

MORGAN PRODUCTS

HD Series Injectors

| Model (No Timer) | Plunger Displacement | Pump Ratio | Stroke Length in - cm. | Connections All NPT Input/Output | Maximum Discharge PSI - BAR | Output Per Hour Gal. / Lts. |
|---------------------|-------------------------|---------------|------------------------------|--|-----------------------------------|-----------------------------------|
| HD187 | .2 cc | 10:1 | 1/2 - 1.27 | 1/4 -M / 1/8-F | 1000 - 68.9 | .01 - .12 / .05 - .46 |
| HD187-3K | .2 cc | 30:1 | 1/2 - 1.27 | 1/4 -M / 1/8-F | 3000 - 206 | .01 - .12 / .05 - .46 |
| HD187M | .2 cc | 10:1 | 1/2 - 1.27 | 1/4 -M / 1/8-F | 1000 - 68.9 | .005 - .12 / .02 - .46 |
| HD187-3KM | .2 cc | 30:1 | 1/2 - 1.27 | 1/4 -M / 1/8-F | 3000 - 206 | .005 - .12 / .02 - .46 |
| HD312 | 1.0 cc | 10:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 1000 - 68.9 | .06 - .63 / .24 - 2.4 |
| HD312M | 1.0 cc | 10:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 1000 - 68.9 | .01 - .63 / .05 - 2.4 |
| HD312-3K | 1.0 cc | 30:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 3000 - 206 | .06 - .63 / .24 - 2.4 |
| HD312-3KM | 1.0 cc | 30:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 3000 - 206 | .01 - .63 / .05 - 2.4 |
| HD312-5K | 1.0 cc | 50:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 5000 - 344 | .06 - .63 / .24 - 2.4 |
| HD312-5KM | 1.0 cc | 50:1 | 1.0 - 2.54 | 1/4 -M / 1/4-F | 5000 - 344 | .01 - .63 / .05 - 2.4 |
| HD562 | 3.5 cc | 10:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 1000 - 68.9 | .25 - 2.5 / 1 - 9.5 |
| HD562M | 3.5 cc | 10:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 1000 - 68.9 | .06 - 2.5 / .24 - 9.5 |
| HD562-3K | 3.5 cc | 30:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 3000 - 206 | .25 - 2.5 / 1 - 9.5 |
| HD562-3KM | 3.5 cc | 30:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 3000 - 206 | .06 - 2.5 / .24 - 9.5 |
| HD562-5K | 3.5 cc | 50:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 5000 - 344 | .25 - 2.5 / 1 - 9.5 |
| HD562-5KM | 3.5 cc | 50:1 | 1.0 - 2.54 | 1/2 -M / 1/4-F | 5000 - 344 | .06 - 2.5 / .24 - 9.5 |
| HD1062 | 12.8 cc | 10:1 | 1.0 - 2.54 | 3/4-M / 1/2-F | 1000 - 68.9 | 1 - 10.4 / 3.9 - 39 |
| HD1062-3K | 12.8 cc | 30:1 | 1.0 - 2.54 | 3/4-M / 1/2-F | 3000 - 206 | 1 - 10.4 / 3.9 - 39 |

Notes:

All pumps require [TR1](#) timing relay, [TR2](#) timing relay or electric solenoid valve.

HD1062, HD1062-3K requires [SR1S](#) snap action relay.

HD2000 requires [SR2S](#) snap action relay.

Maximum stroke rate for all pumps is 50 SPM. Exception HD2000 35 SPM.

MORGAN PRODUCTS INC. 28103 Ave. Stanford / Valencia, CA 91355

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MORGAN PRODUCTS

PNEUMATIC CHEMICAL PUMPS FOR THE GAS AND OIL INDUSTRIES

Pneumatic Diaphragm Injectors

| Model (No Timer) | Diaphragm Displacement | Pump Ratio | Diaphragm Size in - cm. | Connections All NPT Input/Output | Maximum Discharge PSI - BAR | Output Per Hour Gal. / Lts. |
|---------------------|---------------------------|---------------|-------------------------------|--|-----------------------------------|-----------------------------------|
| D10-316 | .8 cc | 1:1 | 1 - 2.5 | 1/4 -M / 1/4-M | 125 - 8.6 | .06 - .63 / .24 - 2.4 |
| D10-PVC | .8 cc | 1:1 | 1 - 2.5 | 1/4 -M / 1/4-F | 125 - 8.6 | .06 - .63 / .24 - 2.4 |
| D15-316 | 6.6 cc | 1:1 | 1.5 / 3.8 | 1/4 -M / 1/4-M | 125 - 8.6 | .5 - 5.2 / 2 - 20 |
| D15-PVC | 6.6 cc | 1:1 | 1.5 / 3.8 | 1/4 -M / 1/4-F | 125 - 8.6 | .5 - 5.2 / 2 - 20 |
| D25-316 | 21.2 cc | 1:1 | 2.5 / 6.4 | 1/2 -M / 1/2-M | 125 - 8.6 | 2 - 17 / 6.3 - 63 |
| D25-PVC | 21.2 cc | 1:1 | 2.5 / 6.4 | 1/2 -M / 1/2-F | 125 - 8.6 | 2 - 17 / 6.3 - 63 |
| D40-316 | 51.0 cc | 1:1 | 4 / 10 | 3/4 -M / 3/4-M | 125 - 8.6 | 3 - 30 / 11 - 114 |
| D40-PVC | 51.0 cc | 1:1 | 4 / 10 | 3/4 -M / 3/4-F | 125 - 8.6 | 3 - 30 / 11 - 114 |

Notes:

All pumps require [TR1](#) timing relay, [TR2](#) timing relay or electric solenoid valve.

All pumps are shipped with mounting stand.

Maximum stroke rate for all pumps is 50 SPM.

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MORGAN PRODUCTS

PNEUMATIC CHEMICAL PUMPS FOR THE GAS AND OIL INDUSTRIES

Pneumatic Chemical Injectors

| Model (No Timer) | Plunger Displacement | Pump Ratio | Stroke Length in - cm. | Connections All NPT Input/Output | Maximum Discharge PSI - BAR | Output Per Hour Gal. / Lts. |
|---------------------|-------------------------|---------------|------------------------------|--|-----------------------------------|-----------------------------------|
| 55DS | .2 cc | 54:1 | 3/4 - 1.91 | 1/4 -M / 1/4-F | 8100 - 558 | .01 - .12 / .05 - .46 |
| 125DS | .8 cc | 31:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 4650 - 320 | .06 - .63 / .24 - 2.4 |
| 225DS | .8 cc | 69:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 10000 - 689 | .06 - .63 / .24 - 2.4 |
| 325DS | .8 cc | 122:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 15000 - 1034 | .06 - .63 / .24 - 2.4 |
| 425DS | .8 cc | 217:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 15000 - 1034 | .06 - .63 / .24 - 2.4 |
| 235DS | 1.8 cc | 31:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 4650 - 320 | .15 - 1.5 / .55 - 5.5 |
| 335DS | 1.8 cc | 54:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 8100 - 558 | .15 - 1.5 / .55 - 5.5 |
| 435DS | 1.8 cc | 97:1 | 1 - 2.54 | 1/4 -M / 1/4-F | 10000 - 689 | .15 - 1.5 / .55 - 5.5 |
| 275DS | 3.2 cc | 17:1 | 1 - 2.54 | 1/2 -M / 1/4-F | 2550 - 175 | .25 - 2.5 / .95 - 9.5 |
| 375DS | 3.2 cc | 31:1 | 1 - 2.54 | 1/2 -M / 1/4-F | 4650 - 320 | .25 - 2.5 / .95 - 9.5 |
| 475DS | 3.2 cc | 54:1 | 1 - 2.54 | 1/2 -M / 1/4-F | 8100 - 558 | .25 - 2.5 / .95 - 9.5 |
| 3755DS | 7.2 cc | 14:1 | 1 - 2.54 | 3/4 -M / 1/2-F | 2100 - 144 | .56 - 5.6 / 2.1 - 21 |
| 4755DS | 7.2 cc | 24:1 | 1 - 2.54 | 3/4 -M / 1/2-F | 3600 - 248 | .56 - 5.6 / 2.1 - 21 |
| 3500DS | 12.8 cc | 8:1 | 1 - 2.54 | 3/4 -M / 1/2-F | 1200 - 83 | 1 - 10 / 3.9 - 39 |
| 4500DS | 12.8 cc | 14:1 | 1 - 2.54 | 3/4 -M / 1/2-F | 2100 - 144 | 1 - 10 / 3.9 - 39 |
| 880DS | 19.7 cc | 31:1 | 2 - 5.10 | 3/4 -M / 1/2-F | 4650 - 320 | 1.1 - 11 / 4.1 - 41 |
| 1255DS | 40.0 cc | 14:1 | 2 - 5.10 | 1-1/2-M / 3/4-F | 2100 - 144 | 2.2 - 22 / 8.4 - 84 |
| 5500DS | 154.0 cc | 6:1 | 3.1 - 7.87 | 1-1/2-M / 3/4-F | 900 - 62 | 9 - 90 / 34 - 341 |
| 8500DS | 154.0 cc | 14:1 | 3.1 - 7.87 | 1-1/2-M / 3/4-F | 2100 - 144 | 9 - 90 / 34 - 341 |

Notes:

All pumps require [TR1](#) timing relay, [TR2](#) timing relay or electric solenoid valve.

Model 425DS, 435DS, 4755DS and 4500DS pumps require [SR1S](#) snap action relay.

Model 800DS, 1255DS, 5500DS and 8500DS require [SR2S](#) snap action relay.

Maximum stroke rate for all pumps is 50 SPM. Exception 800DS and larger 35 SPM.

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