

**GENUINE**  
**MEIARIS**



**YOUR SOURCE FOR HIGH QUALITY  
VANE PUMPS AND COMPONENTS**

**VANE PRODUCT LISTING**  
**EFFECTIVE: APRIL 1, 2011**

# VANE PRODUCT LISTING

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All items are Metaris manufactured; OEM part #'s are displayed for reference purpose only. Prices subject to change without notice.

# Vane Pumps

| <b>SERIES</b>   |
|---|
| V10   |
| V10 F / P   |
| V10 NF  |
| V20   |
| V20 with B mount (NPT Only)                             |
| V20 F/ P  |
| V20 NF  |
| V20 F with B mount (NPT Only)                           |
| V20P with B mount (NPT Only)                            |
| V20 NF with B mount (NPT Only)                          |
| V2010   |
| V2010 F / P   |
| V2020   |
| V2020 F / P   |
| VTM42   |
| VTM42 with RESERVOIR KIT (70 CU. IN.)                   |
| VTM42 with RESERVOIR KIT (115 CU. IN.)                  |
| <b>SINGLE VANE PUMPS</b>                                |
| 20V/VQ SINGLE   |
| 25V/VQ SINGLE   |
| 35V/VQ SINGLE   |
| 45V/VQ SINGLE   |
| <b>SINGLE THRU-DRIVE VANE PUMPS</b>                     |
| 25VQT - with A mount                                    |
| 25VQT - with B mount                                    |
| 35VQT - with A mount                                    |
| 35VQT - with B mount                                    |
| 35VQT - with C mount                                    |
| 45VQT - with A mount                                    |
| 45VQT - with B mount                                    |
| 45VQT - with C mount                                    |
| <b>PRICE INCLUDES STANDARD SPLINED / KEYED SHAFT</b>    |
| 2520V/VQ TANDEM   |
| 3520V/VQ TANDEM   |
| 3525V/VQ TANDEM   |
| 4520V/VQ TANDEM   |
| 4525V/VQ TANDEM   |
| 4535V/VQ TANDEM   |
| <b>CUSTOM SHAFTS AVAILABLE FOR MOST SERIES OF PUMPS</b> |
| 2520VQV10 TRIPLE  |
| 3520VQV10 TRIPLE  |
| 3525VQV10 TRIPLE  |
| 4535VQV10 TRIPLE  |
| 3525VQV20 TRIPLE  |
| 4525VQV20 TRIPLE  |

# Vane Pumps

| <b>SERIES</b>  |
|--|
| <i>INCLUDES STANDARD SPLINED SHAFT</i>                 |
| <b>HIGH PRESSURE VANE PUMPS (32 DESIGN)</b>            |
| 35VQH SINGLE   |
| 45VQH SINGLE   |
| 3520VQH DOUBLE   |
| 3525VQH DOUBLE   |
| 4520VQH DOUBLE   |
| 4525VQH DOUBLE   |
| 4535VQH DOUBLE   |
| 3520VQHV10 TRIPLE                                      |
| 3525VQHV10 TRIPLE                                      |
| 4535VQHV10 TRIPLE                                      |
| <i>FOR MORE INFORMATION PLEASE CONTACT SALES DEPT.</i> |

# Cartridge Kit Summary

| <b>SERIES</b>                                   |
|---|
| V10 - 1/2/3/4/5/6/7 GPM                         |
| V20 - 6/7/8/9/10/11/12/13 GPM                   |
| V2010/V2020 Front Cartridges                    |
| VTM42 - 1/1.5/2/4/5/6 GPM                       |
| <b>MOBILE &amp; INDUSTRIAL APPLICATION KITS</b> |
| 20V/VQ - 5/8/9/11/12/14 GPM                     |
| 25V/VQ - 12/14/17/19/21 GPM                     |
| 30V/VQ - 24/28 GPM                              |
| 35V/VQ- 21/25/30/35/38 GPM                      |
| 45V/VQ - 42/47/50/57/60 GPM                     |
| <b>22 Design High Pressure Cartridge Kits</b>   |
| 20VQH -5/8/9/11/12/14 GPM                       |
| 25VQH - 12/14/17/19/21 GPM                      |
| 35VQH - 25/30/35/38 GPM                         |
| 45VQH - 42/50/57/60 GPM                         |
| <b>32 Design High Pressure Cartridge Kits</b>   |
| 35VQH - 35/38 GPM                               |
| 45VQH - 50/57/60 GPM                            |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION            |
|------------|---------------|------------------------|
| N20-40-051 |               | CARTRIDGE 20V05 V-X-L  |
| N20-40-052 |               | CARTRIDGE 20V05 V-X-R  |
| N20-40-053 |               | CARTRIDGE 20V05 V-B-L  |
| N20-40-054 |               | CARTRIDGE 20V05 V-B-R  |
| N20-40-055 |               | CARTRIDGE 20V05 N-X-L  |
| N20-40-056 | M585471       | CARTRIDGE 20V05 N-X-R  |
| N20-40-057 |               | CARTRIDGE 20V05 N-B-L  |
| N20-40-058 |               | CARTRIDGE 20V05 N-B-R  |
| N20-40-081 |               | CARTRIDGE 20V08 V-X-L  |
| N20-40-082 |               | CARTRIDGE 20V08 V-X-R  |
| N20-40-083 |               | CARTRIDGE 20V08 V-B-L  |
| N20-40-084 |               | CARTRIDGE 20V08 V-B-R  |
| N20-40-085 |               | CARTRIDGE 20V08 N-X-L  |
| N20-40-086 | M585473       | CARTRIDGE 20V08 N-X-R  |
| N20-40-087 |               | CARTRIDGE 20V08 N-B-L  |
| N20-40-088 |               | CARTRIDGE 20V08 N-B-R  |
| N20-40-111 |               | CARTRIDGE 20V11 V-X-L  |
| N20-40-112 |               | CARTRIDGE 20V11 V-X-R  |
| N20-40-113 |               | CARTRIDGE 20V11 V-B-L  |
| N20-40-114 |               | CARTRIDGE 20V11 V-B-R  |
| N20-40-115 |               | CARTRIDGE 20V11 N-X-L  |
| N20-40-116 | M585475       | CARTRIDGE 20V11 N-X-R  |
| N20-40-117 |               | CARTRIDGE 20V11 N-B-L  |
| N20-40-118 |               | CARTRIDGE 20V11 N-B-R  |
| N20-40-121 |               | CARTRIDGE 20V12 V-X-L  |
| N20-40-122 |               | CARTRIDGE 20V12 V-X-R  |
| N20-40-123 |               | CARTRIDGE 20V12 V-B-L  |
| N20-40-124 |               | CARTRIDGE 20V12 V-B-R  |
| N20-40-125 |               | CARTRIDGE 20V12 N-X-L  |
| N20-40-126 | M585476       | CARTRIDGE 20V12 N-X-R  |
| N20-40-128 |               | CARTRIDGE 20V12 N-B-R  |
| N20-40-141 |               | CARTRIDGE 20V14 V-X-L  |
| N20-40-142 |               | CARTRIDGE 20V14 V-X-R  |
| N20-40-143 |               | CARTRIDGE 20V14 V-B-L  |
| N20-40-144 |               | CARTRIDGE 20V14 V-B-R  |
| N20-40-145 |               | CARTRIDGE 20V14 N-X-L  |
| N20-40-146 | M585477       | CARTRIDGE 20V14 N-X-R  |
| N20-40-146 |               | CARTRIDGE 20V14 N-X-R  |
| N20-40-147 |               | CARTRIDGE 20V14 N-B-L  |
| N20-40-148 |               | CARTRIDGE 20V14 N-B-R  |
| N20-41-051 |               | CARTRIDGE 20VQ05 V-X-L |
| N20-41-052 |               | CARTRIDGE 20VQ05 V-X-R |
| N20-41-053 |               | CARTRIDGE 20VQ05 V-B-L |
| N20-41-054 |               | CARTRIDGE 20VQ05 V-B-R |
| N20-41-055 |               | CARTRIDGE 20VQ05 N-X-L |
| N20-41-056 |               | CARTRIDGE 20VQ05 N-X-R |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION             |
|------------|---------------|-------------------------|
| N20-41-057 |               | CARTRIDGE 20VQ05 N-B-L  |
| N20-41-058 |               | CARTRIDGE 20VQ05 N-B-R  |
| N20-41-081 |               | CARTRIDGE 20VQ08 V-X-L  |
| N20-41-082 |               | CARTRIDGE 20VQ08 V-X-R  |
| N20-41-083 |               | CARTRIDGE 20VQ08 V-B-L  |
| N20-41-084 |               | CARTRIDGE 20VQ08 V-B-R  |
| N20-41-085 |               | CARTRIDGE 20VQ08 N-X-L  |
| N20-41-086 |               | CARTRIDGE 20VQ08 N-X-R  |
| N20-41-087 |               | CARTRIDGE 20VQ08 N-B-L  |
| N20-41-088 |               | CARTRIDGE 20VQ08 N-B-R  |
| N20-41-091 |               | CARTRIDGE 20VQ09 V-X-L  |
| N20-41-092 |               | CARTRIDGE 20VQ09 V-X-R* |
| N20-41-093 |               | CARTRIDGE 20VQ09 V-B-L  |
| N20-41-094 |               | CARTRIDGE 20VQ09 V-B-R  |
| N20-41-095 |               | CARTRIDGE 20VQ09 N-X-L  |
| N20-41-096 |               | CARTRIDGE 20VQ09 N-X-R  |
| N20-41-097 |               | CARTRIDGE 20VQ09 N-B-L  |
| N20-41-098 |               | CARTRIDGE 20VQ09 N-B-R  |
| N20-41-111 |               | CARTRIDGE 20VQ11 V-X-L  |
| N20-41-112 |               | CARTRIDGE 20VQ11 V-X-R  |
| N20-41-113 |               | CARTRIDGE 20VQ11 V-B-L  |
| N20-41-114 |               | CARTRIDGE 20VQ11 V-B-R  |
| N20-41-115 |               | CARTRIDGE 20VQ11 N-X-L  |
| N20-41-116 |               | CARTRIDGE 20VQ11 N-X-R  |
| N20-41-117 |               | CARTRIDGE 20VQ11 N-B-L  |
| N20-41-118 |               | CARTRIDGE 20VQ11 N-B-R  |
| N20-41-121 |               | CARTRIDGE 20VQ12 V-X-L  |
| N20-41-122 |               | CARTRIDGE 20VQ12 V-X-R  |
| N20-41-123 |               | CARTRIDGE 20VQ12 V-B-L  |
| N20-41-124 |               | CARTRIDGE 20VQ12 V-B-R  |
| N20-41-125 |               | CARTRIDGE 20VQ12 N-X-L  |
| N20-41-126 |               | CARTRIDGE 20VQ12 N-X-R  |
| N20-41-127 |               | CARTRIDGE 20VQ12 N-B-L  |
| N20-41-128 |               | CARTRIDGE 20VQ12 N-B-R  |
| N20-41-141 |               | CARTRIDGE 20VQ14 V-X-L  |
| N20-41-142 |               | CARTRIDGE 20VQ14 V-X-R  |
| N20-41-143 |               | CARTRIDGE 20VQ14 V-B-L  |
| N20-41-144 |               | CARTRIDGE 20VQ14 V-B-R  |
| N20-41-145 |               | CARTRIDGE 20VQ14 N-X-L  |
| N20-41-146 |               | CARTRIDGE 20VQ14 N-X-R  |
| N20-41-147 |               | CARTRIDGE 20VQ14 N-B-L  |
| N20-41-148 |               | CARTRIDGE 20VQ14 N-B-R  |
| N20-45-051 |               | CARTRIDGE 20VQ05 TRP    |
| N20-45-081 |               | CARTRIDGE 20VQ08 TRP    |
| N20-45-091 |               | CARTRIDGE 20VQ09 TRP    |
| N20-45-111 |               | CARTRIDGE 20VQ11 TRP    |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION            |
|------------|---------------|------------------------|
| N20-45-121 |               | CARTRIDGE 20VQ12 TRP   |
| N20-45-141 |               | CARTRIDGE 20VQ14 TRP   |
| N25-40-122 | M102544       | CARTRIDGE25V12V-X-R    |
| N25-40-124 | M102540       | CARTRIDGE25V12V-B-R    |
| N25-40-126 | M591091       | CARTRIDGE25V12N-X-R    |
| N25-40-128 | M591002       | CARTRIDGE25V12N-B-R    |
| N25-40-142 | M102545       | CARTRIDGE25V14V-X-R    |
| N25-40-144 | M102541       | CARTRIDGE25V14V-B-R    |
| N25-40-146 | M591092       | CARTRIDGE25V14N-X-R    |
| N25-40-148 | M591003       | CARTRIDGE25V14N-B-R    |
| N25-40-172 | M102546       | CARTRIDGE25V17V-X-R    |
| N25-40-173 |               | CARTRIDGE 25V17 V-B-L  |
| N25-40-174 | M102542       | CARTRIDGE25V17V-B-R    |
| N25-40-176 | M102538       | CARTRIDGE25V17N-X-R    |
| N25-40-178 | M102534       | CARTRIDGE25V17N-B-R    |
| N25-40-211 |               | CARTRIDGE 25V21 V-X-L  |
| N25-40-212 | M102547       | CARTRIDGE25V21V-X-R    |
| N25-40-214 | M102543       | CARTRIDGE25V21V-B-R    |
| N25-40-216 | M102539       | CARTRIDGE25V21N-X-R    |
| N25-40-216 |               | CARTRIDGE 25V21 N-X-R  |
| N25-40-218 | M102535       | CARTRIDGE25V21N-B-R    |
| N25-41-121 | M421576-L     | CARTRIDGE25VQ12V-X-L   |
| N25-41-122 |               | CARTRIDGE 25VQ12 V-X-R |
| N25-41-123 | M421570-L     | CARTRIDGE25VQ12V-B-L   |
| N25-41-124 | M421570       | CARTRIDGE25VQ12V-B-R   |
| N25-41-125 | M421244-L     | CARTRIDGE25VQ12N-X-L   |
| N25-41-126 | M421244       | CARTRIDGE25VQ12N-X-R   |
| N25-41-127 | M416439-L     | CARTRIDGE25VQ12N-B-L   |
| N25-41-128 | M416439       | CARTRIDGE25VQ12N-B-R   |
| N25-41-141 | M421577-L     | CARTRIDGE25VQ14V-X-L   |
| N25-41-142 | M421577       | CARTRIDGE25VQ14V-X-R   |
| N25-41-143 | M421571-L     | CARTRIDGE25VQ14V-B-L   |
| N25-41-144 | M421571       | CARTRIDGE25VQ14V-B-R   |
| N25-41-145 | M421235-L     | CARTRIDGE25VQ14N-X-L   |
| N25-41-146 | M421235       | CARTRIDGE25VQ14N-X-R   |
| N25-41-147 | M416440-L     | CARTRIDGE25VQ14N-B-L   |
| N25-41-148 | M416440       | CARTRIDGE25VQ14N-B-R   |
| N25-41-164 | M578174       | CARTRIDGE25VQ16V-B-R   |
| N25-41-171 | M421578-L     | CARTRIDGE25VQ17V-X-L   |
| N25-41-172 | M421578       | CARTRIDGE25VQ17V-X-R   |
| N25-41-173 | M421572-L     | CARTRIDGE25VQ17V-B-L   |
| N25-41-174 | M421572       | CARTRIDGE25VQ17V-B-R   |
| N25-41-175 | M421236-L     | CARTRIDGE25VQ17N-X-L   |
| N25-41-176 | M421236       | CARTRIDGE25VQ17N-X-R   |
| N25-41-177 | M416441-L     | CARTRIDGE25VQ17N-B-L   |
| N25-41-178 | M416441       | CARTRIDGE25VQ17N-B-R   |



# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION            |
|------------|---------------|------------------------|
| N25-41-191 | M421579-L     | CARTRIDGE25VQ19V-X-L   |
| N25-41-192 | M421579       | CARTRIDGE25VQ19V-X-R   |
| N25-41-193 | M421573-L     | CARTRIDGE25VQ19V-B-L   |
| N25-41-194 | M421573       | CARTRIDGE25VQ19V-B-R   |
| N25-41-195 | M421237-L     | CARTRIDGE25VQ19N-X-L   |
| N25-41-196 | M421237       | CARTRIDGE25VQ19N-X-R   |
| N25-41-197 | M421232-L     | CARTRIDGE25VQ19N-B-L   |
| N25-41-198 | M421232       | CARTRIDGE25VQ19N-B-R   |
| N25-41-211 | M421580-L     | CARTRIDGE25VQ21V-X-L   |
| N25-41-212 | M421580       | CARTRIDGE25VQ21V-X-R   |
| N25-41-213 | M421574-L     | CARTRIDGE25VQ21V-B-L   |
| N25-41-214 |               | CARTRIDGE 25VQ21 V-B-R |
| N25-41-215 | M421238-L     | CARTRIDGE25VQ21N-X-L   |
| N25-41-216 | M421238       | CARTRIDGE25VQ21N-X-R   |
| N25-41-217 | M416442-L     | CARTRIDGE25VQ21N-B-L   |
| N25-41-218 | M416442       | CARTRIDGE25VQ21N-B-R   |
| N25-42-123 |               | CARTRIDGE 25VQH12-L-22 |
| N25-42-124 |               | CARTRIDGE 25VQH12-R-22 |
| N25-42-143 |               | CARTRIDGE 25VQH14-L-22 |
| N25-42-144 |               | CARTRIDGE 25VQH14-R-22 |
| N25-42-173 |               | CARTRIDGE 25VQH17-L-22 |
| N25-42-174 |               | CARTRIDGE 25VQH17-R-22 |
| N25-42-193 |               | CARTRIDGE 25VQH19-L-22 |
| N25-42-194 |               | CARTRIDGE 25VQH19-R-22 |
| N25-42-213 |               | CARTRIDGE 25VQH21-L-22 |
| N25-42-214 |               | CARTRIDGE 25VQH21-R-22 |
| N25-45-122 | M581851       | CARTRIDGE25VQ12TRP     |
| N25-45-142 | M581852       | CARTRIDGE25VQ14TRP     |
| N25-45-172 | M581853       | CARTRIDGE25VQ17TRP     |
| N25-45-192 | M581854       | CARTRIDGE25VQ19TRP     |
| N25-45-211 | M581855-L     | CARTRIDGE25VQ21TRP-L   |
| N25-45-212 | M581855       | CARTRIDGE25VQ21TRP     |
| N30-41-243 | M421645-L     | CARTRIDGE 30VQ24 V-B-L |
| N30-41-244 | M421645       | CARTRIDGE 30VQ24 V-B-R |
| N30-41-247 | M417052-L     | CARTRIDGE 30VQ24 N-B-L |
| N30-41-248 | M417052       | CARTRIDGE 30VQ24 N-B-R |
| N30-41-287 | M416452-L     | CARTRIDGE 30VQ28 N-B-L |
| N30-41-288 | M416452       | CARTRIDGE 30VQ28 N-B-R |
| N35-40-214 |               | CARTRIDGE 35V21 V-B-R  |
| N35-40-252 | M102564       | CARTRIDGE 35V25 V-X-R  |
| N35-40-254 | M102560       | CARTRIDGE35V25 V-B-R   |
| N35-40-256 | M102556       | CARTRIDGE 35V25 N-X-R  |
| N35-40-257 | M102552-L     | CARTRIDGE35V25 N-B-L   |
| N35-40-258 | M102552       | CARTRIDGE 35V25 N-B-R  |
| N35-40-302 | M102565       | CARTRIDGE 35V30 V-X-R  |
| N35-40-304 | M102561       | CARTRIDGE35V30 V-B-R   |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION            |
|------------|---------------|------------------------|
| N35-40-306 | M102557       | CARTRIDGE 35V30 N-X-R  |
| N35-40-308 | M102553       | CARTRIDGE 35V30 N-B-R  |
| N35-40-352 | M102566       | CARTRIDGE 35V35 V-X-R  |
| N35-40-353 |               | CARTRIDGE 35V35 V-B-L  |
| N35-40-354 | M102562       | CARTRIDGE35V35 V-B-R   |
| N35-40-356 | M582350       | CARTRIDGE 35V35 N-X-R  |
| N35-40-358 | M102554       | CARTRIDGE 35V35 N-B-R  |
| N35-40-382 | M102567       | CARTRIDGE 35V38 V-X-R  |
| N35-40-383 |               | CARTRIDGE 35V38 V-B-L  |
| N35-40-384 | M102563       | CARTRIDGE35V38 V-B-R   |
| N35-40-386 | M102559       | CARTRIDGE 35V38 N-X-R  |
| N35-40-388 | M578314       | CARTRIDGE 35V38 N-B-R  |
| N35-41-211 | M421563       | CARTRIDGE35VQ21 V-X-L  |
| N35-41-213 | M421582-L     | CARTRIDGE35VQ21 V-B-L  |
| N35-41-214 | M421582       | CARTRIDGE35VQ21 V-B-R  |
| N35-41-217 | M413420-L     | CARTRIDGE35VQ21 N-B-L  |
| N35-41-218 | M413420       | CARTRIDGE35VQ21 N-B-R  |
| N35-41-251 | M421564-L     | CARTRIDGE35VQ25 V-X-L  |
| N35-41-252 | M421564       | CARTRIDGE35VQ25 V-X-R  |
| N35-41-253 | M421583-L     | CARTRIDGE35VQ25 V-B-L  |
| N35-41-253 |               | CARTRIDGE 35VQ25 V-B-L |
| N35-41-254 | M421583       | CARTRIDGE35VQ25 V-B-R  |
| N35-41-255 | M421240-L     | CARTRIDGE35VQ25 N-X-L  |
| N35-41-256 | M421240       | CARTRIDGE35VQ25 N-X-R  |
| N35-41-257 | M413421-L     | CARTRIDGE35VQ25 N-B-L  |
| N35-41-258 | M413421       | CARTRIDGE35VQ25 N-B-R  |
| N35-41-301 | M421565-L     | CARTRIDGE35VQ30 V-X-L  |
| N35-41-302 | M421565       | CARTRIDGE35VQ30 V-X-R  |
| N35-41-303 | M421584-L     | CARTRIDGE35VQ30 V-B-L  |
| N35-41-304 |               | CARTRIDGE 35VQ30 V-B-R |
| N35-41-305 | M421241-L     | CARTRIDGE35VQ30 N-X-L  |
| N35-41-306 | M421241       | CARTRIDGE35VQ30 N-X-R  |
| N35-41-307 | M413422-L     | CARTRIDGE35VQ30 N-B-L  |
| N35-41-308 | M413422       | CARTRIDGE35VQ30 N-B-R  |
| N35-41-351 | M421566-L     | CARTRIDGE35VQ35 V-X-L  |
| N35-41-352 | M421566       | CARTRIDGE35VQ35 V-X-R  |
| N35-41-353 | M421585-L     | CARTRIDGE35VQ35 V-B-L  |
| N35-41-354 | M421585       | CARTRIDGE35VQ35 V-B-R  |
| N35-41-355 | M421242-L     | CARTRIDGE35VQ35 N-X-L  |
| N35-41-356 | M421242       | CARTRIDGE35VQ35 N-X-R  |
| N35-41-357 | M413418-L     | CARTRIDGE35VQ35 N-B-L  |
| N35-41-358 | M413418       | CARTRIDGE35VQ35 N-B-R  |
| N35-41-381 | M421567-L     | CARTRIDGE35VQ38 V-X-L  |
| N35-41-382 | M421567       | CARTRIDGE35VQ38 V-X-R  |
| N35-41-383 | M421586-L     | CARTRIDGE35VQ38 V-B-L  |
| N35-41-384 | M421586       | CARTRIDGE35VQ38 V-B-R  |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION               |
|------------|---------------|---------------------------|
| N35-41-385 | M421243-L     | CARTRIDGE35VQ38 N-X-L     |
| N35-41-386 | M421243       | CARTRIDGE35VQ38 N-X-R     |
| N35-41-387 | M413419-L     | CARTRIDGE35VQ38 N-B-L     |
| N35-41-388 | M413419       | CARTRIDGE35VQ38 N-B-R     |
| N35-42-253 |               | CARTRIDGE 35VQH25-L-22    |
| N35-42-303 |               | CARTRIDGE 35VQH30-L-22    |
| N35-42-304 |               | CARTRIDGE 35VQH30-R-22    |
| N35-42-353 |               | CARTRIDGE 35VQH35-L-22    |
| N35-42-354 |               | CARTRIDGE 35VQH35-R-22    |
| N35-42-383 |               | CARTRIDGE 35VQH38-L-22    |
| N35-42-384 |               | CARTRIDGE 35VQH38-R-22    |
| N35-44-354 |               | CARTRIDGE 35VQH35-R-32    |
| N35-44-383 |               | CARTRIDGE 35VQH38-L-32    |
| N35-44-384 |               | CARTRIDGE 35VQH38-R-32    |
| N35-45-214 | M583338       | CARTRIDGE35VQ21 TRP       |
| N35-45-254 | M583339       | CARTRIDGE35VQ25 TRP       |
| N35-45-301 | M583340-L     | CARTRIDGE35VQ30 V-X-L TRP |
| N35-45-304 | M583340       | CARTRIDGE35VQ30 TRP       |
| N35-45-354 | M383341       | CARTRIDGE35VQ35 TRP       |
| N35-45-384 | M583342       | CARTRIDGE35VQ38 TRP       |
| N45-40-424 | M102576       | CARTRIDGE 45V42 V-B-R     |
| N45-40-428 | M102572       | CARTRIDGE 45V42 N-B-R     |
| N45-40-454 | M586331       | CARTRIDGE 45V45 V-B-R     |
| N45-40-458 | M582572       | CARTRIDGE 45V45 N-B-R     |
| N45-40-504 | M102577       | CARTRIDGE 45V50 V-B-R     |
| N45-40-508 | M581664       | CARTRIDGE 45V50 N-B-R     |
| N45-40-603 | M102578-L     | CARTRIDGE 45V60 V-B-L     |
| N45-40-604 | M102578       | CARTRIDGE 45V60 V-B-R     |
| N45-40-608 | M102575       | CARTRIDGE 45V60 N-B-R     |
| N45-41-423 | M419511-L     | CARTRIDGE 45VQ42 V-B-L    |
| N45-41-424 |               | CARTRIDGE 45VQ42 V-B-R    |
| N45-41-427 | M416435-L     | CARTRIDGE 45VQ42 N-B-L    |
| N45-41-428 | M416435       | CARTRIDGE 45VQ42 N-B-R    |
| N45-41-473 | M421954-L     | CARTRIDGE 45VQ47 V-B-L    |
| N45-41-474 | M421954       | CARTRIDGE 45VQ47 V-B-R    |
| N45-41-477 | M421234-L     | CARTRIDGE 45VQ47 N-B-L    |
| N45-41-478 | M421234       | CARTRIDGE 45VQ47 N-B-R    |
| N45-41-503 | M419510-L     | CARTRIDGE 45VQ50 V-B-L    |
| N45-41-504 |               | CARTRIDGE 45VQ50 V-B-R    |
| N45-41-507 | M416436-L     | CARTRIDGE 45VQ50 N-B-L    |
| N45-41-508 | M416436       | CARTRIDGE 45VQ50 N-B-R    |
| N45-41-573 | M421955-L     | CARTRIDGE 45VQ57 V-B-L    |
| N45-41-574 |               | CARTRIDGE 45VQ57 V-B-R    |
| N45-41-577 | M421233-L     | CARTRIDGE 45VQ57 N-B-L    |
| N45-41-578 | M421233       | CARTRIDGE 45VQ57 N-B-R    |
| N45-41-603 | M419509-L     | CARTRIDGE 45VQ60 V-B-L    |

# Cartridge Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION               |
|------------|---------------|---------------------------|
| N45-41-604 | M419509       | CARTRIDGE 45VQ60 V-B-R    |
| N45-41-607 | M416437-L     | CARTRIDGE 45VQ60 N-B-L    |
| N45-41-608 | M416437       | CARTRIDGE 45VQ60 N-B-R    |
| N45-42-424 |               | CARTRIDGE 45VQH42-R-22    |
| N45-42-503 | M582355-L     | CARTRIDGE 45VQH50-L-F3-22 |
| N45-42-504 | M582355       | CARTRIDGE 45VQH50-R-22    |
| N45-42-573 | M478047-L     | CARTRIDGE 45VQH57-L-22    |
| N45-42-574 |               | CARTRIDGE 45VQH57-R-22    |
| N45-42-603 |               | CARTRIDGE 45VQH60-L-22    |
| N45-42-604 | M591425       | CARTRIDGE 45VQH60-R-22    |
| N45-44-503 |               | CARTRIDGE 45VQH50-L-32    |
| N45-44-504 |               | CARTRIDGE 45VQH50-R-32    |
| N45-44-573 |               | CARTRIDGE 45VQH57-L-32    |
| N45-44-574 |               | CARTRIDGE 45VQH57-R-32    |
| N45-44-603 |               | CARTRIDGE 45VQH60-L-32    |
| N45-44-604 |               | CARTRIDGE 45VQH60-R-32    |
| N45-45-504 |               | CARTRIDGE 45VQV50-22      |
| N45-45-604 |               | CARTRIDGE 45VQV60-22      |
| V10-40-010 | M923471       | CARTRIDGE V10-01          |
| V10-40-020 | M923470       | CARTRIDGE V10-02          |
| V10-40-030 | M923496       | CARTRIDGE V10-03          |
| V10-40-040 | M923469       | CARTRIDGE V10-04          |
| V10-40-050 | M923468       | CARTRIDGE V10-05          |
| V10-40-060 | M923497       | CARTRIDGE V10-06          |
| V10-40-070 | M923498       | CARTRIDGE V10-07          |
| V20-40-050 | M02-137570    | CARTRIDGE V20-05F3        |
| V20-40-060 | M02-137571    | CARTRIDGE V20-06F3        |
| V20-40-070 | M02-137572    | CARTRIDGE V20-07F3        |
| V20-40-080 | M02-137573    | CARTRIDGE V20-08F3        |
| V20-40-090 | M02-137574    | CARTRIDGE V20-09F3        |
| V20-40-100 | M02-137575    | CARTRIDGE V20-10F3        |
| V20-40-110 | M02-137576    | CARTRIDGE V20-11F3        |
| V20-40-120 | M02-137577    | CARTRIDGE V20-12F3        |
| V20-40-130 | M02-137578    | CARTRIDGE V20-13F3        |
| V21-40-050 | M02-141745    | CARTRIDGE V2010-5GPM      |
| V21-40-060 | M02-141746    | CARTRIDGE V2010-6GPM      |
| V21-40-070 | M02-152006    | CARTRIDGE V2010-7GPM      |
| V21-40-080 | M02-152007    | CARTRIDGE V2010-8GPM      |
| V21-40-090 | M02-152008    | CARTRIDGE V2010-9GPM      |
| V21-40-100 | M02-152009    | CARTRIDGE V2010-10GPM     |
| V21-40-110 | M02-152010    | CARTRIDGE V2010-11GPM     |
| V21-40-120 | M02-152011    | CARTRIDGE V2010-12GPM     |
| V21-40-130 | M02-152012    | CARTRIDGE V2010-13GPM     |
| V42-40-010 | M923087       | CARTRIDGE 1.0 GPM         |
| V42-40-015 | M923088       | CARTRIDGE 1.5 GPM         |
| V42-40-020 | M923089       | CARTRIDGE 2.0 GPM         |

# ***Cartridge Kits***

| <b>METARIS #</b> | <b>ALTERNATIVE #</b> | <b>DESCRIPTION</b> |
|------------------|----------------------|--------------------|
| V42-40-040       | M923090              | CARTRIDGE 4.0 GPM  |
| V42-40-050       | M923091              | CARTRIDGE 5.0 GPM  |
| V42-40-060       | M923092              | CARTRIDGE 6.0 GPM  |

# Shafts

| METARIS #     | ALTERNATIVE # | DESCRIPTION                         |
|---------------|---------------|-------------------------------------|
| MPN000685     | M116644       | V210-001 SHAFT KEYED                |
| MPN000688     | M120037       | V210-003 SHAFT KEYED                |
| MPN000690     | M131420       | V210-006 SHAFT                      |
| N20-50-120    | M497109       | 20VQ-001 SHAFT KEYED S/A            |
| N20-50-320    | M497113       | 20VQ-151 SHAFT SPLINED S/A          |
| N25201-50-32  | M913330       | 2520VQV10-297 SHAFT SPLINED S/A     |
| N25201-50-33  | M944154       | 2520VQV10-298 SHAFT SPLINED S/A     |
| N25201-50-34  | M574831       | 2520VQV10-171 SHAFT SPLINED CAT     |
| N2520-50-121  | M254964       | 2520VQ-001 SHAFT KEYED S/A          |
| N2520-50-122  | M387448       | 2520VQ-003 SHAFT KEYED S/A          |
| N2520-50-131  | M419083       | 2520VQ-086 SHAFT                    |
| N2520-50-132  |               | 2520VQ-182 SHAFT KEYED              |
| N2520-50-320  | M413433       | 2520VQ-011/123 SHAFT SPLINED S/A    |
| N2520-50-330  | M287333       | 2520VQ-049 SHAFT SPLINED S/A SPCL   |
| N2520-50-341  | M576247       | 2520VQ-145 SHAFT SPLINE CATAP. ONLY |
| N2520-50-342  | M413021       | 2520VQ-025 SHAFT SPLINE XLONG S/A   |
| N2520-50-360  |               | 2520VQ-121 SHAFT SPLINED            |
| N2520-50-630  | M309130       | 2520VQ-005 SHAFT TAPERED S/A        |
| N25-50-121    | M238755       | 25VQ-001 SHAFT KEYED S/A            |
| N25-50-122    | M242747       | 25VQ-003 SHAFT KEYED S/A            |
| N25-50-130    | M478826       | 25VQ-025 SHAFT SPLINED S/A SPCL     |
| N25-50-320    | M238929       | 25VQ-011 SHAFT SPLINED S/A          |
| N25-50-330    | M402105       | 25VQ-105 SHAFT SPLINED S/A SPCL     |
| N25-50-341    | M270187       | 25VQ-025 SHAFT SPLINED S/A SPCL     |
| N25-50-342    | M413018       | 25VQ-109 SHAFT SPLINED S/A SPCL     |
| N25-50-343    | M585311       | 25VQ-112 SHAFT SPLINED S/A SPCL     |
| N25-50-344    | M424457       | 25VQ-127 SHAFT SPLINED S/A SPCL     |
| N25-50-630    | M242784       | 25VQ-005 SHAFT TAPERED SPCL         |
| N26-50-330    | M402104       | 26VQ-104 SHAFT SPLINED S/A SPCL     |
| N26-50-631    | M424086       | 26VQ-132 SHAFT TAPERED SPCL         |
| N26-50-632    | M578154       | 26VQ-149 SHAFT TAPERED SPCL         |
| N35201-50-34  | M913608       | 3520VQV10-297 SHAFT SPLINED S/A     |
| N3520-50-140  | M258249       | 3520VQ-001 SHAFT KEYED S/A          |
| N3520-50-170  | M394517       | 3520VQ-086 SHAFT KEYED HEAVYDUTY    |
| N3520-50-341  | M258250       | 3520VQ-011 SHAFT SPLINED S/A        |
| N3520-50-342  | M413022       | 3520VQ-019 SHAFT SPLINE S/A XL SPCL |
| N3520-50-343  | M413434       | 3520VQ-114 SHAFT SPLINED S/A        |
| N3520-50-344  | M584371       | 3520VQ-160 SHAFT                    |
| N35251-50-170 |               | 3525VQV10-086 SHAFT                 |
| N35251-50-34  | M883250       | 3525VQV10-297 SHAFT SPLINED         |
| N35251-50-342 |               | 3525VQV10-297 SHAFT SPLINED         |
| N3525-50-140  | M243448       | 3525VQ-001 SHAFT                    |
| N3525-50-170  | M394036       | 3525VQ-086 SHAFT KEYED              |
| N3525-50-341  | M243449       | 3525VQ-011 SHAFT SPLINED            |
| N3525-50-342  | M247019       | 3525VQ-019 SHAFT XLONG              |

# Shafts

| METARIS #     | ALTERNATIVE # | DESCRIPTION                         |
|---------------|---------------|-------------------------------------|
| N3525-50-343  | M285417       | 3525VQ-033/111 SHAFT SPLINED SPCL   |
| N3525-50-344  | M432701       | 3525VQ-123 SHAFT SPLINED            |
| N3525-50-345  | M432632       | 3525VQ-142 SHAFT SPLINED SPCL       |
| N3525-50-346  | M913757       | 3525VQT-297 SHAFT SPLINE THRU DRIVE |
| N35-50-140    | M233624       | 35VQ-001 SHAFT KEYED S/A            |
| N35-50-170    | M392669       | 35VQ-086 SHAFT KEYED HEAVYDUTY      |
| N35-50-341    | M413019       | 35VQ-004 SHAFT SPLINED S/A SPCL     |
| N35-50-342    | M242287       | 35VQ-011 SHAFT SPLINED S/A          |
| N35-50-343    | M275270       | 35VQ-019 SHAFT SPLINED S/A XLONG    |
| N35-50-344    | M417331       | 35VQ-127 SHAFT SPLINED S/A SPCL     |
| N35-50-345    | M634895       | 35VQ-173 SHAFT SPLINED S/A SPCL     |
| N35-50-350    | M313317       | 36VQ-064 SHAFT SPLINED S/A SPCL     |
| N35-50-600    | M417333       | 35VQ-129 SHAFT TAPERED SPCL         |
| N45201-51-140 |               | 4520VQHV10-401 SHAFT                |
| N45201-51-340 |               | 4520VQHV10-414 SHAFT                |
| N4520-50-140  | M255533       | 4520VQ-001 SHAFT KEYED S/A          |
| N4520-50-180  | M361761       | 4520VQ-086 SHAFT KEYED HEAVYDUTY    |
| N4520-50-341  | M255536       | 4520VQ-011 SHAFT SPLINED S/A        |
| N4520-50-342  | M413436       | 4520VQ-114 SHAFT SPLINED S/A        |
| N4520-50-343  | M413437       | 4520VQ-115 SHAFT SPLINED S/A SPCL   |
| N4520-51-140  |               | 4520VQH-401 SHAFT                   |
| N4520-51-341  |               | 4520VQH-411 SHAFT                   |
| N4520-51-342  |               | 4520VQH-414 SHAFT                   |
| N45251-51-18  |               | 4525VQHV10-486 SHAFT                |
| N45251-51-340 |               | 4525VQHV10-414 SHAFT                |
| N45252-51-340 | M143-9721     | 4525VQHV20-414 SHAFT SPLINED        |
| N4525-50-140  | M233524       | 4525VQ-001 SHAFT KEYED S/A          |
| N4525-50-181  | M361762       | 4525VQ-086 SHAFT KEYED HEAVYDUTY    |
| N4525-50-341  | M233527       | 4525VQ-011 SHAFT SPLINED S/A        |
| N4525-50-342  | M413024       | 4525VQ-114 SHAFT SPLINED S/A        |
| N4525-50-343  | M413025       | 4525VQ-115 SHAFT SPLINED S/A        |
| N4525-50-344  | M432703       | 4525V-130 SHAFT SPLINED S/A         |
| N4525-50-345  | M913576       | 4525VQT-297 SHFT SPLINED THRU-DRIVE |
| N4525-50-346  |               | SHAFT SPLINED S/A SPCL              |
| N4525-51-140  |               | 4525VQH-401 SHAFT                   |
| N4525-51-341  |               | 4525VQH-411 SHAFT                   |
| N4525-51-342  |               | 4525VQH-414 SHAFT                   |
| N45351-51-340 | M883215       | 4535VQHV10-414 SHAFT SPLINED        |
| N4535-50-140  | M289083       | 4535VQ-001 SHAFT KEYED S/A          |
| N4535-50-180  | M361763       | 4535VQ-086 SHAFT KEYED HEAVYDUTY    |
| N4535-50-341  | M289084       | 4535VQ-011 SHAFT SPLINED S/A        |
| N4535-50-342  | M413027       | 4535VQ-114/019 SHAFT SPLINED XL S/A |
| N4535-50-343  | M413438       | 4535VQ-125 SHAFT SPLINED S/A        |
| N4535-50-344  | M860607       | 4535VQ-219 SHAFT                    |
| N4535-51-140  |               | 4535VQH-401 SHAFT                   |



# Shafts

| METARIS #    | ALTERNATIVE # | DESCRIPTION                         |
|--------------|---------------|-------------------------------------|
| N4535-51-341 |               | 4535VQH-411 SHAFT                   |
| N4535-51-342 |               | 4535VQH-414 SHAFT                   |
| N45-50-140   | M233369       | 45VQ-001 SHAFT KEYED STRAIGHT K S/A |
| N45-50-180   | M361760       | 45VQ-086 SHAFT KEYED HEAVYDUTY S/A  |
| N45-50-341   | M233370       | 45VQ-004 SHAFT SPLINED S/A          |
| N45-50-342   | M242885       | 45VQ-011 SHAFT SPLINED S/A          |
| N45-50-343   | M265575       | 45VQ-019 SHAFT SPLINED XLONG S/A    |
| N45-50-344   | M413020       | 45VQ-111 SHAFT SPLINED S/A SPCL     |
| N45-50-345   | M413430       | 45V/VQ-120 SHAFT SPLINED S/A SPCL   |
| N45-50-346   | M422541       | 45VQ-130 SHAFT SPLINED S/A          |
| N45-50-347   |               | SHAFT SPLINED S/A SPCL              |
| N45-50-390   | M252893       | 45VQ-026 SHAFT SPLINED S/A CAT ONLY |
| N45-51-140   |               | 45VQH-401 SHAFT                     |
| N45-51-180   |               | 45VQH-486 SHAFT                     |
| N45-51-340   |               | 45VQH-411 SHAFT                     |
| V10-50-111   |               | V10-SHAFT KEYED / THREADED          |
| V10-50-112   | M375485       | V10-034 SHAFT KEYED THREADED        |
| V10-50-113   | M374340       | V10-003 SHAFT KEYED THREADED        |
| V10-50-161   | M382250       | V10-006 SHAFT KEYED STRAIGHT        |
| V10-50-162   | M374338       | V10-001 SHAFT KEYED STRAIGHT        |
| V10-50-163   | M378959       | V10-004 SHAFT KEY .750DIA, 1.651EXT |
| V10-50-164   |               | V10-002 SHAFT KEYED STRAIGHT        |
| V10-50-310   | M374339       | V10-011 SHAFT SPLINED               |
| V10-50-320   | M375480       | V10-012 SHAFT SPLINED               |
| V10-50-360   | M387481       | V10-038 SHAFT SPLINED               |
| V10-50-920   | M380281       | V10-027 SHAFT TANG                  |
| V20-50-130   | M280504       | V20-003 SHAFT THR. KEYED, 10-13 GPM |
| V20-50-161   | M297330       | V20-006 SHAFT KEYED                 |
| V20-50-162   | M324043       | V20-010 SHAFT KEYED, 10-13 GPM      |
| V20-50-163   | M280372       | V20-001 SHAFT KEYED                 |
| V20-50-164   |               | V20 SHAFT KEYED / THREADED 1/4 X20  |
| V20-50-311   | M582610       | V20-062 SHAFT SPLINED               |
| V20-50-312   | M307817       | V20-018 SHAFT SPLINED               |
| V20-50-321   | M324047       | V20-023 SHAFT SPLINED               |
| V20-50-322   | M294922       | V20-015 SHAFT SPLINED               |
| V20-50-361   | M280515       | V20-011 SHAFT SPLINE, 10-13 GPM     |
| V20-50-362   |               | ZF 11 TOOTH LG. PUMP SHAFT          |
| V20-50-364   | M328096       | V20-038/138 SHAFT SPLINED           |
| V21-50-120   | M351249       | V2010-001 SHAFT                     |
| V21-50-320   | M321215       | V2010-011 SHAFT                     |
| V22-50-121   | M308925       | V2020-003 SHAFT KEYED               |
| V22-50-122   | M308686       | V2020-001 SHAFT KEYED               |
| V22-50-320   | M308926       | V2020-011 SHAFT SPLINED             |
| V42-50-160   |               | VTM SHAFT KEYED                     |



# Seals and Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                         |
|--------------|---------------|-------------------------------------|
| N20-92-351   | M370084       | 20VQ SPACER                         |
| X01-02-50532 | M9955         | 25V,V2010, V2020 SHAFT # 001 KEY    |
| X01-02-60644 | M3418         | 25VQ-086 SHAFT KEY                  |
| X41-11-09070 | M11156        | 3/8" X 2 3/4" HEX BOLT              |
| X01-02-80854 | M393536       | 35V / 3525V -#086 SHAFT KEY         |
| X01-02-80832 |               | 45V SHAFT# 001 KEY                  |
| X02-01-12160 | M374865       | 5/8" ORB PLUG (3/4"-16TH) HEX HEAD  |
| X81-15-06203 |               | 90 DURO. ORING (NITRILE)            |
| X81-15-08204 |               | 90 DURO. ORING (NITRILE)            |
| X81-15-09804 |               | 90 DURO. ORING (NITRILE)            |
| X85-11-03903 | M588506       | B-U-RING                            |
| X85-11-04403 | M588507       | B-U-RING                            |
| X85-11-06303 | M588508       | B-U-RING                            |
| X85-15-08903 | M138895       | B-U-RING 25VQ                       |
| X85-15-10503 | M271810       | B-U-RING 35VQ                       |
| X85-15-12403 | M271818       | B-U-RING 45VQ                       |
| X85-11-07303 | M141436       | B-U-RING BUNA 20VQ 45VQ             |
| X85-23-03903 | M588506V      | B-U-RING VITON (20 VQ )             |
| X85-23-04403 | M588507V      | B-U-RING VITON (25VQ)               |
| X85-23-06303 | M588508V      | B-U-RING VITON (35VQ)               |
| X85-23-07303 | M588509V      | B-U-RING VITON 45VQ                 |
| N20-03-313   |               | BUSHING 20VQ                        |
| N25-03-320   |               | BUSHING 25VQ                        |
| N35-03-322   | M327009       | BUSHING 35VQ                        |
| N45-03-326   |               | BUSHING 45VQ                        |
| N4525-50-530 | M577937       | COUPLING W/SNAP RING                |
| V10-94-101   | M2460         | DOWEL PIN V10-01/02/03              |
| V20-94-101   |               | DOWEL PIN V20-12/13                 |
| MPN021002    |               | FOOT BRACKET V10                    |
| V42-85-011   | M291667       | GASKET - VTM                        |
| V42-65-074   |               | GASKET 70/115 GA TANK               |
| X41-11-09089 |               | HEX HEAD CAP SCREW 3/8" X 3-1/2"    |
| X41-11-09095 | M265346       | HEX HEAD CAP SCREW 3/8"-16 X 3-3/4" |
| X41-11-13057 |               | HEX-BOLT 1/2" X 2-1/4 REAR (TANDEM) |
| X41-11-09102 |               | HEX-BOLT 3/8" X 4"                  |
| X01-02-91051 | M239751       | KEY 45VQ,4535VQ#86                  |
| X01-02-80844 | M88678        | KEY -5/16 X 5/16 X 1-3/4            |
| X01-02-50025 | M142843       | KEY V10-001                         |
| X01-03-50016 | M1606         | KEY V10-004 VTM 42                  |
| X01-02-50541 | M5881         | KEY V20-001                         |
| X01-03-50025 | M1615         | KEY V20-003                         |
| X41-22-06025 |               | M6 X 25mm SOCKET HEAD CAP SCREW     |
| MPN095067    | M922762       | ME MANIFOLD VTM42                   |
| X42-11-14008 |               | NUT V20-003 HEX JAM NUT             |

# Seals and Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                  |
|--------------|---------------|------------------------------|
| X81-11-00802 |               | O-RING                       |
| X81-11-03104 | M154022       | O-RING                       |
| X81-11-04404 | M154178       | O-RING                       |
| X81-11-04603 | M416418       | O-RING                       |
| X81-11-06203 | M586581       | O-RING                       |
| X81-11-06304 | M154084       | O-RING                       |
| X81-11-07304 | M154087       | O-RING                       |
| X81-11-07604 | M154088       | O-RING                       |
| X81-11-08804 | M154092       | O-RING                       |
| X81-11-10804 | M154098       | O-RING                       |
| X81-11-11704 | M154101       | O-RING                       |
| X81-11-13604 | M154107       | O-RING                       |
| X81-13-03804 | M154026       | O-RING                       |
| X81-22-03804 | M154026V      | O-RING                       |
| X81-22-04404 | M154078V      | O-RING                       |
| X81-11-01203 |               | O-RING 1/2" X 11/16" X 3/32" |
| X81-15-01602 | M154129       | O-RING NITRILE 90 DURO       |
| X81-15-01602 |               | O-RING NITRILE 90 DURO       |
| N20-60-100   | M395562       | O-RING RETAINER 20VQ         |
| MPN003062    | M199822       | O-RING V10                   |
| MPN003063    | M199823       | O-RING V10 VITON             |
| X81-11-08204 | M154090       | O-RING V20                   |
| X81-22-03304 |               | O-RING VITON                 |
| X81-22-06304 | M154084V      | O-RING VITON                 |
| X81-22-07304 | M154087V      | O-RING VITON                 |
| X81-22-09804 | M586590       | O-RING VITON                 |
| X81-22-11704 | M154101V      | O-RING VITON                 |
| X81-22-08204 | M154090V      | O-RING, VITON - 75 DURO.     |
| V42-94-101   | M217308       | PIN - VTM 10/15/20/40        |
| V42-94-102   | M154364       | PIN VTM 5/6 GPM              |
| X02-03-22130 | M007077       | PIPE PLUG 1/2" NPT           |
| X02-09-44060 |               | PLUG-PROTECTIVE              |
| V42-65-115   | M923840       | RESERVOIR KIT (115 CU. IN.)  |
| V42-65-070   |               | RESERVOIR KIT (70 CU. IN.)   |
| N25-60-100   | M415731       | RETAINER 25VQ                |
| N35-60-100   | M412013       | RETAINER 35VQ                |
| N45-60-100   | M415375       | RETAINER 45VQ                |
| MPN002161    | M433761       | RETAINER KIT 20VQ            |
| MPN002162    | M433763       | RETAINER KIT 25VQ            |
| MPN002163    | M433765       | RETAINER KIT 35VQ            |
| MPN002164    | M433767       | RETAINER KIT 45VQ            |
| X81-11-03603 | M199816       | RETAINER O-RING 20VQ         |
| X81-22-03603 | M199816V      | RETAINER O-RING 20VQ-F3      |
| X81-22-04603 | M416418V      | RETAINER O-RING 25VQ-F3      |

# Seals and Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                        |
|--------------|---------------|------------------------------------|
| X81-11-05003 | M416417       | RETAINER O-RING 35VQ               |
| X81-22-05003 | M416417V      | RETAINER O-RING 35VQ-F3            |
| X81-11-06303 | M416416       | RETAINER O-RING 45VQ               |
| X81-22-06303 | M416416V      | RETAINER O-RING 45VQ-F3            |
| X05-01-43010 | M087541       | RETAINER V10, VTM                  |
| X05-02-16010 | M16641        | RETAINER V10, VTM                  |
| X05-01-53020 | M109975       | RETAINING RING                     |
| X05-02-18010 | M98653        | RETAINING RING                     |
| N20-87-040   | M419672       | RING SEAL 20V VQ                   |
| N25-87-040   | M419673       | RING SEAL 25V VQ                   |
| N35-87-040   | M419674       | RING SEAL 35V VQ                   |
| N45-87-040   | M419675       | RING SEAL 45V VQ                   |
| MPN070781    |               | SEAL KIT                           |
| MPN070961    |               | SEAL KIT                           |
| MPN070964    |               | SEAL KIT                           |
| V21-80-110   | M923577       | SEAL KIT (V2010)                   |
| V22-80-120   | M923174       | SEAL KIT (V2020)                   |
| N20-80-011   | M497125       | SEAL KIT 20V, SINGLE SHAFT SEAL    |
| N20-80-021   | M981322       | SEAL KIT 20V-F3                    |
| N20-80-112   | M497124       | SEAL KIT 20VQ, DOUBLE SHAFT SEAL   |
| N20-80-122   | M451472       | SEAL KIT 20VQ-F3                   |
| N2520-80-022 |               | SEAL KIT 2520V, DOUBLE SHAFT SEAL  |
| N2520-80-011 | M922856       | SEAL KIT 2520V, SINGLE SHAFT SEAL  |
| N2520-80-021 | M919303       | SEAL KIT 2520V-F3                  |
| N2520-80-121 | M920042       | SEAL KIT 2520VQ                    |
| N2520-80-112 | M920041       | SEAL KIT 2520VQ, DOUBLE SHAFT SEAL |
| N2520-80-111 | M920040       | SEAL KIT 2520VQ, SINGLE SHAFT SEAL |
| N2520-80-122 | M920043       | SEAL KIT 2520VQ-F3                 |
| N25-80-022   |               | SEAL KIT 25V -F3                   |
| N25-80-011   | M922850       | SEAL KIT 25V, SINGLE SHAFT SEAL    |
| N25-80-021   | M919656       | SEAL KIT 25V-F3                    |
| N25-80-112   | M920022       | SEAL KIT 25VQ, DOUBLE SHAFT SEAL   |
| N25-80-111   | M920021       | SEAL KIT 25VQ, SINGLE SHAFT SEAL   |
| N25-80-121   | M920023       | SEAL KIT 25VQ-F3                   |
| N25-80-122   | M920024       | SEAL KIT 25VQ-F3                   |
| N3520-80-022 |               | SEAL KIT 3520V, DOUBLE SHAFT SEAL  |
| N3520-80-011 | M922859       | SEAL KIT 3520V, SINGLE SHAFT SEAL  |
| N3520-80-021 | M919304       | SEAL KIT 3520V-F3                  |
| N3520-80-112 | M920049       | SEAL KIT 3520VQ, DOUBLE SHAFT SEAL |
| N3520-80-111 | M920048       | SEAL KIT 3520VQ, SINGLE SHAFT SEAL |
| N3520-80-121 | M920050       | SEAL KIT 3520VQ-F3                 |
| N3520-80-122 | M920051       | SEAL KIT 3520VQ-F3                 |
| N3525-80-022 |               | SEAL KIT 3525V, DOUBLE SHAFT SEAL  |
| N3525-80-011 | M922862       | SEAL KIT 3525V, SINGLE SHAFT SEAL  |

# Seals and Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                        |
|--------------|---------------|------------------------------------|
| N3525-80-021 | M919305       | SEAL KIT 3525V-F3                  |
| N3525-80-112 | M920057       | SEAL KIT 3525VQ, DOUBLE SHAFT SEAL |
| N3525-80-111 | M920056       | SEAL KIT 3525VQ, SINGLE SHAFT SEAL |
| N3525-80-121 | M920058       | SEAL KIT 3525VQ-F3                 |
| N3525-80-122 | M920059       | SEAL KIT 3525VQ-F3                 |
| N35-80-022   |               | SEAL KIT 35V, DOUBLE SHAFT SEAL    |
| N35-80-011   | M922851       | SEAL KIT 35V, SINGLE SHAFT SEAL    |
| N35-80-021   | M919262       | SEAL KIT 35V-F3                    |
| N35-80-112   | M920016       | SEAL KIT 35VQ, DOUBLE SHAFT SEAL   |
| N35-80-111   | M920015       | SEAL KIT 35VQ, SINGLE SHAFT SEAL   |
| N35-80-121   | M920029       | SEAL KIT 35VQ-F3                   |
| N35-80-122   | M920030       | SEAL KIT 35VQ-F3                   |
| N4520-80-022 |               | SEAL KIT 4520V, DOUBLE SHAFT SEAL  |
| N4520-80-011 | M922863       | SEAL KIT 4520V, SINGLE SHAFT SEAL  |
| N4520-80-021 | M919616       | SEAL KIT 4520V-F3                  |
| N4520-80-112 | M920061       | SEAL KIT 4520VQ, DOUBLE SHAFT SEAL |
| N4520-80-111 | M920060       | SEAL KIT 4520VQ, SINGLE SHAFT SEAL |
| N4520-80-121 | M920062       | SEAL KIT 4520VQ-F3                 |
| N4520-80-122 | M920063       | SEAL KIT 4520VQ-F3                 |
| N4525-80-022 |               | SEAL KIT 4525V, DOUBLE SHAFT SEAL  |
| N4525-80-011 | M922865       | SEAL KIT 4525V, SINGLE SHAFT SEAL  |
| N4525-80-021 | M919345       | SEAL KIT 4525V-F3                  |
| N4525-80-112 | M920069       | SEAL KIT 4525VQ, DOUBLE SHAFT SEAL |
| N4525-80-111 | M920068       | SEAL KIT 4525VQ, SINGLE SHAFT SEAL |
| N4525-80-121 | M920070       | SEAL KIT 4525VQ-F3                 |
| N4525-80-122 | M920071       | SEAL KIT 4525VQ-F3                 |
| N4535-80-011 | M922866       | SEAL KIT 4535V, SINGLE SHAFT SEAL  |
| N4535-80-021 | M919346       | SEAL KIT 4535V-F3                  |
| N4535-80-112 | M920073       | SEAL KIT 4535VQ, DOUBLE SHAFT SEAL |
| N4535-80-111 | M920072       | SEAL KIT 4535VQ, SINGLE SHAFT SEAL |
| N4535-80-121 | M920074       | SEAL KIT 4535VQ-F3                 |
| N4535-80-122 | M920075       | SEAL KIT 4535VQ-F3                 |
| N45-80-022   |               | SEAL KIT 45V, DOUBLE SHAFT SEAL    |
| N45-80-011   | M919850       | SEAL KIT 45V, SINGLE SHAFT SEAL    |
| N45-80-021   | M919632       | SEAL KIT 45V-F3                    |
| N45-80-112   | M920026       | SEAL KIT 45VQ, DOUBLE SHAFT SEAL   |
| N45-80-111   | M920025       | SEAL KIT 45VQ, SINGLE SHAFT SEAL   |
| N45-80-121   | M920027       | SEAL KIT 45VQ-F3                   |
| N45-80-122   | M920028       | SEAL KIT 45VQ-F3                   |
| V10-80-100   | M923548       | SEAL KIT V10                       |
| V10-80-200   | M919772       | SEAL KIT V10-F3                    |
| V20-80-100   | M922733       | SEAL KIT V20 BUNA                  |
| V20-80-110   | M922733       | SEAL KIT V20/F/P-11/12             |
| V20-80-200   | M919805       | SEAL KIT V20/F/P-11/12-F3          |

# Seals and Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                        |
|--------------|---------------|------------------------------------|
| V22-80-220   | M919786       | SEAL KIT V2010 VITON               |
| V21-80-210   | M919770       | SEAL KIT V2020 VITON               |
| V20-80-121   | M02-137555    | SEAL KIT V20F-22                   |
| V20-80-221   | M02-137556    | SEAL KIT V20F-22-F3                |
| V20-80-122   | M02-137557    | SEAL KIT V20FS-22                  |
| V20-80-222   | M02-137558    | SEAL KIT V20FS-22-F3               |
| MPN002830    | M922732       | SEAL KIT V210                      |
| MPN002830    | M922732       | SEAL KIT V210                      |
| MPN099841    |               | SEAL KIT V223                      |
| V42-80-100   | M922904       | SEAL KIT VTM42                     |
| MPN070963    |               | SEAL KIT, DOUBLE SHAFT SEAL        |
| MPN070966    |               | SEAL KIT, DOUBLE SHAFT SEAL        |
| MPN070967    | M923847       | SEAL KIT, DOUBLE SHAFT SEAL        |
| X81-11-01002 |               | SEAL O-RING                        |
| X81-11-02303 |               | SEAL O-RING BUNA                   |
| X81-22-01002 |               | SEAL O-RING VITON                  |
| X81-22-02303 |               | SEAL O-RING VITON                  |
| N20-88-122   | M433762       | SEAL PACK A. 20VQ                  |
| N25-88-122   | M433764       | SEAL PACK A. 25VQ                  |
| N35-88-122   | M433766       | SEAL PACK A. 35VQ                  |
| N45-88-122   | M433768       | SEAL PACK A. 45VQ                  |
| X84-35-02808 | M394976-90    | SEAL-PRIMARY 25VQ NITRILE          |
| X84-33-02808 | M429286       | SEAL-PRIMARY 25VQ-F3               |
| X84-35-03608 | M394973       | SEAL-PRIMARY 35VQ                  |
| X84-33-03608 | M429284       | SEAL-PRIMARY 35VQ-F3               |
| X84-35-04010 | M394974-70    | SEAL-PRIMARY 45VQ NITRILE          |
| X84-32-04010 | M429285       | SEAL-PRIMARY 45VQ-F3               |
| X83-35-01509 | M263585       | SEAL-PRIMARY V10                   |
| X83-32-01509 | M388205       | SEAL-PRIMARY V10-F3                |
| X83-35-02008 | M122558       | SEAL-PRIMARY V20 BUNA 90 DURO      |
| X83-32-02508 |               | SEAL-PRIMARY V2010, VITON          |
| X83-32-02008 | M279499       | SEAL-PRIMARY V20F3 (VITON)         |
| X83-31-02708 | M229236       | SEAL-PRIMARY V210                  |
| X84-33-02905 | M429283       | SEAL-SECONDARY 25VQ                |
| X84-33-03606 | M429281       | SEAL-SECONDARY 35VQ VITON          |
| X84-32-04006 | M429282       | SEAL-SECONDARY 45VQ - VITON        |
| X05-01-18010 |               | SNAP RING                          |
| X05-02-24010 | M160686       | SNAP RING BEARING V2020/V2010      |
| X05-04-19020 | M155023       | SNAP RING V10 V20-11 DESIGN        |
| X05-02-28010 | M119982       | SNAPRING 35VQ                      |
| X41-12-09025 |               | SOCKET HEAD CAP SCREW 3/8"X1"      |
| X41-11-08064 |               | SOCKET SET CAP SCREW 5/16"X 2 1/2" |
| N45-92-561   | M194878       | SPACER 45VQ                        |
| X05-03-85020 | M158630       | SPIRAL LOCK                        |

## ***Seals and Kits***

| <b>METARIS #</b> | <b>ALTERNATIVE #</b> | <b>DESCRIPTION</b>                |
|------------------|----------------------|-----------------------------------|
| X05-03-55010     | M191400              | SPIROLOCK 25VQ                    |
| X05-03-75010     | M193144              | SPIROLOCK 35VQ                    |
| X02-09-44380     |                      | SPLIT FLANGE PLUG (1 1/2)         |
| X02-09-44320     |                      | SPLIT FLANGE PLUG (1 1/4)         |
| X02-09-44250     |                      | SPLIT FLANGE PLUG (1)             |
| X02-09-44640     |                      | SPLIT FLANGE PLUG (2 1/2)         |
| X02-09-44510     |                      | SPLIT FLANGE PLUG (2)             |
| X02-09-44190     |                      | SPLIT FLANGE PLUG (3/4)           |
| V00-95-223       | M2281                | SPRING C.V. F TO K                |
| V00-95-221       | M2280                | SPRING -PRESS.-B C                |
| V10-95-330       | M384222              | SPRING V10 V2010                  |
| V00-95-110       | M239766              | SPRING V10F, V20F, V2010F, V2020F |
| V22-95-340       | M309795              | SPRING V2020-20                   |
| V22-95-331       | M343567              | V2020-20 DES SPRING               |
| N25-92-351       | M190362              | WASHER 25VQ                       |
| N35-92-471       | M193220              | WASHER 35VQ                       |
| N45-92-561       | M194878              | WASHER 45VQ                       |

# Bearings & Vane Kits

| METARIS #    | ALTERNATIVE # | DESCRIPTION                         |
|--------------|---------------|-------------------------------------|
| X03-16-12552 | M082938       | BALL BEARING V2010/V2020            |
| X03-15-12552 | M232750       | BALL BEARING (H.D)SHAFT- DOUBLE ROW |
| X03-10-12552 | M001705       | BALL BEARING (STD)SHAFT-25VQ        |
| X03-16-11740 | M148423       | BALL BEARING SHAFT - V10, VTM42     |
| X03-16-12047 | M098574       | BALL BEARING V20                    |
| X03-10-12047 | M1704         | BALL BEARING V20FS-22 (30VQ)        |
| X03-10-11740 | M001703       | BALL BEARING -V210                  |
| X03-23-11419 | M222440       | BEARING                             |
| X03-10-13072 | M038441       | BEARING (DIR)SHAFT-35VQ             |
| X03-10-13580 | M131812       | BEARING (STD)SHAFT-45VQ             |

## Vane Kits

| METARIS #  | ALTERNATIVE # | DESCRIPTION        |
|------------|---------------|--------------------|
| N20-72-310 | M922741       | VANE KIT 20VQ(S)   |
| N20-72-320 | M922743       | VANE KIT 20VQ(T)   |
| N25-71-300 | M941214       | VANE KIT 25V       |
| N25-72-300 | M922710       | VANE KIT 25VQ      |
| N30-72-300 | M922648       | VANE KIT 30VQ      |
| N35-71-300 | M941019       | VANE KIT 35V       |
| N35-72-300 | M922700       | VANE KIT 35VQ      |
| N45-71-300 | M941049       | VANE KIT 45V       |
| N45-72-300 | M922701       | VANE KIT 45VQ      |
| V20-70-304 | M923479       | VANE KIT V20-12/13 |

# Cam Rings

| METARIS #  | ALTERNATIVE # | DESCRIPTION     |
|------------|---------------|-----------------|
| N20-71-105 | M254846       | CAM RING 20V05  |
| N20-71-108 | M250820       | CAM RING 20V08  |
| N20-71-111 | M250819       | CAM RING 20V11  |
| N20-71-112 | M256581       | CAM RING 20V12  |
| N20-71-114 | M257953       | CAM RING 20V14  |
| N20-72-105 | M333624       | CAM RING 20VQ05 |
| N20-72-108 | M333625       | CAM RING 20VQ08 |
| N20-72-109 | M374799       | CAM RING 20VQ09 |
| N20-72-111 | M333626       | CAM RING 20VQ11 |
| N20-72-112 | M353901       | CAM RING 20VQ12 |
| N20-72-114 | M353902       | CAM RING 20VQ14 |
| N25-71-112 | M584610       | CAM RING 25V12  |
| N25-71-114 | M584612       | CAM RING 25V14  |
| N25-71-117 | M584614       | CAM RING 25V17  |
| N25-71-121 | M584616       | CAM RING 25V21  |
| N25-72-112 | M326984       | CAM RING 25VQ12 |
| N25-72-114 | M326985       | CAM RING 25VQ14 |
| N25-72-117 | M326986       | CAM RING 25VQ17 |
| N25-72-119 | M326987       | CAM RING 25VQ19 |
| N25-72-121 | M326988       | CAM RING 25VQ21 |
| N30-72-124 | M234470       | CAM RING 30VQ24 |
| N30-72-128 | M224525       | CAM RING 30VQ28 |
| N35-71-125 | M576210       | CAM RING 35V25  |
| N35-71-130 | M576212       | CAM RING 35V30  |
| N35-71-135 | M576214       | CAM RING 35V35  |
| N35-71-138 | M575476       | CAM RING 35V38  |
| N35-72-121 | M394961       | CAM RING 35VQ21 |
| N35-72-125 | M319396       | CAM RING 35VQ25 |
| N35-72-130 | M319397       | CAM RING 35VQ30 |
| N35-72-135 | M319398       | CAM RING 35VQ35 |
| N35-72-138 | M319399       | CAM RING 35VQ38 |
| N45-71-142 | M581679       | CAM RING 45V42  |
| N45-71-145 | M582570       | CAM RING 45V45  |
| N45-71-150 | M581680       | CAM RING 45V50  |
| N45-71-160 | M578904       | CAM RING 45V60  |
| N45-72-142 | M297510       | CAM RING 45VQ42 |
| N45-72-147 | M297718       | CAM RING 45VQ47 |
| N45-72-150 | M297502       | CAM RING 45VQ50 |
| N45-72-157 | M306772       | CAM RING 45VQ57 |
| N45-72-160 | M297503       | CAM RING 45VQ60 |
| V10-70-101 | M317674       | CAM RING V10-01 |
| V10-70-102 | M317675       | CAM RING V10-02 |
| V10-70-103 | M317676       | CAM RING V10-03 |



# Cam Rings

| METARIS #  | ALTERNATIVE # | DESCRIPTION        |
|------------|---------------|--------------------|
| V10-70-104 | M317677       | CAM RING V10-04    |
| V10-70-105 | M317678       | CAM RING V10-05    |
| V10-70-106 | M355641       | CAM RING V10-06    |
| V10-70-107 | M331813       | CAM RING V10-07    |
| V20-70-105 | M388284       | CAM RING V20-05    |
| V20-70-106 | M328150       | CAM RING V20-06    |
| V20-70-107 | M328152       | CAM RING V20-07    |
| V20-70-108 | M331791       | CAM RING V20-08    |
| V20-70-109 | M331789       | CAM RING V20-09    |
| V20-70-110 | M374309       | CAM RING V20-10    |
| V20-70-111 | M328156       | CAM RING V20-11    |
| V20-70-112 | M331806       | CAM RING V20-12    |
| V20-70-113 | M331807       | CAM RING V20-13    |
| V42-70-110 |               | CAM RING VTM-10    |
| V42-70-115 |               | VTM - 1.5 CAM RING |
| V42-70-120 | M296596       | CAM RING VTM 2.0   |
| V42-70-140 |               | CAM RING VTM-40    |
| V42-70-150 |               | CAM RING VTM-50    |
| V42-70-160 | M296599       | CAM RING VTM-60    |

# Housings

FOR MORE INFORMATION PLEASE CONTACT SALES DEPT.

| METARIS #    | ALTERNATIVE # | DESCRIPTION                        |
|--------------|---------------|------------------------------------|
| V20-10-213   |               | V20-D-1 HOUSING FRONT              |
| V42-10-291   |               | VTM FRONT HOUSING SUB-ASSY.        |
| N20-20-100   |               | 20VQB REAR HOUSING                 |
| V10-25-999   |               | COVER **VQV10 RELIEF VALVE         |
| N4525-30-001 |               | 4525VQBD CENTER HOUSING            |
| N35-20-210   |               | HOUSING REAR - 35VQ                |
| N4535-30-001 |               | 4535VQBD CENTER HOUSING            |
| N4525-30-010 |               | HOUSING CENTER - 4525VQ            |
| N4520-30-011 |               | 4520VQD CENTER HOUSING             |
| N45-20-101   |               | 45VQBD REAR HOUSING                |
| N35-20-110   |               | HOUSING REAR - 35VQ                |
| N45-10-230   |               | 45VQB HOUSING FRONT, BLANK         |
| N4520-30-010 |               | HOUSING CENTER - 4520VQ            |
| N45-20-110   |               | HOUSING REAR - 45VQ                |
| N25-20-201   |               | 25VQBD REAR HOUSING                |
| N35-20-211   |               | HOUSING REAR - 35 VQD- TANDEM      |
| N4535-30-010 |               | HOUSING CENTER - 4535VQ            |
| N35-20-301   |               | REAR COVER - 35V10D - BLANK        |
| N4535-30-000 |               | 4535VQB HOUSING CENTER             |
| N45-10-231   |               | 45VQ HOUSING FRONT                 |
| N35-20-100   |               | 35VQB HOUSING REAR                 |
| N35-20-200   |               | 35VQB HOUSING REAR- TANDEM         |
| N25-10-220   |               | 25VQ HOUSING FRONT, BLANK          |
| N45-10-233   |               | 45VQBD FRONT HOUSING-BLANK DUCTILE |
| N35-10-230   |               | 35VQ HOUSING FRONT, BLANK          |
| N35-20-111   |               | 35VQD REAR HOUSING                 |
| N20-10-221   |               | 20VQ HOUSING FRONT                 |
| N3520-30-010 |               | HOUSING CENTER - 3520VQ            |
| N3525-30-001 |               | 3525VQBD CENTER HOUSING            |
| N25-20-210   |               | HOUSING REAR - 25VQ                |
| N2520-30-010 |               | HOUSING CENTER - 2520VQ            |
| N25-20-200   |               | 25VQB REAR HOUSING                 |
| N4525-30-011 |               | 4525VQD CENTER HOUSING             |
| N3525-30-010 |               | HOUSING CENTER - 3525VQ            |
| N35-20-311   |               | REAR COVER - 35V10D                |
| N45-20-100   |               | 45VQB HOUSING REAR                 |
| N4535-30-011 |               | 4535VQD CENTER HOUSING             |
| N45-20-111   |               | 45VQD REAR HOUSING                 |
| N35-20-310   |               | REAR COVER 35V10                   |
| N30-20-110   |               | 30VQ REAR HOUSING                  |
| V20-23-229   |               | REAR COVER V20P-T                  |
| V20-10-602   |               | V20-P-4 HOUSING FRONT              |
| N3525-30-011 |               | **3525VQD CENTER HOUSING           |

# Housings

FOR MORE INFORMATION PLEASE CONTACT SALES DEPT.

| METARIS #    | ALTERNATIVE # | DESCRIPTION                         |
|--------------|---------------|-------------------------------------|
| N35-20-201   |               | 35VQBD REAR HOUSING                 |
| N35-10-231   |               | 35VQ HOUSING FRONT                  |
| N3520-30-011 |               | **3520VQD CENTER HOUSING            |
| N25-10-221   |               | 25VQ HOUSING FRONT                  |
| V20-25-959   |               | V20R COVER                          |
| N45-10-234   |               | 45VQD HOUSING FRONT                 |
| V20-35-999   |               | RELIEF VALVE                        |
| N20-20-110   |               | HOUSING REAR - 20VQ                 |
| V10-20-000   |               | V10 REAR COVER - BLANK              |
| V22-20-000   |               | V2020 REAR COVER - BLANK            |
| N35-10-233   |               | 35VQBD FRONT HOUSING-BLANK DUCTILE  |
| N25-20-301   |               | REAR COVER - 25V10DB - BLANK        |
| N25-20-110   |               | HOUSING REAR - 25VQ                 |
| N20-20-910   |               | 2520VQ-IL REAR COVER, 4 BLT FLANGE  |
| V21-10-220   |               | V2010/V2020 SEC BLANK               |
| V10-22-232   |               | REAR COVER V10F ASSY. CODE P 2 GPM  |
| V22-21-500   |               | REAR COVER V2020-S-30               |
| V22-30-010   |               | V2020 INLET BODY                    |
| V20-22-232   |               | REAR COVER V20F ASSY. CODE P 2GPM   |
| V20-22-252   |               | REAR COVER V20F ASSY. CODE S 2GPM   |
| N2520-30-910 |               | 2520VQ IL CENTRE HOUSING            |
| V10-23-119   |               | REAR COVER V10P-CODE K              |
| N25-10-239   |               | 25VQ HSG WTH 35VQ PILOT & MTG BOLTS |
| N25-20-410   |               | HOUSING - 25VQTV20, 4 BOLT FLANGE   |
| V20-10-221   |               | V20-P-6 HOUSING FRONT               |
| MPN001043    |               | REAR COVER V20-F-11                 |
| V20-10-210   |               | V20 COVER FRONT, BLANK              |
| N35-10-234   |               | 35VQD HOUSING FRONT                 |
| N20-20-310   |               | 20V10 REAR COVER                    |
| N26-10-291   |               | 26VQ HOUSING FRONT, SPECIAL         |
| N25-10-222   |               | 25VQ HOUSING FRONT, SPECIAL         |
| N25-20-310   |               | REAR COVER 25V10, PIGGYBACK         |
| V21-30-010   |               | V2010 INLET BODY                    |
| N25-20-100   |               | 25VQB REAR HOUSING - BLANK          |
| N20-20-230   |               | 20VQ FLOW CONTROL COVER             |
| V10-21-700   |               | REAR COVER V10-CODE S               |
| V10-22-239   |               | REAR COVER V10F - CODE P            |
| V10-22-229   |               | REAR COVER V10F-CODE T              |
| MPN080118    |               | HOUSING REAR - 20VQF (TANDEM) 6GPM  |
| V20-24-209   |               | HOUSING REAR - V20NF                |
| N26-10-431   |               | 26VQ HOUSING FRONT, SPECIAL         |
| V10-22-222   |               | REAR COVER V10F ASSY. CODE T - 2GPM |
| V10-22-223   |               | HOUSING REAR - V10F - T - 3GPM      |

# Housings

FOR MORE INFORMATION PLEASE CONTACT SALES DEPT.

| METARIS #    | ALTERNATIVE # | DESCRIPTION                         |
|--------------|---------------|-------------------------------------|
| N20-20-220   |               | HOUSING REAR - 2520,/3520 (SPEC.)   |
| MPN007107    |               | HOUSING CENTER - 3525VQ(231)        |
| MPN090975    |               | 45VQ HOUSING FRONT                  |
| MPN090976    |               | 26VQ HOUSING FRONT, SPECIAL         |
| MPN090977    |               | 45VQ HOUSING FRONT                  |
| MPN091452    |               | COVER V10NF-2GPM                    |
| MPN095090    |               | REAR COVER V10F ASSY. CODE P - 6GPM |
| MPN095375    |               | 4525 INLET BODY(w/Large Dowel Pins) |
| N20-15-101   |               | HOUSING ASSEMBLY 20VQ               |
| N25-10-229   |               | 25VQ HOUSING FRONT, SPECIAL         |
| N25-15-101   |               | HOUSING ASSEMBLY 25VQ               |
| N25-20-120   |               | 25VQ REAR HOUSING B/D               |
| N2520-15-101 |               | HOUSING ASSEMBLY 2520VQ             |
| N25-20-220   |               | HOUSING REAR - 35/4525 (SPEC)       |
| N26-20-110   |               | HOUSING REAR - 26VQ (SPEC.)         |
| N30-10-221   |               | 30VQ HOUSING FRONT                  |
| N30-15-101   |               | HOUSING ASSEMBLY 30VQ               |
| N30-15-102   |               | HOUSING ASSEMBLY 30VQ/STR THREAD    |
| N30-20-100   |               | 30VQ REAR HOUSING                   |
| N30-20-120   |               | 30V(Q) REAR HOUSING O-RING PORT     |
| N35-10-229   |               | 35VQ HOUSING FRONT W/25VQ PILOT     |
| N35-10-431   |               | 35VQ BODY                           |
| N35-15-101   |               | HOUSING ASSEMBLY 35VQ               |
| N3520-15-101 |               | HOUSING ASSEMBLY 3520VQ             |
| N3525-15-010 |               | HOUSING ASSEMBLY 3525VQHADB         |
| N3525-15-100 |               | HOUSING ASSEMBLY 3525VQ             |
| N3525-15-109 |               | HOUSING ASSEMBLY 3525VQV10          |
| N45-10-431   |               | 45VQ BODY                           |
| N45-15-010   |               | HOUSING ASSEMBLY 45VQHADB           |
| N45-15-101   |               | HOUSING ASSEMBLY 45VQ               |
| N4520-15-101 |               | HOUSING ASSEMBLY 4520VQ             |
| N4525-15-010 |               | HOUSING ASSEMBLY 4525VQHADB         |
| N4525-15-101 |               | HOUSING ASSEMBLY 4525VQ             |
| N4535-15-010 |               | HOUSING ASSEMBLY 4535VQHADB         |
| N4535-15-101 |               | HOUSING ASSEMBLY 4535VQ             |
| V10-10-210   |               | V10 HOUSING FRONT, BLANK            |
| V10-10-211   |               | V10-P-20 HOUSING FRONT              |
| V10-10-212   |               | V10-S-20 HOUSING FRONT              |
| V10-10-213   |               | V10-T-10 HOUSING FRONT              |
| V10-10-214   |               | V10-BSPP HOUSING FRONT              |
| V10-10-215   |               | V10-F-20 HOUSING FRONT              |
| V10-21-600   |               | REAR COVER V10-CODE P               |
| V10-21-809   |               | REAR COVER V10-BSPP                 |

# Housings

FOR MORE INFORMATION PLEASE CONTACT SALES DEPT.

| METARIS #  | ALTERNATIVE # | DESCRIPTION                  |
|------------|---------------|------------------------------|
| V10-24-204 |               | COVER V10NF-4G               |
| V10-24-206 |               | COVER V10NF-6G               |
| V10-24-209 |               | HOUSING REAR - V10NF         |
| V20-10-211 |               | V20-R-1 HOUSING FRONT        |
| V20-10-212 |               | V20-P-1 HOUSING FRONT        |
| V20-10-214 |               | V20-S-1 HOUSING FRONT        |
| V20-10-215 |               | V20-E-1 HOUSING FRONT        |
| V20-10-216 |               | V20-F-1 HOUSING FRONT        |
| V20-10-217 |               | V20-BSPP HOUSING FRONT       |
| V20-10-222 |               | V20-S-6 HOUSING FRONT        |
| V20-10-223 |               | V20-E-6 HOUSING FRONT        |
| V20-10-601 |               | V20-R-4 HOUSING FRONT        |
| V20-10-603 |               | V20-D-4 HOUSING FRONT        |
| V20-10-604 |               | V20-S-4 HOUSING FRONT        |
| V20-20-000 |               | V20 REAR COVER - BLANK       |
| V20-21-400 |               | REAR COVER V20-P-11          |
| V20-21-500 |               | REAR COVER V20-S-11          |
| V20-21-800 |               | REAR COVER V20-BSPP          |
| V20-22-229 |               | REAR COVER V20F-T-22         |
| V20-22-239 |               | REAR COVER V20F-P-22         |
| V20-22-259 |               | REAR COVER V20F-S-22         |
| V21-10-221 |               | V2010/V2020 HOUSING FRONT    |
| V21-10-223 |               | V2010 /V2020 DES FRONT COVER |
| V22-21-800 |               | REAR COVER V2020-30 BSPP     |
| V42-10-290 |               | VTM HOUSING FRONT, SPECIAL   |
| V42-22-209 |               | VTM REAR COVER               |

## ***Rotors and Flex plates***

| <b>METARIS #</b> | <b>ALTERNATIVE #</b> | <b>DESCRIPTION</b>             |
|------------------|----------------------|--------------------------------|
| N20-72-210       | M402690              | ROTOR 20VQ(S)                  |
| N20-72-220       | M403539              | ROTOR 20VQ(T)                  |
| N25-71-200       | M584618              | ROTOR 25V                      |
| N25-72-200       | M270597              | ROTOR 25VQ                     |
| N30-72-200       | M262152              | ROTOR 30VQ                     |
| N35-71-200       | M575478              | ROTOR 35V                      |
| N35-72-200       | M262154              | ROTOR 35VQ                     |
| N45-71-200       | M578900              | ROTOR 45V                      |
| N45-72-200       | M283871              | ROTOR 45VQ                     |
| V10-70-201       | M317681              | ROTOR V10-01/02/03             |
| V10-70-202       | M351247              | ROTOR V10-04/05                |
| V10-70-203       | M357286              | ROTOR V10-06/07                |
| V20-70-201       | M502255              | ROTOR V20-05/06                |
| V20-70-202       | M502256              | ROTOR V20-07/08/09             |
| V20-70-203       | M502257              | ROTOR V20-10/11                |
| V20-70-204       | M502258              | ROTOR V20-12/13                |
| V20-70-404       |                      | ROTOR & VANE KIT V20 12-13 GPM |
| V21-70-201       |                      | ROTOR V2010-5/6                |
| V21-70-202       | M358335              | ROTOR V2010-7/9                |
| V21-70-203       | M358336              | ROTOR V2010-11                 |
| V21-70-204       | M358337              | ROTOR V2010-12/13              |

## ***Flex plates***

| <b>METARIS #</b> | <b>ALTERNATIVE #</b> | <b>DESCRIPTION</b>       |
|------------------|----------------------|--------------------------|
| N20-72-500       | M416423              | FLEX PLATE 20VQ          |
| N20-72-510       | M923955              | FLEX PLATE KIT 20VQ      |
| N25-72-500       | M415520              | FLEX PLATE 25VQ 30VQ     |
| N25-72-510       | M923956              | FLEX PLATE KIT 25VQ 30VQ |
| N35-72-500       | M413406              | FLEX PLATE 35VQ          |
| N35-72-510       | M923953              | FLEX PLATE KIT 35VQ      |
| N45-72-500       | M416444              | FLEX PLATE 45VQ          |
| N45-72-510       | M923954              | FLEX PLATE KIT 45VQ      |
| N45-73-500       | M426994              | FLEX PLATE 45VQH-22      |

# VANE PRODUCT LISTING

## WARRANTY POLICY AND PROCEDURES

### WARRANTY

Metaris Inc. and Metaris Corp. hereinafter "Metaris", warrants all of its product to be free from defects in material and workmanship under normal operating conditions and proper application in accordance with the specifications for operation as described by the manufacturer for the period of twelve (12) months in service or eighteen (18) months from the original invoice date, whichever is sooner.

### LIMITATIONS ON WARRANTY

This warranty is expressly in lieu of any other warranties expressed or implied. Buyers sole and exclusive remedy under this Warranty shall be limited to the repair, replacement or exchange of warranted products at our option, F.O.B. our factory, or designated service center.

No special, incidental, consequential or other damage shall be recoverable. Metaris shall not be liable for consequential damages or contingent liabilities including, but not limited to, loss of life, personal injury, loss of crops, loss due to water or fire damage, loss of business income, down time costs and trade or other commercial loss arising out of failure of the product. Metaris will in no event be liable for any sum in excess of the price received by it for the product for which liability is claimed or asserted.

No products shall be returned without prior authorization from Metaris. Buyers and their Agents shall prepay all transportation charges for the return of such products to a Metaris location or designated service center. There will be no acceptance of any charges for labor and/or parts incidental to the removal or remounting of products repaired or replaced under Warranty.

The above Warranty does not cover conditions over which Metaris has no control, including, without limitation, contamination, pressure in excess of recommended maximum, products damaged or subject to accident abuse or misuse after shipment from our factory, products altered or repaired by anyone other than Metaris personnel, authorized Metaris factory personnel or persons so designated in writing by Metaris prior to commencement of said work.

A return goods authorization number must be obtained from Metaris or a Metaris authorized service center, or a Metaris authorized agent prior to any products being returned for Warranty.



All items are Metaris manufactured; OEM part #'s are displayed for reference purpose only. Prices subject to change without notice.





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Our extensive inventory assures you of prompt shipping of pumps and parts anywhere in the world.

Our parts are 100% interchangeable with OEM products. We are committed to high quality, zero defects, and getting your orders out correctly and on time.

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**WE WANT TO BE THE SUPPLIER FOR ALL YOUR VANE PRODUCT NEEDS.**



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