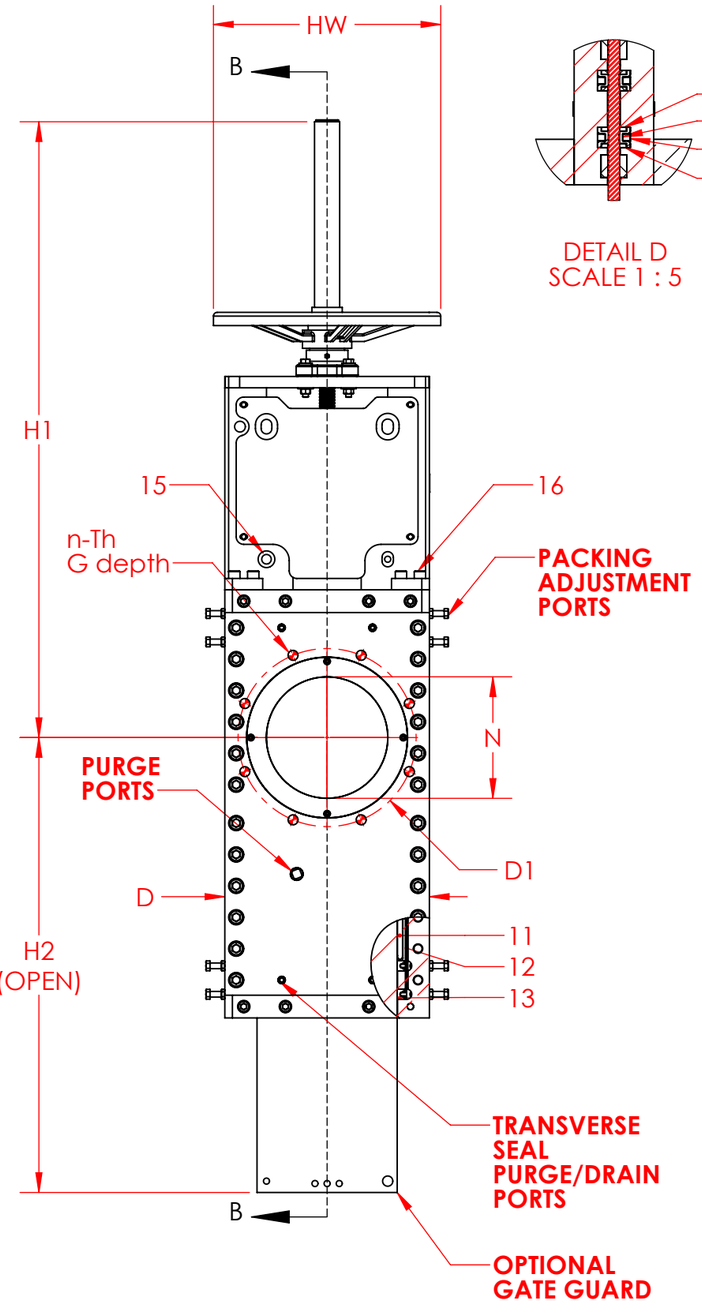
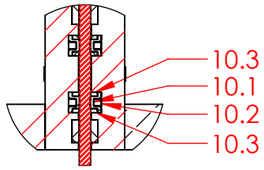
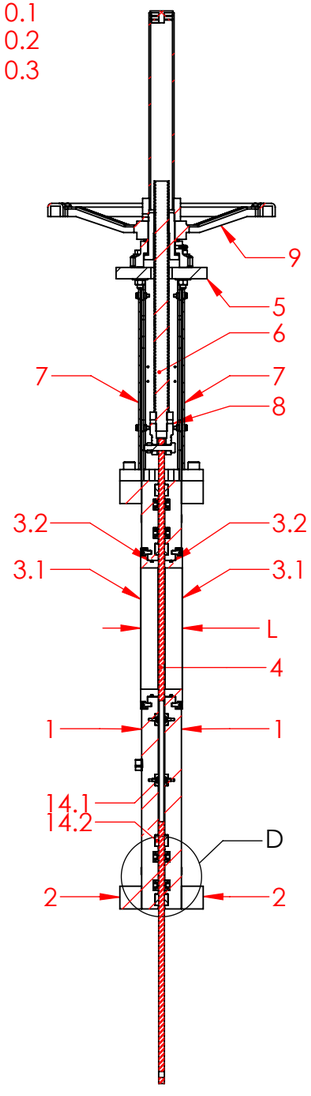
REVISIONS			
REV.	DESCRIPTION	DRAWN	DATE
A	INITIAL RELEASE	RL	2022-06-09

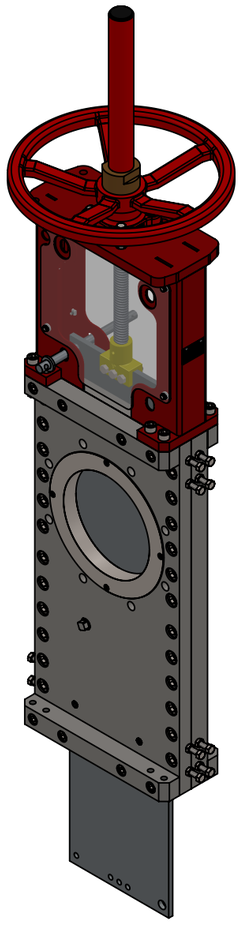




DETAIL D
SCALE 1 : 5



SECTION B-B



Model	
	Code
E9800	E98

Body			
Common Name	Cast	Wrought	Code
304 SS	A351 CF8	A240	1
316 SS	A351 CF8M	A240	2
317 SS	A351 CG8M	A240	3
2205 SS	A995 Gr. 4A CD3MN	A240	4
254 SMO	A351 CK3MCuN	A240	5
420ss Heat Treated RC50	-	A240	6
Inconel 600	A494 CY40	B168	7
Hastelloy C276	A494 CW-12MW	B575	8
Alloy 20	A351 CN7M	B463	9
Low Temp Carbon Steel	A352 LCC	-	C
Ductile Iron	A536-60-40-18	-	D
904L	-	B625	L
17-4 PH	A747 CB7Cu-1	A693	P
Ni-Resist	A439 D2	-	N
2507 S5	A995 Gr. 5A CE3MN	A240	S
Titanium Grade 2	B265 Gr. 2	B265	T
Carbon Steel	A216 WCB	-	W

Gate		
Common Name	Wrought	Code
304 SS	A240	1
316 SS	A240	2
317 S5	A240	3
2205 S5	A240	4
254 SMO	A240	5
420ss Heat Treated RC50	A240	6
Inconel 600	B168	7
Hastelloy C276	B575	8
Alloy 20	B463	9
Chrome Plated 304 SS	A240	C
2707 S5	-	H
904L	B625	L
17-4 PH	A693	P
2507 S5	A240	S
Titanium	B265	T
Carbon Steel	A516	W

Seat	
Aflas (25°F - 500°F) (-4°C - 260°C)	A
BUNA N (-30°F - 250°F) (-34°C - 121°C)	B
EPDM (-65°F - 265°F) (-54°C - 129°C)	E
Polyurethane (-30°F - 180°F) (-34°C - 82°C)	U
Viton-GFS (-2°F - 400°F) (-19°C - 204°C)	S
Viton-B (-15°F - 437°F) (-26°C - 225°C)	V
Viton GFLT (-15°F - 437°F) (-26°C - 225°C)	G
Viton-A White (FDA) (-15°F - 437°F) (-26°C - 225°C)	W
FFKM (5°F to 608°F) (-15°C - 320°C)	F
Special	Z

TopWorks	
	Code
Fabricated Yoke	F
Pressure Bonnet	P
304 SS Stanchions	S
316 SS Yoke	W
304 SS Yoke	Y

Transverse Seal / Packing / Scrapers	
	Code
PTFE Glide Pucks (500°F, 260°C max) PTFE Injectable Packing (400°F, 204°C max) CE Phenolic Scrapers (257°F / 125°C max)	Standard
Aflas (25°F - 500°F) (-4°C - 260°C)	A
BUNA N (-30°F - 250°F) (-34°C - 121°C)	B
EPDM (-65°F - 265°F) (-54°C - 129°C)	E
Polyurethane (-30°F - 180°F) (-34°C - 82°C)	U
Viton-B (-15°F - 437°F) (-26°C - 225°C)	V
Viton-GFS (-2°F - 400°F) (-19°C - 204°C)	S
Viton GFLT (-15°F - 437°F) (-26°C - 225°C)	G
Viton-A White (FDA) (-15°F - 437°F) (-26°C - 225°C)	W
FFKM (5°F to 608°F) (-15°C - 320°C)	F
Special	Z

Substitute Injectable Packing Material	Adder Code
FDA PTFE Injectable Packing (400°F, 204°C max)	(F)
Graphite Injectable Packing (1200°F, 650°C max)	(G)

Substitute Glide Puck Material	Adder Code
Graphite filled PTFE Glide Pucks (500°F, 260°C max)	(H)

Substitute Scraper Material	Adder Code
G-7 Phenolic Scrapers (430°F / 220°C max)	(7)
420ss Heat Treated RC50	(R)
Inconel 600	(I)
Brass	(B)

Add Tertiary Braided Rope Packing	Adder Code
PTFE	(P)
Graphite	(G)

Operator	
	Code
Bare Stem	B
Chainwheel	C
Chainwheel with Nut	C(N)
Electric On/Off	E
Electric Modulating	E(M)
Gear	G
Gear with Mechanical Interlock	G(M)
Gear with Nut	G(N)
Gear (Inline)	G(L)
Gear (Spur)	G(S)
Hydraulic (Cylinder)	H
Mechanical Interlock	M
Lever	L
Nut	N
Pneumatic (HP Cylinder)	P
Pneumatic (DP Cylinder)	P(G)
Spring Closed (FC)	R
Spring Open (FO)	S
Ratchet	T
Handwheel	W
Handwheel with Nut	W(N)
No Stem (CLA Only)	X

Size	
	Code
2	02
3	03
4	04
6	06
8	08
10	10
12	12
14	14
16	16
18	18
20	20
24	24
28	28
30	30
36	36
42	42
48	48
54	54
60	60
66	66

Options	
	Code
None	-
Xylan Coated Gate	1
Xylan Coated Wetted Parts	2
Chrome Coated Gate	3
Nickel Coated Gate	4
Silicone Free	7
NA Content	8
AIS Requirement	9
Oversized Cylinder	A
Safety Guards	B
Stem Extension	E
Air Filter / Reg	F
Energized	G
Horseshoe	H
Wear Ring	K
Non-Rising Stem	N
Lockouts	O
Purge Ports	P
Junction Box Kit	Q
Solenoid	S
Positioner	T
V-port	V
Opn/Close Prox Probes	X
Stem Protector	Y

NOTE:
- MAXIMUM WORKING PRESSURE CLASS #150
- DESIGNED AND TESTED AS PER **MSS-SP135 SHORT, ASME B16-34**
- ZERO LEAKAGE SHUTOFF FOR RESILIENT SEATED VALVES
- DIMENSIONS (in)
- WEIGHT (lbs)

NPS	L	D	D1	N	n-Th	G	H1	H2	HW	WEIGHT	RIM PULL		
											lbf @ 50psi ΔP	lbf @ 150psi ΔP	lbf @ 275psi ΔP
2	2.00	6.0	4.75	2.00	4 x 5/8"-11	0.50	25.3	14.3	8.0	60	9	13	23
3	2.00	7.5	6.00	3.00	4 x 5/8"-11	0.50	28.0	16.8	8.0	86	9	13	23
4	2.00	9.0	7.50	4.00	8 x 5/8"-11	0.50	31.8	19.3	12.0	109	8	13	22
6	2.25	11.0	9.50	6.00	8 x 3/4"-10	0.60	35.8	24.3	12.0	185	15	22	39
8	2.75	13.5	11.75	8.00	8 x 3/4"-10	0.60	41.0	29.3	15.0	308	15	23	40
10	2.75	16.0	14.25	10.00	12 x 7/8"-9	0.63	46.3	34.3	20.0	406	18	27	47
12	3.00	19.0	17.00	12.00	12 x 7/8"-9	0.65	51.8	39.3	20.0	642	18	27	47

ITEM #	DESCRIPTION	MATERIAL	
16	HARDWARE	18-8SS	ASTM A193/A194
15	LOCKOUT PIN	17-4PH	-
14.2	FIXED GLIDE PUCK	REFER TO CHART	-
14.1	GLIDE PUCK	REFER TO CHART	-
13	CORNER SEAL	SAME AS SEAL	-
12	ATMOSPHERIC SEAL	SAME AS SEAL	-
11	PERIMETER SEAL	REFER TO CHART	-
10.3	SCRAPER	REFER TO CHART	-
10.2	INJECTABLE PACKING	REFER TO CHART	-
10.1	TRANSVERSE SEAL	REFER TO CHART	-
9	HANDWHEEL ASSEMBLY	STEEL + PAINT	AL.BRZ BUSHING
8	CLEVIS	CF8	ASTM A351
7	SAFETY SCREEN	POLYCARBONATE	-
6	STEM	304SS	ASTM A269
5	YOKE	REFER TO CHART	-
4	GATE	REFER TO CHART	-
3.2	SEAT RING O-RING	SAME AS SEAL	-
3.1	SEAT RING	SAME AS BODY	-
2	BODY GUSSET	SAME AS BODY	-
1	BODY HALF	REFER TO CHART	-

UNLESS OTHERWISE SPECIFIED
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994
ALL DIMENSIONS SHOWN APPLY AFTER PLATINGS AND COATING
TOLERANCES APPLY AS SHOWN BELOW

THIRD ANGLE PROJECTION

FRACTIONS	± 1/32	NONE	± .02
ANGLES	± .1°	.X	± 0.1
SURFACE FINISH	32	.XX	± .01
UOM	INCH	.XXX	± .005

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DRAWN BY: RL 2022-06-06
CHECKED BY: ML 2022-06-06

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TEL: 519.756.3100
FAX: 519.756.3663

JOB NO.: JOB NAME:
DWG NAME: **E9800, HIGH PERFORMANCE PERIMETER SEAL O-PORT (THRU CONDUIT) KNIFE GATE VALVE, HANDWHEEL**
REV. **A**
DWG NO. **E98XXXXXW-XX**
SIZE A | SCALE: - | WEIGHT: - | SHEET 1 OF 1
EV PART NO.: