



ASME CLASS 150 SERVICE PRESSURE/TEMP. RATINGS			
*Limited to Gasket & Glass Material			
Temp. (°F)	Pressure (PSIG)		
	CS	316SS	Bronze
-20 to 100	285	275	225
150	270	255	225
200	260	235	210
250	245	225	195
300	230	215	180
350	215	205	165
400	200	195	150
450	185	180	N/R
500	170	170	N/R
STEAM SERVICE			
Temp. (°F)	Pressure (PSIG)		
366	150	150	150

BILL OF MATERIALS						
* - Denotes an Optional, Non-Standard Material						
No.	Name of Part	Qty.	Material	Max. Temp. (°F)	Material Grade/Notes	
011	Body	1	Carbon Steel		ASTM A216 WCB	
			Bronze		ASTM B62	
			316SS		ASTM A351 CF8M	
007	Gasket	2	Neoprene	250		
			Gylon®	500	Gylon® 3504	
			*EPDM	250		
			*Viton®	400		
			*Graphite	500		
			*Non Asbestos	500		
			*Buna-N	250		
009	Inner Shield ₅	2	Mica V4		(Not Pictured)	
043	Flapper Assembly	1	316SS			
048	Lens	2	Tempered Boro.	500		
Non-Wet	001	Retainer	2	Brass		
	008	Cushion	2	Non-Asbestos	500	

PRODUCT SPECIFICATIONS														
FNPT Size	A		B		C		Weight		Min Flow Horizontal ₃		Min Flow Vertical ₃		Max Flow Velocity _{3,4}	
	In.	mm.	In.	mm.	In.	mm.	lbs.	kg.	gpm	lpm	gpm	lpm	Ft/Sec	M/Sec
1/2	3-3/4	95	1-3/16	30	3-1/4	83	3	1.4	1.25	4.7	3	11.4	15	4.6
3/4	3-3/4	95	1-3/16	30	3-1/4	83	3	1.4	1.5	5.7	4	15.1	15	4.6
1	4-1/4	108	1-7/16	37	3-21/32	93	4	1.8	2	7.6	5	18.9	15	4.6
1-1/4	5-1/2	140	2-1/8	54	4-7/8	124	9.5	4.3	5	18.9	11	41.6	15	4.6
1-1/2	5-1/2	140	2-1/8	54	4-7/8	124	9.3	4.2	5	18.9	13	49.2	15	4.6
2	5-1/2	140	2-1/8	54	4-7/8	124	8.9	4.0	8	30.3	15	57	15	4.6

S12 Series Configuration Choices:

Reference the Series S12 Model Number Matrix on our Website or Inquire with our Sales Team

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Notes:

- Country of Origin: USA
- Carbon Steel & Stainless Steel Wetted Materials are NACE MR0175 Compliant
- Flow data is an Approximation based on ambient temperature water and is not a performance guarantee
- Maximum Velocity is based on petroleum standard practices recommended pipe velocities
- Mica Shield (009) Required for Steam Service

REVISIONS			
Rev.	Modification	Date	Done By
D	Added Steam rating, modified options	12/10/2018	NPH
E	Updated NACE Notes	10/25/2021	NPH
F	Added Min/Max Flowrates, Layout	10/18/2023	NPH

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Series S12 Threaded SFI - Flapper - ASME Rated			
Sheet: 1 of 1	Drawn By: NPH	Tolerances, unless otherwise noted Dec.: ± Frac.: ±1/16 Ang.: ±	
Scale: NTS	Approved By: JCW	Size: A	
Dim.: Var.	Date: 10-DEC-18	Dwg. No.: SC2.00S12.02.0.1	Rev.: F