Dodge MagnaGear Gear Reducers: Shaft Dimensional Requirements for Shaft Mounted Applications

All MagnaGear reducers that are shaft mounted can use twin tapered bushings, moment couplings, or shrink disks (on some sizes) to attach it to a customer's shaft. The shaft that the MagnaGear is installed on must be designed and machined properly so that the gearbox will fit and be concentric to the shaft. This includes the diameter, keyway width, keyway depth, and the length of the diameter and keyway. Improper design or machining of these features will cause the reducer/moment coupling not to go on the shaft when mounting, have excessive movement of the reducer when running, or will make it hard to remove the inboard bushing of tapered bore reducers.

Shaft requirements are listed in MagnaGear catalogs and manuals, but this white paper will put tolerances and dimensions to these requirements that are easier to measure when the shaft is being produced. Most of thesetolerances are in line with commercial shaft tolerance, AGMA, and/or ISO tolerances.

Each MagnaGear reducer (up to G920) will be listed with all the appropriate bushing sizes/shrink disks/moment couplings for each reducer. This will be for all ratios and variations of the reducers (mainly for right angle reducers).

It will start with hollow bore reducers on standard shafts, move on to hollow bore reducers on metric shafts, and then finish with solid output reducers on standard shafts. See the table of contents on the next pages to help find the gearbox and shaft connection that you are looking for.

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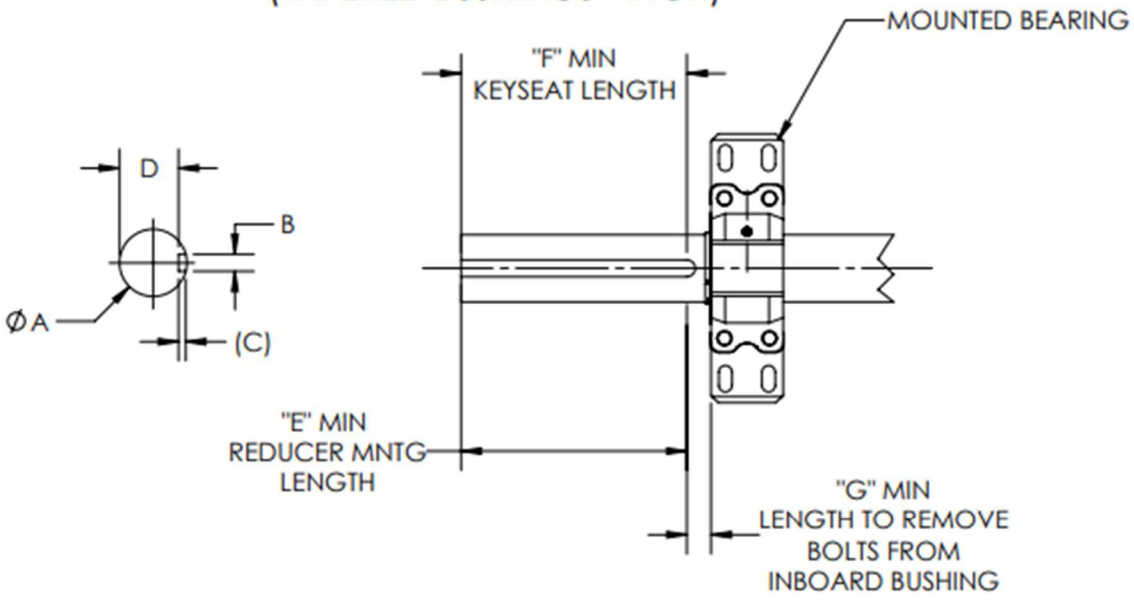
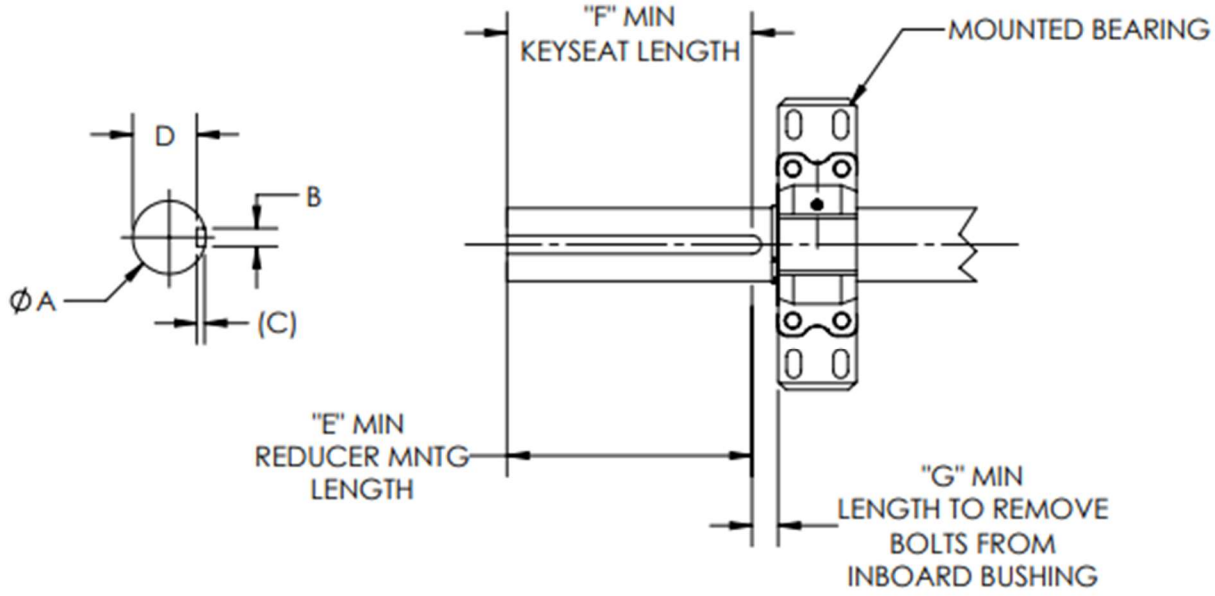
REQUIREMENTS TO MOUNT G100 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)



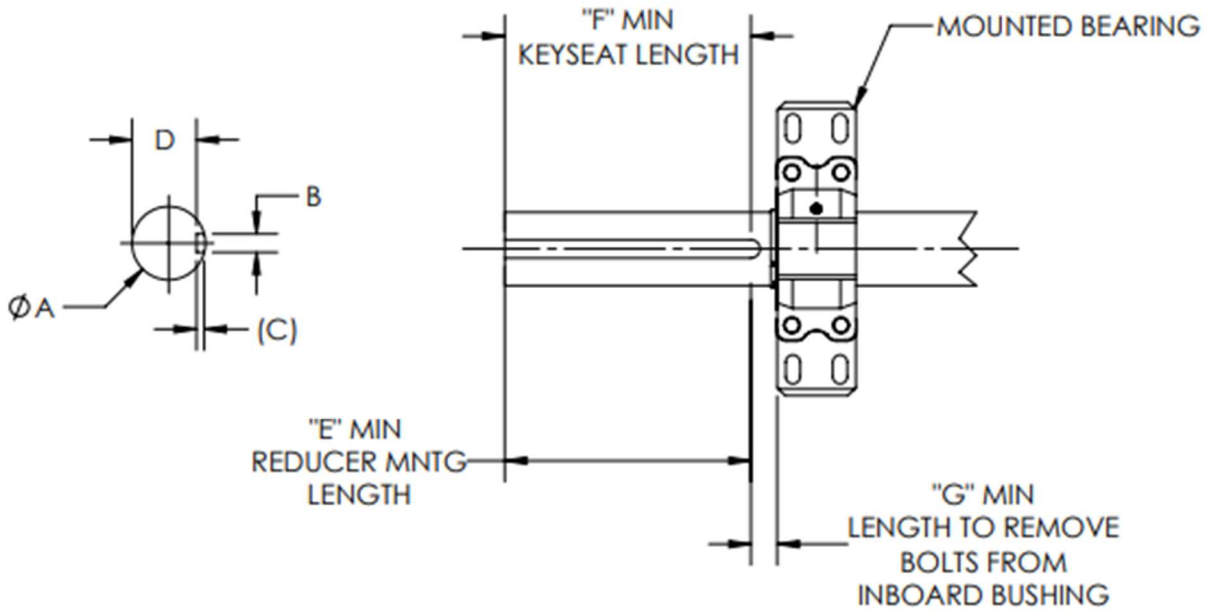
G100 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
3-7/16	$3.4375^{+0.000}_{-0.004}$	$0.875^{+0.003}_{-0.000}$	7/16	$2.943^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	1.81"
3-3/16	$3.1875^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.767^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
3	$3.000^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.577^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-15/16	$2.9375^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.513^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-7/8	$2.875^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.450^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-11/16	$2.6875^{+0.000}_{-0.004}$	$0.625^{+0.003}_{-0.000}$	5/16	$2.338^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-1/2	$2.500^{+0.000}_{-0.003}$	$0.625^{+0.003}_{-0.000}$	5/16	$2.147^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-7/16	$2.4375^{+0.000}_{-0.003}$	$0.625^{+0.003}_{-0.000}$	5/16	$2.084^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-3/8	$2.375^{+0.000}_{-0.003}$	$0.625^{+0.003}_{-0.000}$	5/16	$2.020^{+0.000}_{-0.006}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-1/4	$2.250^{+0.000}_{-0.003}$	$0.500^{+0.002}_{-0.000}$	1/4	$1.971^{+0.000}_{-0.005}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	
2-3/16	$2.1875^{+0.000}_{-0.003}$	$0.500^{+0.002}_{-0.000}$	1/4	$1.908^{+0.000}_{-0.005}$	STANDARD SHAFT: 17.51" SHORT SHAFT: 13.00"	STANDARD SHAFT: 17.13" SHORT SHAFT: 13.00"	

REQUIREMENTS TO MOUNT G150 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)



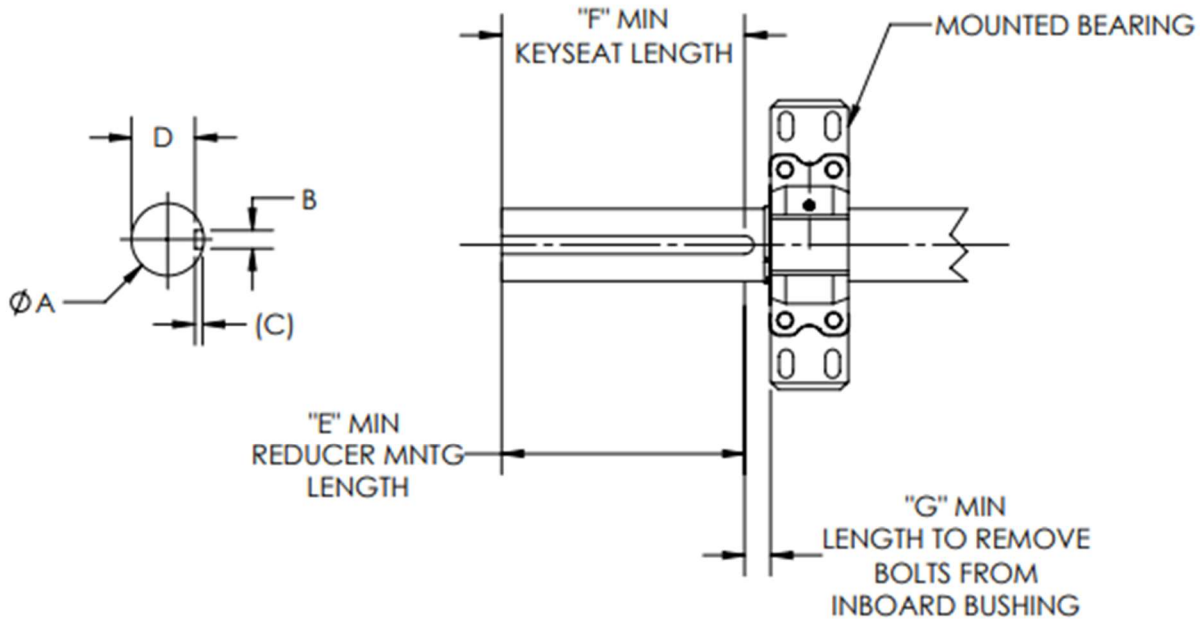
G150 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
4-7/16	$4.4375^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.880^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	2.06"
4-3/16	$4.1875^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.626^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	
3-15/16	$3.9375^{+0.000}_{-0.004}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.372^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	
3-7/16	$3.4375^{+0.000}_{-0.004}$	$0.875^{+0.003}_{-0.000}$	7/16	$2.943^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	
3-3/16	$3.1875^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.767^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	
3	$3.000^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.577^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	
2-15/16	$2.9375^{+0.000}_{-0.004}$	$0.750^{+0.003}_{-0.000}$	3/8	$2.513^{+0.000}_{-0.006}$	STANDARD SHAFT: 19.17" SHORT SHAFT: 14.28"	STANDARD SHAFT: 19.00" SHORT SHAFT: 14.28"	

REQUIREMENTS TO MOUNT G210 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)



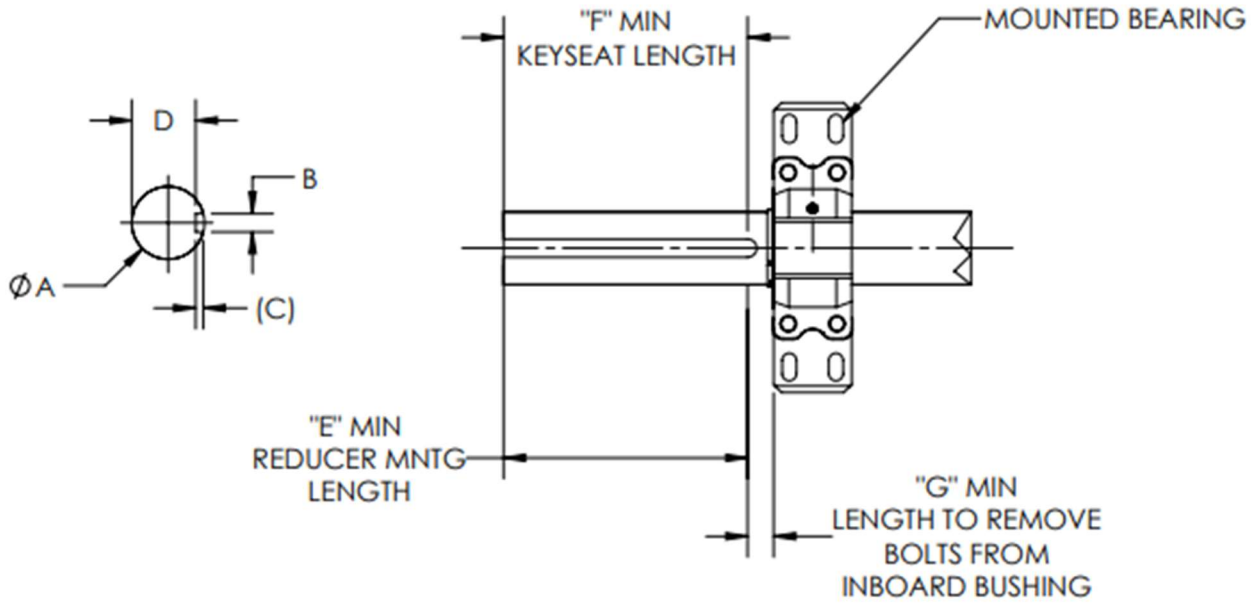
G210 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
4-15/16	$4.9375^{+0.000}_{-0.005}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.007}$	STANDARD SHAFT: 20.78" SHORT SHAFT: 15.44"	STANDARD SHAFT: 20.63" SHORT SHAFT: 15.44"	2.39"
4-7/16	$4.4375^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.880^{+0.000}_{-0.006}$	STANDARD SHAFT: 20.78" SHORT SHAFT: 15.44"	STANDARD SHAFT: 20.63" SHORT SHAFT: 15.44"	
4-3/16	$4.1875^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.626^{+0.000}_{-0.006}$	STANDARD SHAFT: 20.78" SHORT SHAFT: 15.44"	STANDARD SHAFT: 20.63" SHORT SHAFT: 15.44"	
3-15/16	$3.9375^{+0.000}_{-0.004}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.372^{+0.000}_{-0.006}$	STANDARD SHAFT: 20.78" SHORT SHAFT: 15.44"	STANDARD SHAFT: 20.63" SHORT SHAFT: 15.44"	
3-7/16	$3.4375^{+0.000}_{-0.004}$	$0.875^{+0.003}_{-0.000}$	7/16	$2.943^{+0.000}_{-0.006}$	STANDARD SHAFT: 20.78" SHORT SHAFT: 15.44"	STANDARD SHAFT: 20.63" SHORT SHAFT: 15.44"	

REQUIREMENTS TO MOUNT G285 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)



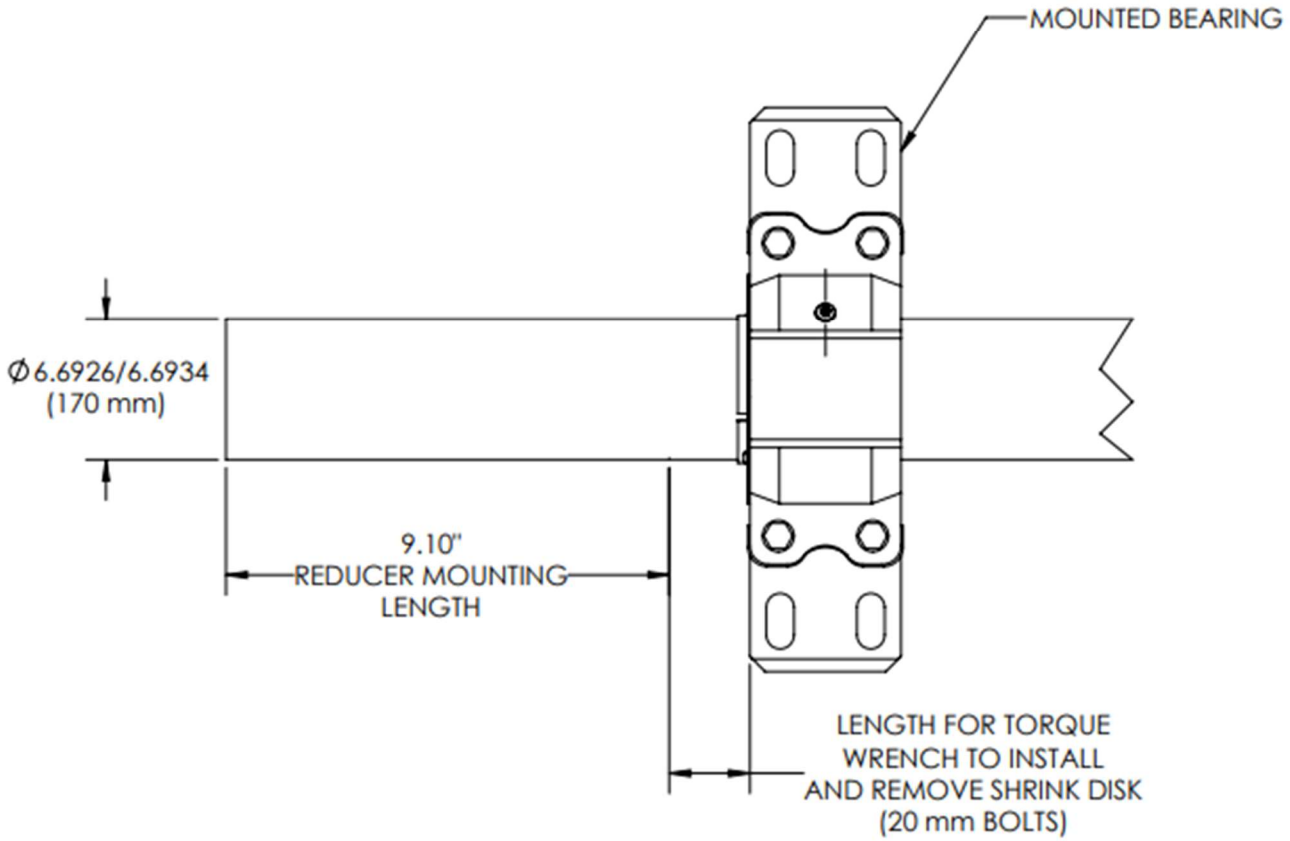
G285 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
6	$6.000^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.007}$	STANDARD SHAFT: 22.10" SHORT SHAFT: N/A	STANDARD SHAFT: 21.88" SHORT SHAFT: N/A	2.39"
5-15/16	$5.9375^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.091^{+0.000}_{-0.007}$	STANDARD SHAFT: 22.10" SHORT SHAFT: N/A	STANDARD SHAFT: 21.88" SHORT SHAFT: N/A	
5-7/16	$5.4375^{+0.000}_{-0.005}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.007}$	STANDARD SHAFT: 22.10" SHORT SHAFT: 16.09"	STANDARD SHAFT: 21.88" SHORT SHAFT: 16.09"	
4-15/16	$4.9375^{+0.000}_{-0.005}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.007}$	STANDARD SHAFT: 22.10" SHORT SHAFT: 16.09"	STANDARD SHAFT: 21.88" SHORT SHAFT: 16.09"	
4-7/16	$4.4375^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.880^{+0.000}_{-0.006}$	STANDARD SHAFT: 22.10" SHORT SHAFT: 16.09"	STANDARD SHAFT: 21.88" SHORT SHAFT: 16.09"	
4-3/16	$4.1875^{+0.000}_{-0.005}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.626^{+0.000}_{-0.006}$	STANDARD SHAFT: 22.10" SHORT SHAFT: 16.09"	STANDARD SHAFT: 21.88" SHORT SHAFT: 16.09"	
3-15/16	$3.9375^{+0.000}_{-0.004}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.372^{+0.000}_{-0.006}$	STANDARD SHAFT: 22.10" SHORT SHAFT: 16.09"	STANDARD SHAFT: 21.88" SHORT SHAFT: 16.09"	

REQUIREMENTS TO MOUNT G390 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)

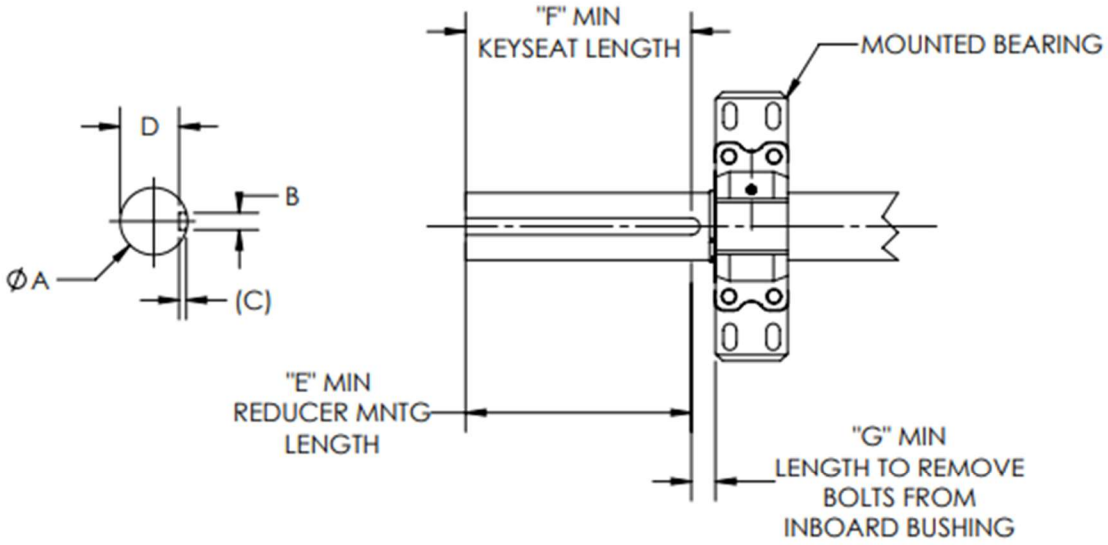


G390 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
7	$7.000^{+0.000}_{-0.006}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.008}$	STANDARD SHAFT: 23.50" SHORT SHAFT: N/A	STANDARD SHAFT: 23.50" SHORT SHAFT: N/A	2.39"
6-1/2	$6.500^{+0.000}_{-0.006}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.662^{+0.000}_{-0.008}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	
6-7/16	$6.4375^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.598^{+0.000}_{-0.007}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	
6	$6.000^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.007}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	
5-15/16	$5.9375^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.091^{+0.000}_{-0.007}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	
5-7/16	$5.4375^{+0.000}_{-0.005}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.007}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	
4-15/16	$4.9375^{+0.000}_{-0.005}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.007}$	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	STANDARD SHAFT: 23.50" SHORT SHAFT: 16.78"	

REQUIREMENTS TO MOUNT G525 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - INCH DIMENSIONS)

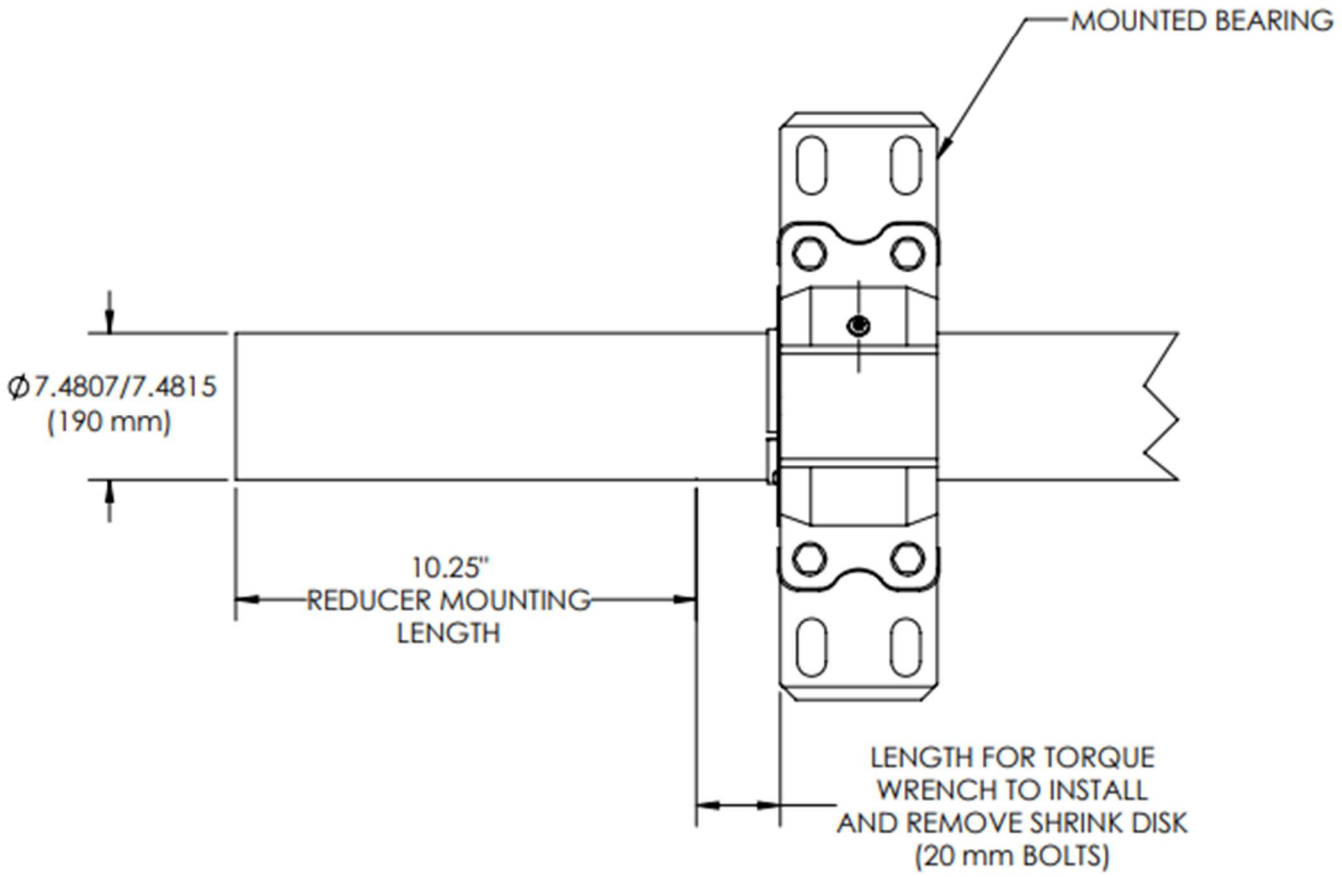


REQUIREMENTS TO MOUNT G600 HOLLOW BORE REDUCER ON SHAFT (TAPERED BUSHINGS - INCH)

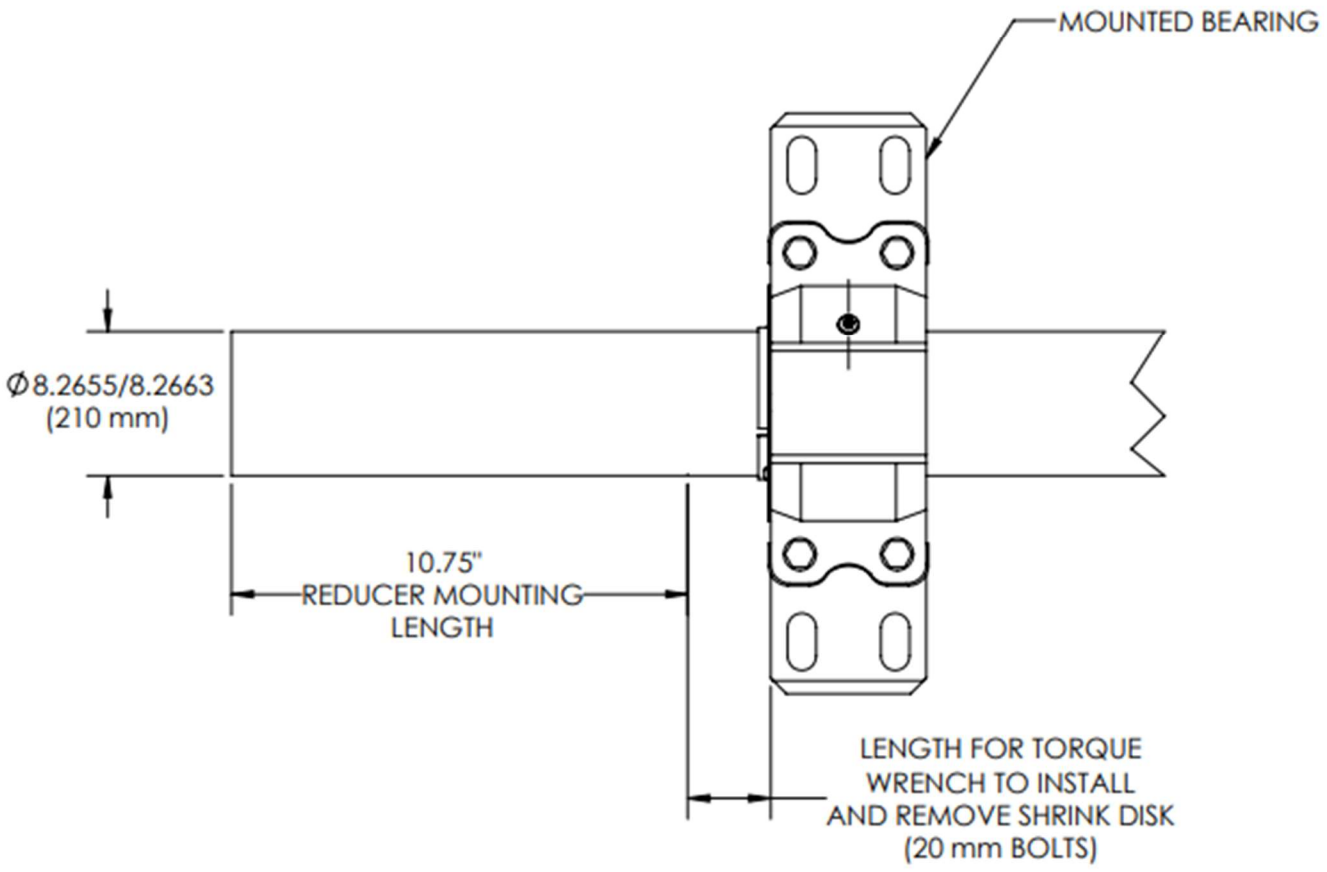


G600 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - INCH)							
SHAFT SIZE	A	B	C	D	E	F	G
8	$8.000^{+0.000}_{-0.006}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.122^{+0.000}_{-0.008}$	27.34"	27.30"	3"
7	$7.000^{+0.000}_{-0.006}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.008}$			
6-1/2	$6.500^{+0.000}_{-0.006}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.662^{+0.000}_{-0.008}$			
6	$6.000^{+0.000}_{-0.005}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.007}$			

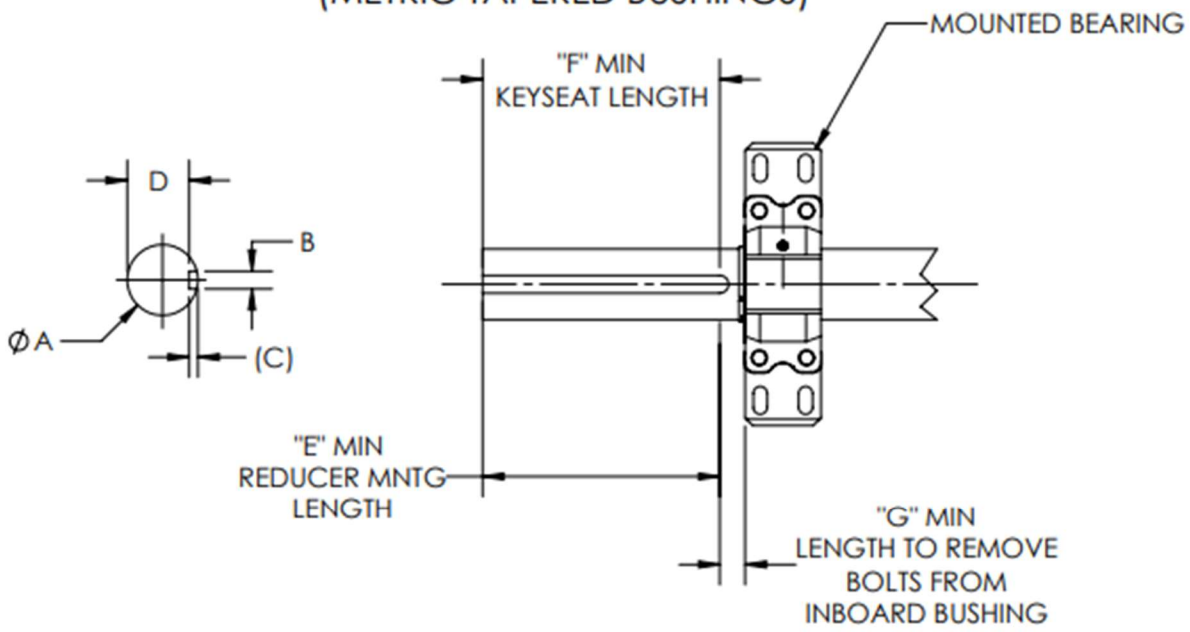
REQUIREMENTS TO MOUNT G700 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - INCH DIMENSIONS)



REQUIREMENTS TO MOUNT G920 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - INCH DIMENSIONS)

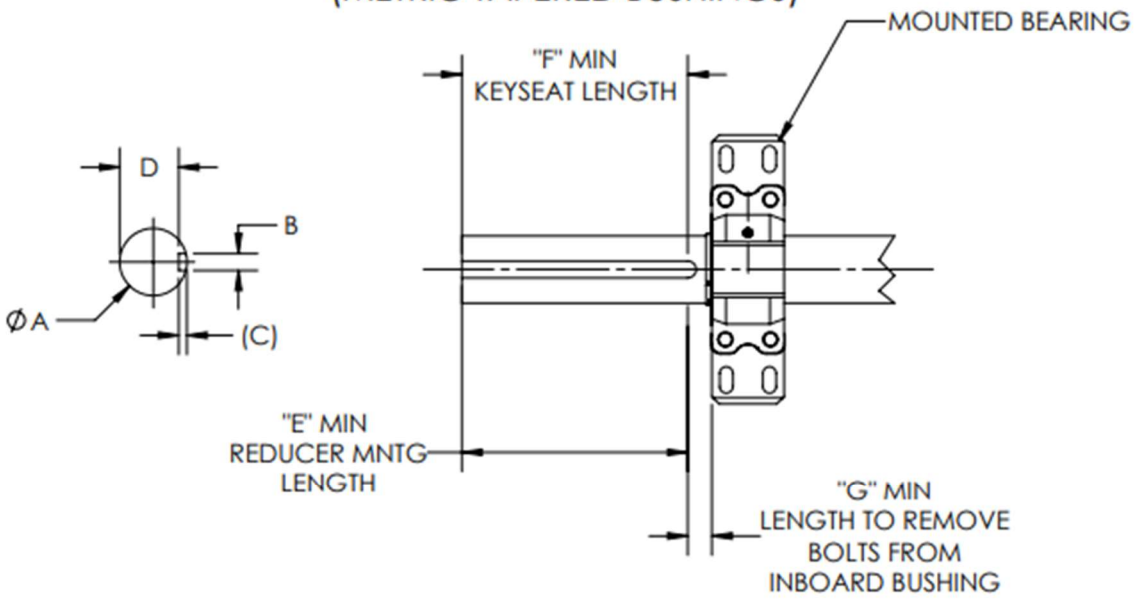


REQUIREMENTS TO MOUNT G100 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)



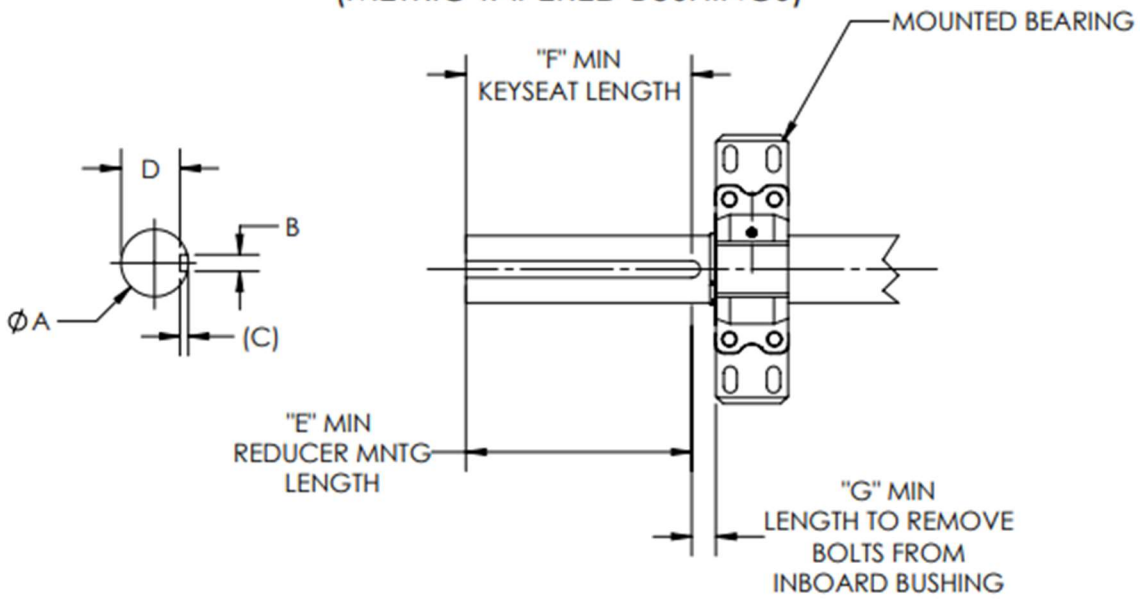
G100 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
90mm	$90\ ^{+0.000}_{-0.100}$	$25\ ^{+0.052}_{-0.000}$	9	$81\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: N/A	STANDARD SHAFT: 435 mm SHORT SHAFT: N/A	46mm
85mm	$85\ ^{+0.000}_{-0.100}$	$22\ ^{+0.052}_{-0.000}$	9	$76\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	
80mm	$80\ ^{+0.000}_{-0.100}$	$22\ ^{+0.052}_{-0.000}$	9	$71\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	
75mm	$75\ ^{+0.000}_{-0.100}$	$20\ ^{+0.052}_{-0.000}$	7.5	$67.5\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	
70mm	$70\ ^{+0.000}_{-0.100}$	$20\ ^{+0.052}_{-0.000}$	7.5	$62.5\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	
65mm	$65\ ^{+0.000}_{-0.100}$	$18\ ^{+0.043}_{-0.000}$	7	$58\ ^{+0.000}_{-0.150}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	
60mm	$60\ ^{+0.000}_{-0.075}$	$18\ ^{+0.043}_{-0.000}$	7	$53\ ^{+0.000}_{-0.130}$	STANDARD SHAFT: 445 mm SHORT SHAFT: 330mm	STANDARD SHAFT: 435 mm SHORT SHAFT: 330mm	

REQUIREMENTS TO MOUNT G150 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)



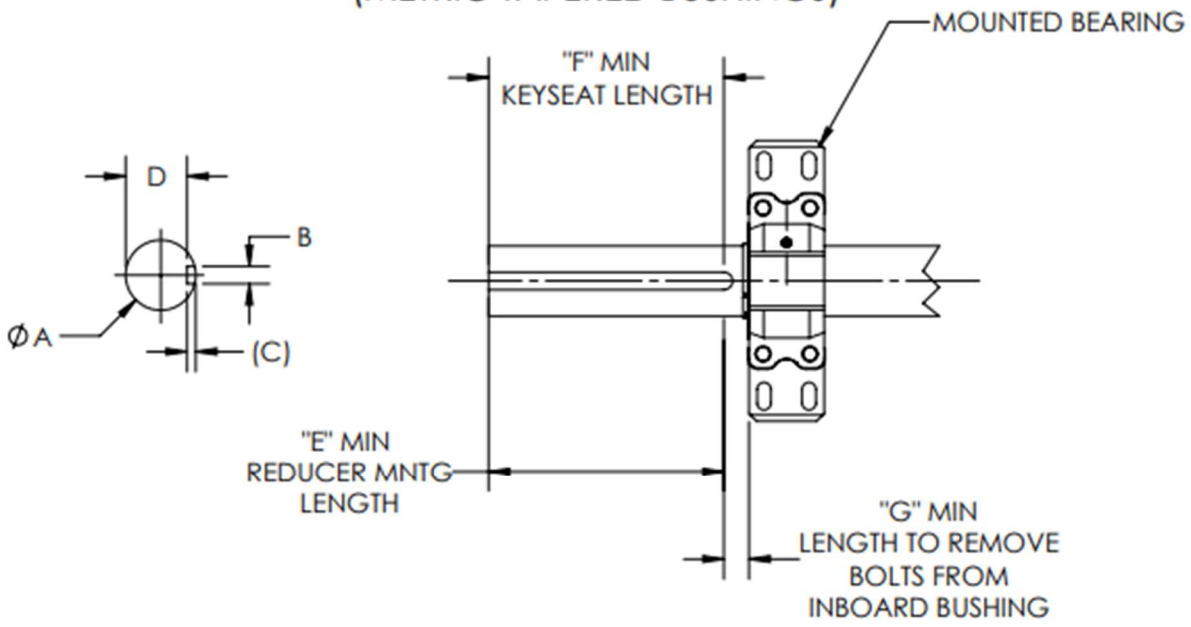
G150 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
120mm	$120^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$109^{+0.000}_{-0.180}$	STANDARD SHAFT: 487 mm SHORT SHAFT: N/A	STANDARD SHAFT: 483 mm SHORT SHAFT: N/A	52mm
110mm	$110^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$100^{+0.000}_{-0.180}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
100mm	$100^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$90^{+0.000}_{-0.180}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
95mm	$95^{+0.000}_{-0.100}$	$25^{+0.052}_{-0.000}$	9	$86^{+0.000}_{-0.150}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
90mm	$90^{+0.000}_{-0.100}$	$25^{+0.052}_{-0.000}$	9	$81^{+0.000}_{-0.150}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
85mm	$85^{+0.000}_{-0.100}$	$22^{+0.052}_{-0.000}$	9	$76^{+0.000}_{-0.150}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
80mm	$80^{+0.000}_{-0.100}$	$22^{+0.052}_{-0.000}$	9	$71^{+0.000}_{-0.150}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	
75mm	$75^{+0.000}_{-0.100}$	$20^{+0.052}_{-0.000}$	7.5	$67.5^{+0.000}_{-0.150}$	STANDARD SHAFT: 487 mm SHORT SHAFT: 363 mm	STANDARD SHAFT: 483 mm SHORT SHAFT: 363 mm	

REQUIREMENTS TO MOUNT G210 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)



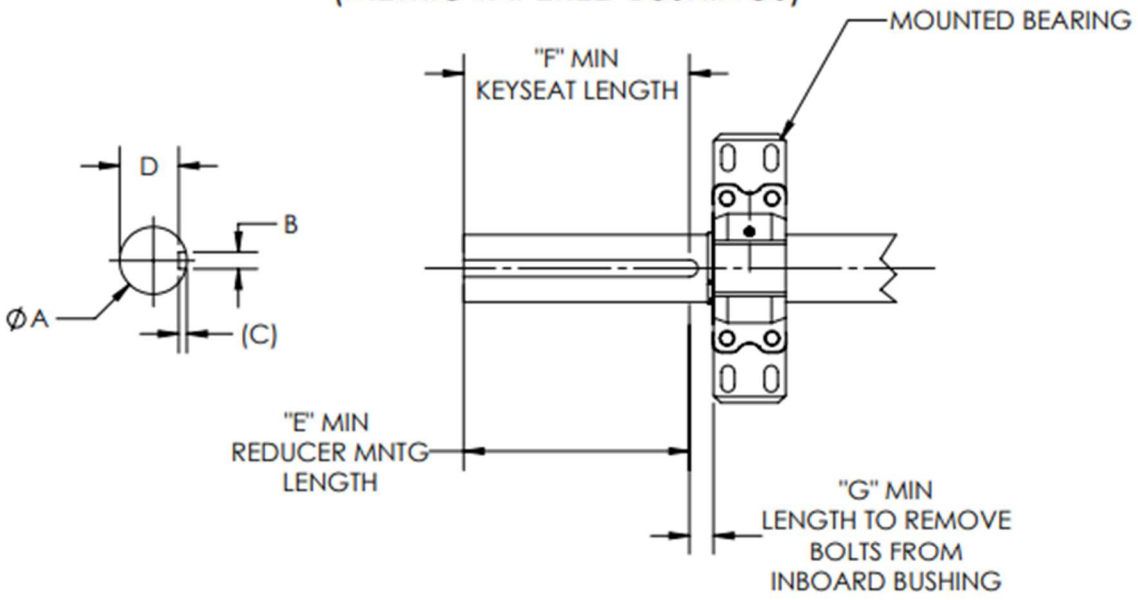
G210 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
130mm	$130^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$119^{+0.000}_{-0.180}$	STANDARD SHAFT: 528 mm SHORT SHAFT: N/A	STANDARD SHAFT: 524 mm SHORT SHAFT: N/A	61mm
125mm	$125^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$114^{+0.000}_{-0.180}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	
120mm	$120^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$109^{+0.000}_{-0.180}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	
110mm	$110^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$100^{+0.000}_{-0.180}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	
100mm	$100^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$90^{+0.000}_{-0.180}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	
95mm	$95^{+0.000}_{-0.100}$	$25^{+0.052}_{-0.000}$	9	$86^{+0.000}_{-0.150}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	
90mm	$90^{+0.000}_{-0.100}$	$25^{+0.052}_{-0.000}$	9	$81^{+0.000}_{-0.150}$	STANDARD SHAFT: 528 mm SHORT SHAFT: 392 mm	STANDARD SHAFT: 524 mm SHORT SHAFT: 392 mm	

REQUIREMENTS TO MOUNT G285 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)



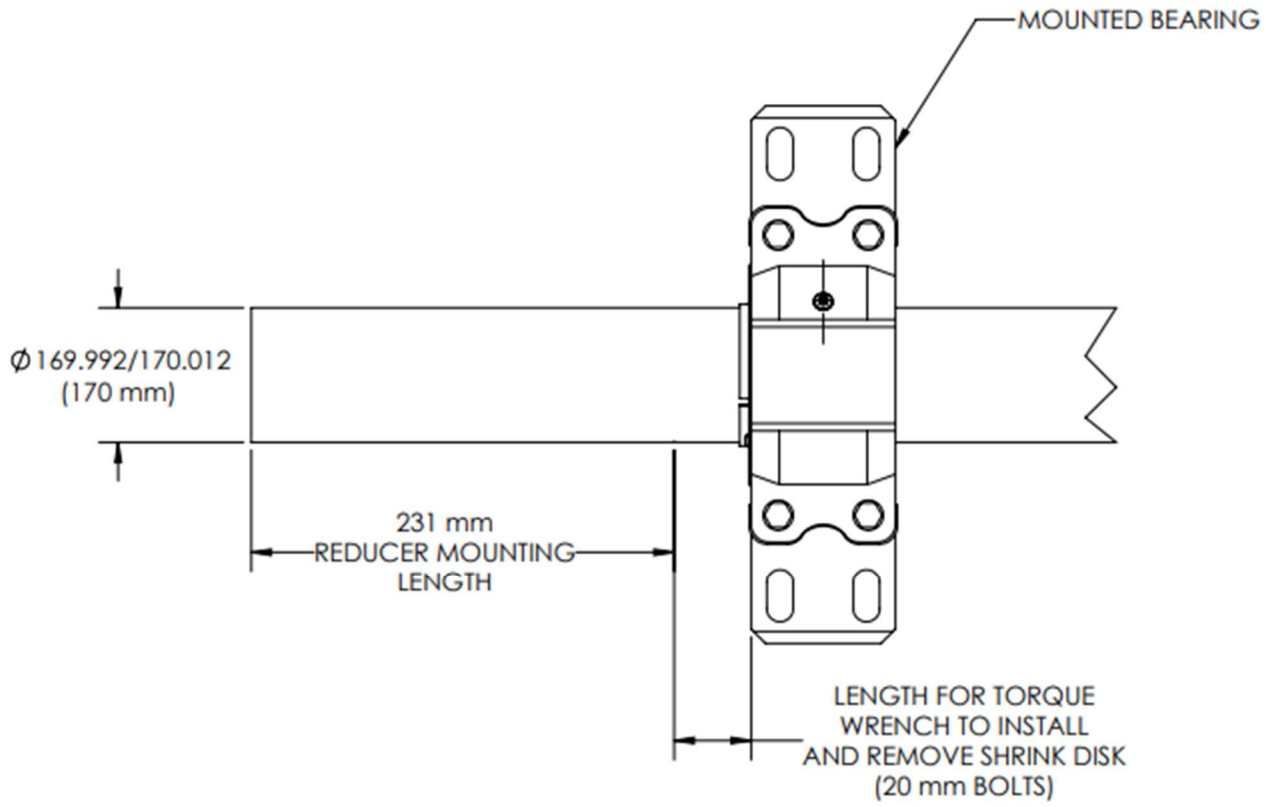
G285 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
150mm	$150^{+0.000}_{-0.150}$	$36^{+0.062}_{-0.000}$	12	$138^{+0.000}_{-0.200}$	STANDARD SHAFT: 561 mm SHORT SHAFT: N/A	STANDARD SHAFT: 556 mm SHORT SHAFT: N/A	61mm
130mm	$130^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$119^{+0.000}_{-0.180}$	STANDARD SHAFT: 561 mm SHORT SHAFT: 409 mm	STANDARD SHAFT: 556 mm SHORT SHAFT: 409 mm	
125mm	$125^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$114^{+0.000}_{-0.180}$	STANDARD SHAFT: 561 mm SHORT SHAFT: 409 mm	STANDARD SHAFT: 556 mm SHORT SHAFT: 409 mm	
120mm	$120^{+0.000}_{-0.130}$	$32^{+0.062}_{-0.000}$	11	$109^{+0.000}_{-0.180}$	STANDARD SHAFT: 561 mm SHORT SHAFT: 409 mm	STANDARD SHAFT: 556 mm SHORT SHAFT: 409 mm	
110mm	$110^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$100^{+0.000}_{-0.180}$	STANDARD SHAFT: 561 mm SHORT SHAFT: 409 mm	STANDARD SHAFT: 556 mm SHORT SHAFT: 409 mm	
100mm	$100^{+0.000}_{-0.130}$	$28^{+0.052}_{-0.000}$	10	$90^{+0.000}_{-0.180}$	STANDARD SHAFT: 561 mm SHORT SHAFT: 409 mm	STANDARD SHAFT: 556 mm SHORT SHAFT: 409 mm	

REQUIREMENTS TO MOUNT G390 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)

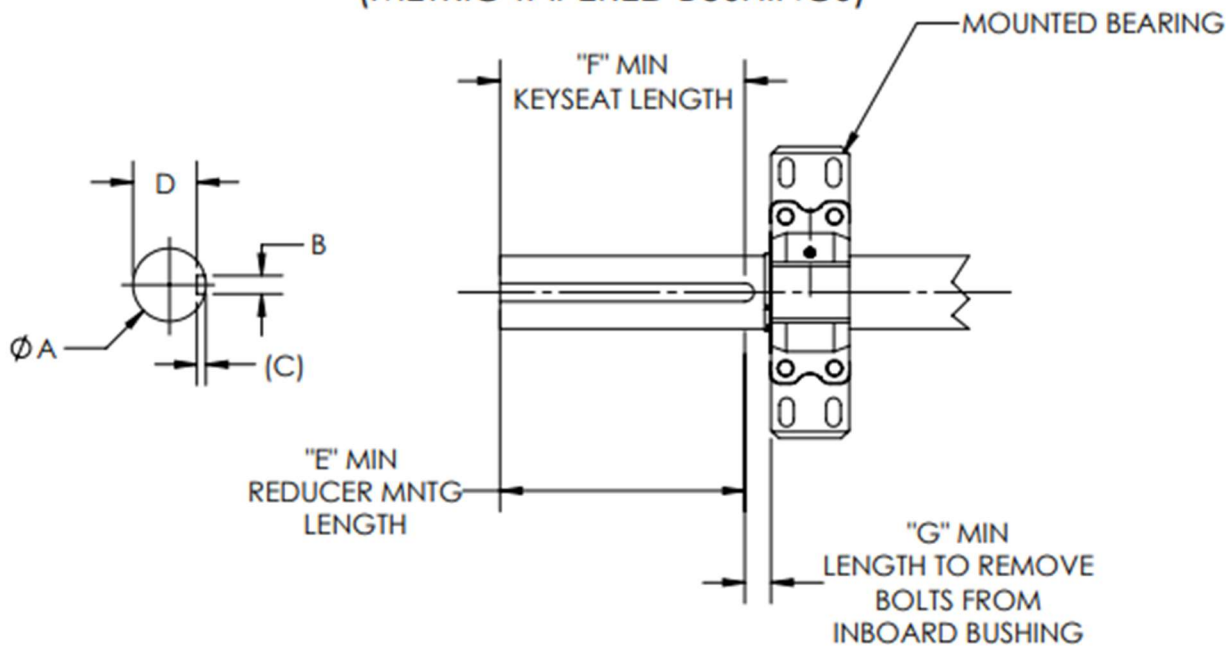


G390 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
160mm	$160\ ^{+0.000}_{-0.150}$	$40\ ^{+0.062}_{-0.000}$	13	$147\ ^{+0.000}_{-0.200}$	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	61mm
150mm	$150\ ^{+0.000}_{-0.150}$	$36\ ^{+0.062}_{-0.000}$	12	$138\ ^{+0.000}_{-0.200}$	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	
130mm	$130\ ^{+0.000}_{-0.130}$	$32\ ^{+0.062}_{-0.000}$	11	$119\ ^{+0.000}_{-0.180}$	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	
125mm	$125\ ^{+0.000}_{-0.130}$	$32\ ^{+0.062}_{-0.000}$	11	$114\ ^{+0.000}_{-0.180}$	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	STANDARD SHAFT: 597 mm SHORT SHAFT: 426 mm	

REQUIREMENTS TO MOUNT G525 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - METRIC DIMENSIONS)

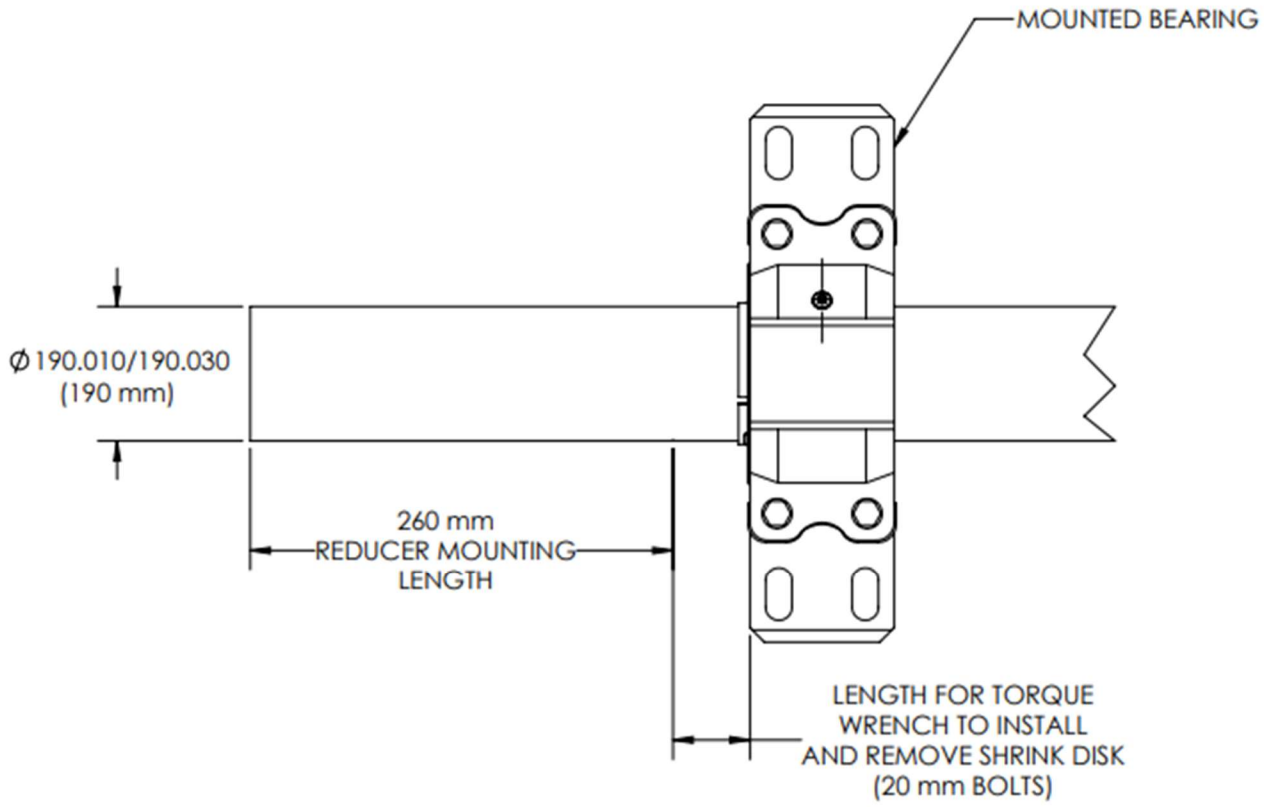


REQUIREMENTS TO MOUNT G600 HOLLOW BORE REDUCER ON SHAFT (METRIC TAPERED BUSHINGS)

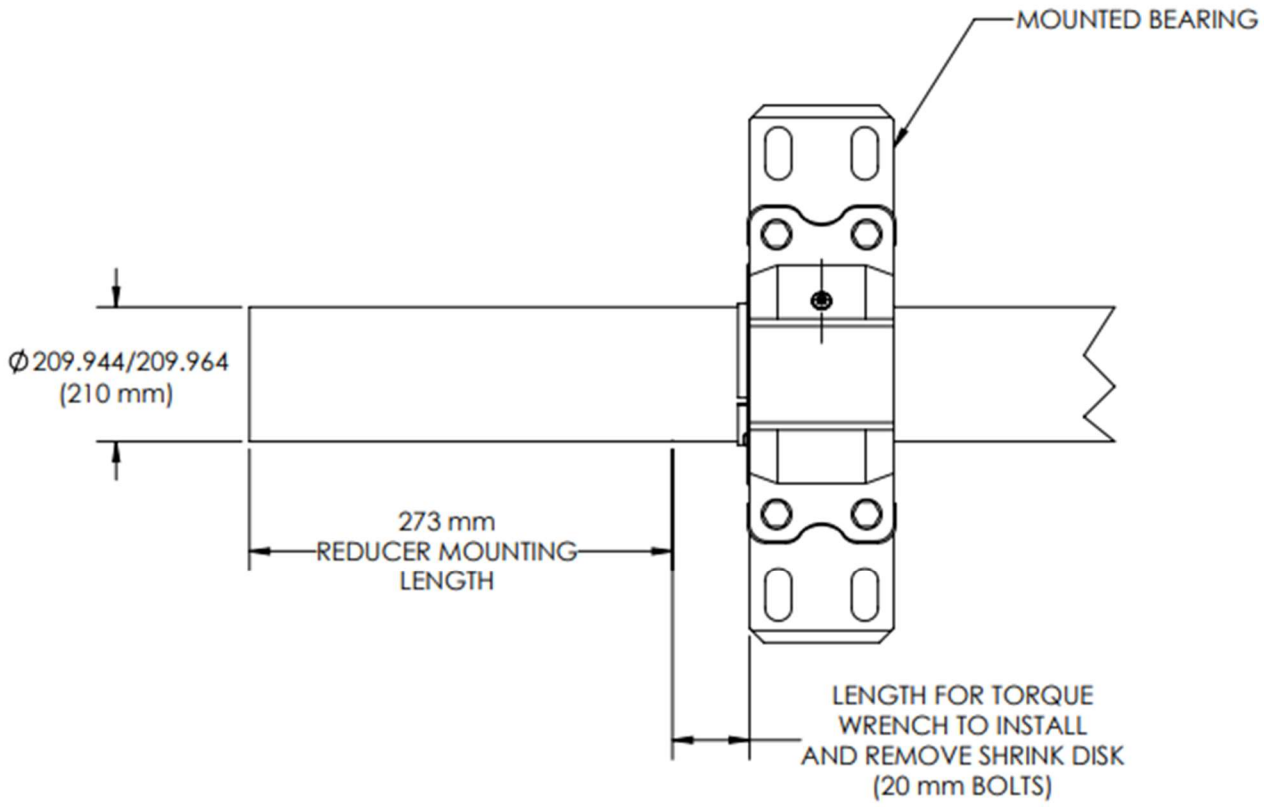


G600 HOLLOW BORE REDUCER REQUIREMENTS (TAPERED BUSHINGS - METRIC)							
SHAFT SIZE	A	B	C	D	E	F	G
200mm	$200^{+0.000}_{-0.150}$	$45^{+0.062}_{-0.000}$	15	$185^{+0.000}_{-0.200}$	694mm	693mm	76mm
190mm	$190^{+0.000}_{-0.150}$	$45^{+0.062}_{-0.000}$	15	$175^{+0.000}_{-0.200}$			
180mm	$180^{+0.000}_{-0.150}$	$45^{+0.062}_{-0.000}$	15	$165^{+0.000}_{-0.200}$			
170mm	$170^{+0.000}_{-0.150}$	$40^{+0.062}_{-0.000}$	13	$157^{+0.000}_{-0.200}$			
160mm	$160^{+0.000}_{-0.150}$	$40^{+0.062}_{-0.000}$	13	$147^{+0.000}_{-0.200}$			
155mm	$155^{+0.000}_{-0.150}$	$40^{+0.062}_{-0.000}$	13	$142^{+0.000}_{-0.200}$			

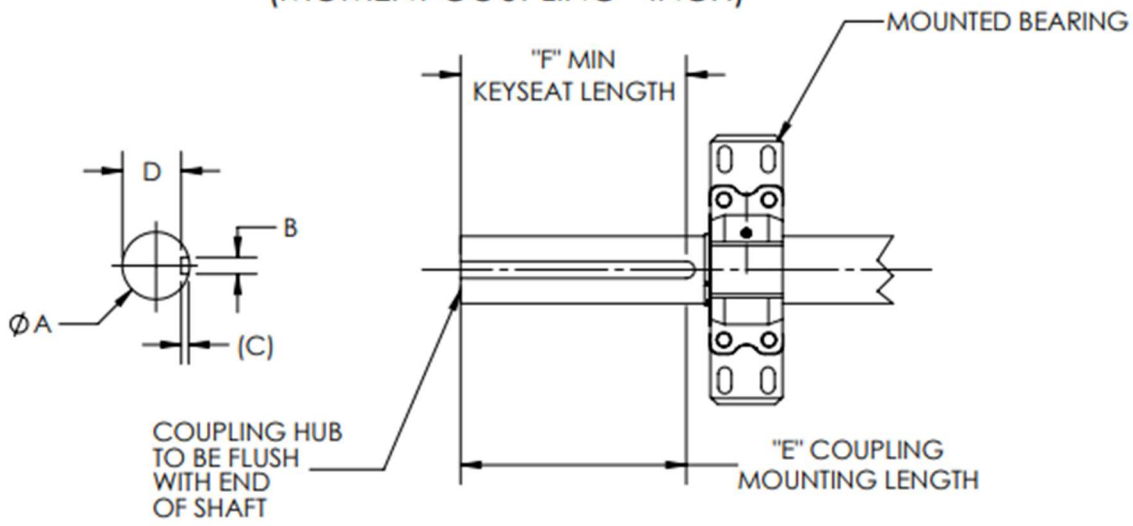
REQUIREMENTS TO MOUNT G700 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - METRIC DIMENSIONS)



REQUIREMENTS TO MOUNT G920 HOLLOW BORE REDUCER ON SHAFT (SHRINK DISK - METRIC DIMENSIONS)

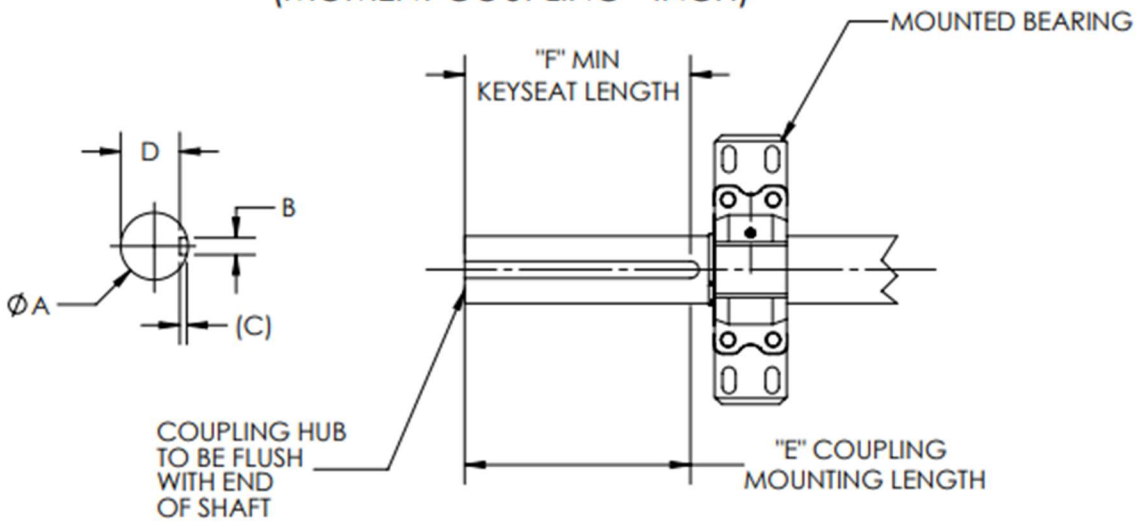


REQUIREMENTS TO MOUNT G100 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



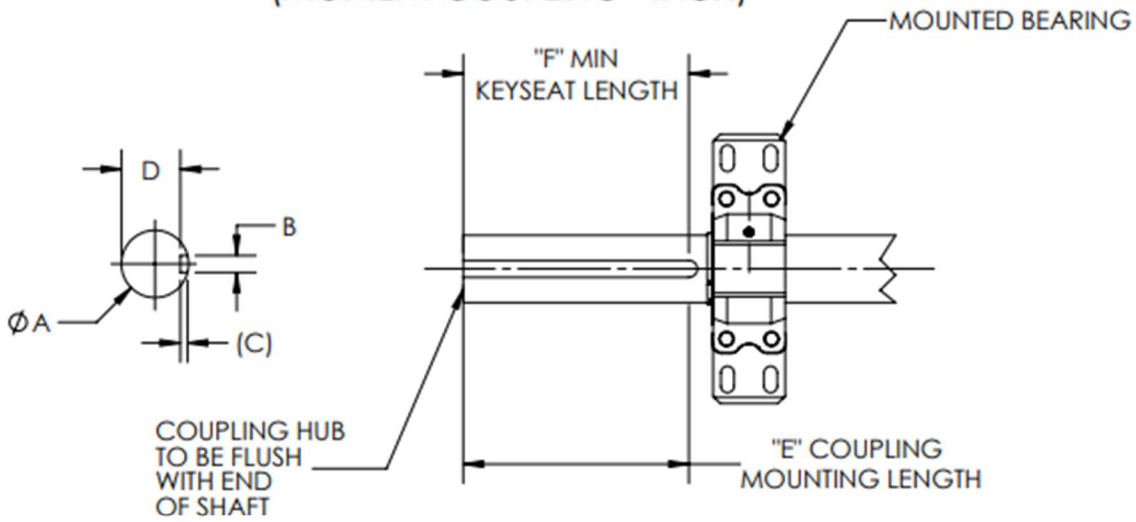
G100 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
4-7/8	$4.875^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.168^{+0.000}_{-0.010}$	5.75	5.75
4-3/4	$4.750^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.041^{+0.000}_{-0.010}$		
4-5/8	$4.625^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$3.913^{+0.000}_{-0.010}$		
4-1/2	$4.500^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.943^{+0.000}_{-0.010}$		
4-7/16	$4.4375^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.880^{+0.000}_{-0.010}$		
4-3/8	$4.375^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.817^{+0.000}_{-0.010}$		
4-1/4	$4.250^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.690^{+0.000}_{-0.010}$		
4-1/8	$4.125^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.563^{+0.000}_{-0.010}$		
4	$4.000^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.436^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G150 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



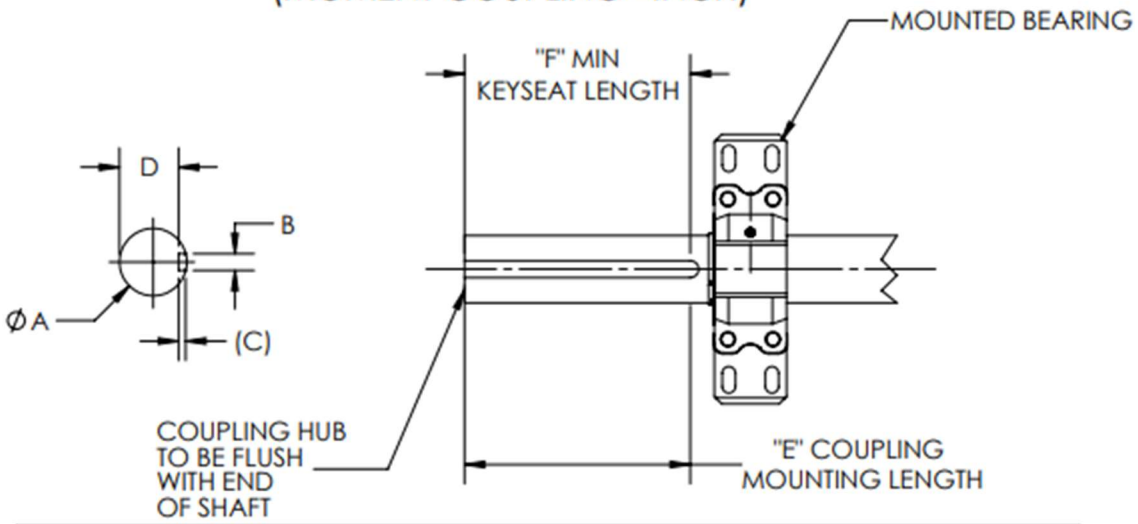
G150 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
5-1/2	$5.500^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.803^{+0.000}_{-0.010}$	6.00	6.00
5-7/16	$5.4375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.010}$		
5-3/8	$5.375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.676^{+0.000}_{-0.010}$		
5-1/4	$5.250^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.549^{+0.000}_{-0.010}$		
5-1/8	$5.125^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.422^{+0.000}_{-0.010}$		
5	$5.000^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.295^{+0.000}_{-0.010}$		
4-15/16	$4.9375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.010}$		
4-7/8	$4.875^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.168^{+0.000}_{-0.010}$		
4-3/4	$4.750^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.041^{+0.000}_{-0.010}$		
4-5/8	$4.625^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$3.913^{+0.000}_{-0.010}$		
4-1/2	$4.500^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.943^{+0.000}_{-0.010}$		
4-7/16	$4.4375^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.880^{+0.000}_{-0.010}$		
4-3/8	$4.375^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.817^{+0.000}_{-0.010}$		
4-1/4	$4.250^{+0.000}_{-0.001}$	$1.000^{+0.003}_{-0.000}$	1/2	$3.690^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G210 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



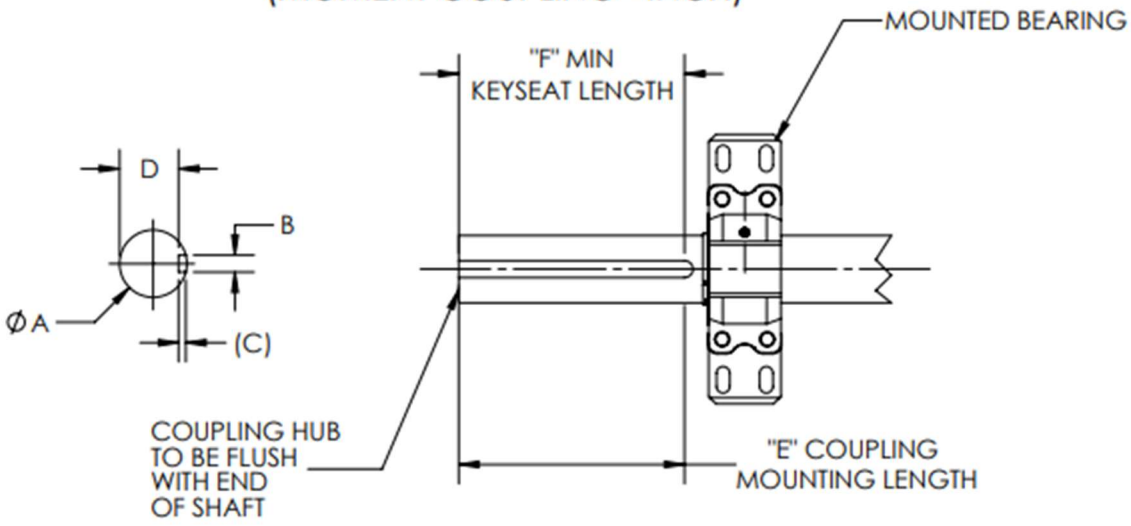
G210 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
6	$6.000^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.010}$	6.00	6.00
5-15/16	$5.9375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.091^{+0.000}_{-0.010}$		
5-7/8	$5.875^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.027^{+0.000}_{-0.010}$		
5-3/4	$5.750^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.900^{+0.000}_{-0.010}$		
5-5/8	$5.625^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.773^{+0.000}_{-0.010}$		
5-1/2	$5.500^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.803^{+0.000}_{-0.010}$		
5-7/16	$5.4375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.010}$		
5-3/8	$5.375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.676^{+0.000}_{-0.010}$		
5-1/4	$5.250^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.549^{+0.000}_{-0.010}$		
5-1/8	$5.125^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.422^{+0.000}_{-0.010}$		
5	$5.000^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.295^{+0.000}_{-0.010}$		
4-15/16	$4.9375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G285 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



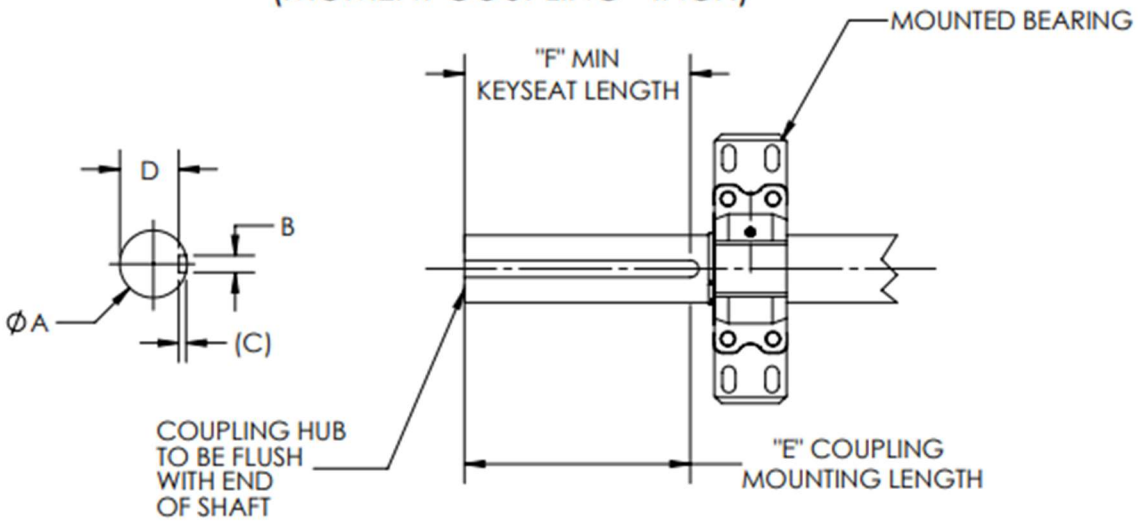
G285 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
7	$7.000^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.010}$	7.00	7.00
6-15/16	$6.9375^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.075^{+0.000}_{-0.010}$		
6-3/4	$6.750^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$5.884^{+0.000}_{-0.010}$		
6-1/2	$6.500^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.662^{+0.000}_{-0.010}$		
6-7/16	$6.4375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.598^{+0.000}_{-0.010}$		
6-1/4	$6.250^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.408^{+0.000}_{-0.010}$		
6	$6.000^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.010}$		
5-15/16	$5.9375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.091^{+0.000}_{-0.010}$		
5-7/8	$5.875^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.027^{+0.000}_{-0.010}$		
5-3/4	$5.750^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.900^{+0.000}_{-0.010}$		
5-5/8	$5.625^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.773^{+0.000}_{-0.010}$		
5-1/2	$5.500^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.803^{+0.000}_{-0.010}$		
5-7/16	$5.4375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.010}$		
4-15/16	$4.9375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.232^{+0.000}_{-0.010}$		
4-7/8	$4.875^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.168^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G390 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



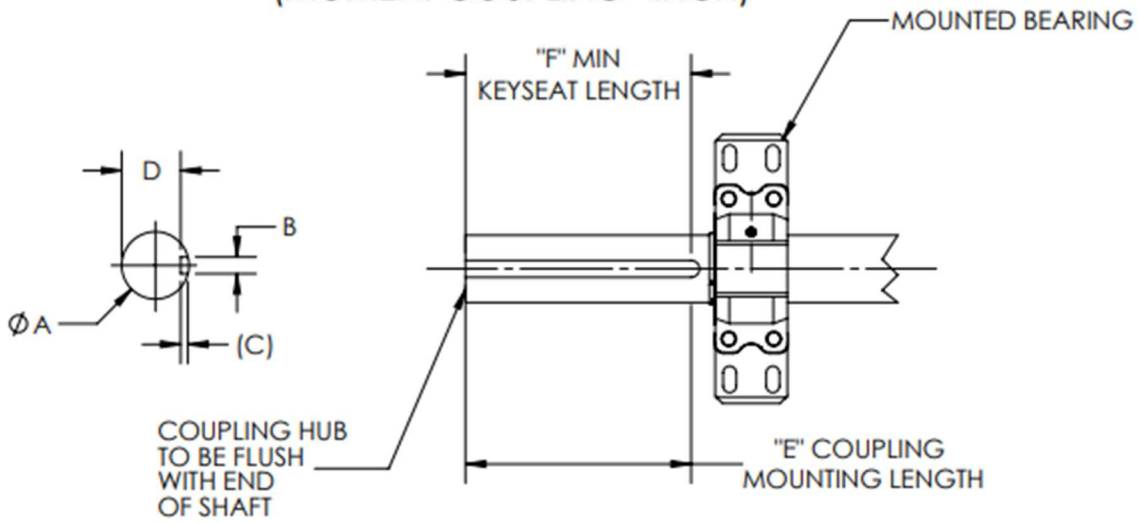
G390 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
7	$7.000^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.010}$		
6-15/16	$6.9375^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.075^{+0.000}_{-0.010}$		
6-3/4	$6.750^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$5.884^{+0.000}_{-0.010}$		
6-1/2	$6.500^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.662^{+0.000}_{-0.010}$		
6-7/16	$6.4375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.598^{+0.000}_{-0.010}$		
6-1/4	$6.250^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.408^{+0.000}_{-0.010}$		
6	$6.000^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.154^{+0.000}_{-0.010}$	7.09	7.09
5-15/16	$5.9375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.091^{+0.000}_{-0.010}$		
5-7/8	$5.875^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.027^{+0.000}_{-0.010}$		
5-3/4	$5.750^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.900^{+0.000}_{-0.010}$		
5-5/8	$5.625^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$4.773^{+0.000}_{-0.010}$		
5-1/2	$5.500^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.803^{+0.000}_{-0.010}$		
5-7/16	$5.4375^{+0.000}_{-0.001}$	$1.250^{+0.004}_{-0.000}$	5/8	$4.739^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G525 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



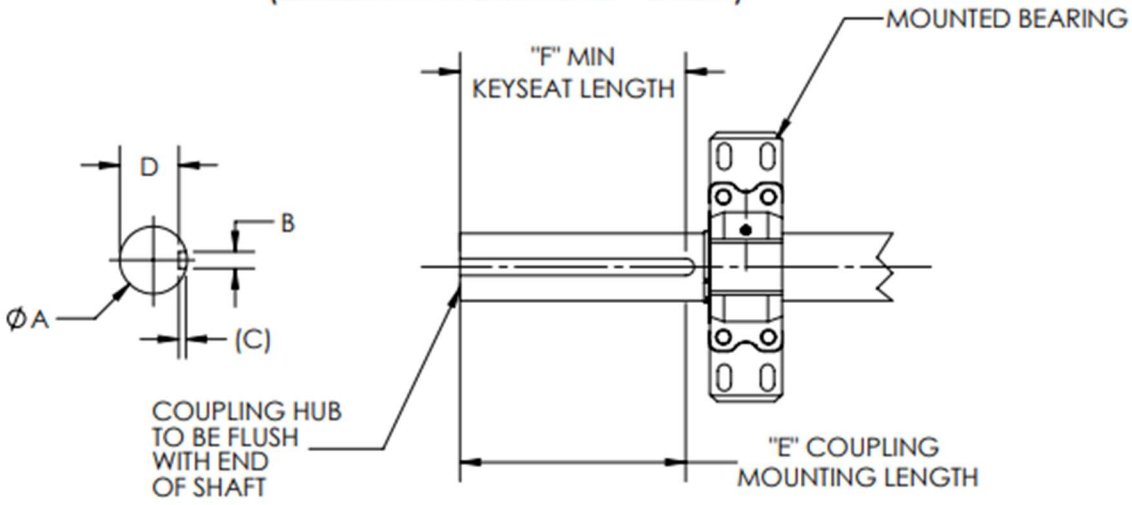
G525 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
8-3/4	$8.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.884^{+0.000}_{-0.010}$	8.50	8.50
8-1/2	$8.500^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.630^{+0.000}_{-0.010}$		
8-1/4	$8.250^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.376^{+0.000}_{-0.010}$		
8	$8.000^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.122^{+0.000}_{-0.010}$		
7-3/4	$7.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$6.868^{+0.000}_{-0.010}$		
7-1/2	$7.500^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.646^{+0.000}_{-0.010}$		
7-1/4	$7.250^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.392^{+0.000}_{-0.010}$		
7	$7.000^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.010}$		
6-15/16	$6.9375^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.075^{+0.000}_{-0.010}$		
6-3/4	$6.750^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$5.884^{+0.000}_{-0.010}$		
6-1/2	$6.500^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.662^{+0.000}_{-0.010}$		
6-7/16	$6.4375^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.598^{+0.000}_{-0.010}$		
6-1/4	$6.250^{+0.000}_{-0.001}$	$1.500^{+0.004}_{-0.000}$	3/4	$5.408^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G600/G700 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



G600/G700 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
10	$10.000^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.966^{+0.000}_{-0.010}$	9.75	9.75
9-3/4	$9.750^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.712^{+0.000}_{-0.010}$		
9-1/2	$9.500^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.457^{+0.000}_{-0.010}$		
9-1/4	$9.250^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.202^{+0.000}_{-0.010}$		
9	$9.000^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$8.137^{+0.000}_{-0.010}$		
8-3/4	$8.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.884^{+0.000}_{-0.010}$		
8-1/2	$8.500^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.630^{+0.000}_{-0.010}$		
8-7/16	$8.4375^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.630^{+0.000}_{-0.010}$		
8-1/4	$8.250^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.376^{+0.000}_{-0.010}$		
8	$8.000^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.122^{+0.000}_{-0.010}$		
7-3/4	$7.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$6.868^{+0.000}_{-0.010}$		
7-1/2	$7.500^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.646^{+0.000}_{-0.010}$		
7-1/4	$7.250^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.392^{+0.000}_{-0.010}$		
7	$7.000^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.138^{+0.000}_{-0.010}$		

REQUIREMENTS TO MOUNT G920 SOLID OUTPUT REDUCER ON SHAFT (MOMENT COUPLING - INCH)



G920 SOLID SHAFT REDUCER REQUIREMENTS (MOMENT COUPLING)						
SHAFT SIZE	A	B	C	D	E	F
11	$11.000^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$9.981^{+0.000}_{-0.010}$	10.25	10.25
10-3/4	$10.750^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$9.727^{+0.000}_{-0.010}$		
10-1/2	$10.500^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$9.474^{+0.000}_{-0.010}$		
10-1/4	$10.250^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$9.220^{+0.000}_{-0.010}$		
10	$10.000^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.966^{+0.000}_{-0.010}$		
9-3/4	$9.750^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.712^{+0.000}_{-0.010}$		
9-1/2	$9.500^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.457^{+0.000}_{-0.010}$		
9-1/4	$9.250^{+0.000}_{-0.001}$	$2.500^{+0.004}_{-0.000}$	7/8	$8.202^{+0.000}_{-0.010}$		
9	$9.000^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$8.137^{+0.000}_{-0.010}$		
8-3/4	$8.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.884^{+0.000}_{-0.010}$		
8-1/2	$8.500^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.630^{+0.000}_{-0.010}$		
8-7/16	$8.4375^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.630^{+0.000}_{-0.010}$		
8-1/4	$8.250^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.376^{+0.000}_{-0.010}$		
8	$8.000^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$7.122^{+0.000}_{-0.010}$		
7-3/4	$7.750^{+0.000}_{-0.001}$	$2.000^{+0.004}_{-0.000}$	3/4	$6.868^{+0.000}_{-0.010}$		
7-1/2	$7.500^{+0.000}_{-0.001}$	$1.750^{+0.004}_{-0.000}$	3/4	$6.646^{+0.000}_{-0.010}$		