

JOHNSON – Dependability

The Johnson brand name stands for dependability. Whether it is a Johnson CUTLESS® Bearing, Johnson Stuffing Box, Johnson Demountable Keel Cooler or the Johnson Commercial Dock Bumpers and Tow Knees presented in this catalog, these products were designed to stand up to tough conditions presented by the commercial marine and industrial markets.

JOHNSON Commercial Dock Bumper

Johnson Commercial Dock Bumpers are produced using EPDM rubber (Ethylene-Propylene-Diene-Monomer). EPDM was selected because it has exceptional resistance to weather aging and ozone – typically found in marine applications. It also works in a wide range of conditions and ambient temperatures – also important in marine applications. Use caution when purchasing commercial dock bumpers from other sources. Not all bumpers were created equal. Not all bumpers are manufactured from virgin EPDM rubber.

Hole Drilling & Cutting Service

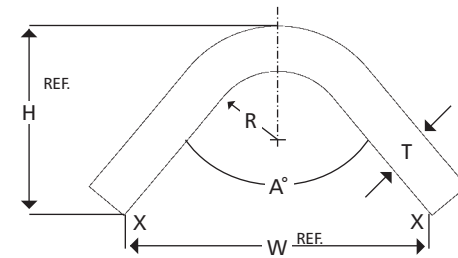
Duramax® Marine has over 40 years of experience in machining, cutting and drilling rubber parts for specialty applications. Drilling mounting holes in the Johnson Commercial Dock Bumpers can be difficult without the right tooling and equipment. You can save time and effort by having Duramax® Marine do the fabrication for you. The cost is extra, but you will appreciate not having to do the fabrication yourself!

Precurved Fender

For installations where fender needs to be mounted on a curved surface, Duramax® Marine has the ability to provide precurved dock bumper sections. When extruded rubber is cured straight and then held in a curved position, there is stress in the part. This stress could be released upon impact causing the rubber piece to tear. Precurved sections are cured with the curve in the part. The rubber is then relaxed in the curved state when you mount it to the substructure. Upon impact, the precurved piece should not tear as readily.

In order to provide a quotation on precurved dock bumpers, please provide the following information to Duramax® Marine:

1. Radius of the hull = R inches
2. **The angle of curvature = A degrees
3. The total length of fender against the hull from X to X
4. The thickness (height) of the fender section to be curved = T
5. The Johnson Commercial Dock Bumper type and dimensions



**If the angle of curvature cannot be determined, dimensions H and W can be substituted for A degrees.

Duramax® Marine recommends that the bending radius be no greater than 150% of the overall height of the cross section. Note that precurving dock bumper will distort the shape of the bumper at and near the bend. Consult your Duramax® Marine representative to determine if precurving is necessary for your installation.

JOHNSON Tow Knee Pusher Plates

For decades, Johnson has been one of the most trusted brands of tow knee pusher plates available. Like the name, Johnson, our tow knees stand up to the test of time because Duramax® Marine specializes in rubber to metal bonding and only uses the highest quality natural rubber.

Protect bows and docks from punishing marine use. Give vessels longer and better service life. Cut repair and replacement downtime. And know that Duramax® Marine is the one you can trust. With one of the largest inventories of tow knee pusher plates in the business, there is a good chance your Johnson tow knees can be shipped by Duramax® Marine, stocking distributors or field warehouses from stock.

100 SERIES

D-SHAPE / KEY BORE

The D-shaped, Key-bore is designed for marine and industrial applications. Provide protection for small vessels, docks, loading docks, trucks and other equipment. Offered in three different EPDM colors: black, grey, and white. Check out our 90 degree molded corner guard / end cap pieces and poly washer strips in the next sections!



| CODE NO. | DURAMAX PART NO. | BASE WIDTH (W) | HEIGHT (H) | WALL THICKNESS (WT) | WT./FT. | LENGTH UP TO |
|----------|------------------|----------------|------------|---------------------|----------|--------------|
| DB-50** | 802005001 | 2 1/8" | 2" | 7/16" | 1.3 LBS. | 60 FT. |
| DB-75** | 802007501 | 3 1/8" | 2 7/8" | 11/16" | 2.8 LBS. | 60 FT. |
| DB-100** | 802009001 | 4 1/4" | 3 7/8" | 3/4" | 4.6 LBS. | 60 FT. |

90° Molded Insert Corners / End Caps

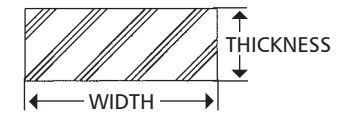
Insert the legs of these molded EPDM corners into the bore of the DB 50, 75 and 100 for a 90 degree corner or to cap off the end of a piece. Stocked in black, grey and white.



| CODE NO. | DURAMAX PART NO. | COLOR |
|----------|------------------|-------|
| DB-51 | 802005101 | BLACK |
| DB-52 | 802005202 | GREY |
| DB-53 | 802005303 | WHITE |
| DB-76 | 802007601 | BLACK |
| DB-77 | 802007702 | GREY |
| DB-78 | 802007803 | WHITE |
| DB-103 | 802009301 | BLACK |
| DB-104 | 802009402 | GREY |
| DB-105 | 802009503 | WHITE |

100 Series Poly Washer Strip

Supplied in 10-foot sections, our tough polycarbonate washer strip slides inside the Key-bore for mounting.



| CODE NO. | DURAMAX PART NO. | WIDTH | THICKNESS | LENGTH |
|----------|------------------|--------|-----------|--------|
| DB-50NS | 802000025 | 1" | 3/8" | 10 FT. |
| DB-75NS | 802000026 | 1 1/4" | 3/8" | 10 FT. |
| DB-100NS | 802000027 | 1 3/4" | 3/8" | 10 FT. |

TAPERED D-SHAPE / D-BORE

Tapered D-shape offers a slightly different look than the Key-bore cross sections. Also used in marine and industrial applications. Offered in three different EPDM colors: black, grey and white where noted.



| CODE NO. | DURAMAX PART NO. | BASE WIDTH (W) | HEIGHT (H) | WALL THICKNESS (WT) | WT./FT. | LENGTH UP TO |
|----------|------------------|----------------|------------|---------------------|-----------|--------------|
| DB-101** | 802010101 | 4 1/4" | 3 7/8" | 3/4" | 4.6 LBS. | 60 FT. |
| DB-115 | 802011501 | 4 1/2" | 3 3/4" | 3/4" | 4.7 LBS. | 60 FT. |
| DB-125** | 802012501 | 6 3/4" | 6" | 1 1/2" | 13.6 LBS. | 20 FT. |
| DB-150** | 802015001 | 9 1/2" | 8" | 1 1/2" | 19.5 LBS. | 20 FT. |



Call Toll Free: **1-866-711-4673**
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