



# Bray®

## SERIES 4

TORQUE OUTPUT RANGE:  
2,000 - 24,000 lb-in.

# GEAR OPERATORS

STAINLESS STEEL FOR SANITARY & CORROSIVE APPLICATIONS

Bray Controls proudly offers the Series 4 Stainless Steel Gear Operator for manual operation of quarter turn valves. The Series 4 is designed with stainless steel housings, input shafts and hand wheels, for service in highly corrosive environments, sanitary, breweries and pharmaceutical applications. The units are suitable for on-off and throttling service.

Series 4 Stainless Steel Gear Operator units have different gear ratios – providing a torque output range of 2,000 to 24,000 lb-in. The temperature range is -4°F (-20°C) to 250°F (120°C).

**FEATURES** These weatherproof gear operators meet NEMA 4, 4x and IP65 specifications. A self-locking worm and worm gear drive holds the valve in the desired position. All units are permanently lubricated at the factory for smooth, trouble free operation. External mechanical travel stops permit adjustment of valve movement to specific degrees of rotation. Additional features include a readily accessible handwheel and a valve position indicator.

# TECHNICAL DATA

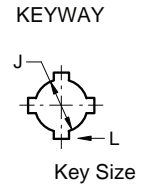
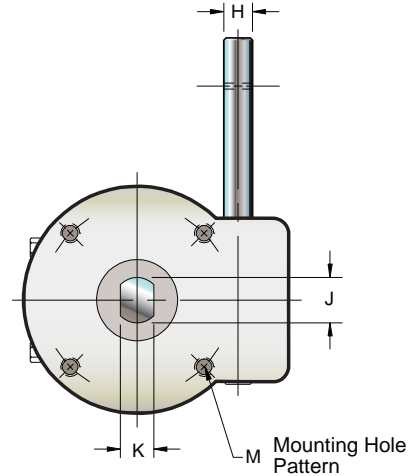
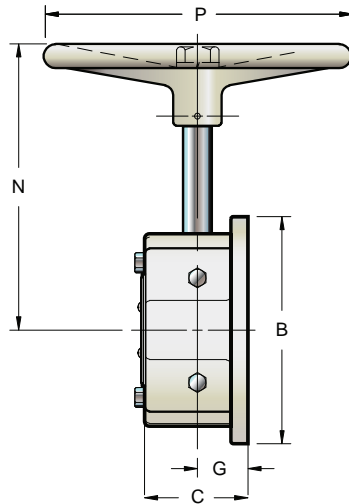
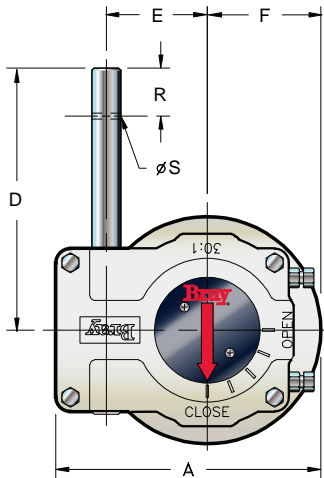
## PERFORMANCE SPECIFICATIONS

- **Enclosure:** Stainless Steel Weatherproof Housing
- **Temperature Range:** -4°F (-20°C) to 250°F (120°C)
- **Stainless Steel** input stem
- **Rugged construction**

## MATERIALS OF CONSTRUCTION

Body: ..... Stainless Steel  
 Travel Stop: ..... Stainless Steel  
 Position Indicator: .. Stainless Steel  
 Body Seal: ..... \*FKM O-Ring  
 Stem: ..... Stainless Steel

Bushing: ..... Teflon  
 Handwheel: ..... Stainless Steel  
 Worm: ..... Carbon Steel  
 Gear Segment: ..... Bronze



Unit Size	Ratio	Torque Output lb. in. [Nm]	DIMENSIONS SERIES 4 Stainless Steel Gear Operator - Inches [mm]																					
			A	B	C	D	E	F	G	H	J	K	L	Mounting Holes Pattern				Weight lb. [Kg]	N		P		R	S
														BC	No Holes	Threads UNC 28	Depth		STD	OPT	STD	OPT		
0200	20:1	2,000 [226]	4.53 [115]	3.50 [90]	2.56 [65]	4.72 [120]	1.62 [41]	1.75 [45]	1.44 [37]	.63 [16]	0.75 [19]	.51 [13]	-	2.76 [70]	4	.31-18 [M8x1.25]	.50 [13]	9.8 [4.5]	5.34 [136]	-	8 [203]	-	1.25 [32]	.156 [4]
0300	30:1	8,000 [904]	6.89 [175]	5.91 [150]	2.50 [64]	6.87 [175]	2.62 [67]	2.95 [75]	1.25 [32]	.75 [19]	**1.18 [30]	.87 [22]	-	4.92 [125]	4	.50-13 [M8x1.25]	.63 [16]	15.8 [7.2]	7.50 [191]	7.69 [195]	8 [203]	12 [305]	1.25 [32]	.156 [4]
0300	30:1	8,000 [904]	6.89 [175]	5.91 [150]	2.50 [64]	6.87 [175]	2.62 [67]	2.95 [75]	1.25 [32]	.75 [19]	**1.38 [35]	-	.39X.39 [10x10]	4.92 [125]	4	.50-13 [M12x1.75]	.63 [16]	15.8 [7.2]	7.50 [191]	7.69 [195]	8 [203]	12 [305]	1.25 [32]	.156 [4]
0500	50:1	13,000 [1469]	7.53 [191]	5.91 [150]	3.28 [83]	11.00 [279]	3.12 [79]	2.95 [75]	1.69 [43]	.75 [19]	1.38 [35]	-	.39X.39 [10x10]	4.92 [125]	4	.50-13 [M12x1.75]	.75 [19]	29.0 [13.2]	11.81 [300]	-	12 [305]	-	1.62 [41]	.188 [5]
0800	80:1	24,000 [2710]	10.51 [267]	8.27 [210]	4.39 [112]	14.00 [356]	4.56 [116]	4.14 [105]	2.38 [60]	1.00 [25]	**1.97 [50]	-	.47X.39 [12x10]	6.50 [165]	4	.75-10 [M20x2.5]	1.00 [25]	62.5 [28.4]	14.81 [376]	14.88 [378]	12 [305]	18 [305]	1.62 [41]	.188 [5]
0800	80:1	24,000 [2710]	10.51 [267]	8.27 [210]	4.39 [112]	14.00 [356]	4.56 [116]	4.14 [105]	2.38 [60]	1.00 [25]	**2.50 [64]	-	.62X.62 [16x16]	6.50 [165]	4	.75-10 [M20x2.5]	1.00 [25]	69.8 [31.7]	14.88 [376]	-	18 [305]	-	1.50 [38]	.250 [6]

\* FKM is the ASTM D1418 designation for Fluorinated Hydrocarbon.

\*\* Size 0300 has a double D and a keyway connection  
 Size 0800 has 2 keyway size variations



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