



Spectacle blinds, spades and spacers

When do we use a spectacle blind (or a combination of a spade / spacer)?

Spectacle blinds are usually used in piping systems where a particular section needs to be periodically separated or isolated from the rest for either maintenance or safety reasons.

Spectacle blinds, spades and spacers

Den Holder spectacle blinds, spades and spacers are available in any size, class, finish and material quality.

Due to the nature of our engineering and our further production programme we manufacture each spectacle blind with utmost care, being convinced that it is just as important as any other item in a plant. Our complete organization and production is fully governed by a Quality Assurance Programme to ISO 9001 that guarantees you a good quality.

The execution shown below, as well as the dimensions, are our standard. As the thickness shown below are calculated in accordance with ANS B 31.3, for full rating as per ASTM/ASME B 16.5, including 1 mm corrosion allowance on both sides, our standard will suit you as well.

Spectacle blinds are fabricated from plate (or bar) material grades as shown on the righthand tabel. Mentioned materials are suitable as they fully cover the mechanical and chemical properties of common ASTM materials. All materials as a standard are fully covered by material certificates as per EN10204-3.1

We also can supply with inspection by an independent authority.

As a standard all items are stamped with size, class, material quality, heat number and our manufacturer's symbol. When required, your stock or code number can be added, eventually together with a colour coding. The spectacles are stamped on the blind portion and the blinds and spacers on the grips.

Large size spectacles in corrosive resistant materials such as Monel, Hastelloy and others are very expensive. We are in a position to manufacture these items from carbon steel covering all medium contacted parts with a lining of a suitable quality. Offcourse all welding will be done according to official procedures and by qualified welders.

Spectacle blinds, spades and spacers are manufactured in accordance with our clients' requirements, using any specified material and supplied with the corresponding material certificate. The spectacle blinds, spades and spacers are machined with a smooth or stock finish gasket contact surface. RTJ male and female is also possible. Sizes over 8" are supplied with lifting lugs.

ORDERING DATA

DESIGN CODES • ASME, API, ANSI, BS, DIN or customers standard

GASKET FACING • RF • RTJ female • RTJ male • Large female/male

MATERIALS • SS304/316(L)/316Ti/321/ Monel /Duplex / Super Duplex / Hastelloy C22, C276
• ASTM A285-C • ASTM A516-60/65/70 • TstE 335 / 355 / 19Mn5 • Carbon steel cladde with alloys

ASME class 150/PN20

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	600
W	0,2	0,25	0,35	0,50	0,90	2,0	3,6	7,2	13,9	23	39	50	68	83	107	178

ASME class 300/PN50

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	600
W	0,20	0,35	0,40	0,90	1,4	3,3	5,6	13,6	25	38	61	86	116	153	205	336

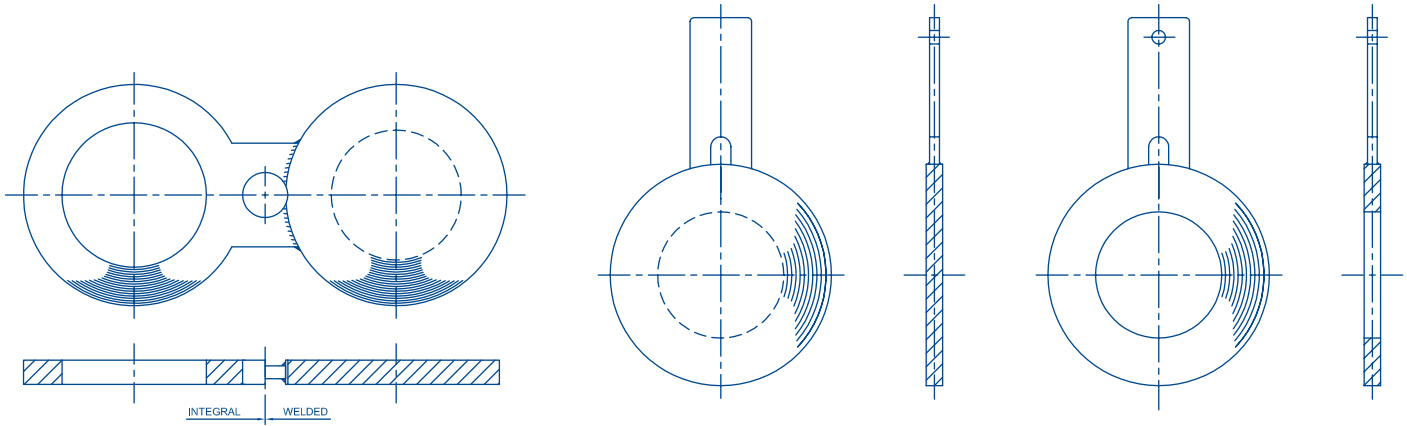
ASME class 600/PN100

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	600
W	0,20	0,40	0,55	1,2	1,9	4,5	9,1	21	38	69	99	122	184	205	281	435

ASME class 900/PN150

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	600
W	0,35	0,55	0,80	1,7	4,6	6,5	11,9	30	58	101	149	171	229	292	382	655

SPECTACLE BLINDS RF



Material equivalents			Mechanical and Chemical properties as per DIN											
ASTM	DIN	Werkst .no	Tensile N/mm ²	Yield min N/mm ²	%C	%Si	%Mn	%P max.	%S max.	%Cr	%Al	%Ni	%Mo	others
A240 Gr. A	17155 15Mo3	1.5415	440-530	270	0,12-0,20	0,10-0,35	0,40-0,90	0,035	0,030	<0,25	-	-	0,25-0,35	
A283 Gr. C	17155 HLL	1.0425	410-500	250	<0,20	<0,35	0,50-1,30	0,035	0,030	-	>0,02	-	-	
A285 Gr. C	17155 HLL	1.0425	410-500	250	<0,20	<0,35	0,50-1,30	0,035	0,030	-	>0,02	-	-	
A387 Gr. 5 CL.1	- 12CrMo 19 5	1.7362	590-740	390	<0,15	0,30-0,50	0,30-0,60	0,035	0,035	4,50-0,65	0,45-0,65	-	-	
A387 Gr. 11 CL.1	17155 13CrMo44	1.7335	440-560	300	0,08-0,18	0,10-0,35	0,40-1,00	0,035	0,030	0,70-1,10	0,40-0,60	-	-	
A387 Gr. 22 CL.1	17155 10CrMo9 10	1.7380	450-600	280	0,06-0,15	<0,50	0,40-0,70	0,035	0,030	2,00-2,50	0,90-1,10	-	-	
A515 Gr. 55	17155 HLL	1.0425	410-500	250	<0,20	<0,35	0,50-1,30	0,035	0,30	-	>0,02	-	-	
A515 Gr. 70	17155 19Mn5	1.0482	520-620	320	0,17-0,22	0,30-0,60	1,00-1,30	0,045	0,045	<0,30	-	-	-	
A516 Gr. 65	17102 T StE 355	1.0566	480-620	345	<0,18	0,10-0,50	0,90-1,60	0,030	0,025	<0,30	>0,20	-	-	>0,20 Cu <0,02 N
A240 Tp. 304	17440 X5CrNi 18 10	1.4301	500-700	195	<0,07	<1,00	<2,00	0,045	0,030	17-19	-	8,50-10,5	-	
A240 Tp. 304 L	17440 X2CrNi 19 11	1.4306	460-680	180	<0,03	<1,00	<2,00	0,045	0,030	18-20	-	10-12,50	-	
A240 Tp. 316	17440 X5CrNiMo17 12 2	1.4401	510-710	205	<0,07	<1,00	<2,00	0,045	0,030	16,5-18,5	-	10,5-13,5	2,00-2,50	
A240 Tp. 316 L	17440 X5CrNiMo17 12 2	1.4404	490-690	190	<0,03	<1,00	<2,00	0,045	0,030	16,5-18,5	-	11-14	2,00-2,50	
A240 Tp. 321	17440 X6CrNiTi 18 10	1.4541	500-730	200	<0,08	<1,00	<2,00	0,045	0,030	17-19	-	9-12	-	>> <0,8 Ti
A240 Tp. 347	17440 X6CrNiNb 18 10	1.4550	510-740	205	<0,08	<1,00	<2,00	0,045	0,030	17-19	-	9-12	-	>10 FC <1,0 Nb

ASME class 600/PN100

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
W	0,20	0,40	0,55	1,2	1,9	4,5	9,1	21	38	69	99	122	184	205	281	435

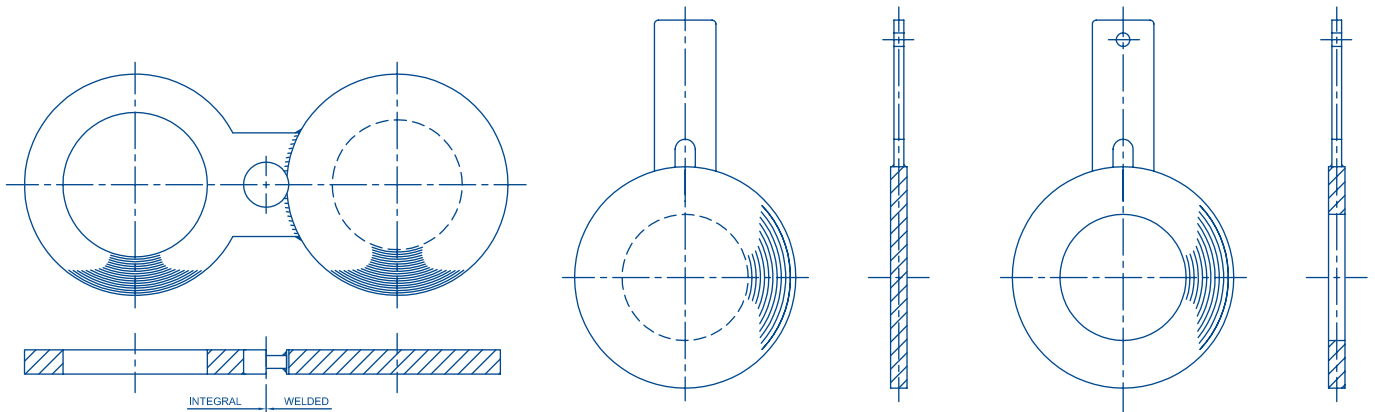
ASME class 2500/PN420

Weight (Kg)	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"					
W	0,50	0,75	1,2	2,9	5,4	14,0	25	64	1079	200	316					

SPECTACLE BLIND RF

BLIND RF

SPACER RF

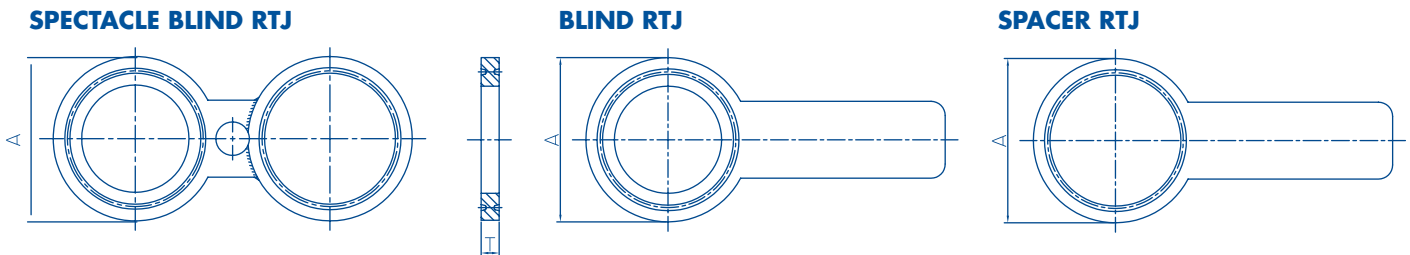


LINE SIZE		ASME class 600/PN100				ASME class 900/PN150			
inch	mm	R	A	W	T	R	A	W	T
2"	50	R23	108	4	26	R24	124	5	29
3"	80	R31	146	8	30	R31	156	9	34
4"	100	R37	175	10	34	R37	181	15	37
6"	150	R45	241	23	40	R45	241	30	45
8"	200	R49	301	40	46	R49	308	50	54
10"	250	R53	356	63	53	R53	362	75	62
12"	300	R57	413	95	61	R57	419	120	70
14"	350	R61	457	115	64	R62	487	165	80
16"	400	R65	508	155	70	R66	524	220	87
18"	450	R69	575	216	78	R70	594	320	100
20"	500	R73	635	290	96	R74	648	400	107
24"	600	R77	749	475	102	R78	772	665	127

R: ASME Ringnumber W: Weight spectacle blind in Kg

LINE SIZE		ASME class 1500/PN250				ASME class 2500/PN420			
inch	mm	R	A	W	T	R	A	W	T
2"	50	R24	124	5	32	R26	133	9	43
3"	80	R35	168	13	40	R32	168	16	51
4"	100	R39	194	19	45	R38	203	27	62
6"	150	R46	248	38	58	R47	279	66	83
8"	200	R50	318	74	70	R51	340	113	98
10"	250	R54	371	112	80	R55	425	216	121
12"	300	R58	438	175	96	R60	495	324	135
14"	350	R63	489	247	105				
16"	400	R67	546	330	116				
18"	450	R71	613	445	127				
20"	500	R75	673	570	137				
24"	600	R79	794	915	162				

R: ASME Ringnumber W: Weight spectacle blind in Kg



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