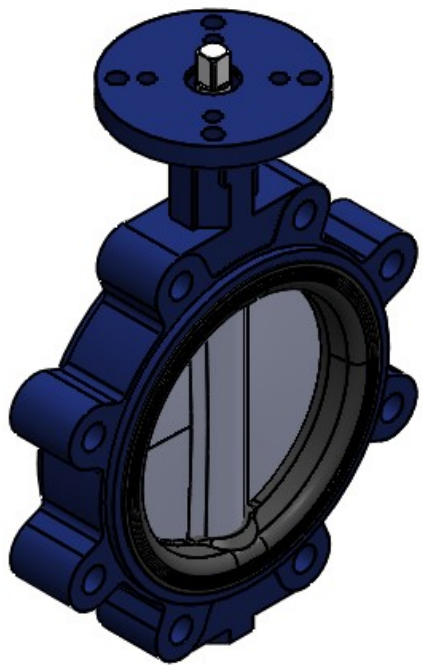
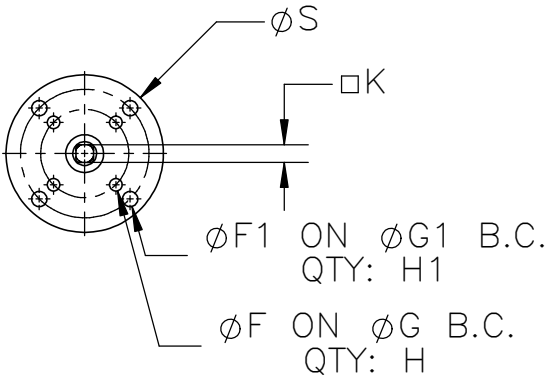




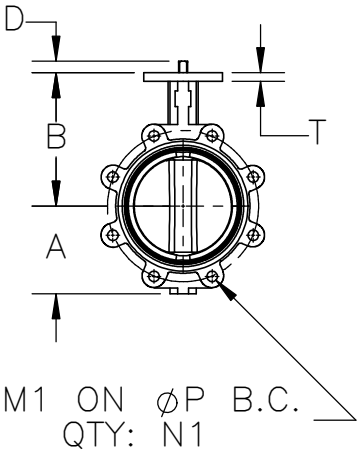
HNS Series - 250 PSI

- Special configuration for 250 psi bi-directional dead-end service.
- This valve is an extension of the NS Series line with an increased disc diameter to allow for the higher 250 psi rating at room temperature.
- Recommended operators are manual (handle or gear) or electric. Pneumatic actuators are not recommended.
- Torques are higher than the standard NS Series. Reference the provided torques in this drawing. Recommended for Lubricated service only.
- Unless noted here, all other information will follow the standard NS Series.
- Part numbers will follow the standard NS Series part number matrix but will start with the prefix "H".
 - Example) HNSP-L1-0400-NSR-LA
 - NSF 61 & 372 Approved 4" NS Series RSBFV, Class 125/150 Lug Style, A395 DI Body, EPDM Dead-End Service Seat, A351 CF8M Disc, PTFE/Brass Stem Bushings, 17-4 PH Square Stem, Locking Handle, 250 psi rating.

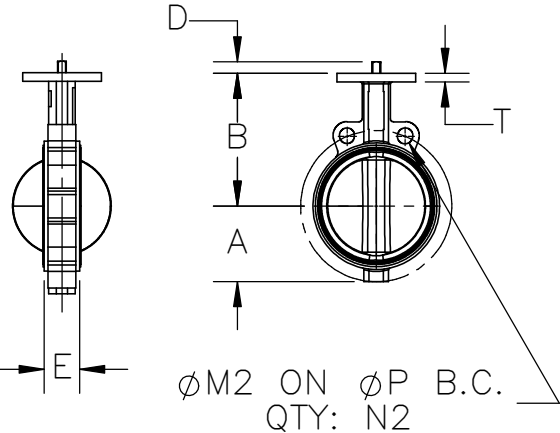
2"-24" MOUNTING



LUG STYLE BODY



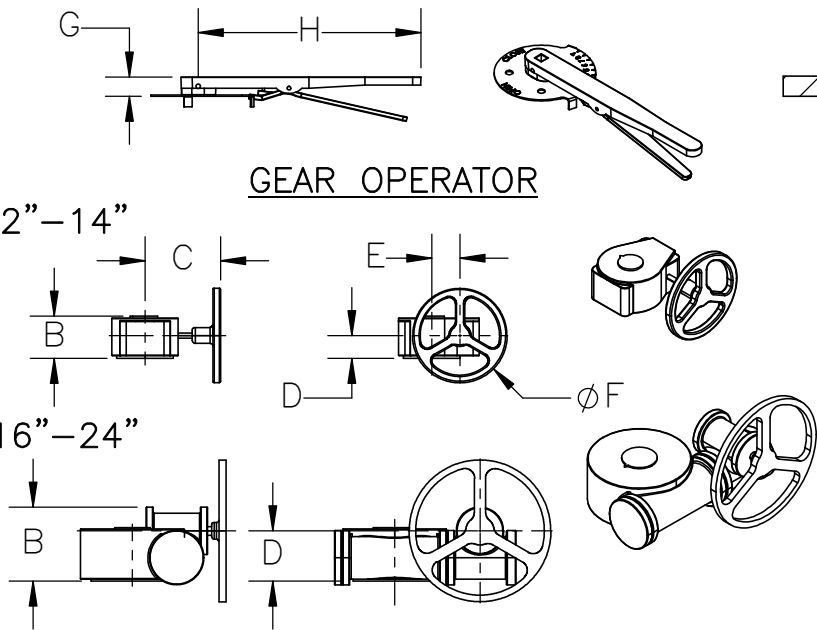
WAFER STYLE BODY



Valve Size	A		B		D	E	ØF	ØG	H	ØF1	ØG1	H1	K	ØM1	N1	ØM2			N2			ØP			ØS	T	Wafer (lbs)	Lug (lbs)
	Lug	Wafer	Lug	Wafer												Class 150	PN 10 (mm)	PN 16 (mm)	Class 150	PN 10	PN 16	Class 150	PN 10 (mm)	PN 16 (mm)				
2"	3.15	2.40	5.51	5.51	0.63	1.69	0.39	2.756 (F07)	4	-	-	-	0.354	5/8 - 11	4	0.79	19	19	2	2	2	4.75	125	125	3.54	0.51	6	8
2-1/2"	3.50	2.68	5.91	5.91	0.63	1.81	0.39	2.756 (F07)	4	-	-	-	0.354	5/8 - 11	4	0.79	19	19	2	2	2	5.50	145	145	3.54	0.51	7	9
3"	3.74	2.99	6.22	6.22	0.63	1.81	0.39	2.756 (F07)	4	-	-	-	0.354	5/8 - 11	4	0.79	19	19	2	2	2	6.00	160	160	3.54	0.51	8	11
4"	4.49	3.62	6.93	6.93	0.63	2.05	0.39	2.756 (F07)	4	-	-	-	0.433	5/8 - 11	8	0.79	19	19	2	2	2	7.50	180	180	3.54	0.55	12	19
5"	5.00	4.21	7.48	7.48	0.71	2.20	0.39	2.756 (F07)	4	-	-	-	0.551	3/4 - 10	8	0.91	19	19	2	2	2	8.50	210	210	3.54	0.55	16	25
6"	5.47	4.72	8.35	8.31	0.71	2.20	0.39	2.756 (F07)	4	0.47	4.016 (F10)	4	0.551	3/4 - 10	8	0.91	23	23	2	2	2	9.50	240	240	4.92	0.55	18	30
8"	6.85	5.94	9.29	9.25	0.71	2.36	0.47	4.016 (F10)	4	0.71	5.512 (F14)	4	0.669	3/4 - 10	8	0.91	23	23	2	2	2	11.75	295	295	6.89	0.63	31	45
10"	7.99	7.32	10.43	10.43	0.94	2.68	0.47	4.016 (F10)	4	0.71	5.512 (F14)	4	0.866	7/8 - 9	12	1.02	23	28	2	2	2	14.25	350	355	6.89	0.63	49	69
12"	9.53	8.31	12.01	12.01	0.94	3.07	0.47	4.016 (F10)	4	0.71	5.512 (F14)	4	0.866	7/8 - 9	12	1.02	23	28	2	2	2	17.00	400	410	6.89	0.71	69	102
14"	10.51	10.63	14.49	14.49	0.94	3.07	0.47	4.016 (F10)	4	0.71	5.512 (F14)	4	0.866	1 - 8	12	1.14	23	28	4	4	4	18.75	460	470	6.89	0.79	85	128
16"	13.10	13.10	15.75	15.75	1.42	4.02	0.71	5.512 (F14)	4	0.87	6.496 (F16)	4	1.063	1 - 8	16	1.14	28	31	4	4	4	21.25	515	525	8.27	0.87	139	210
18"	14.28	14.28	16.61	16.61	1.42	4.49	0.71	5.512 (F14)	4	0.87	6.496 (F16)	4	1.063	1 1/8 - 7	16	1.26	28	31	4	4	4	22.75	565	585	8.27	0.98	163	231
20"	15.26	15.26	17.91	17.40	1.42	5.00	0.71	5.512 (F14)	4	0.87	6.496 (F16)	4	1.417	1 1/8 - 7	20	1.26	28	34	4	4	4	25.00	620	650	8.27	1.06	231	344
24"	18.69	18.80	22.24	22.24	1.81	6.06	0.87	6.496 (F16)	4	-	-	-	1.417	1 1/4 - 7	20	1.38	31	37	4	4	4	29.50	725	770	8.27	1.26	412	485

- Unless otherwise specified, all dimensions are in inches.
- Face-To-Face dimensions (E) are across the body flats (metal-to-metal). Approximately 1/16" of the rubber seat protrudes from each side for flange sealing.
- 2" - 24" Lug valve end connections conform to ANSI B16.5 Class 150, Wafer valve end connections conform to ANSI B16.5 Class 150 and EN1092-2 PN 10/16.

HANDLE (2"-12" ONLY)

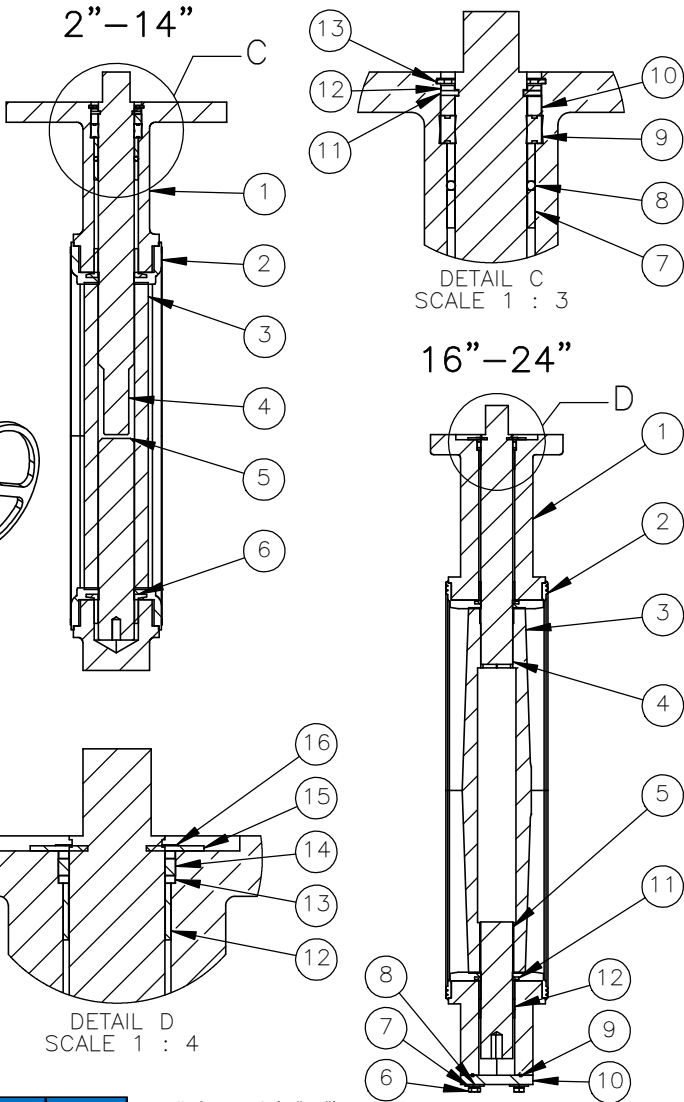


Valve Size	GEAR OPERATOR					HANDLE	
	B	C	D	E	ØF	G	H
2"-3"	2.64	4.74	1.42	1.78	6.00	1.05	10.24
4"						1.05	10.24
5"						1.05	10.24
6"						1.25	14.17
8"-12"	3.27	7.09	1.81	2.48	12.00	1.50	22.00
14"						-	-
16"-20"	6.14	7.80	4.17	7.13	12.00	-	-
24"	7.21	11.85	5.04	7.87	12.00	-	-

Torque (in-lbs)

Valve Size	250 PSID Lubricated
2"	175
2-1/2"	193
3"	276
4"	456
5"	695
6"	1,331
8"	2,434
10"	3,650
12"	5,753
14"	8,481
16"	13,274
18"	16,408
20"	20,373
24"	36,689

BILL OF MATERIALS



Bill of Materials (2"-14")

Item No.	Description	Material	Qty
1	Body	ASTM A395 A351 CF8M	1
2	Seat	EPDM (NSF) Buna-N (FKM / Viton®)	1
3	Disc	A351 CF8M (NSF) Nylon Coated DI (NSF) Aluminum Bronze Nickel Plated DI	1
4	Upper Stem*	17-4 PH	1
5	Lower Stem*	17-4 PH	1
6	Flange Bushing	Brass #	2
7	Bushing	Brass #	3**
8	O-Ring	Buna-N #	1
9	X-Ring	Buna-N #	1
10	Bushing	PTFE #	1
11	Stem Retainer	ASTM A276 304	1
12	Thrust Washer	ASTM A276 304	1
13	Snap Ring	SK7 Steel	1

- *2"-3" valves have a one-piece stem.
- **one bushing(7) not shown is located below lower stem flange bushing(6).
- # Under normal operation, the O-Ring and Bushings are not subjected to internal media & pressure.

Bill of Materials (16"-24")

Item No.	Description	Material	Qty
1	Body	ASTM A395 A351 CF8M	1
2	Seat	EPDM (NSF) Buna-N (FKM / Viton®)	1
3	Disc	A351 CF8M (NSF) Nylon Coated DI (NSF) Aluminum Bronze Nickel Plated DI	1
4	Upper Stem	17-4 PH	1
5	Lower Stem	17-4 PH	1
6	Bottom Cover Bolt	A2-70	4*
7	Bottom Cover Lock Washer	ASTM A276 304	4*
8	Bottom Cover Flat Washer	ASTM A276 304	4*
9	Bottom Cover O-Ring	Buna-N #	1
10	Bottom Cover	ASTM A395 / A351 CF8M	1
11	Flange Bushing	Brass #	2
12	Long Bushing	Brass #	2
13	Short Bushing	PTFE #	2
14	Packing	Buna-N #	1
15	Gland	WCB / ASTM A276 316	1
16	Gland Bolt	A2-70	4

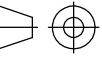
- *16"-20" valves have quantity 2.
- # Under normal operation, the O-Ring and Bushings are not subjected to internal media & pressure.



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CINCINNATI, OHIO 45246
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FAX: (513) 247-5462

DO NOT SCALE DRAWING



DESCRIPTION

2"-24" NS SERIES RESILIENT SEATED BUTTERFLY VALVE CHARTED DRAWING
HNS SERIES - SPECIAL 250 PSI CONFIGURATION

DRAWN BY RSS
DATE 03/13/25
CHECKED BY NPM
DATE 03/13/25
RELEASED BY NPM
DATE 03/13/25

VALVES, ACTUATORS, AND AUTOMATION CONTROLS

For more information on these valves, please visit our website at a-tcontrols.com.

SHEET 1 of 1	
MATERIAL	
DRAWING NO. P04864	REVISION A