

3M Worldwide

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Subject: Goatthroat Hand Pump

In the HT area we've long sought a good inexpensive hand pumps for decanting HFE's from drums, etc. Most we've tested leak around the shaft seal and are a general nuisance. It now appears that we have found one that works well. The 3 GoatThroat pumps (www.goatthroat.com) differ only in their seals.

The pumps effect on particulate and NVR has not been studied but I think we Can safely suggest this option to customers who need a simple, inexpensive Hand pump and don't care about these parameters.

EPDM - Blue \$135.

Nitril - Red \$140

Viton - Green \$200

Pete, could you please forward to the Sales Organization?

Phil