

QUANTIS Q-LOC KEYLESS BUSHING SYSTEM



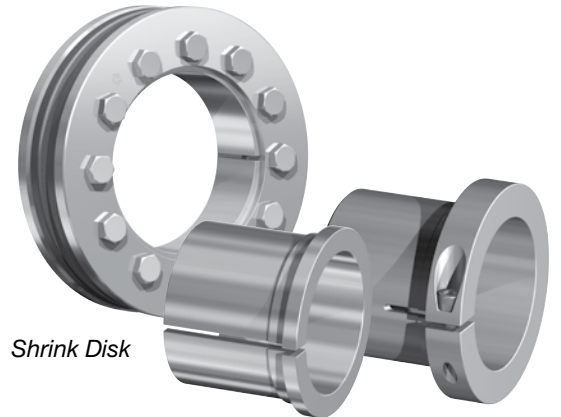
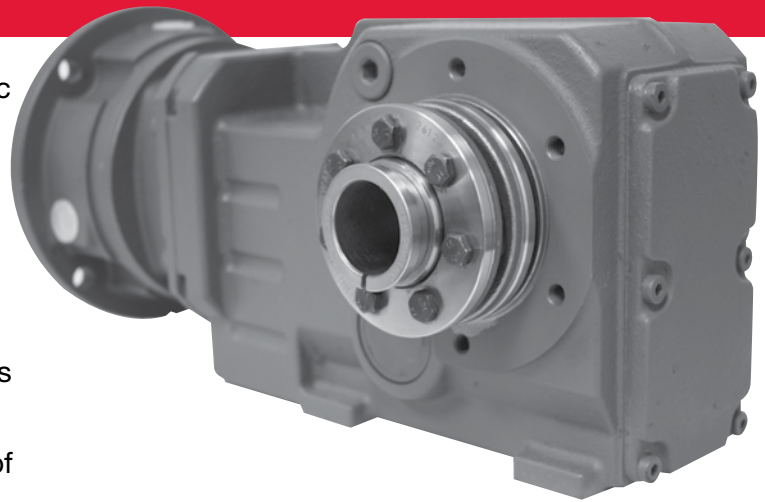
GEARING

Introducing the new Dodge Quantis Q-Loc bushing system. The Q-Loc bushing system is an enhanced keyless bushing system designed exclusively for the Quantis RHB and MSM products.

The Q-Loc bushing system provides customers the ability to mount the Quantis RHB and MSM product without the need for a shaft key. This reduces the amount of installation time required and eliminates the need to have a keyway machined into the customer's shaft. The flexible Q-Loc bushing design utilizes one shrink disc for each reducer case size. Then, to accommodate different shaft diameters, the Q-Loc bushing system uses interchangeable shaft adapter bushings. This allows the customer to standardize using one reducer size while still being able to adapt to different shaft diameters.

The Q-Loc bushing system is available in RHB and MSM sizes 38 through 108. Bore diameters range from 1" up to a maximum of 2-7/16" on the largest gear case size.

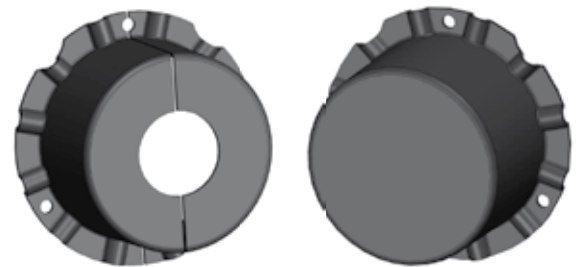
Quantis Safety Cover kits are also available to enclose the rotating shaft on hollow output reducers. These kits are designed to fit Quantis reducers equipped with the Q-Loc and Twin Tapered bushing system. Additionally, the kits can be used with the straight hollow shaft or standard shrink disc design. The Safety Cover kits are made from a water-resistant polymer for sizes 38 up through 108. Safety cover kits are available for the larger sizes out of steel material.



Shrink Disk

Adapter Bushing

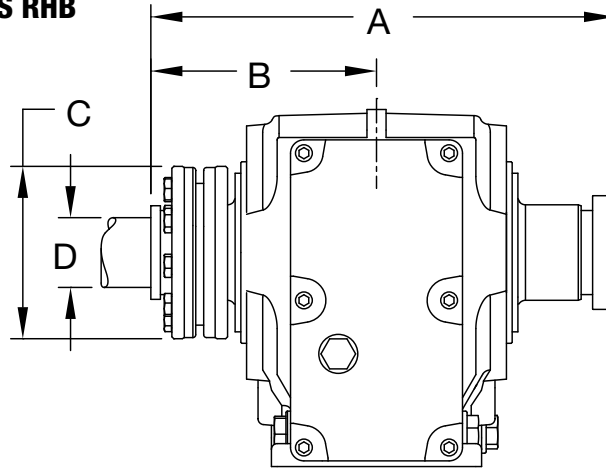
Support Bushing



Safety Cover Open

Safety Cover Solid

KEYLESS BUSHING DIMENSIONS RHB

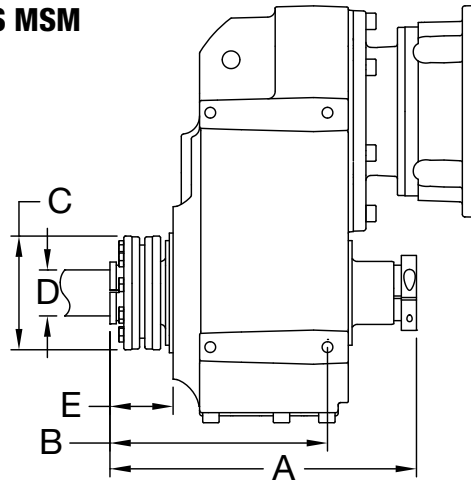


Reducer Size	Bore	Bushing Kit Part Number	A (Overall width of bushings)	B (Width from center of reducer to end of bushing on shrink disk side)	C (Outside diameter of shrink disk)	D Minimum Customer Shaft Diameter Allowed
BB/BF 38	1.000"	095383	8.2"	4.0"	2.9"	0.995"
BB/BF 48	1.000"	095398	9.6"	4.7"	3.6"	0.995"
	1.125"	095399				1.120"
	1.250"	095400				1.244"
	1.375"	095401				1.369"
	1.4375"	095402				1.431"
BB/BF 68	1.250"	095428	11.1"	5.4"	4.4"	1.244"
	1.375"	095429				1.369"
	1.4375"	095430				1.431"
	1.625"	095431				1.619"
	1.6875"	095432				1.681"
BB/BF 88	1.4375"	095473	12.2"	6.0"	5.5"	1.432"
	1.625"	095474				1.619"
	1.6875"	095475				1.681"
	1.9375"	095476				1.931"
	2.000"	095477				1.993"
BB/BF 108	1.9375"	095503	13.5"	6.6"	5.8"	1.931"
	2.000"	095504				1.993"
	2.1875"	095505				2.180"
	2.4375"	095506				2.430"

NOTES: • The shrink disk can be located on either side of the reducer. However, the recommended location of the shrink disk is on the same side of the reducer as the driven shaft. The hollow shaft is symmetrical about the centerline of the reducer but the bushings are different length. If the shrink disk is moved to the opposite side, the "B" dimension moves with the shrink disk.

- The customer shaft must extend the entire length identified as "A" in the diagram above
- The bushing kit consists of the bushing under the shrink disk and the support bushing on the opposite side.
- Contact Engineering regarding the use of a B5 output flange
- Surface finish on customer shafts should not exceed 125 Ra / 400 Rz

KEYLESS BUSHING DIMENSIONS MSM



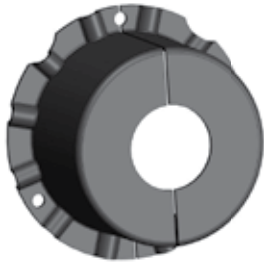
Reducer Size	Bore	Bushing Kit Part Number	A (Overall width of bushings)	B (Width from mounting hole to end of bushing on shrink disk side)	C (Outside diameter of shrink disks)	D (Minimum Customer Shaft Diameter Allowed)	E (Distance from B14 flange to end of bushing)
MW 38	1.000"	095383	8.2"	5.6"	2.9"	0.995"	1.8"
MW 48	1.000"	095398	9.6"	6.8"	3.6"	0.995"	2.0"
	1.125"	095399				1.120"	
	1.250"	095400				1.244"	
	1.375"	095401				1.369"	
	1.4375"	095402				1.431"	
MW 68	1.250"	095428	11.1"	7.6"	4.4"	1.244"	2.2"
	1.375"	095429				1.369"	
	1.4375"	095430				1.431"	
	1.625"	095431				1.619"	
MW 88	1.6875"	095432	12.2"	8.8"	5.5"	1.681"	2.2"
	1.4375"	095473				1.432"	
	1.625"	095474				1.619"	
	1.6875"	095475				1.681"	
	1.9375"	095476				1.931"	
MW 108	2.000"	095477	13.5"	10.2"	5.8"	1.993"	2.3"
	1.9375"	095503				1.932"	
	2.000"	095504				1.993"	
	2.1875"	095505				2.180"	
	2.4375"	095506				2.430"	

- NOTES:**
- The shrink disk can be located on either side of the reducer. However, the recommended location of the shrink disk is on the same side of the reducer as the driven shaft. If the shrink disk is moved to the motor side of the reducer, the "B" and "E" dimensions shown above increase by 0.3".
 - The customer shaft must extend the entire length identified as "A" in the diagram above
 - The bushing kit consists of the bushing under the shrink disk and the support bushing on the opposite side.
 - Contact Engineering regarding the use of a B5 output flange
 - Surface finish on customer shafts should not exceed 125 Ra / 400 Rz

KEYLESS BUSHING TORQUE CAPACITY RHB & MSM

Reducer Size	Bore	Nominal torque transmitting capacity (in-lbs)
MSM & RHB 38	1.000"	561
	1.000"	2508
MSM & RHB 48	1.125"	2950
	1.250"	2508
	1.375"	2773
	1.4375"	2891
	1.4375"	2891
MSM & RHB 68	1.250"	4720
	1.375"	5310
	1.4375"	5753
	1.625"	6491
	1.6875"	6786
MSM & RHB 88	1.4375"	4720
	1.625"	5310
	1.6875"	5901
	1.9375"	8556
	2.000"	7081
MSM & RHB 108	1.9375"	9441
	2.000"	9736
	2.1875"	12686
	2.4375"	16226
	2.4375"	16226

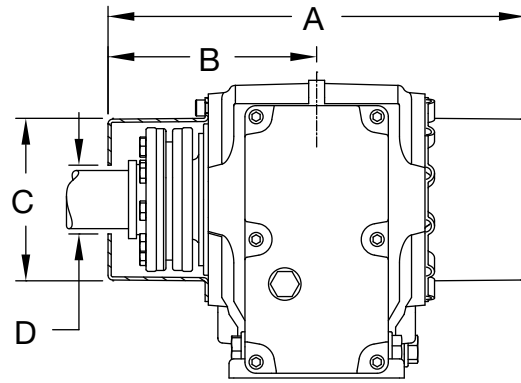
- NOTES:**
- The nominal torque transmitting capacity listed above takes into account typical NEMA start up torque values up to 250%.
 - Use of shaft diameters less than published minimums, or surface finish values outside of the recommend range, will greatly reduce the torque transmitting capacity of the bushing system and void the warranty.



Safety Cover Open



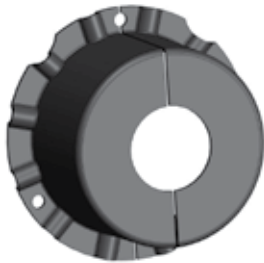
Safety Cover Solid



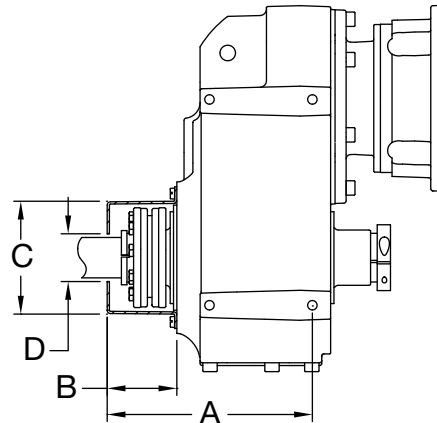
PROTECTIVE COVER DIMENSIONS RHB

REDUCER SIZE	Closed Cover kit Part Number	Open Cover kit Part Number	A (Overall width including 2 covers)	B (Width from center of reducer to end of cover)	C (Outside diameter of covers)	D (Hole diameter in cover to accommodate shaft)
38	095144	095143	9.0	4.5	3.4	1.55
48	095146	095145	10.4	5.2	4.1	1.68
68	095148	095147	11.8	5.9	4.6	2.05
88	095150	095149	13.1	6.5	6.0	2.55
108	095152	095151	14.4	7.2	7.4	2.85

- NOTES:**
- The covers are made from a durable plastic material and are resistant to most cleaning chemicals used in the food industry.
 - The covers fit both footed (BB) and flanged (BF) housing types.
 - The covers will fit RHB reducers equipped with Twin Tapered Bushings, Keyless Bushings, and straight hollow shafts.
 - The covers are NOT water tight but are designed to allow materials to be flushed from the inside of the covers through drain holes.
 - Kits include one cover and corrosion resistant mounting hardware
 - The Open covers are split and can be installed after the reducer is mounted onto the driven shaft.



Safety Cover Open



PROTECTIVE COVER DIMENSIONS MSM

REDUCER SIZE	Open Cover kit Part Number	A (Width from mounting hole to end of cover)	B (Width from B14 flange surface to end of cover)	C (Outside diameter of covers)	D (Hole diameter in cover to accommodate shaft)
38	095143	6.3	2.4	3.4	1.55
48	095145	7.5	2.6	4.1	1.68
68	095147	8.3	2.7	4.6	2.05
88	095149	9.6	2.8	6.0	2.55
108	095151	10.9	2.9	7.4	2.85

- NOTES:**
- The covers are made from a durable plastic material and are resistant to most cleaning chemicals used in the food industry.
 - Covers will not fit the reducers on the motor side
 - The covers will fit MSM reducers equipped with Twin Tapered Bushings, Keyless Bushings, and straight hollow shafts.
 - The covers are NOT water tight but are designed to allow materials to be flushed from the inside of the covers through drain holes.
 - Kits include one cover and corrosion resistant mounting hardware
 - The Open covers are split and can be installed after the reducer is mounted onto the driven shaft.

BALDOR

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