



Posistop X Class Specifications

The Posistop Motor Brakes (MB Series) with multiple springs and multiple discs are very flexible brakes. They may be assembled to obtain a broad range of torque ratings. The spring set torque of the brake is determined by the number of springs and number of discs assembled. The following charts show all of the options however the ones in bold type are considered standard. Typically selecting the maximum number of discs and fewer springs to achieve the desired torque is ideal.

XB1 and XB2 Specifications

| STATIC TORQUE (Dynamic Torque) (Lb.) | | | | |
|--------------------------------------|--------------|--------------|----------------|----------------|
| 2 Friction Discs | No. Springs | | | 2 Drive Plates |
| | 3 | 6 | 9 | |
| | 4 (3) | 8 (7) | 12 (10) | |
| | 15 | 30 | 46 | |
| Pressure to Release (PSI) | | | | |

| Size | Thermal Rating (Hp Sec/Min) | Max. KE per Engagement (Ft. Lbs) | Piston Volume (Cu In) | Inertia WK2 (Lb. Ft.^2) | Max. Speed (RPM) | Weight (Lbs.) | Oil Capacity (Ounces) |
|------|-----------------------------|----------------------------------|-----------------------|-------------------------|------------------|---------------|-----------------------|
| XB1 | 30 | 4650 | .9 | .0130 | 1800 | 31 | 28 |
| XB2 | 39 | 11,295 | | | | | |

| STATIC TORQUE (Dynamic Torque) (Lb.) | | | | |
|--------------------------------------|--------------|----------------|----------------|----------------|
| 3 Friction Discs | No. Springs | | | 3 Drive Plates |
| | 3 | 6 | 9 | |
| | 6 (5) | 12 (10) | 18 (15) | |
| | 15 | 30 | 46 | |
| Pressure to Release (PSI) | | | | |

XB3 Specifications

| STATIC TORQUE (Dynamic Torque) (Lb. Ins.) | | | | | | |
|---|----------------|----------------|----------------|----------------|--------------|----------|
| Friction Discs | No. Springs | | | | Drive Plates | |
| | 3 | 6 | 9 | | | |
| | 3 | 7(6) | 15 (13) | 23 (18) | | 6 |
| | 4 | 10 (9) | 20 (17) | 30 (26) | | 8 |
| 5 | 12 (10) | 25 (22) | 38 (30) | 6 | | |
| | 15 | 30 | 46 | | | |
| Pressure to Release (PSI) | | | | | | |

| Size | Thermal Rating (Hp Sec/Min) | Max. KE per Engagement (Ft. Lbs) | Piston Volume (Cu In) | Inertia WK2 (Lb. Ft.^2) | Max. Speed (RPM) | Weight (Lbs.) | Oil Capacity (Ounces) |
|------|-----------------------------|----------------------------------|-----------------------|-------------------------|------------------|---------------|-----------------------|
| XB3 | 42 | 1712 | .9 | .0174 | 1800 | 45 | 30 |
| | | | | .0181 | | | |
| | | | | .0189 | | | |

XB4 Specifications

| STATIC TORQUE (Dynamic Torque) (Lb. Ins.) | | | | | | |
|---|----------------|----------------|----------------|----------------|--------------|--|
| Friction Discs | No. Springs | | | | Drive Plates | |
| | 3 | 6 | 9 | | | |
| | | 12(10) | 17 (15) | 24 (21) | | |
| | | 25 (20) | 36 (31) | 37 (30) | | |
| | 50 (43) | 54 (46) | 75 (65) | | | |
| | | | | | | |
| Pressure to Release (PSI) | | | | | | |

| Size | Thermal Rating (Hp Sec/Min) | Max. KE per Engagement (Ft. Lbs) | Piston Volume (Cu In) | Inertia WK2 (Lb. Ft.^2) | Max. Speed (RPM) | Weight (Lbs.) | Oil Capacity (Ounces) |
|------|-----------------------------|----------------------------------|-----------------------|-------------------------|------------------|---------------|-----------------------|
| XB4 | cf | cf | 2.66 | .0473 | 1800 | 75 | 60 |
| | | | | .0499 | | | |
| | | | | .0526 | | | |

Cf=Consult Factory



XB5 & XB6 Specifications

| STATIC TORQUE (Dynamic Torque) (Lb. Ins.) | | | | |
|---|-------------|-----------|-----------|--------------|
| Friction Discs | No. Springs | | | Drive Plates |
| | | | | |
| | 50 (43) | 65 (56) | 80 (69) | |
| | 100 (86) | 130 (112) | 150 (120) | |
| | 160 (138) | 185 (159) | 200 (172) | |
| 240* (206) | 300** (258) | | | |
| Pressure to Release (PSI) | | | | |

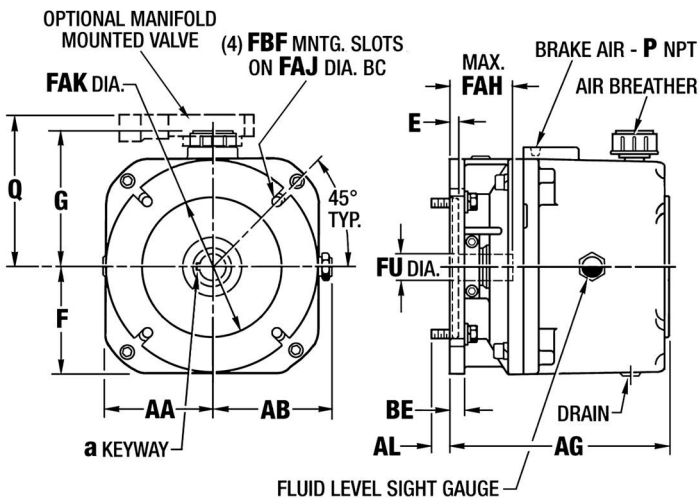
| Size | Thermal Rating (Hp Sec/Min) | Max. KE per Engagement (Ft. Lbs) | Piston Volume (Cu In) | Inertia WK2 (Lb. Ft.^2) | Max. Speed (RPM) | Weight (Lbs.) | Oil Capacity (Ounces) |
|------|-----------------------------|----------------------------------|-----------------------|-------------------------|------------------|---------------|-----------------------|
| XB6 | cf | cf | 19.5 | .2011 | 1800 | 141 | 42 |
| | | | | .2215 | | | |

Cf=Consult Factory

* = 1 3/8" Minimum Shaft Diameter

** = 1 5/8" Minimum Shaft Diameter

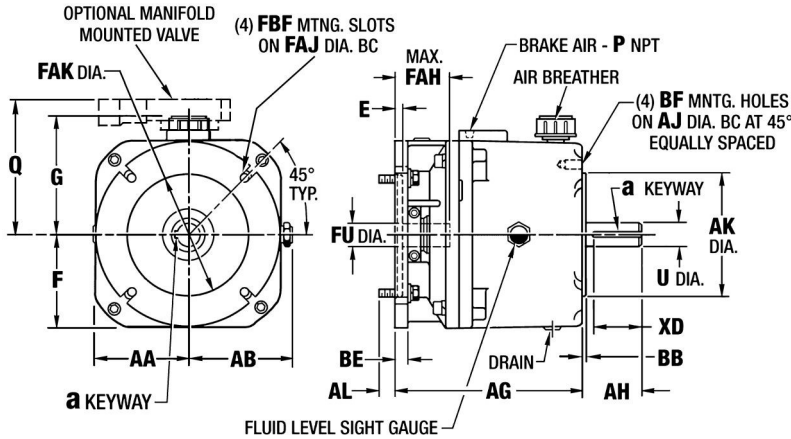
Posistop XB Motor Brake Dimensions (Inches)



| Brake Size | Brake Overall Dimensions (inches) | | | | | | | | | | | | | | | |
|------------|-----------------------------------|------|-------|------|------|------|------|------|------|-----|--------------|-------------|------|-------|---------|------|
| | AA | AB | AG | AL | BE | E | F | G | FAH | FAK | FU | a | FBF | FAJ | P | Q |
| XB1 | 3.51 | 3.77 | 7.00 | 0.63 | 0.50 | 0.28 | 3.44 | 4.50 | 2.38 | 4.5 | 5/8 | 3/16 x 3/32 | 7/16 | 5.875 | 1/8 NPT | 4.94 |
| XB2 | 3.51 | 3.77 | 7.00 | 0.63 | 0.56 | 0.28 | 3.44 | 4.50 | 2.38 | 4.5 | 7/8 | 3/16 x 3/32 | 7/16 | 5.875 | 1/8 NPT | 4.94 |
| XB3 | 4.44 | 4.44 | 8.46 | 0.57 | 0.69 | 0.19 | 4.44 | 5.08 | 2.94 | 8.5 | 7/8 1 1/8 | 1/4 x 1/8 | 9/16 | 7.250 | 1/8 NPT | 4.94 |
| XB4 | 4.50 | 5.00 | CF | 0.71 | 0.83 | 0.19 | 4.50 | 5.67 | 3.13 | 8.5 | 6.00 | 5/16 X 5/32 | 9/16 | 7.250 | 1/8 NPT | |
| XB5 | 5.00 | 5.00 | 11.70 | 0.71 | 0.69 | N/A | 5.50 | 6.64 | 3.88 | C/F | 1 1/8" | 1/4 x 1/8 | 9/16 | 7.250 | 1/4 NPT | C/F |
| | | | | | | | | | | | 1 3/8" | 5/16 X 5/32 | | | | |
| | | | | | | | | | | | 1 5/8" | 3/8 X 3/16 | | | | |
| XB6 | 5.50 | 5.50 | 11.70 | 0.71 | 0.69 | N/A | 5.50 | 6.64 | 4.88 | C/F | 1 5/8" | 3/8 X 3/16 | 9/16 | 9.000 | 1/4 NPT | C/F |
| | | | | | | | | | | | 1 7/8" | 1/2 X 1/4 | | | | |



Posistop XB Coupler Brake Dimensions (Inches)



| Brake Size | Coupler Brake Overall Dimensions (inches) | | | | | | |
|------------|---|------|------|------|------|---------|------|
| | AA | AB | AG | F | G | P | Q |
| XB1 | 3.51 | 3.77 | 7.00 | 3.44 | 4.50 | 1/8 npt | 4.94 |
| XB2 | | | | | | | |
| XB3 | 4.44 | 4.44 | 8.46 | 4.44 | 5.08 | | |
| XB4 | 4.50 | 5.00 | CF | 4.50 | 5.67 | 1/4 NPT | 6.00 |
| XB5 | 5.00 | 5.00 | ### | 5.50 | 6.64 | | |
| XB6 | 5.50 | 5.50 | ### | 5.50 | 6.64 | | |

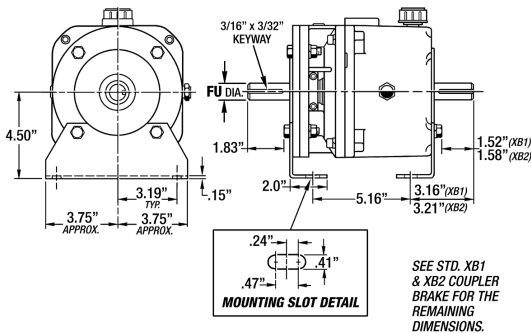
| Brake Size | Coupler Brake Input Dimensions (inches) | | | | | | | |
|------------|---|------|------|---------------|------|-------|----------------|-------|
| | AL | BE | E | FAH | FAJ | FAK | FU | FBF |
| XB1 | 0.63 | 0.50 | 0.28 | 2.38 | 5.88 | 4.500 | 5/8 | 7/16 |
| XB2 | 0.63 | 0.50 | 0.28 | 2.38 | 5.88 | 4.500 | 7/8 | 7/16 |
| XB3 | 0.57 | 0.73 | 0.19 | 2.94 | 7.25 | 8.500 | 7/8 1 1/8 | 9/16 |
| XB4 | 0.75 | 0.83 | 0.19 | 3.13 | 7.25 | 8.500 | 1 1/8 1 3/8 | 9/16 |
| XB5 | 0.71 | 0.69 | N/A | 2.88 3.88 | 7.25 | N/A | 1 1/8 | 17/32 |
| | | | | | | | 1 3/8 | |
| | | | | | | | 1 5/8 | |
| XB6 | 0.71 | 0.69 | N/A | 4.88 .4.72 | 9.00 | N/A | 1 5/8 | 17/32 |
| | | | | | | | 1 7/8 | |

| Brake Size | Coupler Brake Output Dimensions (inches) | | | | | | | |
|------------|--|------|------|-------|------|--------|-------|------|
| | a | AH | AJ | AK | BB | BF | U | XD |
| XB1 | 3/16 x 3/32 | 2.06 | 5.88 | 4.50 | 0.16 | 3/8-16 | 5/8 | 1.50 |
| XB2 | | 2.12 | | 4.50 | 0.16 | 3/8-16 | 7/8 | 1.73 |
| XB3 | 1/4 X 1/8 | 2.63 | 7.25 | 8.50 | 0.25 | 1/2-13 | 1 1/8 | 2.00 |
| XB4 | 5/16 X 5/32 | 3.13 | 7.25 | 8.50 | 0.25 | 1/2-13 | 1 3/8 | 2.65 |
| | | | | | | | 1 1/8 | 2.65 |
| | | | | | | | 1 3/8 | 3.00 |
| XB5 | 3/8 x 3/16 | 4.00 | 7.25 | 8.50 | 0.25 | 1/2-13 | 1 5/8 | 3.63 |
| | | | | | | | 1 5/8 | 3.63 |
| | | | | | | | 1 5/8 | 3.63 |
| XB6 | 1/2 x 1/4 | 4.38 | 9.00 | 10.50 | 0.25 | 1/2-13 | 1 5/8 | 3.69 |
| | | | | | | | 1 7/8 | 3.62 |

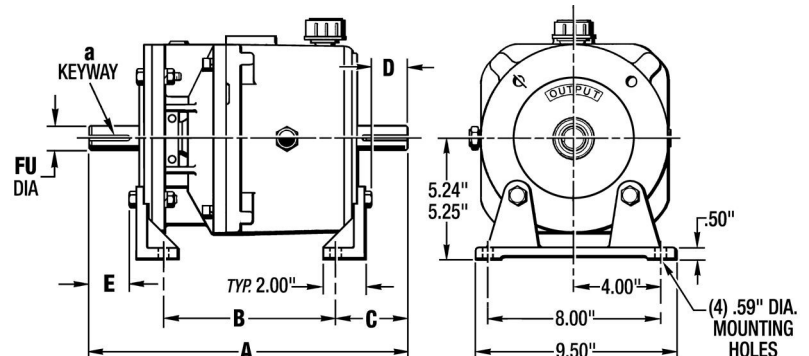
Posistop XB1, XB2 & XB3 Coupler Brake Dimensions (Inches)

(with mounting feet and male input shaft)

Size XB1 & XB2



Size XB3



| Size | XB1 | XB2 |
|---------|-------|-------|
| FU Dia. | .625" | 0.875 |

| Size | FU | a | A | B | C | D | E |
|------|-------|-------------|--------|-------|-------|-------|-------|
| X3 | 1.250 | 1/4" X 1/8" | 14.460 | 6.950 | 3.630 | 1.820 | 2.070 |



How To Order X Class Posistop Coupler or Motor Brake



(1) Size

| | |
|---|-----|
| 1 | =X1 |
| 2 | =X2 |
| 3 | =X3 |
| 4 | =X4 |

**(3)
Spring
Set Brake**

(9) Mounting Options

| | |
|----------|---------------------------|
| N | = Horizontal (No Options) |
| D | = Vertical, Input Down |
| U | = Vertical, Input Up |

(2) Input Module

| | | | |
|---|-----------------------|----------------|-----------|
| 2 | = 4 1/2 FAK, 5/8" FU | 56C | XB1 & XB2 |
| 3 | = 4 1/2 FAK, 7/8" FU | 143TC 145TC | |
| 4 | = 8 1/2 AK, 1 1/8 FU | 182TC 184TC | X3 |
| 5 | = 8 1/2 AK, 1 3/8 FU | 213TC 215TC | X4 |
| 6 | = 8 1/2 AK, 1 5/8" FU | 254TC 256TC | XB5 |
| 7 | = 10 1/2 AK, 1 5/8 FU | 284C 286C | XB6 |
| 8 | = 10 1/2 AK, 1 7/8 FU | 284TC 286TC | XB6 |

(5,6 & 7) Torque (Lb. Ft.)

| | |
|-----|------|
| 004 | =4 |
| 006 | =6 |
| 007 | =7 |
| 010 | =10 |
| 012 | =12 |
| 015 | =15 |
| 018 | =18 |
| 020 | =20 |
| 025 | =25 |
| 030 | =30 |
| 038 | =38 |
| 050 | =50 |
| 065 | =65 |
| 080 | =80 |
| 100 | =100 |
| 130 | =130 |
| 150 | =150 |
| 160 | =160 |
| 185 | =185 |
| 200 | =200 |
| 240 | =240 |
| 300 | =300 |

(8) Package Type

| | |
|----------|--|
| S | = Standard |
| F | = Food Grade Fluid, (USDA H-2) |
| W | = Washdown, nickel plated shafts, SS hardware, Steel-It Epoxy paint, food grade fluid (USDA H-2) |
| E | = Washdown, nickel plated shafts, SS hardware, White Epoxy paint, food grade fluid (USDA H-2) |

*NOTE:
Accessories and Kits must be ordered separately.*

(2) Output Module

| | | | |
|---|-----------------------|----------------|-----------|
| 0 | Motor Brake | | |
| 2 | = 4 1/2 FAK, 5/8" FU | 56C | XB1 & XB2 |
| 3 | = 4 1/2 FAK, 7/8" FU | 143TC 145TC | |
| 4 | = 8 1/2 AK, 1 1/8 FU | 182TC 184TC | X3 |
| 5 | = 8 1/2 AK, 1 3/8 FU | 213TC 215TC | X4 |
| 6 | = 8 1/2 AK, 1 5/8" FU | 254TC 256TC | XB5 |
| 7 | = 10 1/2 AK, 1 5/8 FU | 284C 286C | XB6 |
| 8 | = 10 1/2 AK, 1 7/8 FU | 284TC 286TC | XB6 |