BULLETIN GB-P1

# GIANT POLYPROPYLENE & POLYESTER BAGS

MET PRO CORPORATION *Keystone Filter Division*
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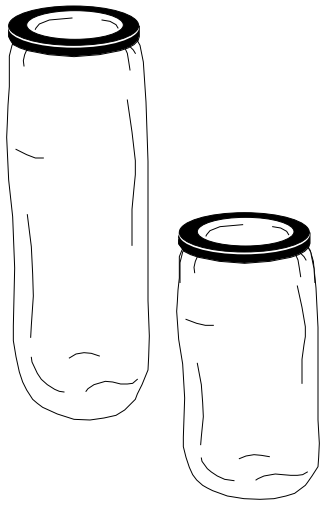
Keystone's exclusive line of bags for our Giant housings have a unique seal ring that ensures the most efficient means of bag filtration. All bags are 100% polypropylene or polyester with plastisol (PVC) seal ring and are available in micron ratings from 1 to 200. Polyester bags are recommended for hot water/high pressure applications.

Keystone bags are available in the compact 10" length – very adaptable to side stream testing applications – and the more versatile 20" double length. Other bags may also be used in our housings. Contact us at 1-800-822-1963 for details.

**Changeout bags at 20-25 psid.**

| MODEL NUMBER | MATERIAL PE=Polyester PP=Polypropylene | MICRON RATING | MAXIMUM FLOW RATE GPM (LPM) | FILTER AREA SQ. IN. | SHIPPING WEIGHT (OZ) |
|---|---|---|---|---|---|
| **10" BAGS – to fit 10" housing with bag adapter** | | | | | |
| BAG1-10 | PE/PP | 1 | 40 (152) | 109.9 | 3.0 |
| BAG5-10 | PE/PP | 5 | 40 (152) | 109.9 | 3.0 |
| BAG10-10 | PE/PP | 10 | 40 (152) | 109.9 | 3.0 |
| BAG25-10 | PE/PP | 25 | 40 (152) | 109.9 | 3.0 |
| BAG50-10 | PE/PP | 50 | 40 (152) | 109.9 | 3.0 |
| BAG100-10 | PE/PP | 100 | 40 (152) | 109.9 | 3.0 |
| BAG200-10 | PE/PP | 200 | 40 (152) | 109.9 | 3.0 |
| **20" BAGS – to fit 20" housing with bag adapter** | | | | | |
| BAG1-20 | PE/PP | 1 | 50 (190) | 222.6 | 4.0 |
| BAG5-20 | PE/PP | 5 | 50 (190) | 222.6 | 4.0 |
| BAG10-20 | PE/PP | 10 | 50 (190) | 222.6 | 4.0 |
| BAG25-20 | PE/PP | 25 | 50 (190) | 222.6 | 4.0 |
| BAG50-20 | PE/PP | 50 | 50 (190) | 222.6 | 4.0 |
| BAG100-20 | PE/PP | 100 | 50 (190) | 222.6 | 4.0 |
| BAG200-20 | PE/PP | 200 | 50 (190) | 222.6 | 4.0 |



The maximum operating temperatures of Keystone polypropylene and polyester bags are 140°F and 200°F, respectively.

When using Keystone polypropylene bags in Keystone GIANT talc polypropylene, styrene acrylonitrile (SAN) and/or natural polypropylene housings, the maximum operating temperature should not exceed 125°F.

## GIANT Bag Pressure Drop (for KEYSTONE20" Bags @40gpm) vs Viscosity

| Viscosity | 1M | 5M | 10M | 25M | 50M | 100M | 200M |
|---|---|---|---|---|---|---|---|
| 1 | 0.1 | 0.1 | 0.1 | | | | |
| 5 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | | |
| 10 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | | |
| 20 | 1.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.1 | |
| 30 | 2.1 | 0.9 | 0.6 | 0.3 | 0.3 | 0.1 | 0.1 |
| 40 | 2.8 | 1.1 | 0.8 | 0.5 | 0.3 | 0.1 | 0.1 |
| 60 | 3.2 | 1.7 | 1.1 | 0.6 | 0.5 | 0.2 | 0.2 |
| 80 | 3.9 | 2.1 | 1.5 | 0.9 | 0.6 | 0.3 | 0.3 |
| 100 | 5.5 | 2.8 | 1.9 | 1.1 | 0.9 | 0.4 | 0.3 |
| 200 | 10.7 | 5.5 | 3.7 | 2.2 | 1.7 | 0.8 | 0.6 |
| 400 | 19.3 | 10.0 | 6.3 | 3.9 | 3.5 | 1.6 | 1.0 |
| 600 | 24.0 | 13.3 | 8.7 | 4.8 | 4.5 | 2.4 | 1.3 |
| 1000 | | 17.3 | 12.0 | 7.3 | 6.7 | 3.2 | 1.9 |
| 1500 | | 20.7 | 13.3 | 8.7 | 8.0 | 4.2 | 2.1 |
| 2000 | | | 20.0 | 12.0 | 11.3 | 5.9 | 3.0 |
| 4000 | | | | 16.0 | 14.7 | 6.7 | 4.2 |
| 6000 | | | | 24.0 | 22.7 | 13.3 | 6.1 |
| 8000 | | | | | | 18.7 | 9.3 |
| 10000 | | | | | | 22.7 | 12.7 |

For 10" bags, multiply above numbers by 2 All numbers in above chart are psid

## GIANT Housing Pressure Drop

| 10" Giant | | 20" Giant | |
|---|---|---|---|
| GPM | PSI | GPM | PSI |
| 5 | 0.6 | 5 | 0.4 |
| 10 | 0.4 | 10 | 0.6 |
| 15 | 1.2 | 15 | 0.9 |
| 20 | 1.8 | 20 | 1.5 |
| 25 | 2.5 | 25 | 2.4 |
| 30 | 3.5 | 30 | 3.4 |
| 35 | 4.7 | 35 | 4.7 |
| 40 | 5.9 | 40 | 6.1 |
| | | 45 | 7.8 |

***NOTE:***
*Calculate total system data by adding bag pressure drop numbers above to housing pressure drop numbers at left.*