Engineered in strict compliance with the ASME B16.48 standard, these devices ensure a positive, safe, and long-term physical isolation of piping sections or process lines during maintenance, shutdowns, or system testing.



CLASS 900 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	61	21	22,4	38	80	22,4	DR-8-09RJ-S
3/4"	67	27	22,4	45	90	22,2	DR-12-09RJ-S
1"	71	34	22,4	51	100	25,4	DR-16-09RJ-S
1.1/2"	92	48	25,4	64	125	28,6	DR-24-09RJ-S
2"	124	61	31,8	51	165	25,4	DR-32-09RJ-S
3"	155	89	35,1	67	190	25,4	DR-48-09RJ-S
4"	181	114	41,1	73	235	31,7	DR-64-09RJ-S
6"	241	168	47,8	73	315	31,7	DR-96-09RJ-S
8"	308	219	57,2	80	395	38,1	DR-128-09RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.

SPETACLE BLINDS

CLASS 1500 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	61	21	22,4	38	80	22,4	DR-8-15RJ-S
3/4"	67	27	22,4	41	90	22,2	DR-12-15RJ-S
1"	71	34	22,4	64	100	25,4	DR-16-15RJ-S
1.1/2"	92	48	25,4	70	125	28,6	DR-24-15RJ-S
2"	124	61	31,8	70	165	25,4	DR-32-15RJ-S
3"	168	89	44,5	76	205	31,7	DR-48-15RJ-S
4"	194	114	47,8	89	240	34,9	DR-64-15RJ-S
6"	248	168	60,5	89	315	38,1	DR-96-15RJ-S
8"	318	219	73,2	102	395	44,4	DR-128-15RJ-S

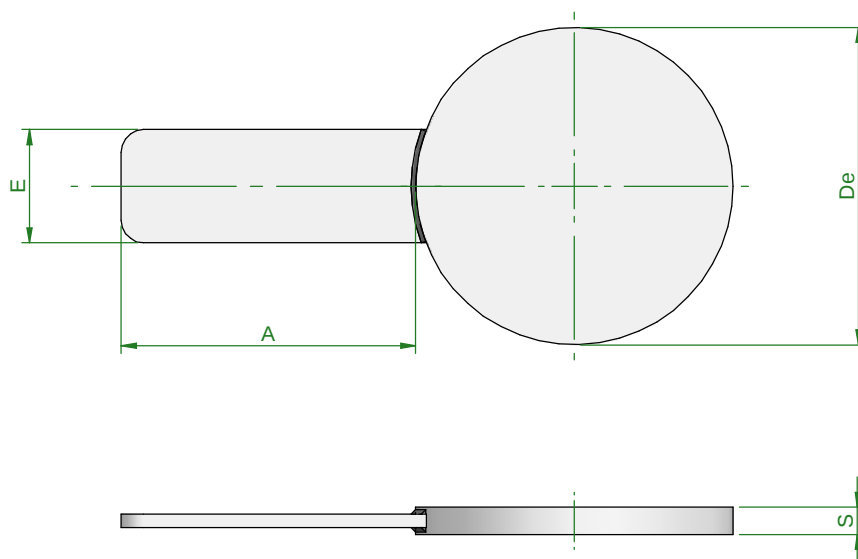
CLASS 2500 Lbs							
NPS	De	Di	S	W	I	d	CODE
1/2"	65	21	25,4	38	90	22,2	DR-8-25RJ-S
3/4"	73	27	28,4	45	95	22,2	DR-12-25RJ-S
1"	83	34	28,4	51	110	25,4	DR-16-25RJ-S
1.1/2"	114	48	38,1	57	145	31,7	DR-24-25RJ-S
2"	133	61	41,1	57	170	28,6	DR-32-25RJ-S
3"	168	89	50,8	57	230	34,9	DR-48-25RJ-S
4"	203	114	63,5	70	270	41,3	DR-64-25RJ-S
6"	279	168	82,6	83	370	54	DR-96-25RJ-S
8"	340	219	98,6	95	440	54	DR-128-25RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE BLANK

Paddle Blanks are single blind discs engineered to provide positive and reliable physical isolation of piping sections or equipment during maintenance, inspection, or system testing. Compared to traditional Figure-8 spectacle blinds, Paddle Blanks are the preferred solution for large-diameter pipelines or where space constraints and weight limits make handling a reversible disc impractical.



CLASS 150 Lbs						CLASS 300 Lbs					
NPS	De	S	A	E	CODE	NPS	De	S	A	E	CODE
1/2"	44,5	3	100	25	PB-8-01RF9-S	1/2"	50,8	6	100	25	PB-8-03RF9-S
3/4"	53,8	3	100	25	PB-12-01RF9-S	3/4"	63,5	6	100	25	PB-12-03RF9-S
1"	63,3	3	100	25	PB-16-01RF9-S	1"	69,85	6	100	25	PB-16-03RF9-S
1.1/2"	82,55	6	100	25	PB-24-01RF9-S	1.1/2"	92	6	100	25	PB-24-03RF9-S
2"	101,6	6	100	25	PB-32-01RF9-S	2"	101,6	6	100	25	PB-32-03RF9-S
3"	133,35	6	135	35	PB-48-01RF9-S	3"	133,35	6	135	35	PB-48-03RF9-S
4"	171,45	10	135	35	PB-64-01RF9-S	4"	171,45	10	135	35	PB-64-03RF9-S
6"	219	12	135	35	PB-96-01RF9-S	6"	248	16	135	35	PB-96-03RF9-S
8"	276	12	135	35	PB-128-01RF9-S	8"	305	22	135	35	PB-128-03RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE BLANK

CLASS 600Lbs					
NPS	De	S	A	E	CODE
1/2"	50,8	6	100	25	PB-8-06RF9-S
3/4"	63,5	6	100	25	PB-12-06RF9-S
1"	69,85	6	100	25	PB-16-06RF9-S
1.1/2"	92	10	100	25	PB-24-06RF9-S
2"	107,95	10	100	25	PB-32-06RF9-S
3"	146	10	135	35	PB-48-06RF9-S
4"	190,5	16	150	35	PB-64-06RF9-S
6"	264	22	150	35	PB-96-06RF9-S
8"	318	28	150	35	PB-128-06RF9-S

CLASS 900 Lbs					
NPS	De	S	A	E	CODE
1/2"	61	6	110	25	PB-8-09RF9-S
3/4"	67	10	110	25	PB-12-09RF9-S
1"	76	10	110	25	PB-16-09RF9-S
1.1/2"	95	12	110	25	PB-24-09RF9-S
2"	140	12	110	25	PB-32-09RF9-S
3"	165	16	150	35	PB-48-09RF9-S
4"	206	19	150	35	PB-64-09RF9-S
6"	286	25	150	35	PB-96-09RF9-S
8"	356	35	160	35	PB-128-09RF9-S

CLASS 1500 Lbs					
NPS	De	S	A	E	CODE
1/2"	61	6	110	25	PB-8-15RF9-S
3/4"	67	10	110	25	PB-12-15RF9-S
1"	76	10	110	25	PB-16-15RF9-S
1.1/2"	95	12	110	25	PB-24-15RF9-S
2"	140	12	110	25	PB-32-15RF9-S
3"	172	20	150	35	PB-48-15RF9-S
4"	206	22	160	35	PB-64-15RF9-S
6"	279	35	160	35	PB-96-15RF9-S
8"	349	41	170	35	PB-128-15RF9-S

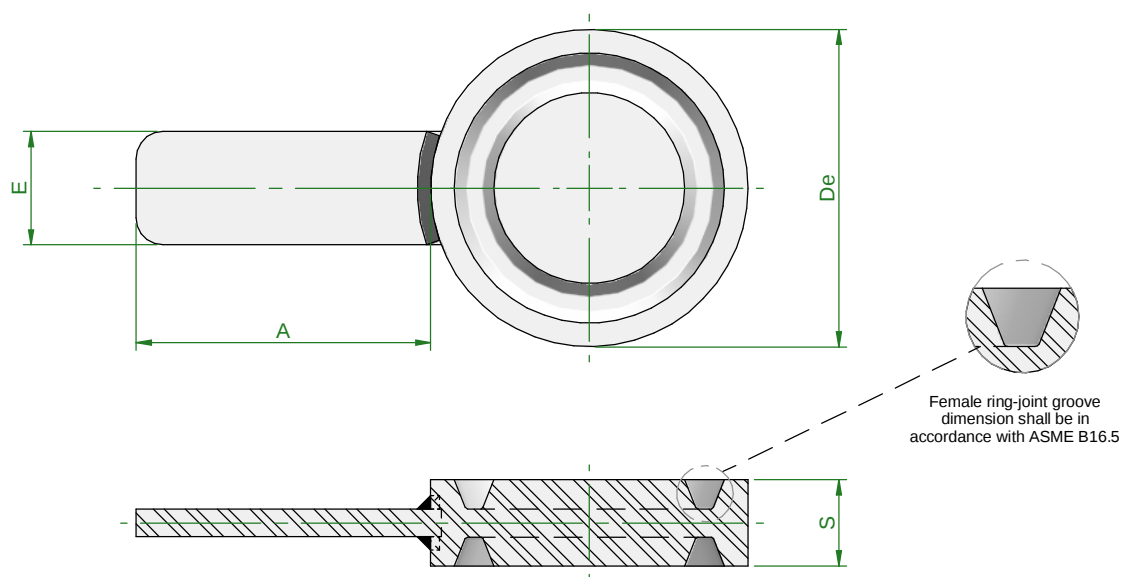
CLASS 2500 Lbs					
NPS	De	S	A	E	CODE
1/2"	67	10	110	25	PB-8-25RF9-S
3/4"	73	10	110	25	PB-12-25RF9-S
1"	83	10	110	25	PB-16-25RF9-S
1.1/2"	114	16	120	25	PB-24-25RF9-S
2"	143	16	12	25	PB-32-25RF9-S
3"	194	22	160	35	PB-48-25RF9-S
4"	232	28	160	35	PB-64-25RF9-S
6"	314	41	190	35	PB-96-25RF9-S
8"	384	54	190	35	PB-128-25RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE BLANK

Paddle Blanks are single blind discs engineered to provide positive and reliable physical isolation of piping sections or equipment during maintenance, inspection, or system testing. Compared to traditional Figure-8 spectacle blinds, Paddle Blanks are the preferred solution for large-diameter pipelines or where space constraints and weight limits make handling a reversible disc impractical.



CLASS 150 Lbs						CLASS 300 Lbs					
NPS	De	S	A	E	CODE	NPS	De	S	A	E	CODE
1/2"						1/2"	51	15,7	100	25	PB-8-03RJ-S
3/4"						3/4"	64	19,1	100	25	PB-12-03RJ-S
1"	64	19,1	100	25	PB-16-01RJ-S	1"	70	19,1	100	25	PB-16-03RJ-S
1.1/2"	48	19,1	100	25	PB-24-01RJ-S	1.1/2"	90	22,4	100	25	PB-24-03RJ-S
2"	102	19,1	100	25	PB-32-01RJ-S	2"	108	25,4	100	25	PB-32-03RJ-S
3"	133	22	135	35	PB-48-01RJ-S	3"	146	28,4	135	35	PB-48-03RJ-S
4"	172	22,4	135	35	PB-64-01RJ-S	4"	175	31,8	135	35	PB-64-03RJ-S
6"	219	25,4	135	35	PB-96-01RJ-S	6"	241	35,1	135	35	PB-96-03RJ-S
8"	273	28,4	135	35	PB-128-01RJ-S	8"	302	41,1	135	35	PB-128-03RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.

PADDLE BLANK

CLASS 600Lbs					
NPS	De	S	A	E	CODE
1/2"	51	19,1	100	25	PB-8-06RJ-S
3/4"	64	22,4	100	25	PB-12-06RJ-S
1"	70	22,4	100	25	PB-16-06RJ-S
1.1/2"	90	22,4	100	25	PB-24-06RJ-S
2"	108	28,4	100	25	PB-32-06RJ-S
3"	146	31,8	135	35	PB-48-06RJ-S
4"	175	35,1	150	35	PB-64-06RJ-S
6"	241	44,5	150	35	PB-96-06RJ-S
8"	302	50,8	150	35	PB-128-06RJ-S

CLASS 900 Lbs					
NPS	De	S	A	E	CODE
1/2"	61	22,4	110	25	PB-8-09RJ-S
3/4"	67	22,4	110	25	PB-12-09RJ-S
1"	71	22,4	110	25	PB-16-09RJ-S
1.1/2"	92	25,4	110	25	PB-24-09RJ-S
2"	124	31,8	110	25	PB-32-09RJ-S
3"	155	35,1	150	35	PB-48-09RJ-S
4"	181	41,1	150	35	PB-64-09RJ-S
6"	241	47,8	150	35	PB-96-09RJ-S
8"	308	57,2	160	35	PB-128-09RJ-S

CLASS 1500 Lbs					
NPS	De	S	A	E	CODE
1/2"	61	22,4	110	25	PB-8-15RJ-S
3/4"	67	22,4	110	25	PB-12-15RJ-S
1"	71	22,4	110	25	PB-16-15RJ-S
1.1/2"	92	25,4	110	25	PB-24-15RJ-S
2"	124	31,8	110	25	PB-32-15RJ-S
3"	168	44,5	150	35	PB-48-15RJ-S
4"	194	47,8	160	35	PB-64-15RJ-S
6"	248	60,5	160	35	PB-96-15RJ-S
8"	318	73,2	170	35	PB-128-15RJ-S

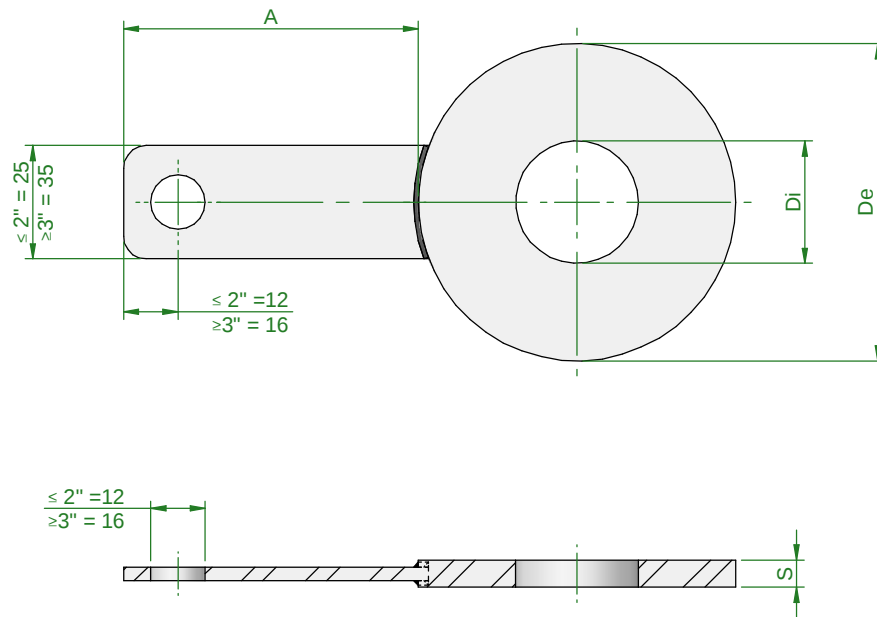
CLASS 2500 Lbs					
NPS	De	S	A	E	CODE
1/2"	65	25,4	110	25	PB-8-25RJ-S
3/4"	73	28,4	110	25	PB-12-25RJ-S
1"	83	28,4	110	25	PB-16-25RJ-S
1.1/2"	114	38,1	120	25	PB-24-25RJ-S
2"	133	41,1	120	25	PB-32-25RJ-S
3"	168	50,8	160	35	PB-48-25RJ-S
4"	203	63,5	160	35	PB-64-25RJ-S
6"	279	82,6	190	35	PB-96-25RJ-S
8"	340	98,6	190	35	PB-128-25RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE SPACER

Paddle Spacers are single open-bore discs designed to be installed within piping systems during normal plant operation and fluid flow. Their primary function is to temporarily or permanently replace Paddle Blanks when the line is reopened, exactly compensating for the geometric gap between the mating flanges to prevent mechanical stress or misalignment in the piping network.



CLASS 150 Lbs						CLASS 300 Lbs					
NPS	De	Di	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"	44,5	15,8	3	100	PS-8-01RF9-S	1/2"	50,8	15,8	6	100	PS-8-03RF9-S
3/4"	53,8	20,8	3	100	PS-12-01RF9-S	3/4"	63,5	20,8	6	100	PS-12-03RF9-S
1"	63,3	26,67	3	100	PS-16-01RF9-S	1"	69,85	26,57	6	100	PS-16-03RF9-S
1.1/2"	82,55	48,3	6	100	PS-24-01RF9-S	1.1/2"	92	48,3	6	100	PS-24-03RF9-S
2"	101,6	60,5	6	100	PS-32-01RF9-S	2"	101,6	60,5	6	100	PS-32-03RF9-S
3"	133,35	88,9	6	135	PS-48-01RF9-S	3"	133,35	88,9	6	135	PS-48-03RF9-S
4"	171,45	114,3	10	135	PS-64-01RF9-S	4"	171,45	114,3	10	135	PS-64-03RF9-S
6"	219	168	12	135	PS-96-01RF9-S	6"	248	168	16	135	PS-96-03RF9-S
8"	276	219	12	135	PS-128-01RF9-S	8"	305	219	22	135	PS-128-03RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE SPACER

CLASS 600Lbs						CLASS 900 Lbs					
NPS	De	Di	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"	50,8	15,8	6	100	PS-8-06RF9-S	1/2"	61	61	6	110	PS-8-09RF9-S
3/4"	63,5	20,8	6	100	PS-12-06RF9-S	3/4"	67	67	10	110	PS-12-09RF9-S
1"	69,85	26,67	6	100	PS-16-06RF9-S	1"	76	76	10	110	PS-16-09RF9-S
1.1/2"	92	42,7	10	100	PS-24-06RF9-S	1.1/2"	95	95	12	110	PS-24-09RF9-S
2"	107,95	54,86	10	100	PS-32-06RF9-S	2"	140	140	12	110	PS-32-09RF9-S
3"	146	82,8	10	135	PS-48-06RF9-S	3"	165	165	16	150	PS-48-09RF9-S
4"	190,5	108,2	16	150	PS-64-06RF9-S	4"	208	208	19	150	PS-64-09RF9-S
6"	264	162	22	150	PS-96-06RF9-S	6"	286	286	25	150	PS-96-09RF9-S
8"	318	212	28	150	PS-128-06RF9-S	8"	356	356	35	160	PS-128-09RF9-S

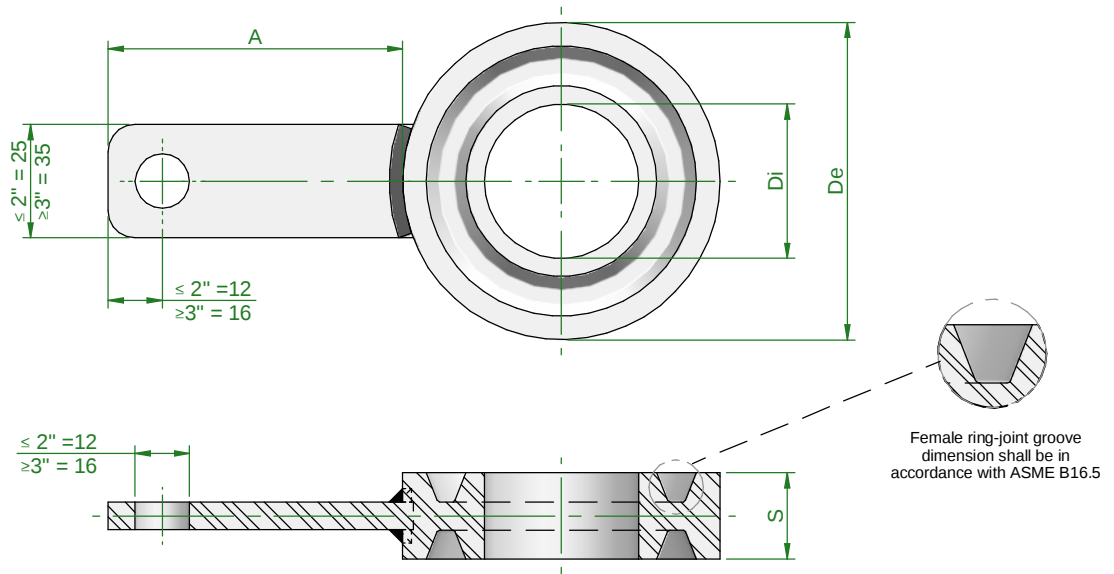
CLASS 1500 Lbs						CLASS 2500 Lbs					
NPS	De	DI	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"	61	16	6	110	PS-8-15RF9-S	1/2"	67	16	10	110	PS-8-25RF9-S
3/4"	67	21	10	110	PS-12-15RF9-S	3/4"	73	21	10	110	PS-12-25RF9-S
1"	76	27	10	110	PS-16-15RF9-S	1"	83	27	10	110	PS-16-25RF9-S
1.1/2"	95	41	12	110	PS-24-15RF9-S	1.1/2"	114	41	16	120	PS-24-25RF9-S
2"	140	53	12	110	PS-32-15RF9-S	2"	143	53	16	12	PS-32-25RF9-S
3"	172	78	20	150	PS-48-15RF9-S	3"	194	78	22	160	PS-48-25RF9-S
4"	206	102	22	160	PS-64-15RF9-S	4"	232	102	28	160	PS-64-25RF9-S
6"	279	154	35	160	PS-96-15RF9-S	6"	314	154	41	190	PS-96-25RF9-S
8"	349	203	41	170	PS-128-15RF9-S	8"	384	198	54	190	PS-128-25RF9-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE SPACER

Paddle Spacers are single open-bore discs designed to be installed within piping systems during normal plant operation and fluid flow. Their primary function is to temporarily or permanently replace Paddle Blanks when the line is reopened, exactly compensating for the geometric gap between the mating flanges to prevent mechanical stress or misalignment in the piping network.



CLASS 150 Lbs						CLASS 300 Lbs					
NPS	De	Di	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"						1/2"	51	21	15,7	100	PS-8-03RJ-S
3/4"						3/4"	64	27	19,1	100	PS-12-03RJ-S
1"	64	34	19,1	100	PS-16-01RJ-S	1"	70	34	19,1	100	PS-16-03RJ-S
1.1/2"	48	83	19,1	100	PS-24-01RJ-S	1.1/2"	90	48	22,4	100	PS-24-03RJ-S
2"	102	61	19,1	100	PS-32-01RJ-S	2"	108	61	25,4	100	PS-32-03RJ-S
3"	133	89	22	135	PS-48-01RJ-S	3"	146	89	28,4	135	PS-48-03RJ-S
4"	172	114	22,4	135	PS-64-01RJ-S	4"	175	114	31,8	135	PS-64-03RJ-S
6"	219	168	25,4	135	PS-96-01RJ-S	6"	241	168	35,1	135	PS-96-03RJ-S
8"	273	219	28,4	135	PS-128-01RJ-S	8"	302	219	41,1	135	PS-128-03RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



PADDLE SPACER

CLASS 600Lbs						CLASS 900 Lbs					
NPS	De	Di	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"	51	21	19,1	100	PS-8-06RJ-S	1/2"	61	21	22,4	110	PS-8-09RJ-S
3/4"	64	27	22,4	100	PS-12-06RJ-S	3/4"	67	27	22,4	110	PS-12-09RJ-S
1"	70	34	22,4	100	PS-16-06RJ-S	1"	71	34	22,4	110	PS-16-09RJ-S
1.1/2"	90	48	22,4	100	PS-24-06RJ-S	1.1/2"	92	48	25,4	110	PS-24-09RJ-S
2"	108	61	28,4	100	PS-32-06RJ-S	2"	124	61	31,8	110	PS-32-09RJ-S
3"	146	89	31,8	135	PS-48-06RJ-S	3"	155	89	35,1	150	PS-48-09RJ-S
4"	175	114	35,1	150	PS-64-06RJ-S	4"	181	114	41,1	150	PS-64-09RJ-S
6"	241	168	44,5	150	PS-96-06RJ-S	6"	241	168	47,8	150	PS-96-09RJ-S
8"	302	219	50,8	150	PS-128-06RJ-S	8"	308	219	57,2	160	PS-128-09RJ-S

CLASS 1500 Lbs						CLASS 2500 Lbs					
NPS	De	Di	S	A	CODE	NPS	De	Di	S	A	CODE
1/2"	61	21	22,4	110	PS-8-15RJ-S	1/2"	65	21	25,4	110	PS-8-25RJ-S
3/4"	67	27	22,4	110	PS-12-15RJ-S	3/4"	73	27	28,4	110	PS-12-25RJ-S
1"	71	34	22,4	110	PS-16-15RJ-S	1"	83	34	28,4	110	PS-16-25RJ-S
1.1/2"	92	48	25,4	110	PS-24-15RJ-S	1.1/2"	114	48	38,1	120	PS-24-25RJ-S
2"	124	61	31,8	110	PS-32-15RJ-S	2"	133	61	41,1	120	PS-32-25RJ-S
3"	168	89	44,5	150	PS-48-15RJ-S	3"	168	89	50,8	160	PS-48-25RJ-S
4"	194	114	47,8	160	PS-64-15RJ-S	4"	203	114	63,5	160	PS-64-25RJ-S
6"	248	168	60,5	160	PS-96-15RJ-S	6"	279	168	82,6	190	PS-96-25RJ-S
8"	318	219	73,2	170	PS-128-15RJ-S	8"	340	219	98,6	190	PS-128-25RJ-S

Note: Disc design and dimension are based on optimized manufacturer standards and may deviate from the minimum values listed in the standard. Please verify suitability for your specific design pressure when ordering.



LINE BLANKS - HOW TO ORDER

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