



Knife Valves (ANSI 150 / PN10 / PN16) WAFER CONSTRUCTION BI-DIRECTIONAL (Cast Iron)



Authorized Distributor

FIG
F8115

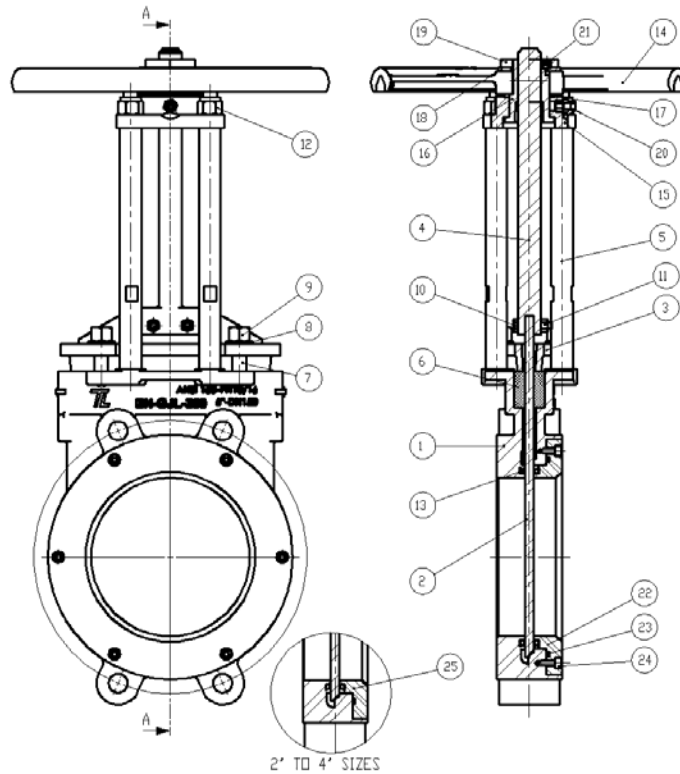


Knife Valves (ANSI 150 / PN10 / PN16)

WAFFER CONSTRUCTION BI-DIRECTIONAL

(Cast Iron)

Parts and materials



Item	Description	Material
1	Body	EN-GJL-250
2	Knife	AISI 304
3	Gland Flange	EN-GJL-250
4	Stem	ASTMA351
5	Stanchion	AISI 303
6	Packing	TEFLON
7	Gland Packing Stud	AISI 304
8	Gland Packing Washer	A105
9	Gland Packing Nut	Carbon Steel
10	Coupling Bolt	Carbon Steel
11	Coupling Nut	Carbon Steel
12	Stanchion Nut	Carbon Steel
13	Resilient Seat O-Ring	VITON
14	Handwheel	WCB
15	Bridge	WCB
16	Yoke Sleeve	1.0737 + HT65
17	Thrust Washer	Carbon Steel + HT65
18	Washer	Carbon Steel
19	Handwheel Nut	Carbon Steel
20	Lubricating Nipple	Carbon Steel
21	Flat Point Set Screw	Carbon Steel
22	Bolted Insert	ASTMA351
23	O-Ring	EPDM
24	Insert Bolt	Carbon Steel
25	Threaded Insert	ASTMA351

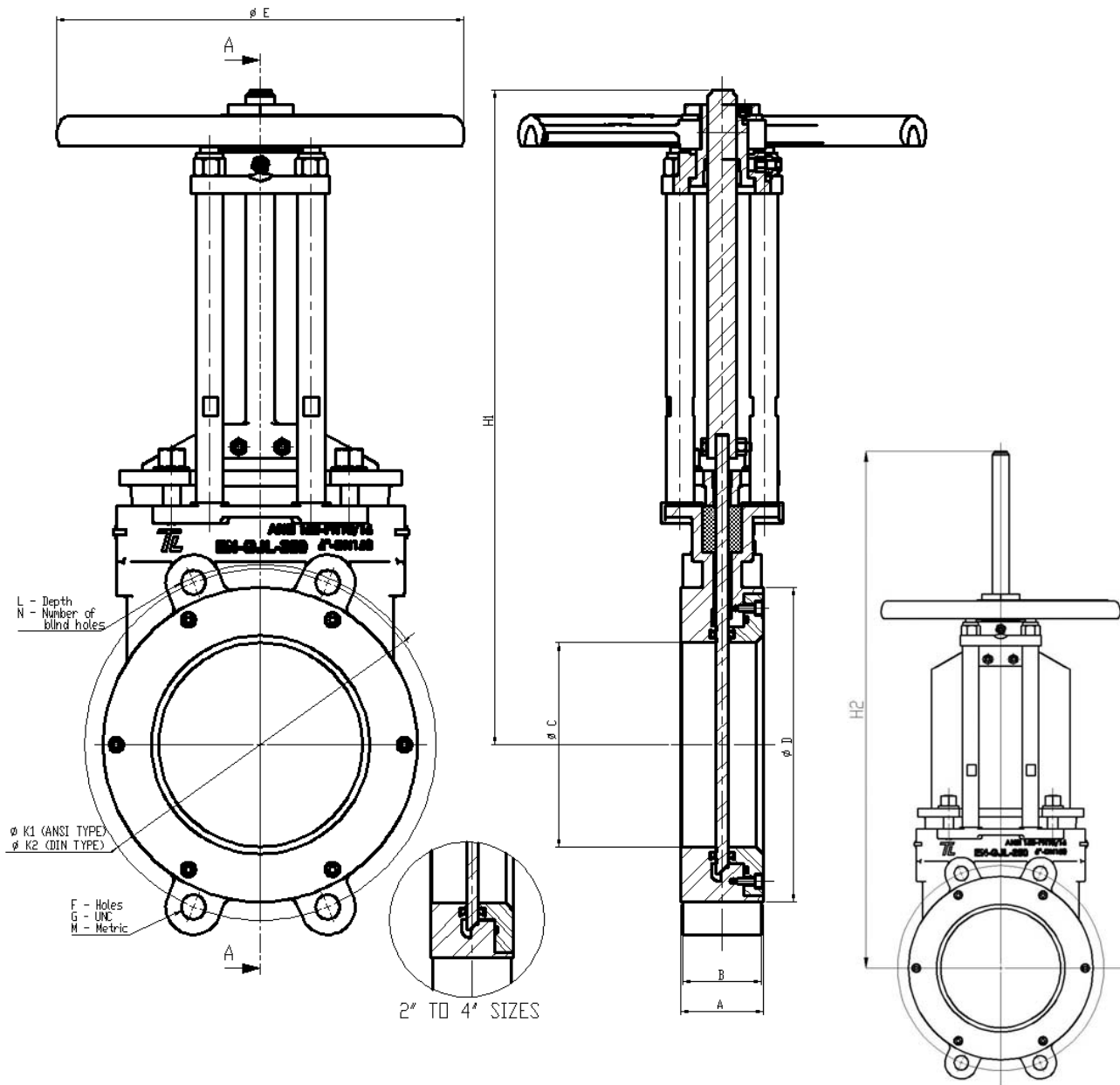
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FIG

F8115



Knife Valves (ANSI 150 / PN10 / PN16) WAFFER CONSTRUCTION BI-DIRECTIONAL (Cast Iron) Dimensions



DN	A	B	ØC	ØD	ØE	F	G	M	H1	H2	ØK1	ØK2	L	N	Weight
						ANSI 150 / PN10 / PN16	ANSI 150	DIN PN10 / PN16			ANSI 150	DIN PN10 / PN16		ANSI 150 & DIN	
2" (DN50)	1.9	1.7	1.9	3.6	11.3	4/4	5/8"-11 UNC	M16/M16	11.2	13.4	8.3	4.9/4.9	0.5	2/2	13
3" (DN80)	2.0	1.9	2.7	5.0	11.3	4/4	5/8"-11 UNC	M16/M16	12.3	15.7	6.0	6.3/6.3	0.2	2/2	23
4" (DN100)	2.0	1.9	3.6	6.2	11.3	4/4	5/8"-11 UNC	M16/M16	14.6	18.8	7.5	7.1/7.1	0.4	2/2	30
6" (DN150)	2.3	2.1	5.5	8.5	11.3	4/4	3/4" - 10 UNC	M20/M20	17.7	23.8	9.5	9.5/9.5	0.5	2/2	52
8" (DN200)	2.8	2.6	7.2	10.6	11.8	6/6	3/4" - 10 UNC	M20/M20	22.4	30.5	11.8	11.6/11.6	0.7	2/4	93
10" (DN250)	2.8	2.6	9.0	12.8	11.8	6/6	7/8" - 9 UNC	M20/M24	26.0	36.0	14.3	13.8/14.0	0.7	4/4	120
12" (DN300)	3.0	2.9	11.3	15.0	14.0	6/6	7/8" - 9 UNC	M20/M24	31.7	43.7	17.0	15.8/16.1	0.7	4/4	185
14" (DN350)	3.0	2.9	13.1	16.7	15.7	6/10/10	1" - 8 UNC	M20/M24	39.8	53.1	18.8	18.1/18.5	0.6	4/6	311
16" (DN400)	3.5	3.4	14.8	21.3	19.7	10/10/10	1" - 8 UNC	M24/M27	44.6	59.9	21.3	20.3/20.7	0.9	6/6	410
18" (DN450)	3.5	3.4	16.5	21.0	19.7	10/14/14	1 1/8" - 7 UNC	M24/M27	48.0	65.4	22.8	22.2/23.0	0.7	6/8	489
20" (DN500)	4.5	4.4	18.3	23.0	23.6	14/14/14	1 1/8" - 7 UNC	M24/M30	52.2	71.7	25.0	24.4/25.6	1.1	8/8	700
24" (DN600)	4.5	4.4	22.0	27.2	28.3	14/14/14	1 1/4" - 7 UNC	M27/M33	59.9	83.3	29.5	28.5/30.3	1.0	8/8	998

Dimensions in inches and weight in lbs

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FIG

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Knife Valves (ANSI 150 / PN10 / PN16) WAFFER CONSTRUCTION BI-DIRECTIONAL (Cast Iron)

General Characteristics, Torque & KV, Pressure Rating

General Characteristics

Flanges match ASME (ANSI) B 16.5 – 150lbs and EN-1092 PN10 and PN16

All Knife gate valves are built and tested in accordance with MSS-SP81 and TAPPI T1S 405-8

Directives: DIR 98/37/CE (MACHINES)

DIR 97/23/CE (PED) Fluid: Group 1(b), 2 (Cat.I, mod. A)

DIR 94/9/CE (ATEX) Group II, Cat. 3: zones 2 and 22

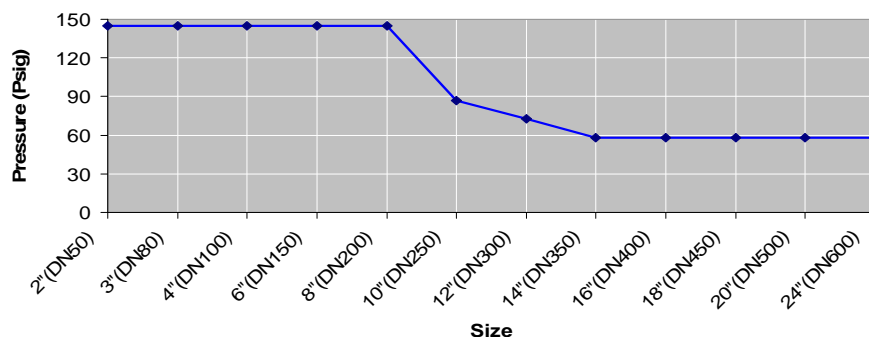
Torque Values in ft lbf

VALVE SIZE	AT DIFFERENTIAL PRESSURE		VALVE SIZE	AT DIFFERENTIAL PRESSURE	
	Class 150, PN10 & PN16			Class 150, PN10 & PN16	
2" (DN 50)	7.9		12" (DN300)	208.4	
3" (DN80)	8.3		14" (DN350)	360.7	
4" (DN100)	9.1		16" (DN400)	475.7	
6" (DN150)	29.1		18" (DN450)	585.6	
8" (DN200)	83.3		20" (DN500)	815.7	
10" (DN250)	104.0		24" (DN600)	1,231.7	

Cv Values in Gallons/min

VALVE SIZE	PERCENTAGE OPEN									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
2"	23	46	65	85	100	120	135	145	155	165
3"	70	142	200	255	310	360	405	440	475	500
4"	120	235	340	435	525	610	690	755	800	850
6"	285	565	810	1,025	1,250	1,460	1,635	1,795	1,920	2,020
8"	505	1,015	1,440	1,835	2,240	2,600	2,920	3,215	3,430	3,610
10"	810	1,615	2,310	2,950	3,590	4,160	4,680	5,140	5,490	5,780
12"	1,290	2,565	3,670	4,675	5,690	6,610	7,430	8,175	8,720	9,180
14"	1,485	2,965	4,240	5,410	6,570	7,630	8,565	9,410	10,090	10,600
16"	2,140	4,275	612	7,800	9,460	11,035	12,425	13,630	14,560	15,300
18"	2,805	5,600	8,000	10,185	12,430	14,390	16,170	17,760	18,970	20,000
20"	2,640	7,260	10,370	13,250	16,030	18,620	21,020	23,040	24,670	26,000
24"	5,390	10,760	15,420	19,590	28,860	27,700	31,320	32,240	36,570	38,200

Working pressure



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FIG

F8115