



DEUBLIN General Purpose 55 Series Unions

- monoflow and duoflow design
- self-supported rotating union
- radial housing connection
- balanced mechanical seal
- 3 vent holes
- forged brass housing
- stainless steel rotor ($\frac{3}{8}$ " - 1")
- special options:
threaded vent holes,
low torque design
- Lubrication Guide page 55

Operating Data

| | | | |
|---|---------------|-----------|-----------|
| Maximum Water Pressure | Model 55-555 | 750 PSI | 50 bar |
| Maximum Water Pressure | Model 655 | 600 PSI | 41 bar |
| Maximum Saturated Steam Pressure (Intermittent) | | 15 PSI | 1 bar |
| Maximum Hot Oil Pressure | | 100 PSI | 6.6 bar |
| Maximum Speed NPT Threads | Model 55-555 | 1,500 RPM | 1,500/min |
| | Model 655 | 750 RPM | 750/min |
| Maximum Speed Straight Threads | | | |
| | Model 55-255 | 3,500 RPM | 3,500/min |
| | Model 355 | 3,000 RPM | 3,000/min |
| | Model 525-555 | 2,500 RPM | 2,500/min |
| | Model 655 | 750 RPM | 750/min |

Maximum Temperature 250°F >250°F consult **DEUBLIN**

Torque Ratings 55 Series

| Size | ft.lbs | Nm |
|------|----------------|------|
| 55 | $\frac{1}{4}$ | 0.34 |
| 155 | $\frac{1}{3}$ | 0.50 |
| 255 | $\frac{1}{2}$ | 0.68 |
| 355 | $1\frac{1}{8}$ | 1.80 |
| 525 | $1\frac{1}{2}$ | 1.80 |
| 555 | $2\frac{1}{2}$ | 3.40 |
| 655 | 3 | 4.07 |

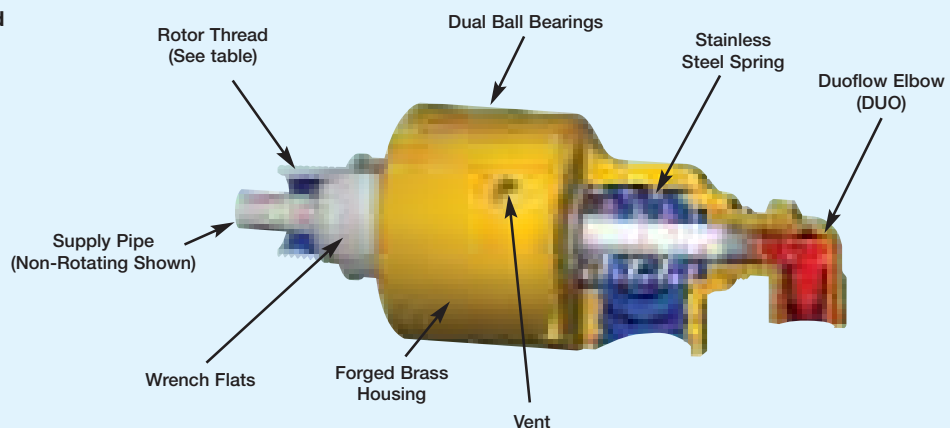
Seal Combinations

- Carbon Graphite/Bronze for water - Standard
- Carbon Graphite/Ceramic for hot oil, hot water and saturated steam - Optional
- multi-purpose applications

Seal Combination - E.L.S.

- Tungsten Carbide/Ceramic for severe conditions (poor water quality), max. temperature 200°F

Illustration shows duoflow with fixed supply pipe. Monoflow units have pipe plugs instead of an elbow.



55 & 57 Series Monoflow Union Specifications

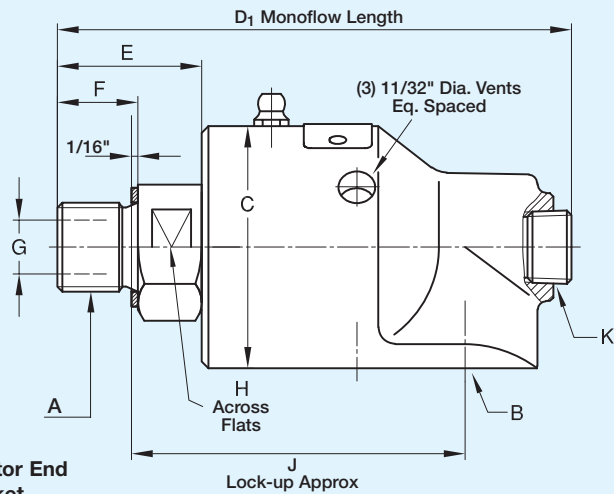


Chart Instructions

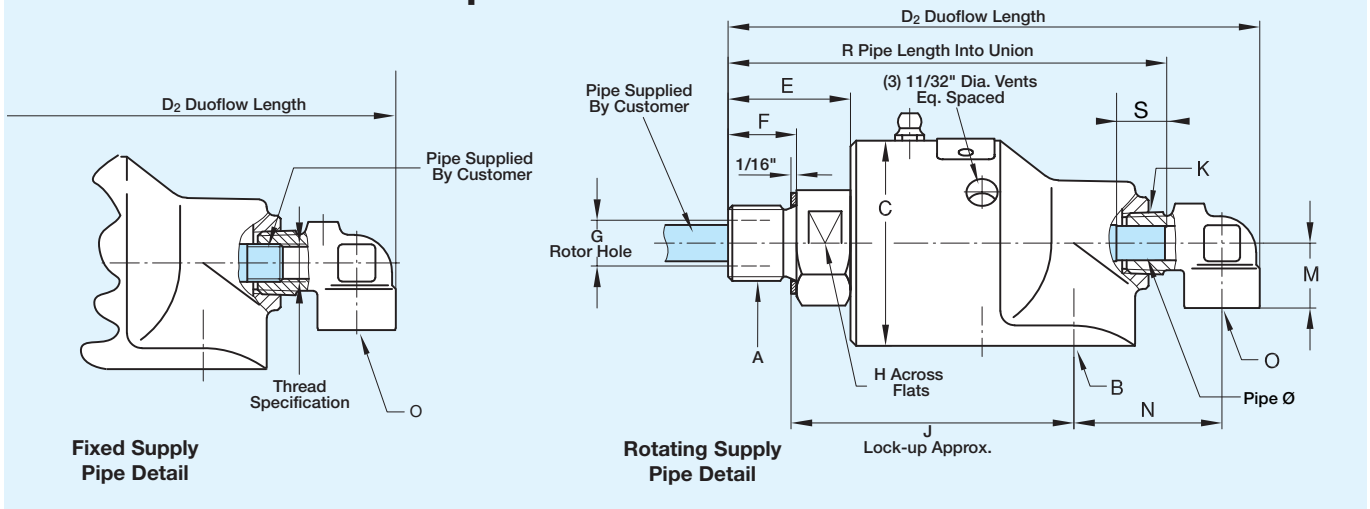
Select Union Size and Rotor Thread.
Follow this line to opposite page to
find Duoflow Elbow Specifications.
Add Duoflow Elbow Suffix to the end
of the Ordering Number.

† Recessed O-Ring in Rotor End
in Place of Copper Gasket

| B Port NPT | Ordering Number | | | | A ^① Rotor Thread | C | D ₁ | D ₂ | E | F | G | H | J |
|------------------|-----------------------|------------------|-------------------------|------------------|--------------------------------|---------|----------------|----------------|----------|---------|---------|--------|----------|
| | 55 Series All Purpose | 55 Series E.L.S. | 57 Series Water Service | 57 Series E.L.S. | | | | | | | | | |
| 3/8" | 55-000-001 | 55-147-151 | 57-000-001 | 57-050-001 | 3/8" NPT RH | 1 3/4" | 3 15/16" | 4 13/16" | 1" | 5/8" | 3/8" | 7/8" | 2 1/16" |
| | 55-000-002 | 55-147-152 | 57-000-002 | 57-050-002 | 3/8" NPT LH | | | | | | | | |
| | 55-000-003 | 55-147-149 | 57-000-003 | 57-050-003 | 5/8"-18 UNF RH | 1 3/4" | 3 15/16" | 4 13/16" | 1" | 5/8" | 3/8" | 7/8" | 2 1/2" |
| | 55-000-004 | 55-147-150 | 57-000-004 | 57-050-004 | 5/8"-18 UNF LH | | | | | | | | |
| | 55-000-094 | 55-147-192 | 57-000-094 | 57-050-094 | G 3/8" (BSP) RH | 44.5 | 102 | 123 | 26 | 16 | 9.5 | 22.2 | 63 |
| | 55-000-095 | 55-147-193 | 57-000-095 | 57-050-095 | G 3/8" (BSP) LH | | | | | | | | |
| 1/2" | 155-000-001 | 155-208-113 | 157-000-001 | 157-050-001 | 1/2" NPT RH | 2 1/4" | 4 13/16" | 5 7/8" | 1 1/16" | 7/8" | 1/2" | 1 1/8" | 3 1/2" |
| | 155-000-002 | 155-208-114 | 157-000-002 | 157-050-002 | 1/2" NPT LH | | | | | | | | |
| | 155-000-021 | 155-208-185 | 157-000-021 | 157-050-021 | 3/4"-16 UNF RH | 2 1/4" | 4 11/16" | 5 3/4" | 1 5/16" | 3/4" | 1/2" | 1 1/8" | 3 1/16" |
| | 155-000-022 | 155-208-229 | 157-000-022 | 157-050-022 | 3/4"-16 UNF LH | | | | | | | | |
| | 155-000-151 | 155-208-252 | 157-000-151 | 157-050-151 | G 1/2" (BSP) RH | 57.2 | 120 | 148 | 34 | 19 | 12.7 | 28.6 | 78 |
| | 155-000-152 | 155-208-253 | 157-000-152 | 157-050-152 | G 1/2" (BSP) LH | | | | | | | | |
| 3/4" | 255-000-020 | 255-052-255 | 257-000-020 | 257-050-020 | 3/4" NPT RH | 2 7/8" | 5 9/16" | 6 3/4" | 1 7/16" | 7/8" | 1 1/16" | 1 1/4" | 4 1/16" |
| | 255-000-021 | 255-052-256 | 257-000-021 | 257-050-021 | 3/4" NPT LH | | | | | | | | |
| | 255-000-003 | 255-052-258 | 257-000-135† | 257-050-135† | 1"-14 UNS RH | 2 7/8" | 5 7/16" | 6 5/8" | 1 5/16" | 3/4" | 2 1/32" | 1 1/4" | 3 11/16" |
| | 255-000-027 | 255-052-257 | 257-000-136† | 257-050-136† | 1"-14 UNS LH | | | | | | | | |
| | 255-000-284 | 255-052-445 | 257-000-284 | 257-050-284 | G 3/4" (BSP) RH | 73 | 138 | 168 | 34 | 19 | 17.5 | 32 | 94 |
| | 255-000-285 | 255-052-446 | 257-000-285 | 257-050-285 | G 3/4" (BSP) LH | | | | | | | | |
| 1" | 355-000-002 | 355-064-186 | 357-000-002 | 357-050-002 | 1" NPT RH | 3 1/4" | 6 13/16" | 8 5/16" | 1 15/16" | 1 1/8" | 1" | 1 1/2" | 4 11/16" |
| | 355-000-003 | 355-064-187 | 357-000-003 | 357-050-003 | 1" NPT LH | | | | | | | | |
| | 355-000-019 | 355-064-328 | 357-000-019 | 357-050-019 | 1 1/2"-12 UNF RH | 3 1/4" | 6 13/16" | 8 5/16" | 1 15/16" | 1 1/8" | 1" | 1 1/2" | 4 1/4" |
| | 355-000-074 | 355-064-329 | 357-000-074 | 357-050-074 | 1 1/2"-12 UNF LH | | | | | | | | |
| | 355-000-222 | 355-064-378 | 357-000-222 | 357-050-222 | G 1" (BSP) RH | 75.4 | 166 | 204 | 42 | 21.5 | 22.2 | 38.1 | 108 |
| | 355-000-223 | 355-064-379 | 357-000-223 | 357-050-223 | G 1" (BSP) LH | | | | | | | | |
| 1 1/4" | 525-000-001 | 525-097-043 | 527-000-001 | 527-050-001 | 1 1/4" NPT RH | 3 9/16" | 7 9/16" | 9 3/8" | 2 3/16" | 1 1/8" | 1 1/4" | 1 3/4" | 5 1/4" |
| | 525-000-002 | 525-097-044 | 527-000-002 | 527-050-002 | 1 1/4" NPT LH | | | | | | | | |
| | 525-000-026 | 525-097-095 | 527-000-026 | 527-050-026 | 1 3/4"-12 UN RH | 3 9/16" | 7 9/16" | 9 3/8" | 2 3/16" | 1 3/16" | 1 1/4" | 1 3/4" | 4 11/16" |
| | 525-000-027 | 525-097-096 | 527-000-027 | 527-050-027 | 1 3/4"-12 UN LH | | | | | | | | |
| | 525-000-054 | 525-097-122 | 527-000-054 | 527-050-054 | G 1 1/4" (BSP) RH | 90.5 | 191 | 234 | 54 | 27 | 30.2 | 44.5 | 119 |
| | 525-000-055 | 525-097-123 | 527-000-055 | 527-050-055 | G 1 1/4" (BSP) LH | | | | | | | | |
| 1 1/2" | 555-000-001 | 555-033-154 | 557-000-001 | 557-050-001 | 1 1/2" NPT RH | 4 1/4" | 8 1/2" | 10 5/16" | 2 7/16" | 1 3/16" | 1 1/2" | 2 5/8" | 6" |
| | 555-000-002 | 555-033-160 | 557-000-002 | 557-050-002 | 1 1/2" NPT LH | | | | | | | | |
| | 555-000-395 | 555-033-399 | 557-000-395 | 557-050-395 | 2"-12 UN RH | 4 1/4" | 8 7/8" | 10 11/16" | 2 13/16" | 1 1/8" | 1 1/2" | 2 5/8" | 5 13/16" |
| | 555-000-396 | 555-033-382 | 557-000-396 | 557-050-396 | 2"-12 UN LH | | | | | | | | |
| | 555-000-198 | 555-033-288 | 557-000-198 | 557-050-198 | G 1 1/2" (BSP) RH | 108 | 225 | 268 | 71 | 29 | 35 | 54 | 147 |
| | 555-000-199 | 555-033-289 | 557-000-199 | 557-050-199 | G 1 1/2" (BSP) LH | | | | | | | | |
| 2" | 655-500-116 | 655-502-116 | 657-000-116 | 657-050-116 | 2" NPT RH | 4 5/8" | 10 1/16" | 11 3/4" | 3" | 1 1/2" | 1 7/8" | 2 1/4" | 7" |
| | 655-500-117 | 655-502-117 | 657-000-117 | 657-050-117 | 2" NPT LH | | | | | | | | |
| | 655-500-124 | 655-502-124 | 657-000-124 | 657-050-124 | G 2" (BSP) RH | 117 | 246 | 289 | 65 | 28.6 | 47 | 55 | 164 |
| | 655-500-125 | 655-502-125 | 657-000-125 | 657-050-125 | G 2" (BSP) LH | | | | | | | | |

^① Metric threads and other thread sizes are available. Contact factory for further information. For 2", 2 1/2", 3", 4" and 5" capacity unions refer to pages 11-13 and 16-20.

55 & 57 Series Duoflow Union Specifications



For Description See Page 10

| Fixed Supply Pipe | | | Fixed Supply Tube | | | Rotating Supply Pipe | | | | | | | | | Shpg. Wt. |
|-------------------|--------------|----------|-------------------|---------|----------|----------------------|-----------|-----------------|---------|----------|--------|---------|----------|-------|-----------|
| Elbow Suffix | Thread | R | Elbow Suffix | Tube OD | R | Elbow Suffix | Pipe Size | Pipe Dia. | S | R | K NPT | M | N | O NPT | |
| — | — | — | -030 | .250" | 4 3/16" | — | — | — | — | — | 1/4" | 1 1/16" | 1 3/8" | 1/4" | 2# |
| — | — | — | -030 | .250" | 4 3/16" | — | — | — | — | — | 1/4" | 1 1/16" | 1 3/8" | 1/4" | 2# |
| -120 | M6X1 | 98.5 | — | — | — | — | — | — | — | — | 1/4" | 18 | 35 | 1/4" | 0.9 Kg |
| -012 | 1/8" NPT | 4 3/4" | -061 | .375" | 5 7/16" | — | — | — | — | — | 3/8" | 1 1/16" | 1 1/2" | 3/8" | 3# |
| -012 | 1/8" NPT | 4 3/4" | -061 | .375" | 5 5/16" | -061 | 1/8" | .371" .370" | 1 1/16" | 5" | 3/8" | 1 1/16" | 1 1/2" | 3/8" | 3# |
| -199 | G 3/8" (BSP) | 117 | — | — | — | -471 | — | 9.93 9.90 | 30 | 127 | 3/8" | 18 | 38 | 3/8" | 1.4 Kg |
| -043 | 1/4" NPT | 5 1/2" | -075 | .500" | 5 13/16" | — | — | — | — | — | 1/2" | 1" | 1 1/4" | 1/2" | 5# |
| -044 | 1/8" NPT | 5 1/8" | -026 | .437" | 5 13/16" | — | — | — | — | — | 1/2" | 1" | 1 1/4" | 1/2" | 5# |
| -043 | 1/4" NPT | 5 1/8" | -075 | .500" | 5 13/16" | -075 | 1/4" | .496" .495" | 1 1/4" | 5 11/16" | 1/2" | 1" | 1 3/4" | 1/2" | 5# |
| -044 | 1/8" NPT | 5" | -026 | .437" | 5 13/16" | — | — | — | — | — | 1/2" | 26 | 45 | 1/2" | 2.3 Kg |
| -368 | G 1/4" (BSP) | 136.5 | — | — | — | -681 | — | 12.95 12.90 | 31 | 146.5 | 1/2" | 26 | 45 | 1/2" | 2.3 Kg |
| -367 | G 3/8" (BSP) | 132.5 | — | — | — | — | — | — | — | — | 1/2" | 26 | 45 | 1/2" | 2.3 Kg |
| -083 | 3/8" NPT | 7 1/16" | -163 | .625" | 7 7/8" | — | — | — | — | — | 3/4" | 1 1/16" | 2 5/16" | 1/2" | 8# |
| -084 | 1/4" NPT | 7" | | | | | | | | | | | | | |
| -083 | 3/8" NPT | 7 1/16" | -163 | .625" | 7 7/8" | -163 | 3/8" | .621" .619" | 1 1/4" | 7" | 3/4" | 1 1/16" | 2 5/16" | 1/2" | 8# |
| -084 | 1/4" NPT | 7" | | | | | | | | | | | | | |
| -255 | G 3/8" (BSP) | 162 | — | — | — | -347 | — | 15.95 15.90 | 31 | 175 | 3/4" | 27 | 59 | 1/2" | 3.6 Kg |
| -007 | 1/2" NPT | 8 1/8" | -104 | .750" | 8 3/4" | — | — | — | — | — | 1" | 1 3/8" | 2 13/16" | 3/4" | 10# |
| -007 | 1/2" NPT | 8 1/8" | -104 | .750" | 8 3/4" | -104 | 1/2" | .745" .743" | 1 1/2" | 8 3/16" | 1" | 1 3/8" | 2 13/16" | 3/4" | 10# |
| -079 | G 1/2" (BSP) | 185.5 | — | — | — | -237 | — | 21.94 21.89 | 38 | 201.5 | 1" | 35 | 72 | 3/4" | 4.5 Kg |
| -013 | 3/4" NPT | 8 13/16" | -263 | 1.000" | 9 1/8" | — | — | — | — | — | 1 1/4" | 1 1/2" | 3 1/16" | 3/4" | 16# |
| -036 | 1/2" NPT | 8 3/4" | | | | | | | | | | | | | |
| -013 | 3/4" NPT | 9 3/16" | -263 | 1.000" | 9 1/2" | -144 | 3/4" | 1.000" .998" | 1 3/4" | 9 5/16" | 1 1/4" | 1 1/2" | 3 1/16" | 3/4" | 16# |
| -036 | 1/2" NPT | 9 1/8" | | | | | | | | | | | | | |
| -221 | G 3/4" (BSP) | 222 | — | — | — | -468 | — | 25.91 25.81 | 44 | 244 | 1 1/4" | 38 | 78 | 3/4" | 7.2 Kg |
| -013 | 3/4" NPT | 10 1/4" | -263 | 1.000" | 10 5/8" | — | — | — | — | — | 1 1/4" | 1 1/2" | 3 1/16" | 3/4" | 17# |
| -183 | 1" NPT | 10 3/8" | | | | | | | | | | | | | |
| -221 | G 3/4" (BSP) | 243 | — | — | — | -468 | — | 25.91 25.81 | 44 | 250 | 1 1/4" | 38 | 78 | 3/4" | 7.7 Kg |