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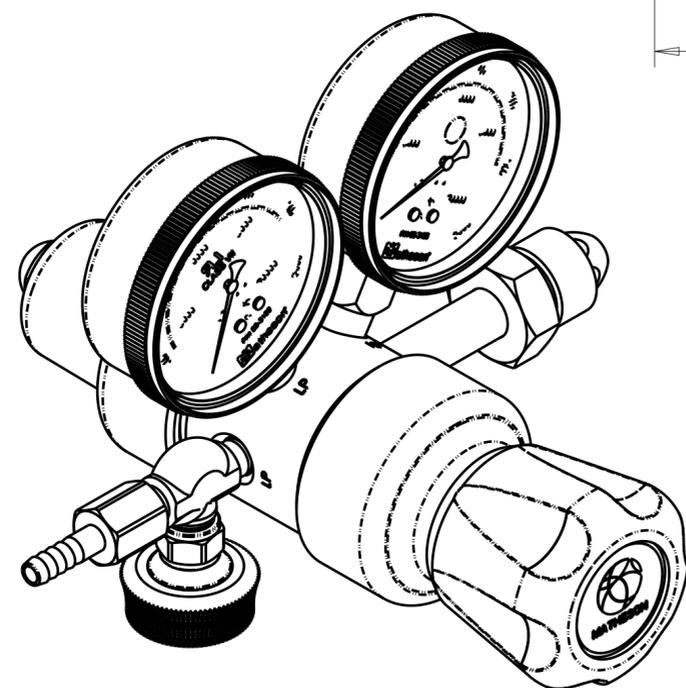
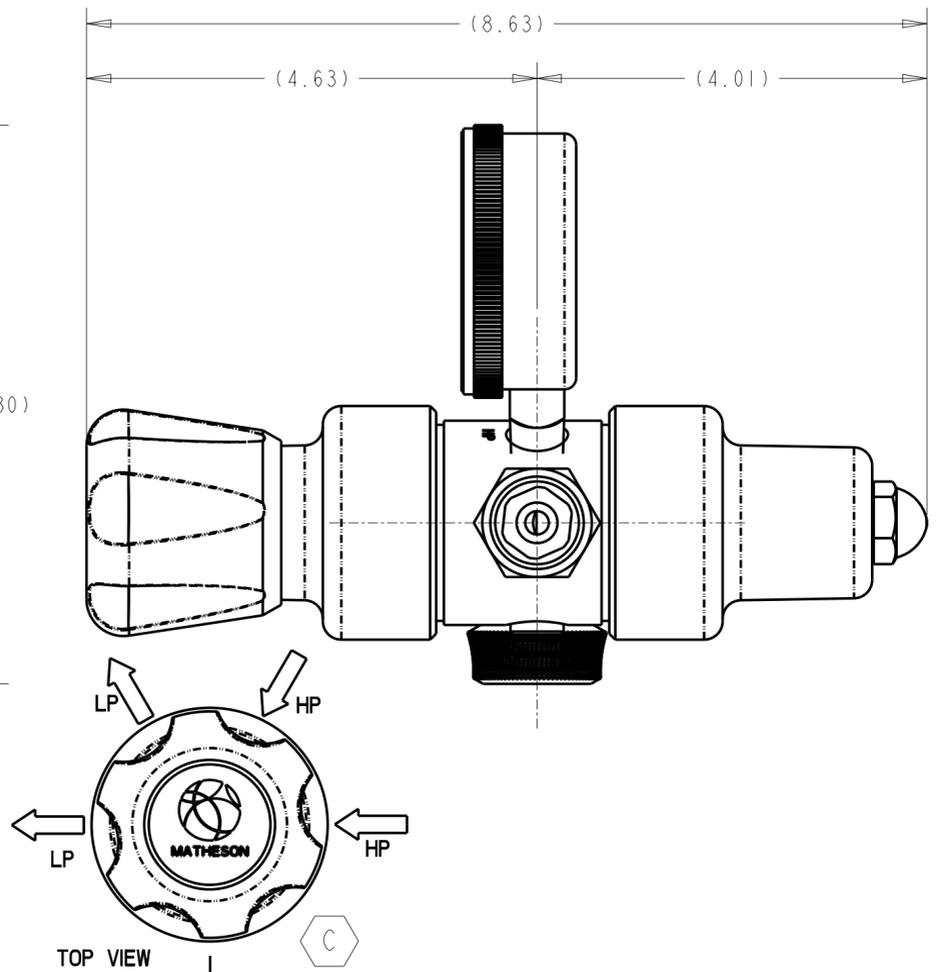
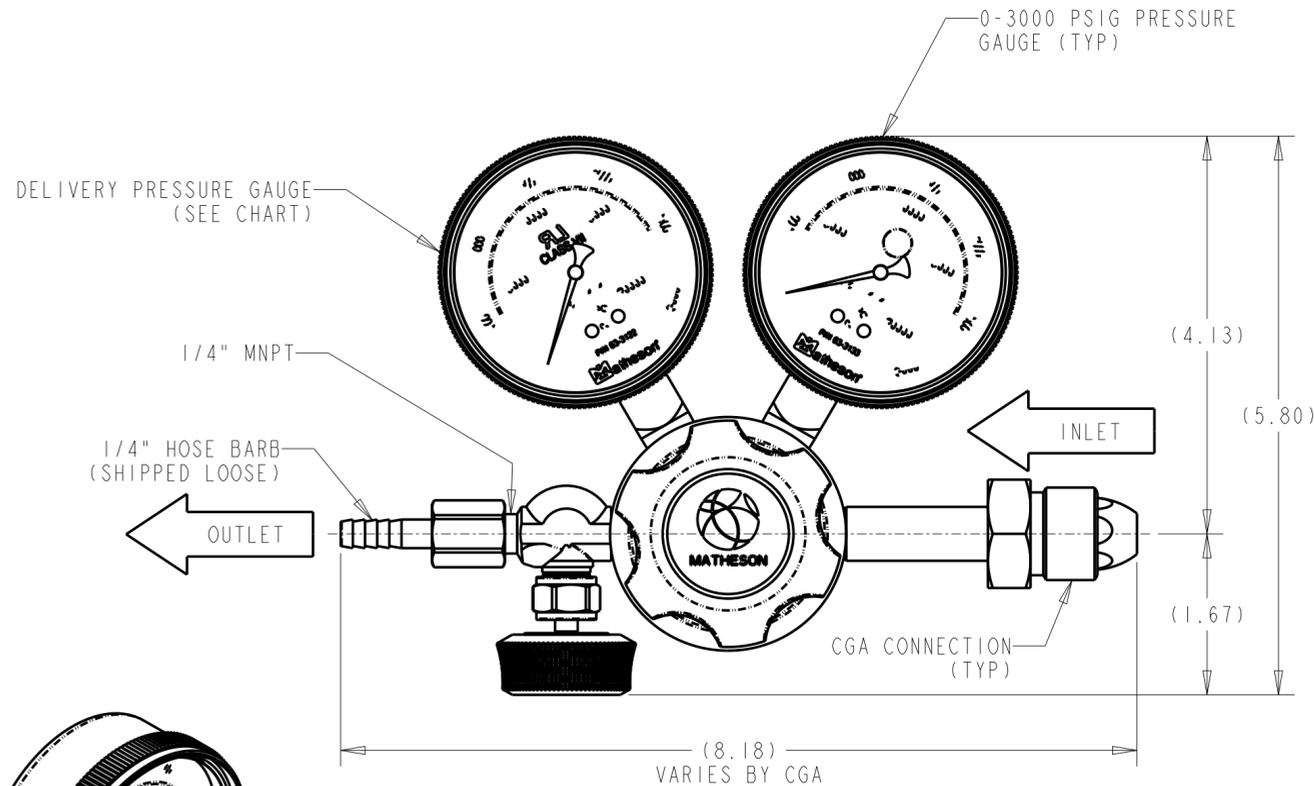
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MODEL NO.	MAX DELIVERY PRESSURE	DELIVERY PRESSURE GAUGE
81L	15 PSI	0-30 PSI
81	30 PSI	0-100 PSI
81H	125 PSI	0-200 PSI
81-250	250 PSI	0-100 PSI

REF ONLY FOR PDM USE ONLY	DWG NO. 81-OL-	MODEL NO. M3322B-170-
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REVISIONS					
SH-ZONE	REV	DESCRIPTION	ECO NO.	BY/DATE	APVD/DATE
-	A	RELEASED FOR PRODUCTION	-	DL-1/15/21	WS-1/21/21
B1	B	REVISED CLEANING SPECIFICATION	-	DL-4/4/23	WS-4/4/23
B2	C	ADDED TOP VIEW PORT LAYOUT	-	DL-4/24/23	WS-4/24/23



MATERIALS	
REGULATOR BODY	CHROME PLATED FORGED BRASS
REGULATOR BONNETS	CHROME PLATED ZINC DIECAST
REGULATOR DIAPHRAGMS	NEOPRENE
REGULATOR SEAT (1ST STAGE)	PTFE TEFLON
REGULATOR SEAT (2ND STAGE)	PTFE TEFLON
REGULATOR SEALS	NEOPRENE
INLET FILTER	NICKEL PLATED BRONZE
GAUGES	CHROME PLATED BRASS
OUTLET VALVE BODY	CHROME PLATED FORGED BRASS
OUTLET VALVE PACKING	PTFE
OUTLET VALVE STEM	STAINLESS STEEL
OUTLET VALVE SEAT	BRASS

SPECIFICATIONS	
MAXIMUM INLET PRESSURE	3000 PSI (20,700 kPa)
FLOW CAPACITY-REGULATOR (Cv)	0.15 WITHOUT OUTLET VALVE
FLOW CAPACITY-VALVE (Cv)	0.37
OPERATING TEMPERATURE	-20°F TO 140°F (-29°C TO 60°C)
PORTING (REGULATOR BODY)	1/4" NPT FEMALE
PORTING CONFIGURATION	2 HIGH, 2 LOW, 1 INTERSTAGE
INLET FILTER	10 MICRON - SINTERED
BONNET THREADING	N/A
CLEANING	CGA G 4.1
PRESSURE RATING	PER ANSI/ASME B31.3
TYP MAX FLOW (100 PSI DEL. PRESS.)	4 SCFM-N2 (200 SLPM)
CONFORMS TO CGA E-4 STANDARD FOR GAS PRESSURE REGULATORS	

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TOLERANCES	
INCH	METRIC
X ± .1	X ± .8
.X ± .03	.X ± .3
.XX ± .01	.XX ± .13
.XXX ± .005	
63 /	1.6 /
ANGLES ± 1/2°	

MATERIAL:
FINISH:
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING

APPROVALS	
DRAWN BY:	DATE:
DL	1/15/21
CHECKED BY:	DATE:
WS	1/21/21
ENGINEER:	DATE:
WS	1/21/21

MATHESON
ask...The Gas Professionals™
GAS EQUIPMENT TECHNOLOGY GROUP, MONTGOMERYVILLE, PA 18936

TITLE:
81 SERIES, DAUL STAGE REGULATOR, FORGED BRASS

SIZE	DWG. NO.	REV
C	81-OL	C
CREO	SCALE: NTS	SHEET 1 OF 1

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