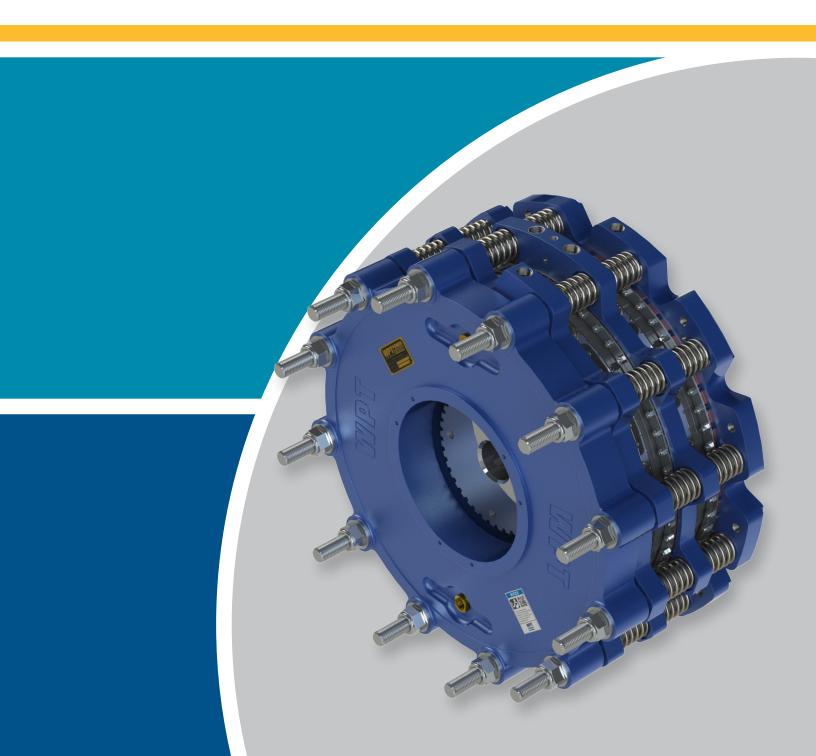


Water Cooled Brakes



Vision Statement

Our vision is to be the leader in every market we serve, to the benefit of our customers and our shareholders.

Mission Statement

Profitable growth through superior customer service, innovation, quality and commitment to customer satisfaction.

Core Values

- 1. We respect each other, our community and the environment.
- 2. We are ethical and honest in all of our business dealings.
- 3. We are diligent in protecting the safety of our people.
- We are disciplined and personally accountable for our decisions, actions, attitude and results
- We have an entrepreneur's mindset, driving innovation and striving for excellence in all we do.
- 6. We openly communicate among all levels of the company.
- 7. We believe in working as a team toward common objectives with a can-do attitude.

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WPT Power is constantly striving to improve and develop the product range. For this reason, WPT Power reserves the right to make changes in any product information without prior notice. Every effort has been made to ensure that the dimensions, performance, specifications, etc. are correct at the time of printing. For more information, please contact your authorized WPT Power distributor or visit: WPTpower.com.



WPT® Water Cooled Brakes (WCB) are a high energy absorbing solution used for dynamic tensioning. The design of the internal water flow and copper alloy wear plates allow for excellent heat dissipation. WCB's are well suited for applications where a heavy-duty continuous slip tensioning is needed such as drawworks, mooring winches, dynamometers, paper converting, uncoilers and yarders.

- Available in air or hydraulic actuation
- Standard mounting hole pattern for OEM applications, rebuilds, or retrofits
- O-ring water jacket design allows for fast, easy field service
- Full Marine Corrosion Package available, see pg. 8
- Type approval certification available: DNV & ABS (Others available on request)

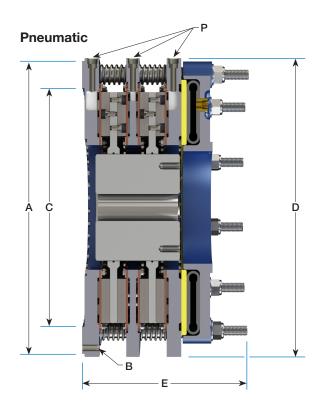
Specifications

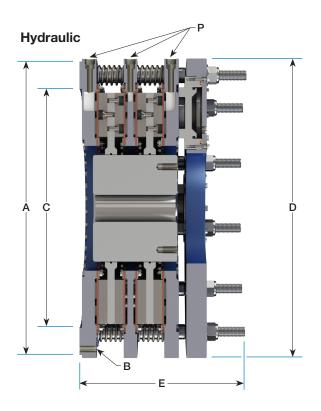
| | Torque Rating ¹ | | Heat Dissipation ² | Freshwater ² | Maximu | m Speed | | Hub & Drive | Hub & Drive |
|-------|---------------------------------|-------------------------------|-------------------------------|-------------------------|----------------|---------|--------------|-----------------|------------------|
| Model | Medium Coefficient ³ | High Coefficient ³ | Capacity | Flow (minimum) | Free- Wheel | Slip | Total Weight | Plate Weight | Plate Inertia |
| | lbf∙in (N·m) | lbf∙in (N·m) | hp (kW) | gpm (L/min) | r/min | r/min | lb (kg) | lb (kg) | lb∙ft² (kg·m²) |
| 118 | 47,200 (5330) | 72900 (8240) | 144 (107) | 14.4 (54.5) | 1910 | 1270 | 400 (180) | 88 (40) | 21 (0.88) |
| 218 | 94,300 (10700) | 146,000 (16500) | 290 (216) | 29.0 (110) | 1910 | 1270 | 590 (270) | 180 (80) | 42 (1.8) |
| 318 | 142,000 (16000) | 219,000 (24700) | 430 (321) | 43.0 (163) | 1910 | 1270 | 800 (360) | 280 (130) | 66 (2.8) |
| 418 | 189,000 (21300) | 292,000 (32900) | 580 (433) | 58.0 (220) | 1910 | 1270 | 990 (450) | 350 (160) | 84 (3.5) |
| 124 | 126,000 (14200) | 194,000 (21900) | 325 (242) | 32.5 (123) | 1450 | 970 | 840 (380) | 200 (89) | 79 (3.3) |
| 224 | 251,000 (28400) | 388,000 (43900) | 650 (485) | 65.0 (246) | 1450 | 970 | 1,300 (590) | 430 (200) | 160 (6.8) |
| 324 | 377,000 (42600) | 583,000 (65800) | 970 (723) | 97.0 (367) | 1450 | 970 | 1,700 (780) | 650 (300) | 260 (11) |
| 424 | 503,000 (56800) | 777,000 (87800) | 1,300 (969) | 130 (492) | 1450 | 970 | 2,100 (960) | 860 (390) | 370 (15) |
| 136 | 373,000 (42100) | 576,000 (65100) | 780 (582) | 78.0 (295) | 950 | 640 | 2,500 (1200) | 500 (230) | 410 (17) |
| 236 | 746,000 (84200) | 1,150,000 (130000) | 1,560 (1160) | 156 (591) | 950 | 640 | 3,700 (1700) | 940 (430) | 820 (34) |
| 336 | 1,120,000 (126000) | 1,730,000 (195000) | 2,340 (1750) | 234 (886) | 950 | 640 | 4,900 (2200) | 1,300 (600) | 1,200 (51) |
| 436 | 1,490,000 (168000) | 2,300,000 (260000) | 3,120 (2330) | 312 (1180) | 950 | 640 | 6,400 (2900) | 1,900 (840) | 1,700 (73) |

Pneumatic Rated Actuator Pressure: 100 psi (7 bar) All sizes Pneumatic Max Actuator Pressure: 130 psi (9 bar) All sizes Hydraulic Rated Actuator Pressure: 18" = 330 psi (23 bar), 24" = 380 psi (26 bar), 36" = 410 psi (28 bar) Hydraulic Max Actuator Pressure: 18" = 430 psi (30 bar), 24" = 490 psi (34 bar), 36" = 530 psi (37 bar) Torque is directly proportional to the actuator pressure applied.

² Flow and heat dissipation ratings are for parallel water flow through the jackets. Rated heat dissipation requires a freshwater flowrate of 1 gpm for every 10 hp (one liter per minute for every 2 kW) and are based upon a 50°F (28°C) temperature rise between the inlet and outlet. The outlet water temperature should not exceed 170°F (77°C). Maximum static inlet water pressure is 45 psi (3.1 bar) for the 18"/24"and 40 psi (2.8 bar) for the 36". Maximum dynamic inlet / outlet water pressure is 60 psi (4.1 bar) / 20 psi (1.4 bar) for all sizes. Ethylene Glycol is the recommended coolant additive. At 50% concentration in water, the required flowrate is 1.5 times the freshwater flowrate, due to the reduced specific heat of the solution. Seawater may be used as a coolant, with the same flow characteristics as with freshwater, and purging with freshwater after each use.

³ Low Coefficient and Extra-High Coefficent Friction Material offerings are available.





Dimensions

| | A ² | | В | | C +0.003/-0.000 | P | | E | Bore Range ³ | |
|-------|---|--------------------------|----------------|-------------|--------------------|-------|-----------------|----------------|-------------------------|---------------|
| Model | +0.000/-0.003 (+0.00/-0.08) | Hole Circle | Diameter | 01-1 | (+0.08/-0.00) | P | D | - | Minimum | Maximum |
| | in (mm) | in (mm) | in (mm) | Qty1 | in (mm) | | in (mm) | in (mm) | in (mm) | in (mm) |
| 118 | | | | | | | | 9 3/4 (247.3) | 2.25 (57.2) | 5.34 (135.7) |
| 218 | 23.250 (590.55) 22.00 (558.8) 21/32 (16.7) 10 18.250 (463.55) 1/2 23 5/8 (600 | 00 5 (0 (600 1) | 13 1/8 (331.8) | 2.25 (57.2) | 5.34 (135.7) | | | | | |
| 318 | | 23 5/6 (600.1) | 17 3/8 (441.3) | 2.25 (57.2) | 5.34 (135.7) | | | | | |
| 418 | | | | | | | | 21 5/8 (548.6) | 2.25 (57.2) | 5.34 (135.7) |
| 124 | | 8 (761.95) 28.75 (730.3) | 21/32 (16.7) | 10 | 24.375 (619.13) | 3/4 | 30 5/8 (777.9) | 11 1/4 (284.2) | 2.75 (69.9) | 7.00 (177.8) |
| 224 | 20,000 (761,05) | | | | | | | 17 1/8 (435.0) | 2.75 (69.9) | 7.00 (177.8) |
| 324 | 29.996 (761.95) | | | | | | | 24 1/8 (612.8) | 2.75 (69.9) | 7.00 (177.8) |
| 424 | | | | | | | | 30 3/4 (779.5) | 2.75 (69.9) | 7.00 (177.8) |
| 136 | | | | | | | | 17 1/4 (439.0) | 4.00 (101.6) | 10.13 (257.2) |
| 236 | 44 400 (1100 05) | 40.00 (1066.9) | 1 1/16 (27.0) | 14 | 10.075 (466.70) | 4 4/4 | 44 7/8 (1139.8) | 20 3/4 (527.9) | 5.00 (127.0) | 10.13 (257.2) |
| 336 | 44.498 (1130.25) | 42.00 (1066.8) | | 14 | 18.375 (466.73) | 1 1/4 | | 27 1/2 (699.4) | 7.00 (177.8) | 10.13 (257.2) |
| 436 | | | | | | | | 35 (889.9) | 7.50 (190.5) | 10.13 (257.2) |

 ^{1 18&}quot; and 24" brakes have (10) mounting holes based on a (12) hole pattern. 36" brakes have (14) mounting holes based on a (16) hole pattern. (2) holes omitted for coolant inlets/outlets
 2 36" brakes: +0.000/-0.005 (+0.00/-0.13)
 3 Maximum bores shown are with a standard square key. Contact WPT Power for bore sizes exceeding those shown.



WPT® Water Cooled Spring Applied Brakes are a high energy absorbing solution used as a dynamic tensioning, static holding, or emergency stop brake. These brakes are spring-applied and released through pneumatic or hydraulic pressure. The WCB Spring Applied Brake is ideal for applications that require dissipation of large thermal loads such as marine winches, drilling rig drawworks, and logging equipment.

- Available in air or hydraulic release
- Standard mounting hole pattern for OEM applications, rebuilds, or retrofits
- O-ring water jacket design allows for fast, easy field service
- Full Marine Corrosion Package available, see pg. 8
- Type approval certification available: DNV & ABS (Others available on request)
- Dual actuation available

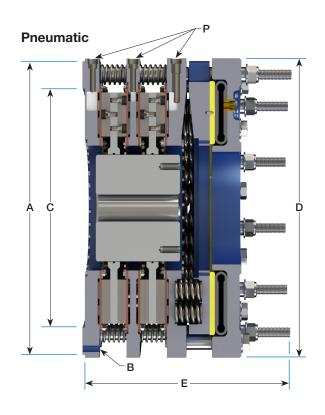
Specifications

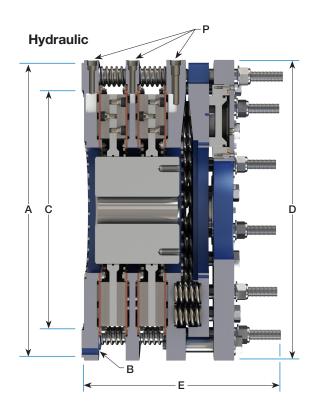
| | Torque | Rating ¹ | Heat | Freshwater ² | Maximu | m Speed | Tatal Wainb | Hub & Drive Plate | Hub & Drive Plate |
|-------|---------------------------------|-------------------------------|--------------|-------------------------|----------------|---------|--------------|----------------------|----------------------|
| Model | Medium Coefficient ³ | High Coefficient ³ | | | Free- Wheel | Slip | Total Weight | Weight | Inertia |
| | lbf·in (N·m) | lbf·in (N·m) | hp (kW) | gpm (L/min) | r/min | r/min | lb (kg) | lb (kg) | lb∙ft² (kg·m²) |
| 118 | 46,600 (5260) | 71,900 (8130) | 144 (107) | 14.4 (54.5) | 1,910 | 1,270 | 600 (270) | 88 (40) | 21 (0.88) |
| 218 | 86,600 (9790) | 134,000 (15100) | 290 (216) | 29.0 (110) | 1,910 | 1,270 | 790 (360) | 180 (80) | 42 (1.8) |
| 318 | 120,000 (13600) | 186,000 (21000) | 430 (321) | 43.0 (163) | 1,910 | 1,270 | 1,000 (450) | 280 (130) | 66 (2.8) |
| 418 | 148,000 (16700) | 229,000 (25800) | 580 (433) | 58.0 (220) | 1,910 | 1,270 | 1,200 (540) | 350 (160) | 84 (3.5) |
| 124 | 127,000 (14300) | 196,000 (22100) | 325 (242) | 32.5 (123) | 1,450 | 970 | 1,300 (590) | 200 (89) | 79 (3.3) |
| 224 | 238,000 (26900) | 368,000 (41600) | 650 (485) | 65.0 (246) | 1,450 | 970 | 1,700 (790) | 430 (200) | 160 (6.8) |
| 324 | 334,000 (37800) | 516,000 (58300) | 970 (723) | 97.0 (367) | 1,450 | 970 | 2,200 (980) | 650 (300) | 260 (11) |
| 424 | 415,000 (46900) | 642,000 (72600) | 1,300 (969) | 130 (492) | 1,450 | 970 | 2,600 (1200) | 860 (390) | 370 (15) |
| 136 | 391,000 (44100) | 604,000 (68200) | 780 (582) | 78.0 (295) | 950 | 640 | 2,500 (1200) | 500 (230) | 410 (17) |
| 236 | 755,000 (85200) | 1,170,000 (132000) | 1,560 (1160) | 156 (591) | 950 | 640 | 3700 (1700) | 940 (430) | 820 (34) |
| 336 | 1,090,000 (123000) | 1,690,000 (191000) | 2,340 (1750) | 234 (886) | 950 | 640 | 4,900 (2200) | 1,300 (600) | 1,200 (51) |
| 436 | 1,400,000 (158000) | 2,170,000 (245000) | 3,120 (2330) | 312 (1180) | 950 | 640 | 6,400 (2900) | 1,900 (840) | 1,700 (73) |

Pneumatic Rated Actuator Release Pressure: 115 psi (7.9 bar) Approximately, All sizes Pneumatic Max Actuator Release Pressure: 130 psi (9 bar) All sizes Hydraulic Rated Actuator Release Pressure: 18" = 330 psi (23 bar), 24" = 380 psi (26 bar), 36" = 410 psi (28 bar) Hydraulic Max Actuator Release Pressure: 18" = 430 psi (30 bar), 24" = 490 psi (34 bar), 36" = 530 psi (37 bar)
Torque is inversely proportional to the actuator pressure applied.

² Flow and heat dissipation ratings are for parallel water flow through the jackets. Rated heat dissipation requires a freshwater flowrate of 1 gpm for every 10 hp (one liter per minute for every 2 kW) and are based upon a 50°F (28°C) temperature rise between the inlet and outlet. The outlet water temperature should not exceed 170°F (77°C). Maximum static inlet water pressure is 45 psi (3.1 bar) for the 18"/24"and 40 psi (2.8 bar) for the 36". Maximum dynamic inlet / outlet water pressure is 60 psi (4.1 bar) / 20 psi (1.4 bar) for all sizes. Ethylene Glycol is the recommended coolant additive. At 50% concentration in water, the required flowrate is 1.5 times the freshwater flowrate, due to the reduced specific heat of the solution. Seawater may be used as a coolant, with the same flow characteristics as with freshwater, and purging with freshwater after each use.

³ Low Coefficient and Extra-High Coefficent Friction Material offerings are available.





Dimensions

| | A2 | | В | | C +0.003/-0.000 | Р | D | E | Bore Range ³ | |
|-------|--------------------------------|----------------------------|---------------|------|--------------------|--------------|-----------------|----------------|-------------------------|---------------|
| Model | +0.000/-0.003 (+0.00/-0.08) | Hole Circle | Diameter | 01.4 | (+0.08/-0.00) | P | , D | - | Minimum | Maximum |
| | in (mm) | in (mm) | in (mm) | Qty1 | in (mm) | NPT | in (mm) | in (mm) | in (mm) | in (mm) |
| 118 | | | | | | | | 10 3/4 (273.1) | 2.25 (57.2) | 5.34 (135.7) |
| 218 | 23.250 (590.55) | 22.00 (558.8) | 21/32 (16.7) | 10 | 18.250 (463.55) | 1/2 | 23 5/8 (600.1) | 14 1/8 (358.8) | 2.25 (57.2) | 5.34 (135.7) |
| 318 | 23.230 (590.55) | 22.00 (338.6) | 21/32 (10.7) | 10 | 10.230 (403.33) | 1/2 | 23 3/0 (000.1) | 18 3/8 (466.7) | 2.25 (57.2) | 5.34 (135.7) |
| 418 | | | | | | | | 22 5/8 (574.7) | 2.25 (57.2) | 5.34 (135.7) |
| 124 | | 998 (761.95) 28.75 (730.3) | 21/32 (16.7) | 10 | 24.375 (619.13) | 3/4 | 30 5/8 (777.9) | 15 1/4 (387.4) | 2.75 (69.9) | 7.00 (177.8) |
| 224 | 20 000 (761 05) | | | | | | | 21 1/8 (536.6) | 2.75 (69.9) | 7.00 (177.8) |
| 324 | 29.996 (761.95) | | | | | | | 28 1/8 (714.4) | 2.75 (69.9) | 7.00 (177.8) |
| 424 | | | | | | | | 34 3/4 (882.7) | 2.75 (69.9) | 7.00 (177.8) |
| 136 | | | | | | | | 21 7/8 (555.6) | 4.00 (101.6) | 10.13 (257.2) |
| 236 | 44.498 (1130.25) | 42.00 (1066.8) | 1 1/16 (27.0) | 14 | 18.375 (466.73) | 1 1// | 44 7/8 (1139.8) | 25 3/8 (644.5) | 5.00 (127.0) | 10.13 (257.2) |
| 336 | 44.490 (1130.23) | | | 14 | 10.373 (400.73) | 1 1/4 | | 32 1/8 (816.0) | 7.00 (177.8) | 10.13 (257.2) |
| 436 | | | | | 39 5/8 (1006.5) | 7.50 (190.5) | 10.13 (257.2) | | | |

^{1 18&}quot; and 24" brakes have (10) mounting holes based on a (12) hole pattern. 36" brakes have (14) mounting holes based on a (16) hole pattern. (2) holes omitted for coolant inlets/outlets 2 36" brakes: +0.000/-0.005 (+0.00/-0.13)
3 Maximum bores shown are with a standard square key. Contact WPT Power for bore sizes exceeding those shown.



WPT® Power Copper Water Cooled (CWC) brakes are designed for maximum heat transfer in a small package. The CWC is perfect for tension control equipment, coil processing, paper converting, unwinding stands, and large inertia stops.

- O-ring water jacket design allows for fast, easy field service
- Standard mounting hole pattern for OEM applications, rebuilds, or retrofits
- No outboard support required
- Legacy service parts available for additional sizes

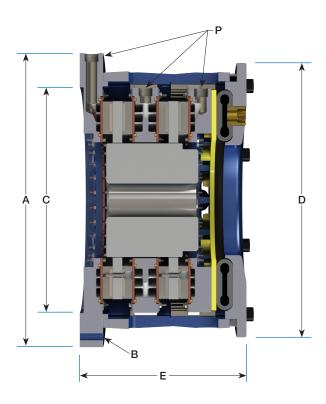
Specifications

| | Pneumatic Torque Ra | ting @ 100 psi (7 bar) ¹ | | | Freshwater ² | | | | Hub & Drive Plate | Hub & Drive Plate |
|-------|---------------------------------|-------------------------------------|-----------------|---------------|-------------------------|----------------|-------|--------------|----------------------|----------------------|
| Model | Medium Coefficient ³ | High Coefficient ³ | Parallel Piping | Series Piping | Flow (minimum) | Free- Wheel | Slip | Total Weight | Weight | Inertia |
| | lbf·in (N·m) | lbf·in (N·m) | hp (kW) | hp (kW) | gpm (L/min) | r/min | r/min | lb (kg) | lb (kg) | lb·ft² (kg·m²) |
| 114 | 16,100 (1820) | 24,900 (2820) | 75.0 (56.0) | 50.0 (37.0) | 7.50 (45.0) | 2740 | 1820 | 240 (110) | 35 (16) | 6.2 (0.26) |
| 214 | 32,200 (3640) | 49,800 (5630) | 150 (112) | 100 (75.0) | 15.0 (57.0) | 2740 | 1820 | 380 (170) | 68 (31) | 12 (0.52) |
| 314 | 48,400 (5460) | 74,700 (8450) | 225 (168) | 150 (112) | 23.0 (84.0) | 2740 | 1820 | 510 (230) | 163 (74) | 52 (2.2) |
| 118 | 36,700 (4150) | 56,700 (6410) | 120 (89.0) | 80.0 (60.0) | 12.0 (45.0) | 2120 | 1410 | 350 (160) | 100 (46) | 18 (0.75) |
| 218 | 73,400 (8290) | 113,000 (12800) | 240 (179) | 160 (119) | 24.0 (90.0) | 2120 | 1410 | 620 (280) | 200 (91) | 35 (1.5) |
| 318 | 110,000 (12400) | 170,000 (19200) | 360 (268) | 240 (179) | 36.0 (135) | 2120 | 1410 | 880 (400) | 310 (140) | 54 (2.3) |
| 124 | 79,200 (8940) | 122,000 (13800) | 285 (213) | 190 (142) | 29.0 (106) | 1610 | 1070 | 870 (400) | 310 (140) | 370 (16) |
| 224 | 158,000 (17900) | 245,000 (27600) | 570 (425) | 380 (283) | 58.0 (212) | 1610 | 1070 | 1,200 (550) | 760 (350) | 760 (32) |
| 324 | 237,000 (26800) | 367,000 (41500) | 855 (638) | 570 (425) | 87.0 (318) | 1610 | 1070 | 1,600 (700) | 1,100 (500) | 1,100 (47) |

¹ Pneumatic Max Actuator Pressure: 130 psi (9 bar) All sizes Torque is directly proportional to the actuator pressure applied.

² Rated heat dissipation requires a freshwater flowrate of 1 gpm for every 10 hp (one liter per minute for every 2 kW) and are based upon a 50°F (28°C) temperature rise between the inlet and outlet. The outlet water temperature should not exceed 170°F (77°C). Maximum inlet water pressure is 60 psi (4.1 bar). Ethylene Glycol is the recommended coolant additive. At 50% concentration in water, the required flowrate is 1.5 times the freshwater flowrate, due to the reduced specific heat of the solution.

³ Low Coefficient and Extra-High Coefficent Friction Material offerings are available.



Dimensions

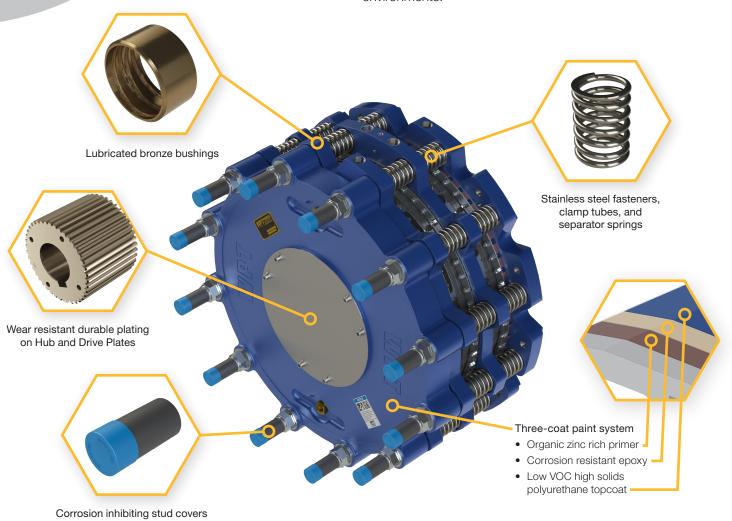
| | A +0.000/-0.003 | | В | | C +0.003/-0.000 | P | D | E | Bore Range ² | |
|-------|--------------------|--------------------------|--------------|------|--------------------|-----|----------------|----------------|-------------------------|--------------|
| Model | (+0.00/-0.003 | Hole Circle | Diameter | 0.1 | (+0.08/-0.00) | | | - | Minimum | Maximum |
| | in (mm) | in (mm) | in (mm) | Qty1 | in (mm) | NPT | in (mm) | in (mm) | in (mm) | in (mm) |
| 114 | | | | | | | 7 (177.8) | 2.13 (54.0) | 4.50 (114.3) | |
| 214 | 18.750 (476.25) | 17.50 (444.5) | 21/32 (16.7) | 6 | 14.375 (365.13) | 1/2 | 17 1/2 (444.5) | 10 5/8 (269.9) | 2.13 (54.0) | 4.50 (114.3) |
| 314 | | | | | | | | 14 1/4 (362.0) | 2.13 (54.0) | 4.50 (114.3) |
| 118 | | | | 10 | 18.250 (463.55) | 1/2 | 22 (558.8) | 8 (201.5) | 2.25 (57.2) | 5.78 (146.8) |
| 218 | 23.250 (590.54) | 22.00 (558.8) | 21/32 (16.7) | | | | | 12 1/8 (308.0) | 2.25 (57.2) | 5.78 (146.8) |
| 318 | | | | | | | | 16 3/8 (414.3) | 2.25 (57.2) | 5.78 (146.8) |
| 124 | | | | | | 3/4 | | 9 (228.2) | 2.13 (54.0) | 8.00 (203.2) |
| 224 | 30.000 (762.00) | 0 (762.00) 28.75 (730.3) | 21/32 (16.7) | 10 | 24.375 (619.13) | | 29 (736.6) | 13 5/8 (347.3) | 2.13 (54.0) | 8.00 (203.2) |
| 324 | | | | | | | | 18 3/8 (466.3) | 2.13 (54.0) | 8.00 (203.2) |

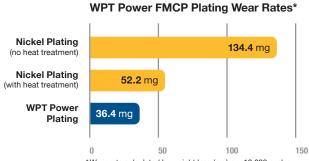
^{1 14&}quot; brakes have (6) mounting holes based on a (8) hole pattern. 18" and 24" brakes have (10) mounting holes based on a (12) hole pattern. (2) holes omitted for coolant inlets/outlets

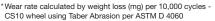
 $^{^{2}}$ Maximum bores shown are with a standard square key. Contact WPT Power for bore sizes exceeding those shown.

Full Marine Corrosion Package

The WPT Full Marine Corrosion Protection package delivers the defense needed for equipment running above deck or below deck in the harshest of saltwater environments.









Hours of exposure in 5% NaCl until first apperance or corrosion spots

Water Cooled Brake Applications



Drawworks

It's ability to dissipate large thermal loads and precision control in dynamic and static braking conditions, make WPT's Water Cooled Brake ideal for drilling or well service operations



Dynamometers

In dyno applications, torque control and energy dissipation are key factors. The WPT Water Cooled Brake airtube and hydraulic multi-piston radial actuators provide a wide torque range and precision control. The high-flow water jackets and copper linings transfer the energy quickly and efficiently.



Marine Winches

The constant, demanding heave-in and payout mooring operations at sea require a brake with high thermal capacity. The use of copper wear plates in WPT's Water Cooled Brake design allows for maximum heat dissipation during operational cycles. WPT's proprietary Full Marine Corrosion Package protects the brake in the harshest marine environments.



Paper Converting

Accurate torque and tension control, as well as constant water flow to maintain friction temperature, provide consistent performance and increased service life. These qualities make WPT Water Cooled Brakes well suited for winding applications inside paper mills.



Coil Processing

WPT Water Cooled Brakes provide accurate tension control and excellent heat dissipation for uncoilers, unwind stands, and slitters in metal processing plants.



Yarders

WPT Water Cooled Brakes are designed for continuous slip service, well suited for the log yarder application. Winch drum cables must either be slowed or stopped/held, creating large thermal loads that must be dissipated. Log yarders depend on the consistent performance of WPT brakes.



Global resource network

Our qualified distributor network provides responsive and knowledgeable sales and technical support worldwide. WPT's customer care approach ensures your product needs will be met quickly and with minimum downtime – when and wherever you are.

| Distributed by: |
|-----------------|
|-----------------|

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