

# Precision Engineered High Capacity Hinges

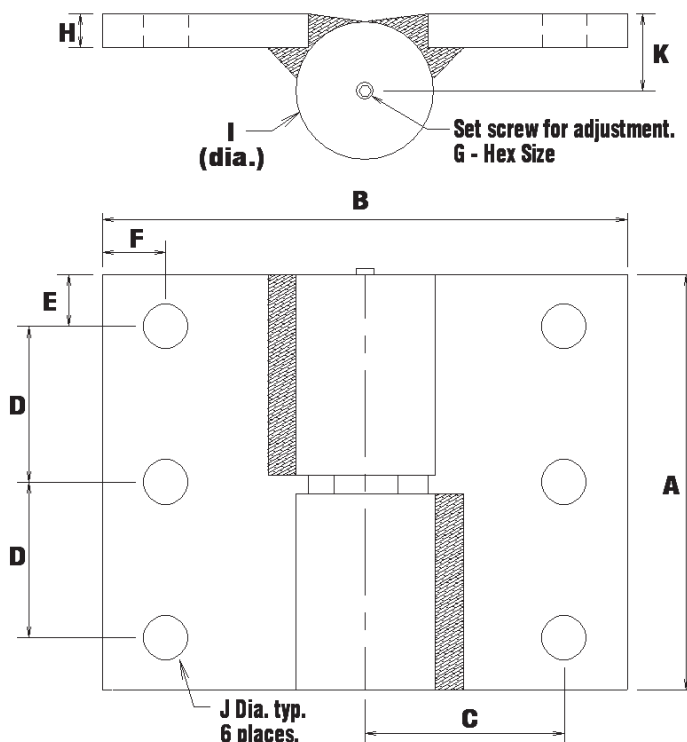
**SERIES NO. CBW**

For use on lead filled radiation doors, vault doors, heavy architectural gates or any door application where the hinges will be subjected to severe loads from a blast pressure, seismic event or high wind velocities.

The barrel and leaf sections of the hinge are fabricated from 1018 cold rolled steel and joined with welds of x-ray quality. The CBW Series are precision machined hinges featuring anti-friction needle roller bearings that support thrust and radial loads. A non-removable alloy steel hinge pin is hardened, precision ground and Armoloy® coated for corrosion protection. For severe environments oil seals are available to protect the hinge's internal workings. The results: a maintenance free, reliable hinge that will allow doors weighing several thousand pounds to be operated by the touch of a finger.

- Std. Finishes: Prime Painted (USP)  
 Optional: Polished Chrome (US26)  
 Satin Chrome Plated(US26D)  
 Polished Stainless Steel (US32)  
 Satin Stainless Steel (US32D)  
 Zinc Plated (2C)

**Consult with factory before specifying.**  
**\*Door handing is required upon ordering.**



Hinge Model #	Thrust Cap. (Door Wt.) lbs.	Radial Cap. #	A	B (Ref)	C	D	E	F (Ref)	G	H	I	J	K	Mounting bolt Specification	Recom-mend-ed Torque (lb-in)
														Mechanical Properties	
CBW500	1,000	400	5	4.25	1.38	1.75	0.75	0.75	3/16"	3/8"	1.00	13/32"	0.735	3/8" Dia. Grade 5 Fu=120,000 psi	250
CBW875	3,000	1,220	5	6.53	2.25	1.75	0.75	1.00	1/4"	1/2" Steel 3/4" S.S.	1.75	17/32" Steel 21/32" S.S.	0.926 Steel 1.25 S.S.	1/2" Dia. Grade 5 Fu=120,000 psi	625
CBW100	4,000	1,630	6	7.58	2.88	2.25	0.75	0.91	1/4"	1/2" Steel 1" S.S.	2.00	21/32"	1.115 Steel 1.688 S.S.	5/8" Dia. Grade 5 Fu=120,000 psi	1200
CBW125	8,000	3,330	8	8.00	2.88	2.75	1.25	1.13	3/8"	3/4"	2.50	25/32"	1.563	3/4" Dia. Socket Head Fu=170,000 psi	2600
CBW150	13,000	6,280	9	9.50	3.58	3.25	1.25	1.25	9/16"	1"	3.25	29/32"	2.033	7/8" Dia. Grade 5 Fu=170,000 psi	5400
CBW200*	20,000	8,800	12	10.75	4.13	3.50	2.50	1.25	3/4"	1"	3.75	1.03"	2.282	1" Dia. Grade 5 Fu=170,000 psi	7500

**\*Gusset plates exist on this model only**

**Note: Large Sizes Available**  
**S.S.= Stainless Steel**

# How to Determine Hand of Hinge:

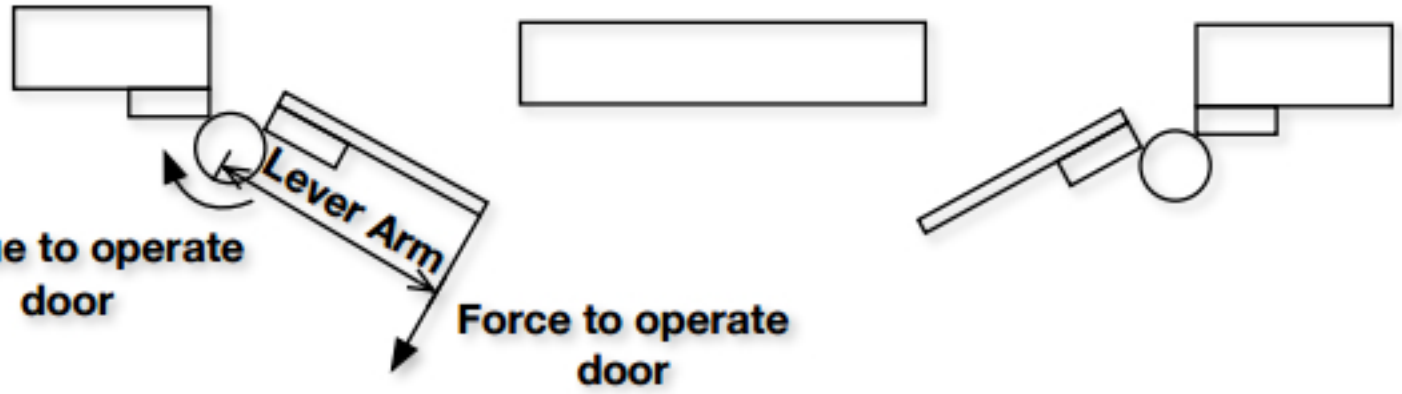
**Right Hand OPEN**

**Left Hand OPEN**

**Fig. 2**

Torque to operate door

Force to operate door



**Hinge Pin**

**Hinge Pin**

**Fig. 3**

