Lubecore Technical Announcement

New Barbed Hose Fittings for Korilla Lining

In communication LCC2019-010 Lubecore introduced a new 20.236 5mm straight barbed fitting. The design improvements introduced in the 20.236 have now been incorporated into the 20.237.

Lubecore International is pleased to introduce the next generation 20.237 barbed 5mm hose splicer fitting. First article testing showed that the 20.237 burst pressure easily exceeded the 4000 burst pressure threshold using Lubecore Korilla lining. The new 20.239 8.7mm hose clamp is used with this new 20.237 fitting to achieve the desired burst pressure results. Lubecore recommends only using Lubecore Korilla lining and the 20.239 clamp to ensure achieving the burst pressure rating as other hose configurations have not been tested.

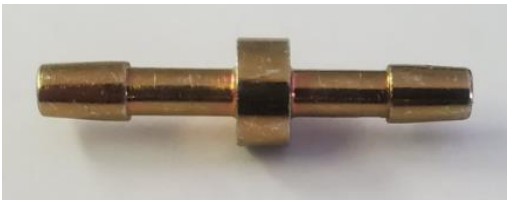

Figure 1 Next Generation 20.237 5mm Barbed Korilla Hose Splicer Fitting

Another distinct advantage to this upgraded 20.237 is its length. It is 1.238in or 31.45mm long compared to the previous generation at 2.283in or 58 mm long. This is shown in Figure 2. This will allow the new product to be installed in smaller envelopes than the previous fitting. This new design also no longer requires the insertion tool and can be comfortably inserted by hand.

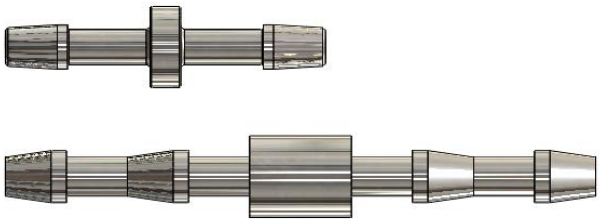

Figure 2 Length Comparison New to Old 20.237

New part numbers and what they substitute are listed below:

New Part #	Description	Substitutes Part #
20.237	Splicer for 8.6mm OD X 4mm ID High Pressure Hose	20.237
20.239	Clamp 8.7mm for 8.6 OD x 4 ID Hose SS	20.232 *

* The 20.232 clamp will be available for use with 20.223, 20.224, and 20.225 parts until they are updated to match this new design. The 20.232 must be used with the current 6mm barbed Korilla fittings as the 8.7mm 20.239 will not fit over the hose after a 6mm barbed fitting is installed.

As previously outlined in communication LCC2019-010 note that the size of the 20.232 and 20.239 clamps is marked on them to allow for easy identification as shown in Figure 3. Also note that the 20.239 has a close fit with the Korilla lining whereas the 20.232 has a looser fit. The difference between the fit of a 20.232 and the 20.239 with this fitting is shown in Figure 4. If a 20.232 is used to clamp the new single barbed 20.236 or 20.237 in place, the burst pressure of the system will lower than the published test results.

Figure 3: Left to Right: 20.232, 20.239

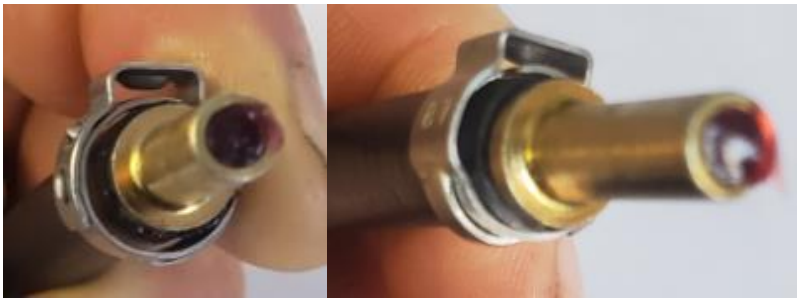

Figure 4: Left to Right: Improper Loose Fit of 20.232, Proper Close Fit of 20.239

It is also important to keep the clamp off the barbed portion of the fitting to ensure that the lining is clamped onto the stem between the barb and the shoulder on this fitting. This allows the barb to properly engage with the lining and provide the holding force needed to generate the high burst pressure. The location of the 20.239 clamp in the assembly should be near the end of the hose as shown in Figure 5.

Figure 5: Location of clamp relative to the end of the Korilla lining.