



DEUBLIN

Rotating Union H Series

for Steam or Hot Oil Service, DN 20 - 125

- monoflow and duoflow design
- self-supported rotating union
- designed for steam and hot oil applications in paper, plastics and textile industries
- effective on a variety of applications, especially on open gear paper machines
- pressurised spherical carbon graphite seal
- stainless steel counterface
- two widely spaced graphite bearings
- H57 – H127 optional with sight glasses in the end cap for visual inspection of condensate removal
- seal wear indicator allows preventive maintenance
- flanged or threaded rotor available
- cast iron housing
- stainless steel rotor

Operating Data

| Service | Max. Pressure* | Max. Temperature | Max. Speed* | Max. Speed* |
|-----------------|----------------|------------------|-------------|-----------------------|
| Saturated Steam | 150 PSI | 365 °F | 400 RPM | 400 min ⁻¹ |
| | 10 bar | 185 °C | 180 RPM | 180 min ⁻¹ |
| | | | 3/4"-2" | |
| | | | 2 1/2"-5" | |
| Hot Oil | 100 PSI | 450 °F | 400 RPM | 400 min ⁻¹ |
| | 7 bar | 232 °C | 350 RPM | 350 min ⁻¹ |
| | | | 3/4"-2" | |
| | | | 2 1/2"-5" | |

* Operation at max. pressure combined with max. speed is not permissible

For further information please contact Deublin or your local representative.

Example for Stationary Siphon System

Example for Rotating Siphon System

The rotating unions of the H Series can be used with the Deublin Siphon Systems. Rotating and non-rotating siphon systems can be customised to meet any/all requirements. For further information please refer to our catalogue "Rotating Joints and Siphon Systems for the Paper Industry" or contact Deublin directly.

Monoflow Rotating Union

| DN | B | Model M | A ø | D | E | F | G ø | J | L | M | M1 |
|-----|---------|---------|-------|-----|------|----|------|-------|-------|-----|-----|
| 20 | G 3/4 | H20 | 69 | 140 | 40 | 12 | 18 | 95 | 59 | 45 | 50 |
| 25 | G 1 | H25 | 78 | 165 | 47 | 12 | 24,5 | 101 | 44 | 50 | 60 |
| 32 | G 1 1/4 | H32 | 94 | 175 | 49 | 14 | 32 | 112,5 | 44,5 | 52 | 65 |
| 40 | G 1 1/2 | H40 | 99 | 204 | 61 | 14 | 38 | 136,5 | 51 | 70 | 75 |
| 50 | G 2 | H57 | 120 | 258 | 60,5 | 14 | 47 | 151 | 90,5 | 83 | 95 |
| 65 | G 2 1/2 | H67 | 138,5 | 300 | 70 | 18 | 62 | 178,5 | 108,5 | 99 | 110 |
| 80 | G 3 | H87 | 150 | 326 | 67,5 | 18 | 76,5 | 188 | 120,5 | 115 | 120 |
| 100 | DN 100 | H107 | 200 | 394 | 76,5 | 20 | 100 | 220 | 143,5 | 137 | 170 |
| 125 | DN 125 | H127 | 280 | 465 | 85 | 24 | 125 | 275 | 190 | 158 | 220 |

Duoflow Rotating Union

| DN | B | O | Model E-R-S | A ø | D | E | F | G ø | J | L | M | M1 | M2 | N |
|-----|---------|---------|-------------|-------|-------|------|----|------|-------|-------|-----|-----|-----|-------|
| 20 | G 3/4 | G 1/2 | H20 | 69 | 195 | 40 | 12 | 18 | 95 | 59 | 45 | 50 | 30 | 86 |
| 25 | G 1 | G 1/2 | H25 | 78 | 220 | 47 | 12 | 24,5 | 101 | 44 | 50 | 60 | 30 | 104 |
| 32 | G 1 | G 3/4 | H32 | 94 | 203 | 49 | 14 | 32 | 112,5 | 44,5 | 52 | 65 | 65 | 60,5 |
| 40 | G 1 1/4 | G 1 | H40 | 99 | 245 | 61 | 14 | 38 | 136,5 | 51 | 70 | 75 | 75 | 71,5 |
| 50 | G 1 1/2 | G 1 1/4 | H57 | 120 | 303 | 60,5 | 14 | 47 | 151 | 90,5 | 83 | 95 | 95 | 97 |
| 65 | G 2 | G 1 1/2 | H67 | 138,5 | 359 | 70 | 18 | 62 | 178,5 | 108,5 | 99 | 110 | 110 | 124,5 |
| 80 | G 2 1/2 | G 2 | H87 | 150 | 396 | 67,5 | 18 | 76,5 | 188 | 120,5 | 115 | 120 | 120 | 146 |
| 100 | DN 80 | DN 65 | H107 | 200 | 562,5 | 76,5 | 20 | 100 | 220 | 143,5 | 137 | 170 | 170 | 251 |
| | DN 65 | DN 65 | H107 * | 200 | 563,5 | 76,5 | 20 | 100 | 220 | 143,5 | 137 | 170 | 170 | 251 |
| 125 | DN 100 | DN 65 | H127 | 280 | 617,5 | 85 | 24 | 125 | 275 | 190 | 158 | 220 | 220 | 250 |
| | DN 80 | DN 80 | H127 * | 280 | 625 | 85 | 24 | 125 | 275 | 190 | 158 | 220 | 220 | 250 |

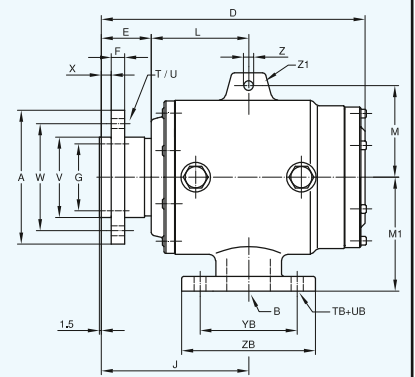
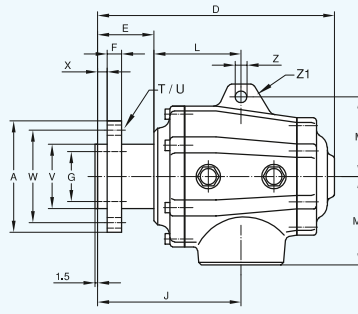
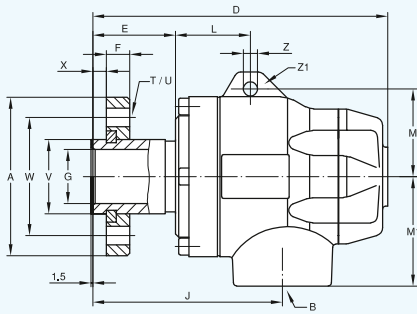
* Hot Oil Design

Monoflow Rotating Union, Models

H20 - H40

H57 - H87

H107 - H127

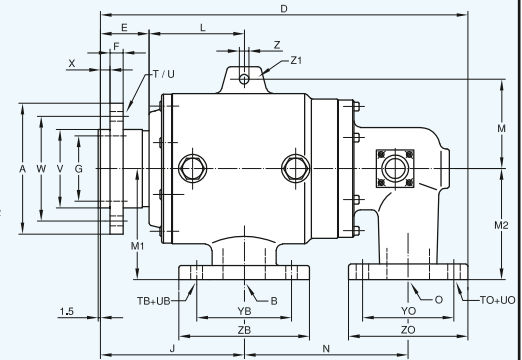
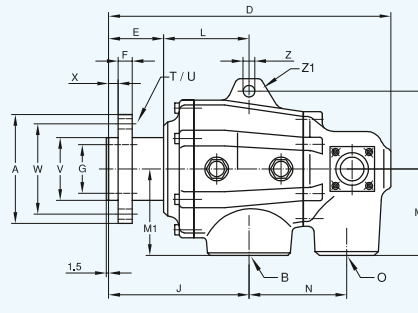
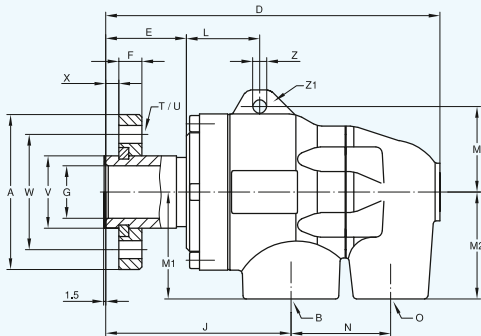


Duoflow Rotating Union, Models

H20 - H40

H57 - H87

H107 - H127



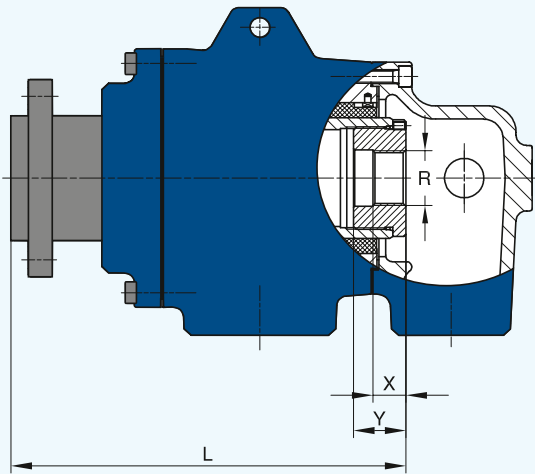
| T | U | TB | UB | V | W | X | YB | ZB | Z | Z1 | DN |
|---------|----|---------|----|------|-----|----|-----|-----|------|----|-----|
| | ∅ | | ∅ | ∅ h7 | ∅ | | ∅ | ∅ | ∅ | | |
| 4 x 90° | 9 | - | - | 30 | 50 | 6 | - | - | 7 | 8 | 20 |
| 4 x 90° | 9 | - | - | 36 | 60 | 7 | - | - | 7 | 11 | 25 |
| 4 x 90° | 11 | - | - | 44 | 70 | 8 | - | - | 8,5 | 8 | 32 |
| 4 x 90° | 11 | - | - | 52 | 78 | 10 | - | - | 11,5 | 10 | 40 |
| 4 x 90° | 11 | - | - | 65 | 95 | 10 | - | - | 13 | 15 | 50 |
| 4 x 90° | 13 | - | - | 80 | 115 | 12 | - | - | 15 | 20 | 65 |
| 4 x 90° | 13 | - | - | 95 | 125 | 12 | - | - | 15 | 25 | 80 |
| 6 x 60° | 15 | 8 x 45° | 18 | 120 | 160 | 15 | 180 | 220 | 15 | 25 | 100 |
| 6 x 60° | 18 | 8 x 45° | 18 | 160 | 225 | 15 | 210 | 250 | 15 | 25 | 125 |

| T | U | TB | UB | TO | UO | V | W | X | YB | ZB | YO | ZO | Z | Z1 | DN |
|---------|----|---------|----|---------|----|------|-----|----|-----|-----|-----|-----|------|----|-----|
| | ∅ | | ∅ | | ∅ | ∅ h7 | ∅ | | ∅ | ∅ | ∅ | ∅ | ∅ | | |
| 4 x 90° | 9 | - | - | - | - | 30 | 50 | 6 | - | - | - | - | 7 | 8 | 20 |
| 4 x 90° | 9 | - | - | - | - | 36 | 60 | 7 | - | - | - | - | 7 | 11 | 25 |
| 4 x 90° | 11 | - | - | - | - | 44 | 70 | 8 | - | - | - | - | 8,5 | 8 | 32 |
| 4 x 90° | 11 | - | - | - | - | 52 | 78 | 10 | - | - | - | - | 11,5 | 10 | 40 |
| 4 x 90° | 11 | - | - | - | - | 65 | 95 | 10 | - | - | - | - | 13 | 15 | 50 |
| 4 x 90° | 13 | - | - | - | - | 80 | 115 | 12 | - | - | - | - | 15 | 20 | 65 |
| 4 x 90° | 13 | - | - | - | - | 95 | 125 | 12 | - | - | - | - | 15 | 25 | 80 |
| 6 x 60° | 15 | 8 x 45° | 18 | 4 x 90° | 18 | 120 | 160 | 15 | 160 | 200 | 145 | 185 | 15 | 25 | 100 |
| 6 x 60° | 15 | 4 x 90° | 18 | 4 x 90° | 18 | 120 | 160 | 15 | 145 | 185 | 145 | 185 | 15 | 25 | |
| 6 x 60° | 18 | 8 x 45° | 18 | 4 x 90° | 18 | 160 | 225 | 15 | 180 | 220 | 145 | 185 | 15 | 25 | |
| 6 x 60° | 18 | 8 x 45° | 18 | 8 x 45° | 18 | 160 | 225 | 15 | 160 | 200 | 160 | 200 | 15 | 25 | 125 |

Duoflow Central Pipe Specifications

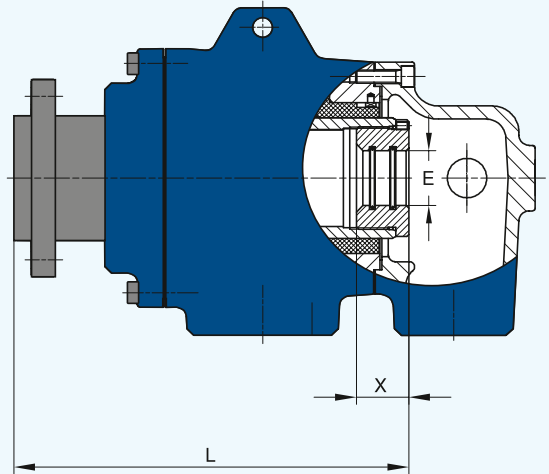
Rotating Central Pipe

R For rotating siphon (steam inlet pipe) the inner pipe is connected by means of a threaded bushing that screws into the rotor.



Rotating Central Pipe axial Movement

E For a rotating siphon capable of axial movement a sliding connection is made between the bushing and the central pipe to allow for the thermal expansion of the central pipe.

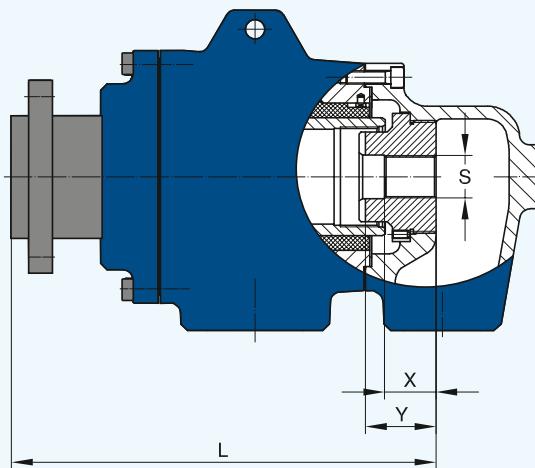


| Model | L | X | Y | Design | | | | | | |
|-------|-----|----|----|---------|---------|---------|---------|---------|---------|-----|
| | | | | Ra | Rb | Rc | Rd | Re | Rf | Rg |
| H20 | 117 | 15 | 20 | - | G 1/8 | G 1/4 | - | - | - | - |
| H25 | 133 | 15 | 20 | - | G 1/4 | G 3/8 | - | - | - | - |
| H32 | 147 | 20 | 25 | - | G 3/8 | G 1/2 | - | - | - | - |
| H40 | 175 | 25 | 30 | G 1/2 | G 3/4 | G 1 | - | - | - | - |
| H57 | 233 | 25 | 35 | - | G 3/4 | G 1 | - | G 1 1/4 | - | - |
| H67 | 273 | 25 | 35 | G 1/2 | G 3/4 | G 1 | - | G 1 1/4 | G 1 1/2 | - |
| H87 | 300 | 25 | 40 | G 1 | - | G 1 1/4 | G 1 1/2 | G 2 | - | - |
| H107 | 375 | 45 | 60 | G 1 | - | G 1 1/4 | G 1 1/2 | G 2 | G 2 1/2 | G 3 |
| H127 | 460 | 45 | 60 | G 1 1/4 | G 1 1/2 | G 2 | G 2 1/2 | G 3 | G 4 | - |

| Model | L | X | Design | | | | | | |
|-------|-----|----|--------|------|------|------|------|-------|------|
| | | | Ea | Eb | Ec | Ed | Ee | Ef | Eg |
| H20 | 117 | 20 | - | 9,5 | 13 | - | - | - | - |
| H25 | 133 | 20 | - | 13 | 17 | - | - | - | - |
| H32 | 147 | 25 | - | 17 | 21 | - | - | - | - |
| H40 | 175 | 30 | 21 | 26,6 | 31 | - | - | - | - |
| H57 | 233 | 35 | 21 | 26,6 | 33,3 | 37,6 | 42 | - | - |
| H67 | 273 | 35 | 21 | 26,6 | 33,3 | 37,6 | 42 | 48 | - |
| H87 | 300 | 40 | 33,3 | 37,6 | 42 | 47,9 | 59,8 | - | - |
| H107 | 375 | 60 | 33,7 | 38 | 42,4 | 48,3 | 60,3 | 76,1 | 88,9 |
| H127 | 460 | 60 | 42,4 | 48,3 | 60,3 | 76,1 | 88,9 | 101,6 | - |

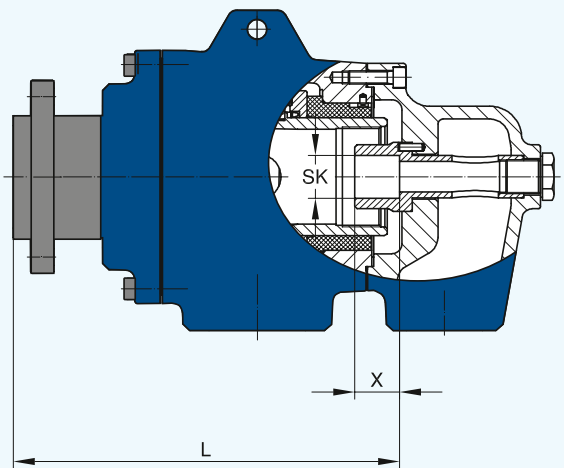
Stationary Central Pipe

S For fixed siphons the pipe is connected by means of a threaded bushing that screws into the end cap.



Stationary Central Pipe

SK For stationary fixed siphons where the central pipe is supported in the end cap and connected by means of an external bolt to the end cap.



| Model | L | X | Y | Design | | | | | |
|-------|-------|----|----|--------|-------|---------|---------|---------|---------|
| | | | | Sa | Sb | Sc | Sd | Se | Sf |
| H20 | 137 | 11 | 16 | - | G 1/8 | G 1/4 | - | - | - |
| H25 | 160 | 11 | 20 | - | G 1/4 | G 3/8 | - | - | - |
| H32 | 172 | 15 | 25 | - | G 3/8 | G 1/2 | - | - | - |
| H40 | 206 | 20 | 30 | G 1/2 | G 3/4 | G 1 | - | - | - |
| H57 | 250,5 | 25 | 40 | G 1/2 | G 3/4 | G 1 | - | G 1 1/4 | - |
| H67 | 303 | 30 | 40 | G 1/2 | G 3/4 | G 1 | - | G 1 1/4 | G 1 1/2 |
| H87 | 330 | 35 | 50 | G 1 | - | G 1 1/4 | G 1 1/2 | G 2 | - |
| H107 | - | - | - | - | - | - | - | - | - |
| H127 | - | - | - | - | - | - | - | - | - |

| Model | L | X | Design | |
|-------|-------|----|--------|------|
| | | | SKa | SKb |
| H57 | 227,5 | 30 | 21 | 26,6 |
| H67 | 276,5 | 30 | 26,6 | 33 |
| H87 | 294,5 | 30 | 33 | 42 |
| H107 | 375 | 60 | 33,7 | 38 |
| H127 | 460 | 60 | 42,4 | 48,3 |

Adjustable Siphon available

Consult Deublin Engineering!