

RFQ and Purchase Order Specification Work Sheets

Section: R406.004
Date: 5-18-2020
Supersedes: 11-1-2011
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Prismatic Gages

ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL
A	1	PG*-1	BODY	CAST IRON A27B
B	1	R*009 60	SEALING GASKET	GRAFOIL
C	1	V18980 *	CUSHION GASKET	
D	1	X172335	KEY HEX ODP 3026M 7/16-20 X 1 1/2 LG.	STEEL
E	1	PG*-2	COVER PLATE	DUCTILE IRON
F	1	M40-6	CLAMP	DUCTILE IRON
G	1	V11062 2HA	HEX NUT-7/16-20	STEEL
H	1	PG*-6	REFLEX GLASS	GLASS
I	2	PG4-***	NIPPLE	304 STN. STL
J	1	X174212	WASHER-3/4 X 15/32 X 5/32	STEEL
K	1	X174210	7/16 LOCK WASHER	STEEL

* TO COMPLETE PART NO. ADD NUMERAL OF GAGE ORDERED
*** TO COMPLETE PART NO. ADD NIPPLE PROJECTION LENGTH
FIRST 2 NUMBERS ARE FULL INCHES
THIRD NUMBER IS SIXTHS OF AN INCH
NOTES: FOR STANDARD RELIANCE BRONZE WATER GAGE VALVES,
OVERALL SHOULD BE 2 3/4" LESS THAN THE WATER
GAGE CENTERS
MINIMUM UPPER NIPPLE LENGTH "D" IS 1 3/4"
MINIMUM LOWER NIPPLE LENGTH "E" IS 1 3/8"
W.S.P. 250 PSIG (STEAM SERVICE)

TYPE	A	B	C	D	E	BOLTS	NET WTS.
C4	7 7/8	6	3/4			8	11
C5	9	7 7/8				10	12
C6	10 1/4	9	1/8			12	14
C7	11 3/8	10	1/8			14	16
C8	13	11 3/4				16	17 1/2
C9	13 3/4	12 1/2				16	19

TYPE	A	B	C	D	E	BOLTS	NET WTS.
C44	16	14 7/8				16	22
C55	18 1/4	17 1/8				20	24
C66	20 3/4	19 5/8				24	28
C77	23	21 3/4				28	32
C88	26 1/4	25				32	36
C99	27 3/4	26 1/2				32	39

15	10/16/09	UPDATED HEX NUT PART NUMBER (OLD PART NO. X171430)	CG
REV	DATE	CHANGE	BY

MANUFACTURED BY
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CLARK-RELIANCE®
'C' TYPE PRISMATIC
GAGE ASSEMBLY

PART NUMBER: SEE TABLES
TOLERANCE CLASS (PER PES-004):
MATERIAL:
REVISION: UPDATED PART NO.
DRAWN: CM
CHECKED:
DATE: 7/10/09
DRAWING NO.: B-4366
REV.: 15

Please complete all information fields in this worksheet and submit with your RFQ (Request For Quote) or Purchase Order. The use of these worksheets has proven to greatly decrease Engineering time and virtually eliminate specification errors.

Reliance®

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Must accompany P.O with all fields completed

Customer:	_____	Date:	_____
Address:	_____	P.O. No.:	_____
	_____	Quote Ref.:	_____
Contact Name:	_____	On Site Req'd.:	_____
Phone No.:	_____	Other Info.:	_____
E-mail:	_____		_____

REQUIRED INFORMATION

Design Pressure: _____

Design Temperature: _____

Gage Visibility Required: _____

Gage Model No. (if known):

Water Gage Valve Conns.

- ☐ ¾" O.D. Nipple (end stem)
☐ ¾"-300# RF Flange
Side Conns.
☐ Other (Specify)

Water Gage Valve Set Required

Bronze

- ☐ BG402RS
☐ BG403RS
☐ BG404RS
☐ Other

Steel

- ☐ SG854
☐ SG860
☐ SG861U
☐ SG885U
☐ SG778
☐ SG854F-300
☐ Other (Specify)

Water Gage Valve Centers _____

Environment:

- ☐ Indoor
☐ Outdoor
☐ Hazardous Area

Illumination Required:

- ☐ None
☐ GL53 Incandescent

Viewing Hood

- ☐ None
☐ Direct Vision
☐ Periscope

Power Requirements:

- ☐ 120 VAC
☐ 240 VAC

Mirror Assembly Required:

Notes:

- Available in 2 different pressure classes; "C" type up to 250 PSIG, "S" type up to 350 PSIG
- The "C" and "S" Series Gages have ¾" O.D. end nipples for stuffing box connections and use Borosilicate Reflex Glass.
- All gages over three sections should be quoted with flanged connections – consult factory

"C" SERIES GAGES

Max. Pressure 250
PSIG

"S" SERIES GAGES

Max. Pressure 350
PSIG

PRISMATIC GAGES VERTICAL ASSEMBLIES

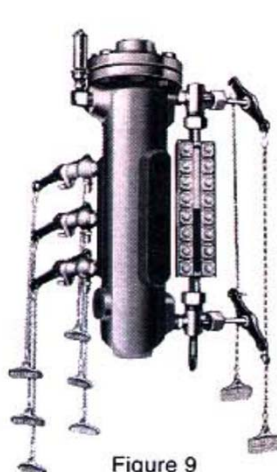


Figure 9

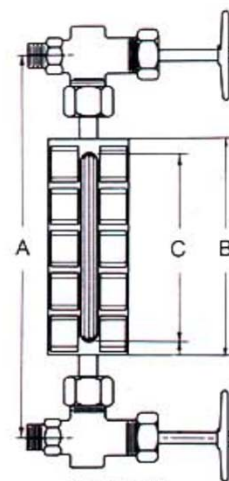


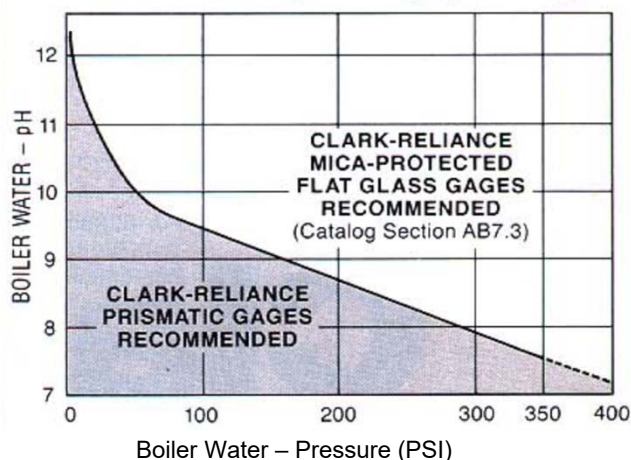
Figure 10

Notes:

- 1) All gages over three sections should have side flanged connections and be used with the appropriate water gage valves.
- 2) All gages over three sections will be "S" type gages and be of one-piece construction.
- 3) Longer visibilities are available. Consult Clark-Reliance with your requirements.

GAGE SELECTION DATA

Specific combinations of boiler water pressure and boiler water pH levels suggest the installation of mica-protected gages to resist gage glass deterioration and possible gage leakage.



Vertical Centers With Reliance Valves A	Prismatic Number		Vertical Water Visibility C	Over-All Body Length B
	"C" Type	"S" Type		
14	C4	S4	6 ³ / ₈	7 ⁷ / ₈
16	C5	S5	7 ⁷ / ₈	9
17	C6	S6	9 ¹ / ₈	10 ¹ / ₄
18	C7	S7	10 ¹ / ₈	11 ³ / ₈
19	C7	S7	10 ¹ / ₈	11 ³ / ₈
19 ¹ / ₂	C8	S8	11 ³ / ₄	13
20	C9	S9	12 ¹ / ₂	13 ³ / ₄
21	C9	S9	12 ¹ / ₂	13 ³ / ₄
22	C9	S9	12 ¹ / ₂	13 ³ / ₄
23	C44	S44	14 ⁷ / ₈	16
24	C44	S44	14 ⁷ / ₈	16
25	C55	S55	17 ¹ / ₈	18 ¹ / ₄
26	C55	S55	17 ¹ / ₈	18 ¹ / ₄
27	C66	S66	19 ⁵ / ₈	20 ³ / ₄
28	C66	S66	19 ⁵ / ₈	20 ³ / ₄
29	C66	S66	19 ⁵ / ₈	20 ³ / ₄
30	C77	S77	21 ³ / ₄	23
31	C77	S77	21 ³ / ₄	23
32	C77	S77	21 ³ / ₄	23
33	C88	S88	25	26 ¹ / ₄
34	C99	S99	26 ¹ / ₂	27 ³ / ₄
30 ¹ / ₄	C444	S444	23	24 ¹ / ₈
33 ⁵ / ₈	C555	S555	26 ³ / ₈	27 ¹ / ₂
37 ³ / ₈	C666	S666	30 ¹ / ₈	31 ¹ / ₄
40 ³ / ₄	C777	S777	33 ³ / ₈	34 ⁵ / ₈
45 ⁵ / ₈	C888	S888	38 ¹ / ₄	39 ¹ / ₂
47 ⁷ / ₈	C999	S999	40 ¹ / ₂	41 ³ / ₄
38 ³ / ₈		S4444	31 ¹ / ₈	32 ¹ / ₄
42 ⁷ / ₈		S5555	35 ⁵ / ₈	36 ³ / ₄
47 ⁷ / ₈		S6666	40 ⁵ / ₈	41 ³ / ₄
52 ³ / ₈		S7777	45	46 ¹ / ₄
57 ⁷ / ₈		S8888	51 ¹ / ₂	52 ³ / ₄
61 ⁷ / ₈		S9999	54 ¹ / ₂	55 ³ / ₄