

VALVE ACTUATOR

CG-Metric



CG Series of Worm Operators

- 90° -turning manual drive device, suitable for ball valve, butterfly valve, cock valve and other types valve.
- Allowable output torque range is 270~25000N.m.
- Handwheel can be installed on both sides, left and right.
- The dimensions connected with valve are designed according to ISO5211/ MSS SP-101.
- Loaded with grease inside gear body, shell sealed for waterproof, protection grade IP65, which are conditions for device used inside rooms or in the open air.
- An anti-wrong operation locking seat, a locking plate and an indication device which is used together with a limiter switch are provided for customers to choose.
- There are two types: Horizontal (Htype) and (V type).

CG valve Technical parameters of actuators

Model	CG24	CG30	CG50	CG80	CG200	CG300	CG320	CG330	CG410	CG520
Geat Ratio	24:1	30:1	50:1	80:1	200:1	291:1	319:1	330:1	407:1	518:1
Max Travel	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°
Rated Input N.m	80	120	120	150	100	50	100	240	—	—
Rated Output N.m	270	700	1200	2000	3000	3000	7000	12000	17000	25000
Efficiency %	14	19.44	20	16.66	15	20.6	21.94	15.15	—	—
Weight Kg	4.8/6.4	10.4	12	25	48	40.8	69.2	122	240	380
Max. Stem Dia. mm	26	30	45	54	54	54	66	100	100	100

VALVE ACTUATOR *CGA-Inches*



CGA Series of Worm Operators

- 90° -turning manual drive device, suitable for ball valve, butterfly valve, cock valve and other types valve.
- Allowable output torque range is 2390~221250IN.LB.
- Handwheel can be installed on both sides, left and right.
- The dimensions jointing with valve are designed according to ISO5211/MSS SP-101.
- Loaded with grease inside gear body, shell sealed for waterproof, protection grade IP65, which are conditions for device used inside rooms or in the open air.
- An anti-wrong operation locking seat, a locking plate and an indication device which is used together with a limiter switch are provided for customers to choose.
- There are two types: Horizontal (Htype) and (V type).

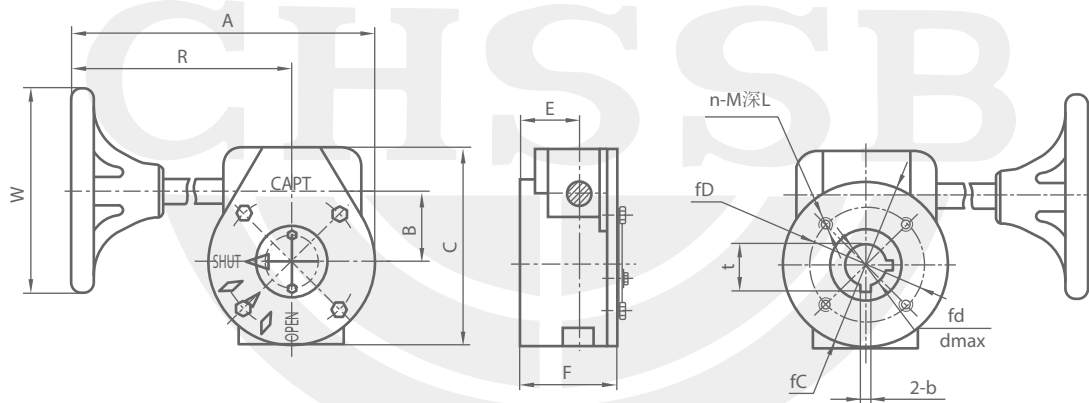
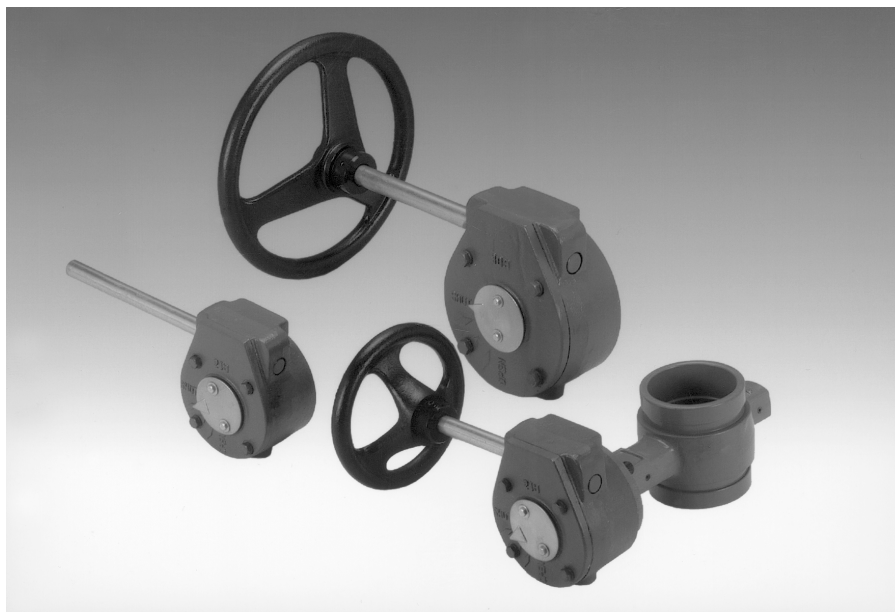
CGA valve Technical parameters of actuators

Model	CGA24	CGA30	CGA50	CGA80	CGA200	CGA300	CGA320	CGA330	CGA410	CGA520
Geat Ratio	24:1	30:1	50:1	80:1	200:1	291:1	319:1	330:1	407:1	518:1
Max Travel	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°	90°±5°
Rated Input in.lb	708	1062	1062	1328	885	443	885	2124	—	—
Rated Output in.lb	2390	6195	10620	17700	26550	26550	61950	106200	150450	221250
Efficiency	14	19.44	20	16.66	15	20.6	21.94	15.15	—	—
Weight lb	11/14	23	26	55	106	90	153	269	529	838
Max. Stem Dia. in	1.02	1.18	1.77	2.13	2.13	2.13	2.60	3.94	3.94	3.94

VALVE ACTUATOR

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CG one-step valve actuator-H type

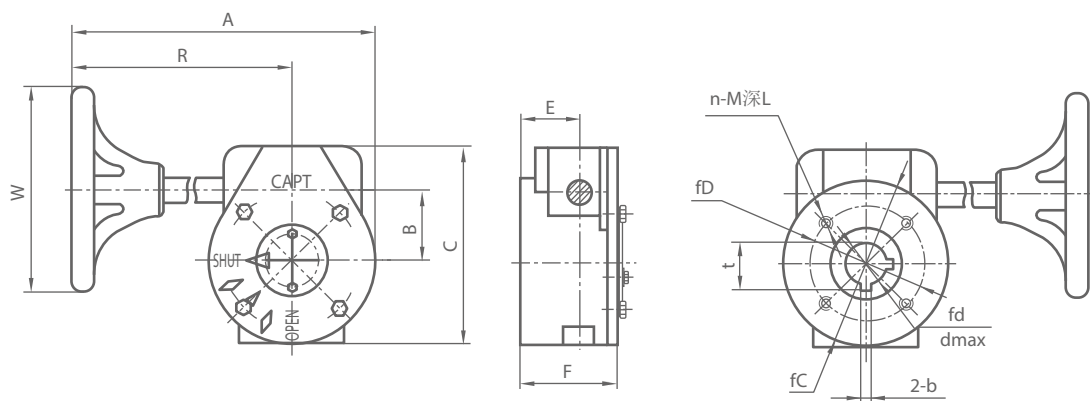
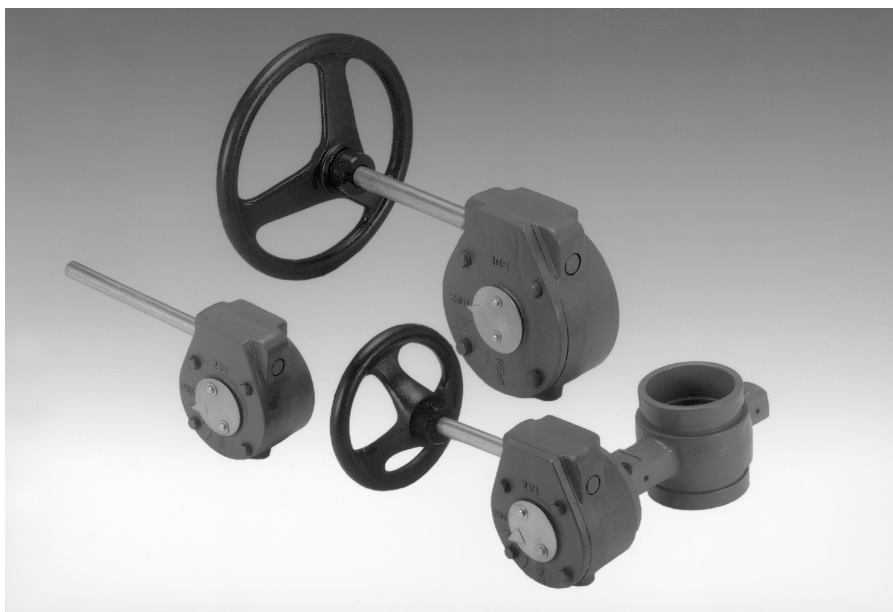


CG Dimension table of one-step valve actuator -H type

model	calibre dia DN	dmax	d	b	t	FG	FD	n-MxL	A	B	C	E	F	W optional	R optional
CG24	50~80	26	12.7	3.18	14.3	108	50	4-M6x10	248	45	128	38	64	105	194
	100		15.9		18.3		70	4-M8x13							
	125~150		19.05	4.49	21.4				296					250	242
CG30	200	30	22.2	4.76	24.5	154	102	4-M10x15	369	63	176	44.5	75	250	292
	250	45	28.6	6.35	31.8				292					300	215
CG50	300~350	45	31.8	6.35	35	140	102	4-M10x15	407	78	190	44.5	75	300	327
CG80	400	54	33.3	7.93	36.5	197	140	4-M16x24	470	120	260	55	98	300	345
	450		38.1		41.5				507					400	382

VALVE ACTUATOR *CGA-Inches*

CGA one-step valve actuator-H type



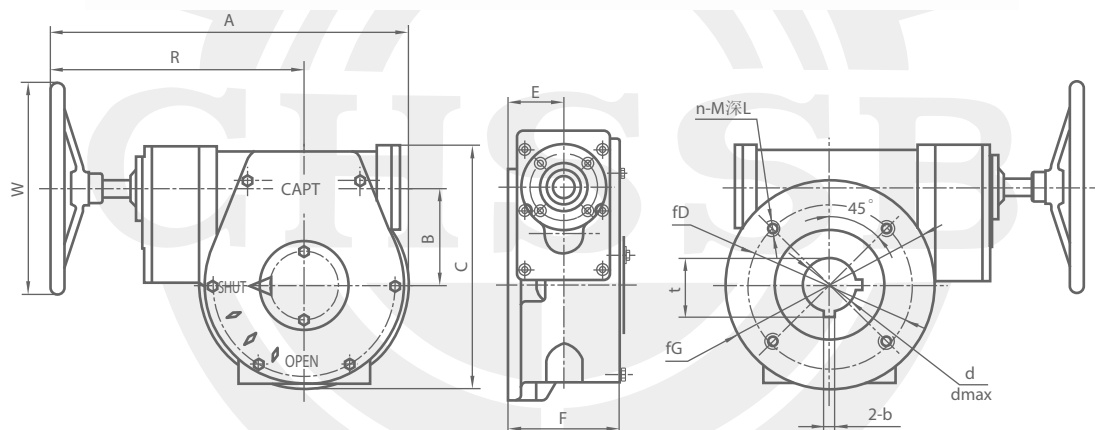
CGA Dimension table of one-step valve actuator -H type

model	calibre dia DN	dmax	d	b	t	FG	FD	n-MxL	A	B	C	E	F	W optional	R optional
CGA24	2"~3"	1.02	0.50	0.13	0.56	4.25	2.0	4-1/4-20UNCx0.40	9.76	1.77	5.04	1.50	2.52	6	7.64
	14"		0.63		0.72		2.75	4-5/16-18UNCx0.5						10	9.53
	5"~6"		0.75		0.84				11.65						
CGA30	8"	1.18	0.87	0.19	0.96	6.06	4.0	4-3/8-16UNCx0.60	14.53	2.48	6.93	1.75	2.95	10	11.50
	10"	1.77	1.13	0.25	1.25				11.50					12	8.46
CGA50	12"~14"	1.77	1.25	0.25	1.38	5.51	4.0	4-3/8-16UNCx0.60	16.02	3.07	7.48	.75	2.95	12	12.87
CGA80	16"	2.13	1.31	0.31	1.44	7.76	5.5	4-5/8-11UNCx0.94	18.50	4.72	10.24	2.17	3.84	12	13.58
	18"		1.50		1.63				19.96					16	15.04

VALVE ACTUATOR

CG-Metric

CG multi-steps valve actuator-H type



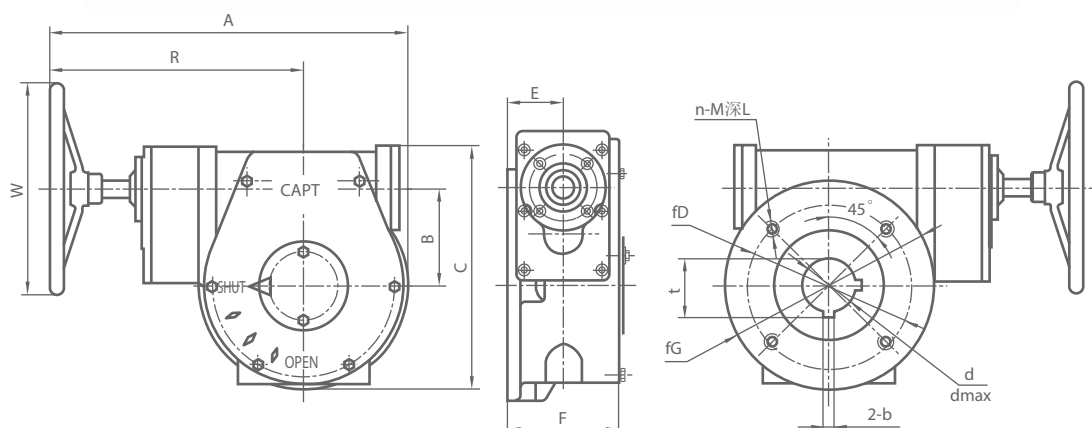
CG Dimension table of multi-steps valve actuator-H type

Model	Calibre Dia.	dmax	d	b	t	fG	fD	n-MxL	A	B	C	E	F	W optional	R optional
CG200	500	54	41.3	10	44.6	197	159	4-M18x27	476	120	313	—	154	300	338
	600		50.8	16	55.1	276	216	4-M20x30							
CG300	500	54	41.3	9.53	45.7	250	140	4-m16X25	585	105	290	60	120	300	460
	600		50.8	12.7	56.3		165	4-m20X30							
CG320	700~800	66	55	4-16	59.3	300	254	8-M16x25	530	140	350	70	142	300	380
CG330	900	100	75	4-20	79.9	300	254	8-M16x25	725	190	484	—	178	800	545
CG410	1050	100	110	4-25.5	121.2	440	298	8-M20x30	806	225	566	—	210	700	579
CG520	1200	100	130	4-32	137.4	540	356	8-M30x45	940	264	686	—	257	800	670

VALVE ACTUATOR

CGA-Inches

CGA multi-steps valve actuator-H type



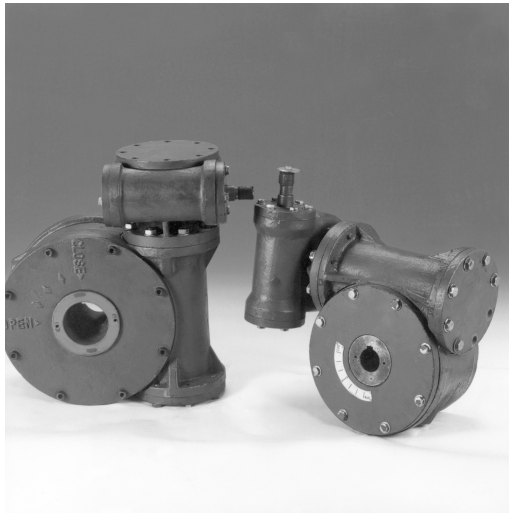
CGA Dimension table of multi-steps valve actuator-H type

Model	Calibre Dia.	dmax	d	b	t	fG	fD	n-MxL	A	B	C	E	F	W optional	R optional
CGA200	20"	2.13	1.63	0.39	1.76	7.76	6.25	4-5/8-11UNCx1.06	18.74	4.72	12.32	—	6.06	12	13.31
	24"		2.00	0.63	2.17	10.87	8.50	4-3/4-10UNCx1.18							
CGA300	20"	2.13	1.63	0.38	1.80	9.84	5.50	4-5/8-11UNCx0.98	23.03	4.13	11.42	2.36	4.72	12	18.11
	24"		2.00	0.50	2.22		6.50	4-3/4-10UNCx1.18							
CGA320	28"~32"	2.60	2.17	4-0.63	2.33	11.81	10	8-5/8-11UNCx0.98	20.87	5.51	13.78	2.76	5.59	12	14.96
CGA330	36"	3.94	2.95	4-0.79	3.15	11.81	10	8-5/8-11UNCx0.98	28.54	7.48	19.06	—	7.01	32	21.46
CGA410	42"	3.94	4.33	4-1.0	4.77	17.32	11.75	8-3/4-10UNCx1.18	31.73	8.86	22.28	—	8.27	28	22.80
CGA520	48"	3.94	5.12	4-1.26	5.41	21.26	14	8-1-8UNCx1.77	37.01	10.39	27.01	—	10.12	32	26.38

VALVE ACTUATOR

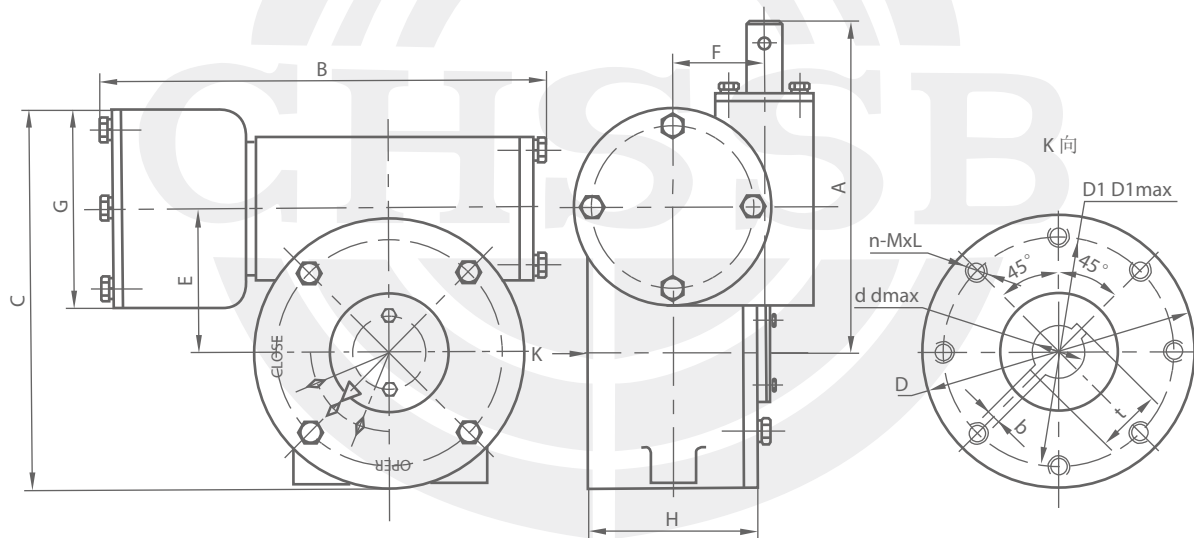
CG-Metric

CG two-steps valve actuator-V type



CG two-steps valve actuator-V type

model	CG350	CG120
gear ratio	352:1	416:1
max travel	$90^{\circ} \pm 5^{\circ}$	$90^{\circ} \pm 5^{\circ}$
rated input N.m	120	130
rated output N.m	7.1	7.39
efficiency %	42	55
weight kg	42	55
max stem dia mm	54	54

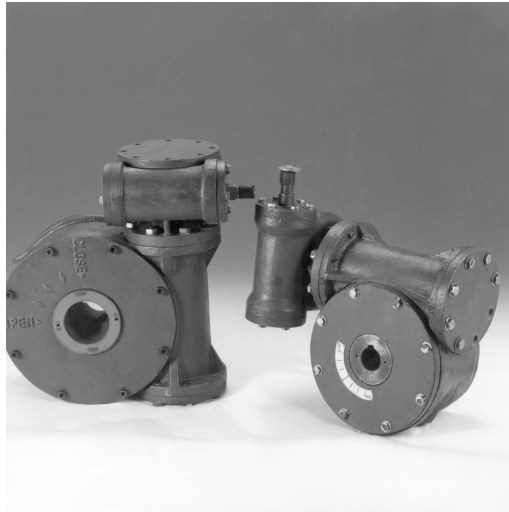


CG Dimension table of two-step valve actuator -V type

model	calibre dia DN	dmax	d	b	t	D	D1	S1max	n-MxL	A	B	C	E	F	G	H
CG350	450~500	54	41.3	9.53	46	230	158.75	165	4-M18x26	290	339	295	110	63	140	130
							165		4-M20x26							
CG420	600	54	50.8	12.7	56.8	255	165	216	8-M20x26	296	348	323	125	63	140	130
							215.9									

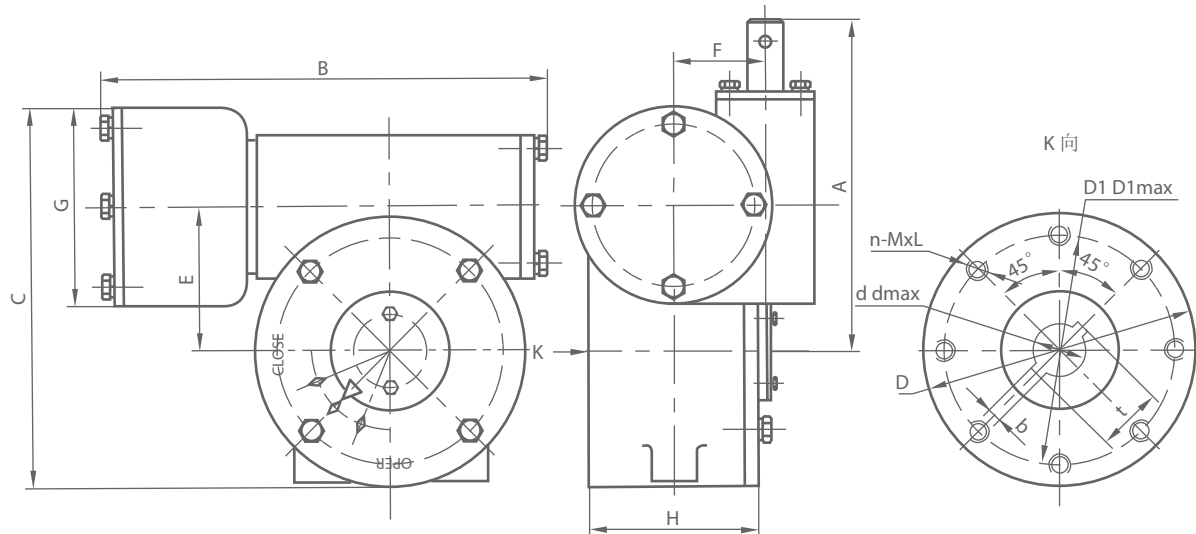
VALVE ACTUATOR *CGA-Inches*

CGA two-steps valve worm gear operator-V type



CGA two-steps valve worm gear operator-V type

model	CGA350	CGA120
gear ratio	352:1	416:1
max travel	$90^{\circ} \pm 5^{\circ}$	$90^{\circ} \pm 5^{\circ}$
rated input in.lb	1062	1150.5
rated output in.lb	26550	35400
efficiency %	7.1	7.39
weight lb	93	121
max stem dia in	2.13	2.13



CGA Dimension table of two-step valve actuator -V type

model	calibre dia DN	dmax	d	b	t	D	D1	S1max	n-MxL	A	B	C	E	F	G	H
CGA350	18"~20"	2.13	1.63	0.38	1.81	9.06	6.25	6.50	4-5/8-11UNCx1.02	11.42	13.35	11.61	4.33	2.48	5.51	5.12
							6.50		4-3/4-10UNCx1.02							
CGA420	24"	2.13	2	0.5	2.24	10.04	6.50	8.50	8-3/4-10UNCx1.02	11.65	13.70	12.72	4.92	2.48	5.51	5.12
							8.5									