**NFC 146, 346, 546 Series Filters are designed for 10K, 15K, & 20K ONLY**

<table>
<thead>
<tr>
<th>PORT SIZE, X/16 SCALE</th>
<th>PIPE SCHEDULE</th>
<th>SOCKET/BUTT WELD 5W/BW</th>
</tr>
</thead>
<tbody>
<tr>
<td>5368</td>
<td>40</td>
<td>SW, BW</td>
</tr>
<tr>
<td>53612</td>
<td>40</td>
<td>SW, BW</td>
</tr>
<tr>
<td>53616</td>
<td>40</td>
<td>SW, BW</td>
</tr>
</tbody>
</table>

**EXAMPLE: 5368-160BW**

<table>
<thead>
<tr>
<th>TABLE 2a - WELD SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PORT SIZE</strong></td>
</tr>
<tr>
<td><strong>40</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLE 3 - HOUSING MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>D</strong></td>
</tr>
</tbody>
</table>

**Registered trademark of BECK-FIG**

**SEE TABLE 2a for WELD SCHEDULE**

**Table 2a**

**Table 3**

<table>
<thead>
<tr>
<th>TABLE 4 - ELEMENT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>C</strong></td>
</tr>
</tbody>
</table>

**SEE TABLE 8a/b/c for code**

<table>
<thead>
<tr>
<th>TABLE 7 - WIRE MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>C</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLE 6 - COLLAPSE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D</strong></td>
</tr>
<tr>
<td><strong>E</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DRAWING</th>
</tr>
</thead>
<tbody>
<tr>
<td>536 ASSEMBLY</td>
</tr>
</tbody>
</table>

**EXAMPLE: 536-160BW**

<table>
<thead>
<tr>
<th>TABLE 5 - MICRON CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CODE</strong></td>
</tr>
<tr>
<td><strong>2X</strong></td>
</tr>
<tr>
<td><strong>3X</strong></td>
</tr>
</tbody>
</table>

**Table 5**

<table>
<thead>
<tr>
<th>TABLE 8 - ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DR-1</strong></td>
</tr>
<tr>
<td><strong>DR-2</strong></td>
</tr>
<tr>
<td><strong>DR-3</strong></td>
</tr>
<tr>
<td><strong>DR-4</strong></td>
</tr>
<tr>
<td><strong>DCR-4</strong></td>
</tr>
<tr>
<td><strong>DCR-6</strong></td>
</tr>
</tbody>
</table>

**Table 8**

<table>
<thead>
<tr>
<th>TABLE 8a</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EE75 75 PSID</strong></td>
</tr>
<tr>
<td><strong>V80 80 PSID</strong></td>
</tr>
<tr>
<td><strong>R150 150 PSID</strong></td>
</tr>
</tbody>
</table>

**Table 8a**

<table>
<thead>
<tr>
<th>TABLE 8b</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S4 40 52</strong></td>
</tr>
<tr>
<td><strong>S3 30 40</strong></td>
</tr>
</tbody>
</table>

**Table 8b**

<table>
<thead>
<tr>
<th>TABLE 8c</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S2 20 25</strong></td>
</tr>
<tr>
<td><strong>S1 10 15</strong></td>
</tr>
</tbody>
</table>

**Table 8c**

<table>
<thead>
<tr>
<th>CODE</th>
<th>ACTIVATION PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EE</strong></td>
<td>40 PSID</td>
</tr>
<tr>
<td><strong>EE20</strong></td>
<td>20 PSID</td>
</tr>
<tr>
<td><strong>EE75</strong></td>
<td>75 PSID</td>
</tr>
</tbody>
</table>

**Table 8**

**Table 9**

<table>
<thead>
<tr>
<th>CODE</th>
<th>ACTIVATION PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RR</strong></td>
<td>50 PSID</td>
</tr>
</tbody>
</table>

**Table 9**

<table>
<thead>
<tr>
<th>TABLE 10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>536 ASSEMBLY</strong></td>
</tr>
</tbody>
</table>

**Table 10**

<table>
<thead>
<tr>
<th>CODE</th>
<th>ACTIVATION PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>59165</strong></td>
<td><strong>536 ASSEMBLY</strong></td>
</tr>
</tbody>
</table>

**Table 10**
### 14600, 34600, 54600 Bill of Material

#### Filter Assembly Code
- **M**: TEFLONTM
- **M1**: TEFLON per AMS 3678C-1-B
- **E**: EPR
- **E1**: V1238-95
- **S**: SILICONE
- **L**: BUNA, 70 DUROMETER
- **K**: BUNA, 90 DUROMETER
- **HNBR**: HNBR
- **H**: 4079 KALREZTM
- **N**: VITON
- **MN**: TEFLON COATED VITON

#### O-Ring Material
- **M**: TEFLONTM
- **M1**: TEFLON per AMS 3678C-1-B
- **E**: EPR
- **E1**: V1238-95
- **S**: SILICONE
- **L**: BUNA, 70 DUROMETER
- **K**: BUNA, 90 DUROMETER
- **HNBR**: HNBR
- **H**: 4079 KALREZTM
- **N**: VITON
- **MN**: TEFLON COATED VITON

### 4500 Bill of Material

#### Bill of Material from Table A

#### FROM TABLE A(SHEET 5) AND 3(SHEET 1)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>45555T</td>
<td>HEAD, FILTER</td>
<td>316 STAINLESS STEEL</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>52311818</td>
<td>O-RING, HOUSING</td>
<td>VITON</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>536G20DN</td>
<td>ELEMENT, FILTER</td>
<td>316 STAINLESS WIRE MESH</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>521418</td>
<td>O-RING, ELEMENT</td>
<td>VITON</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>45543T</td>
<td>BOWL, FILTER</td>
<td>316 STAINLESS STEEL</td>
<td>1</td>
</tr>
</tbody>
</table>

#### SHEET 1 REPLACEMENT ELEMENT

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>536X-XXX</td>
<td>ELEMENT, FILTER</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>5214XX</td>
<td>O-RING, ELEMENT</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>45543Y</td>
<td>BOWL, FILTER</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
</tbody>
</table>

### CONTINUING THE EXAMPLE FROM SHEET 1

#### FROM TABLE D(SHEET 5) AND 3(SHEET 1)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>45XXY</td>
<td>HEAD, FILTER</td>
<td>TABLE D(SHEET 5) AND 3(SHEET 1)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>5231XX</td>
<td>O-RING, HOUSING</td>
<td>SHEET A</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>536X-XXX</td>
<td>ELEMENT, FILTER</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>5214XX</td>
<td>O-RING, ELEMENT</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>45543Y</td>
<td>BOWL, FILTER</td>
<td>REPLACEMENT ELEMENT</td>
<td>1</td>
</tr>
</tbody>
</table>

### FROM TABLE 3

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Description</th>
<th>Material</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>345XXY</td>
<td>HEAD, FILTER</td>
<td>TABLE 3 (SHEET 1) AND TABLE C (SHEET 4)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>5214XX</td>
<td>ELEMENT O-RING</td>
<td>TABLE A (SHEET 3)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>536X-XXX</td>
<td>ELEMENT, FILTER</td>
<td>REPLACEMENT ELEMENT (SHEET 1)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>346543Y-NS-XXK</td>
<td>BOWL, FILTER</td>
<td>TABLE 3 (SHEET 1) AND TABLE B (SHEET 2)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>5234XX</td>
<td>BOWL O-RING</td>
<td>TABLE A (SHEET 3)A</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>523402B</td>
<td>TEFLOM BACKUP BOWL O-RING</td>
<td>TEFLOM BACK-UP RING</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>8-234B</td>
<td>PARBAK BACKUP BOWL O-RING</td>
<td>BUNA, 90 DUROMETER</td>
<td>1</td>
</tr>
</tbody>
</table>

**Notes:**
- SOLID TEFLOM O-RINGS ARE NOT TO BE USED ON BOWLS.
- TEFLOM COATED VITON O-RINGS MAY BE USED.
- ALWAYS THE SAME
4500 ACESSORY PORTS

<table>
<thead>
<tr>
<th>P/N Prefix</th>
<th>P/N Suffix(es)</th>
<th>Description</th>
<th>Top View Figure #</th>
</tr>
</thead>
<tbody>
<tr>
<td>45xy</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- NV: Visual/Electrical Indicator Ports
- R: Bypass Ports
- S*: S-Ports
- NVR: Visual/Electrical Indicator and Bypass Ports
- NV-S*: Visual/Electrical and S-Ports
- NV-NV: Visual and Visual Indicator
- R-S*: Bypass and reversed S-Ports
- RF: Reverse Flow
- RF-S*: Reverse Flow with reversed S-Ports

#1 Visual/Electrical Indicator Port
#2 Bypass Port
#3 Standard S-ports
#4 Visual/Electrical and Bypass Ports
#5 Visual/Electrical Indicator Port with S-Ports
#6 2 Visual/Electrical Indicator Ports
#7 Bypass Port with S-Ports
#8 Reverse S-ports

**TABLE D - FILTER HEAD**

<table>
<thead>
<tr>
<th>Port Code 'xx'</th>
<th>Port Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>1/4&quot;-18 FNPT</td>
</tr>
<tr>
<td>35</td>
<td>1/2&quot;-14 FNPT</td>
</tr>
<tr>
<td>36</td>
<td>3/4&quot;-14 FNPT</td>
</tr>
<tr>
<td>37</td>
<td>1&quot;-11.5 FNPT</td>
</tr>
<tr>
<td>45</td>
<td>SAE AS55202-04</td>
</tr>
<tr>
<td>65</td>
<td>SAE AS55202-06</td>
</tr>
<tr>
<td>45S</td>
<td>SAE AS55202-08</td>
</tr>
<tr>
<td>75S</td>
<td>SAE AS55202-12</td>
</tr>
<tr>
<td>75S</td>
<td>SAE AS55202-16</td>
</tr>
<tr>
<td>4J</td>
<td>SAE J-1926/1-4</td>
</tr>
<tr>
<td>6J</td>
<td>SAE J-1926/1-6</td>
</tr>
<tr>
<td>45J</td>
<td>SAE J-1926/1-8</td>
</tr>
<tr>
<td>75J</td>
<td>SAE J-1926/1-12</td>
</tr>
<tr>
<td>76J</td>
<td>SAE J-1926/1-16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code 'y'</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7075 T-651 Aluminum</td>
</tr>
<tr>
<td>D</td>
<td>2205 Duplex</td>
</tr>
<tr>
<td>G</td>
<td>303 Stainless Steel</td>
</tr>
<tr>
<td>M</td>
<td>400 Monel</td>
</tr>
<tr>
<td>T</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

**TOLERANCES ON:**
- 2 PLACE DECIMAL:  .XX +/-0.01
- 3 PLACE DECIMAL:  .XXX +/-0.005
- ANGULAR:  +/- 0.5º

**UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES**

- PART TO BE FREE OF BURRS
- REMOVE SHARP EDGES (FILLET 0.005" - 0.020") MEASUREMENT NOT REQUIRED
- SURFACE FINISH 125 Ra UNLESS NOTED, VISUAL INSPECTION ONLY REQUIRED
- IF PART REVISION IS NOT SPECIFIED, PART REV. MATCHES DRAWING REV.
- NFC WORKMANSHIP STANDARD DMF01-24 APPLIES

**PHONE (708)430-4000 - FAX (708)430-5961**

**9850 SOUTH INDUSTRIAL DRIVE - BRIDGEVIEW, IL 60455**

**NORMAN FILTER COMPANY**

**CAGE CODE SIZE**

**59165**

**SHEET 5 OF 5**