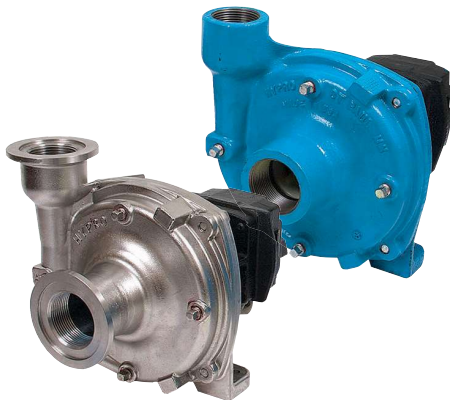


# HYDRAULICALLY-DRIVEN, CAST IRON & STAINLESS STEEL

Series 9303C and 9303S



## UPGRADE OPTIONS:

- ◆ Increase dry-run and abrasive resistance with Life Guard Seals
  - Life Guard seals are the OEM standard
- ◆ Extend pump life with Stainless Steel
  - Fact: Chemical corrosion, pump cavitation, and abrasive wear are key factors in pump life
  - 316 Stainless Steel pumps provide superior chemical corrosion resistance, while maintaining material strength to prolong the life against abrasive wear
  - 316 Stainless Steel resists cavitation pitting of pumps, extending the wear life
  - Drop in replacements for cast iron pumps

## FEATURES:

- ◆ Hydraulic motor drive (for open center, closed center and load-sensing systems)
- ◆ Port sizes: 1-1/2" NPT inlet, 1-1/4" NPT outlet
- ◆ 220 x 200 universal flange available (U)
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Impeller: Cast Iron models - Nylon; (GTX available)  
Stainless Steel models - Polypropylene
- ◆ Motor: internal gear gerotor
- ◆ Hydraulic ports: 1/2" NPT inlet, 3/4" NPT outlet
- ◆ Pump seals: Cast Iron models - Viton®/ceramic standard; Life Guard silicon carbide (B) available;  
Stainless Steel models - Life Guard silicon carbide standard
- ◆ Life Guard seals are the industry standard on OEM equipment
- ◆ Hydraulic motor seal: double-lip Teflon®
- ◆ Max. motor psi: 3000 (bar: 207)
- ◆ Weight: 26 lbs./11.8 kg

## FOR FLANGED CONNECTIONS YOU WILL ALSO NEED:

- Universal Flange Gasket       Universal Flange Clamp

See 251 for details

## ORDER INFORMATION

| Model Number | Max<br>GPM                          | Max<br>LPM | Max<br>PSI | Max<br>BAR | Max<br>Hyd.<br>GPM | Max<br>Hyd.<br>LPM | Hydraulic Selection System |
|--------------|-------------------------------------|------------|------------|------------|--------------------|--------------------|----------------------------|
| 9303C-HM1C   | 114                                 | 432        | 130        | 9.0        | 13                 | 49.2               | Open/Closed                |
| 9303C-HM2C   | 97                                  | 367        | 95         | 6.5        | 6                  | 22.7               | Open/Closed                |
| 9303C-HM3C   | 125                                 | 473        | 98         | 6.8        | 24                 | 90.8               | Open/Closed                |
| 9303C-HM4C   | 115                                 | 435        | 93         | 6.4        | 7                  | 26.5               | Open/Closed                |
| 9303C-HM5C   | 147                                 | 556        | 145        | 10.0       | 16                 | 60.6               | Open/Closed                |
| 9303S-HM1C   | 114                                 | 432        | 130        | 9.0        | 13                 | 49.2               | Open/Closed                |
| 9303S-HM2C   | 97                                  | 367        | 95         | 6.5        | 6                  | 22.7               | Open/Closed                |
| 9303S-HM3C   | 125                                 | 473        | 98         | 6.8        | 24                 | 90.8               | Open/Closed                |
| 9303S-HM4C   | 115                                 | 435        | 93         | 6.4        | 7                  | 26.5               | Open/Closed                |
| 9303S-HM5C   | 147                                 | 556        | 145        | 10.0       | 16                 | 60.6               | Open/Closed                |
| 3430-0332    | Seal and o-ring repair kit          |            |            |            |                    |                    |                            |
| 3430-0589    | Life Guard silicon carbide seal kit |            |            |            |                    |                    |                            |

Universal Flange (220 x 200) - Add suffix "U" (i.e.: 9303C-HM3C-U)  
Life Guard silicon carbide seal - Add suffix "B" (i.e.: 9303C-HM1C-B)

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Viton® is a registered trademark of DuPont. Hypro® is a registered trademark of Pentair.

## HYDRAULICALLY-DRIVEN, CAST IRON &amp; STAINLESS STEEL

Series 9303C and 9303S

## 9303C-HM1C, 9303S-HM1C

U.S. UNITS

| Hyd. Flow<br>GPM | GPM at<br>20 PSI | GPM at<br>30 PSI | GPM at<br>40 PSI | GPM at<br>50 PSI | GPM at<br>60 PSI | GPM at<br>70 PSI | GPM at<br>80 PSI | GPM at<br>90 PSI | GPM at<br>100 PSI | GPM at<br>110 PSI | GPM at<br>120 PSI |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| 11               | 104              | 101              | 96               | 90               | 82               | 71               | 60               | 47               | 31                |                   |                   |
| 12               | 110              | 109              | 107              | 105              | 101              | 92               | 81               | 67               | 53                | 36                | 9                 |
| 13               | 112              | 111              | 109              | 107              | 104              | 102              | 96               | 85               | 76                | 63                | 33                |

## 9303C-HM1C, 9303S-HM1C

METRIC UNITS

| Hyd. Flow<br>LPM | LPM at<br>1.4 BAR | LPM at<br>2.1 BAR | LPM at<br>2.8 BAR | LPM at<br>3.4 BAR | LPM at<br>4.1 BAR | LPM at<br>4.8 BAR | LPM at<br>5.5 BAR | LPM at<br>6.2 BAR | LPM at<br>6.9 BAR | LPM at<br>7.6 BAR | LPM at<br>8.3 BAR |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 41.6             | 394               | 382               | 363               | 341               | 310               | 269               | 227               | 178               | 117               |                   |                   |
| 45.4             | 416               | 413               | 405               | 397               | 382               | 348               | 307               | 254               | 201               | 136               | 34                |
| 49.2             | 424               | 420               | 413               | 405               | 394               | 386               | 363               | 322               | 288               | 238               | 125               |

## 9303C-HM2C, 9303S-HM2C

U.S. UNITS

| Hyd. Flow<br>GPM | GPM at<br>10 PSI | GPM at<br>20 PSI | GPM at<br>30 PSI | GPM at<br>40 PSI | GPM at<br>50 PSI | GPM at<br>60 PSI | GPM at<br>70 PSI | GPM at<br>80 PSI | GPM at<br>90 PSI |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 4                | 70               | 60               | 45               | 25               |                  |                  |                  |                  |                  |
| 5                | 83               | 74               | 65               | 50               | 37               | 22               | 4                |                  |                  |
| 6                | 94               | 86               | 80               | 72               | 62               | 50               | 37               | 22               | 7                |

## 9303C-HM2C, 9303S-HM2C

METRIC UNITS

| Hyd. Flow<br>LPM | LPM at<br>0.7 BAR | LPM at<br>1.4 BAR | LPM at<br>2.1 BAR | LPM at<br>2.8 BAR | LPM at<br>3.4 BAR | LPM at<br>4.1 BAR | LPM at<br>4.8 BAR | LPM at<br>5.5 BAR | LPM at<br>6.2 BAR |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 15.1             | 265               | 227               | 170               | 95                |                   |                   |                   |                   |                   |
| 18.9             | 314               | 280               | 246               | 189               | 140               | 83                | 15                |                   |                   |
| 22.7             | 356               | 326               | 303               | 273               | 235               | 189               | 140               | 83                | 26                |

## 9303C-HM3C, 9303S-HM3C

U.S. UNITS

| Hyd. Flow<br>GPM | GPM at<br>10 PSI | GPM at<br>20 PSI | GPM at<br>30 PSI | GPM at<br>40 PSI | GPM at<br>50 PSI | GPM at<br>60 PSI | GPM at<br>70 PSI | GPM at<br>80 PSI | GPM at<br>90 PSI |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 15               | 100              | 92               | 83               | 69               | 47               |                  |                  |                  |                  |
| 18               | 116              | 114              | 108              | 100              | 90               | 76               | 55               | 33               |                  |
| 20               | 125              | 123              | 120              | 114              | 107              | 96               | 85               | 71               | 50               |

## 9303C-HM3C, 9303S-HM3C

METRIC UNITS

| Hyd. Flow<br>LPM | LPM at<br>0.7 BAR | LPM at<br>1.4 BAR | LPM at<br>2.1 BAR | LPM at<br>2.8 BAR | LPM at<br>3.4 BAR | LPM at<br>4.1 BAR | LPM at<br>4.8 BAR | LPM at<br>5.5 BAR | LPM at<br>6.2 BAR |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 56.8             | 379               | 348               | 314               | 261               | 178               |                   |                   |                   |                   |
| 68.1             | 439               | 432               | 409               | 379               | 341               | 288               | 208               | 125               |                   |
| 75.7             | 473               | 466               | 454               | 432               | 405               | 363               | 322               | 269               | 189               |

## 9303C-HM4C, 9303S-HM4C

U.S. UNITS

| Hyd. Flow<br>GPM | GPM at<br>10 PSI | GPM at<br>20 PSI | GPM at<br>30 PSI | GPM at<br>40 PSI | GPM at<br>50 PSI | GPM at<br>60 PSI | GPM at<br>70 PSI | GPM at<br>80 PSI | GPM at<br>90 PSI |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 5                | 84               | 76               | 66               | 52               | 34               |                  |                  |                  |                  |
| 6                | 97               | 92               | 86               | 78               | 67               | 50               | 25               |                  |                  |
| 7                | 110              | 104              | 98               | 91               | 82               | 69               | 55               | 38               | 14               |

## 9303C-HM4C, 9303S-HM4C

METRIC UNITS

| Hyd. Flow<br>LPM | LPM at<br>0.7 BAR | LPM at<br>1.4 BAR | LPM at<br>2.1 BAR | LPM at<br>2.8 BAR | LPM at<br>3.4 BAR | LPM at<br>4.1 BAR | LPM at<br>4.8 BAR | LPM at<br>5.5 BAR | LPM at<br>6.2 BAR |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 18.9             | 318               | 288               | 250               | 197               | 129               |                   |                   |                   |                   |
| 22.7             | 367               | 348               | 326               | 295               | 254               | 189               | 95                |                   |                   |
| 26.5             | 416               | 394               | 371               | 344               | 310               | 261               | 208               | 144               | 53                |

## 9303C-HM5C, 9303S-HM5C

U.S. UNITS

| Hyd. Flow<br>GPM | GPM at<br>30 PSI | GPM at<br>40 PSI | GPM at<br>50 PSI | GPM at<br>60 PSI | GPM at<br>70 PSI | GPM at<br>80 PSI | GPM at<br>90 PSI | GPM at<br>100 PSI | GPM at<br>110 PSI | GPM at<br>120 PSI | GPM at<br>130 PSI |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| 13               | 113              | 105              | 97               | 86               | 73               | 59               | 44               |                   |                   |                   |                   |
| 14               | 128              | 123              | 116              | 108              | 98               | 88               | 74               | 61                | 44                |                   |                   |
| 15               | 135              | 132              | 126              | 119              | 110              | 100              | 89               | 77                | 66                | 50                | 20                |
| 16               | 145              | 142              | 137              | 132              | 126              | 117              | 107              | 95                | 83                | 70                | 55                |

## 9303C-HM5C, 9303S-HM5C

METRIC UNITS

| Hyd. Flow<br>LPM | LPM at<br>2.1 BAR | LPM at<br>2.8 BAR | LPM at<br>3.4 BAR | LPM at<br>4.1 BAR | LPM at<br>4.8 BAR | LPM at<br>5.5 BAR | LPM at<br>6.2 BAR | LPM at<br>6.9 BAR | LPM at<br>7.6 BAR | LPM at<br>8.3 BAR | LPM at<br>9.0 BAR |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 49.2             | 428               | 397               | 367               | 326               | 276               | 223               | 167               |                   |                   |                   |                   |
| 53.0             | 485               | 466               | 439               | 409               | 371               | 333               | 280               | 231               | 167               |                   |                   |
| 56.8             | 511               | 500               | 477               | 450               | 416               | 379               | 337               | 291               | 250               | 189               | 76                |
| 60.6             | 549               | 538               | 519               | 500               | 477               | 443               | 405               | 360               | 314               | 265               | 208               |