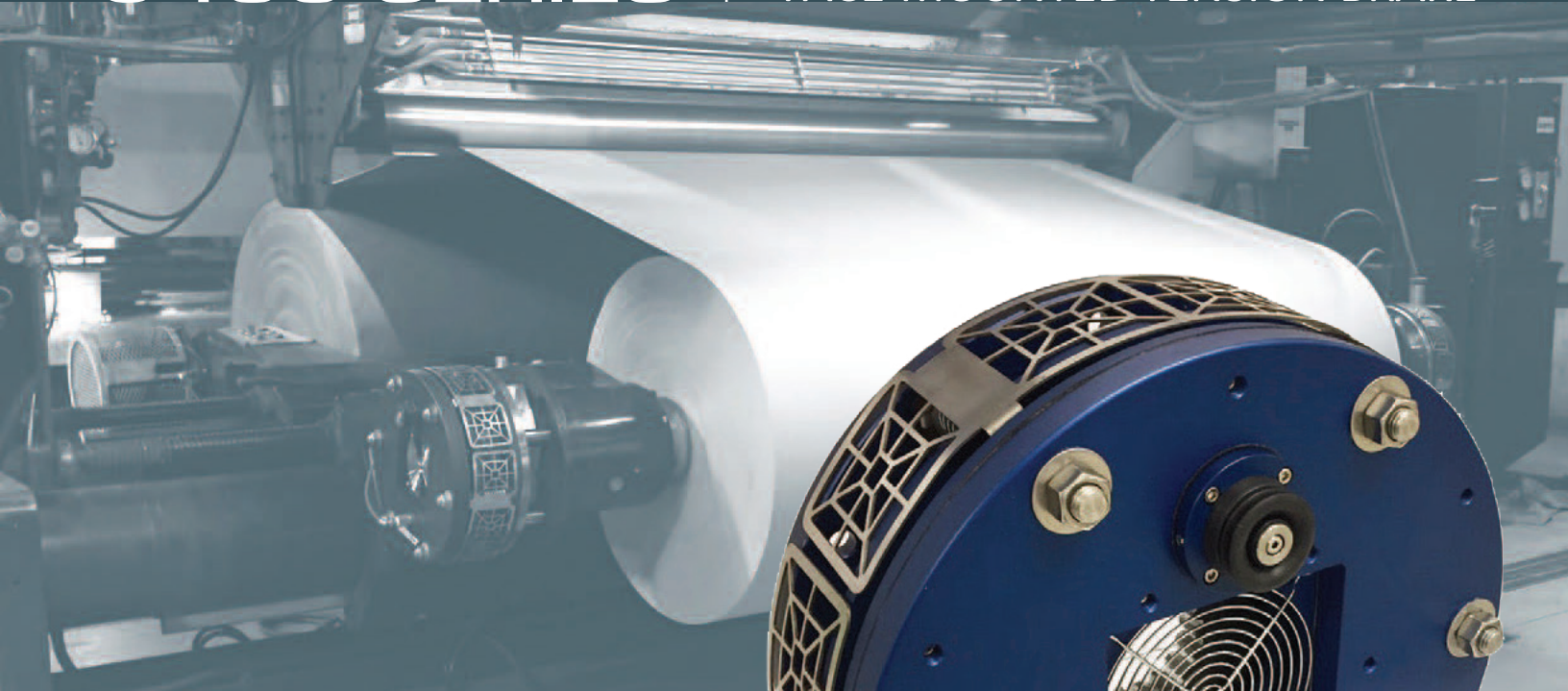


# 5400 SERIES

## FACE-MOUNTED TENSION BRAKE



### KEY FEATURES

- Large pad area provides long service intervals
- Diaphragm actuators provide accurate tension control
- Actuator sequence valve triples low end torque sensitivity
- Ventilated disc provides high cooling capacity
- Forced air cooling option available
- Various friction grades available

### SPECIFICATIONS

PART No.	DISC DIA.	TORQUE <sup>1,2</sup>	PAD LIFE	AIR VOLUME	MAX SPEED	ROTATING INERTIA	WEIGHT
		ft-lbs [Nm]	hp-hr [kw-hr]	in <sup>3</sup> [cc]	rpm	lbs-ft <sup>2</sup> [kgm <sup>2</sup> ]	lbs [kg]
5409-A	9 in	93 [126]	3,000 [2238]	17 [279]	2900	0.6 [.03]	42 [18]
5412-A	12 in	200 [271]	8,000 [5968]	22 [360]	2140	3.2 [0.1]	87 [39.5]
5418-A	18 in	780 [1058]	22,000 [16,412]	108 [1770]	1450	23.8 [1.0]	257 [116]
5425-A	25 in	1163 [1577]	34,000 [25,356]	144 [2360]	955	73.8 [3.1]	358 [162]
5430-A	30 in	5468 [7414]	78,800 [58,800]	255 [4200]	875	339 [14.3]	1512 [686]

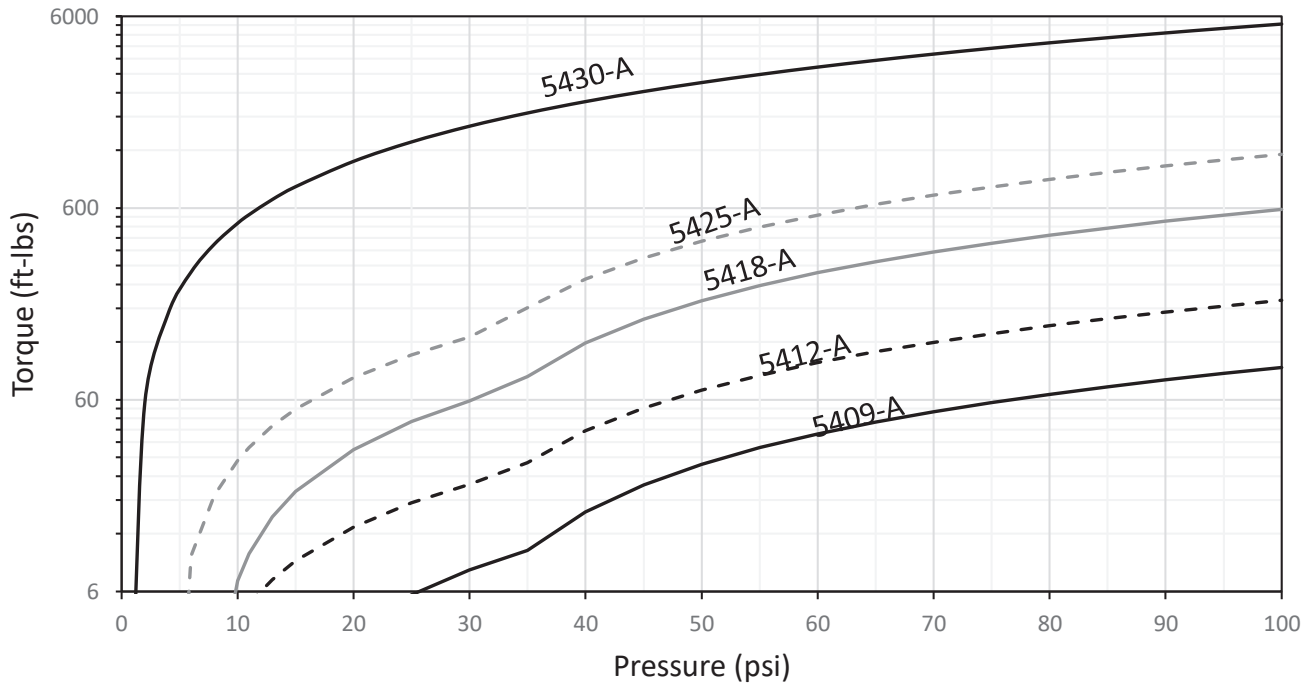
Temperature Range - 35°C to 50°C [-31°F to 122°F]

<sup>1</sup> Friction values are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a disc at 20°C, manufactured to required specifications.

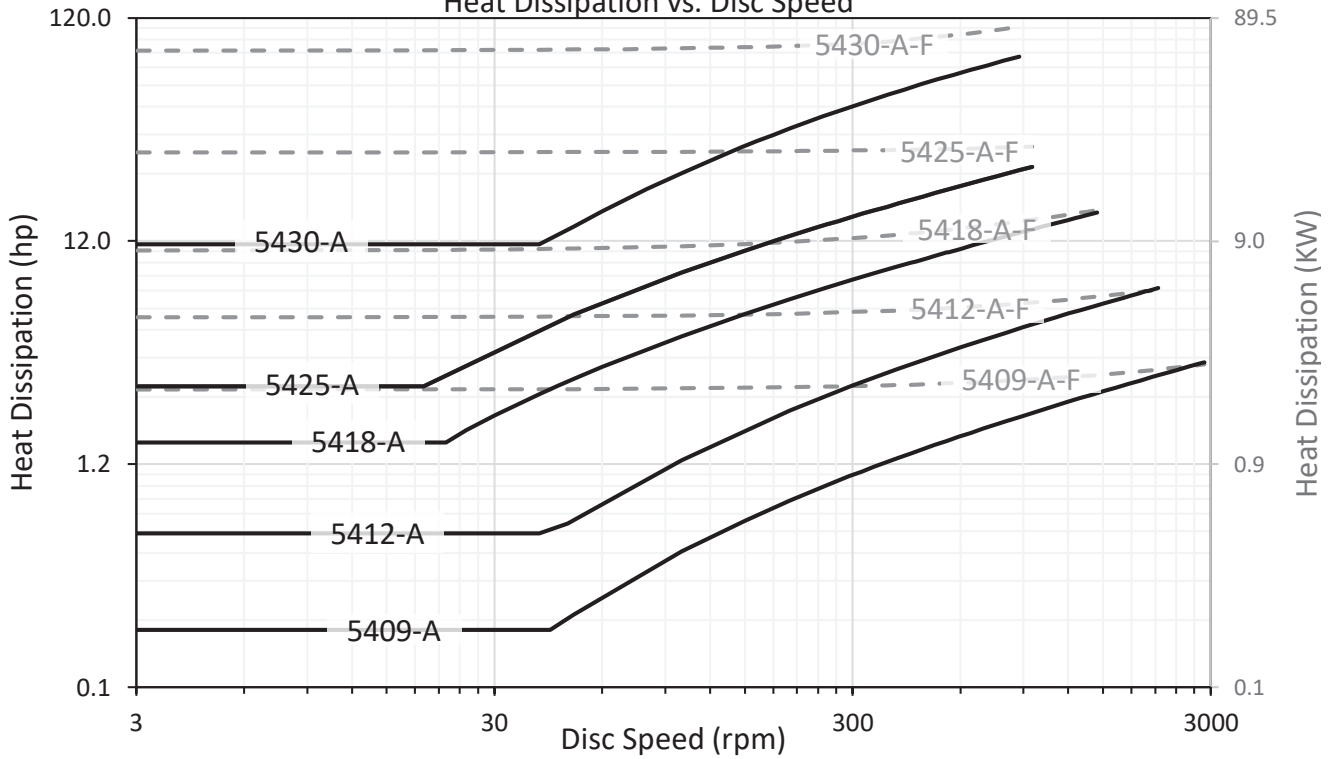
<sup>2</sup> Expressed torque values are based on the standard low COF pads. Other pad options will generate higher torque.

# PERFORMANCE

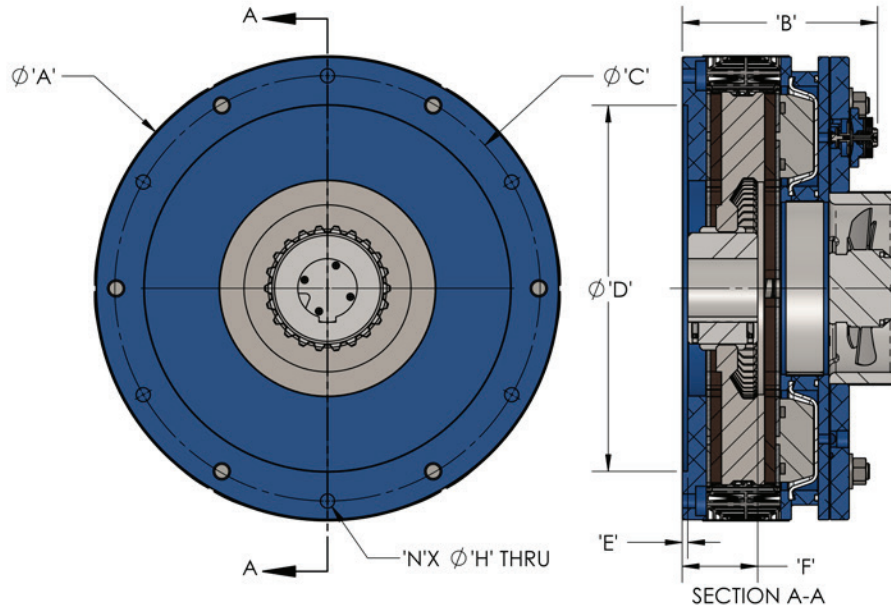
5400 Series Tension Brake  
Torque vs. Pressure



5400 Series Tension Brake  
Heat Dissipation vs. Disc Speed



# SPECIFICATIONS AND DIMENSIONS



PART No.	A	B	C	D	E	F	H	N	P
5409-A	12.5 in [318 mm]	6.1 in [156 mm]	11.18 in [284 mm]	9.50 in [241.3mm]	.20 in [5.0 mm]	2.55 in [65 mm]	.69 in [18 mm]	6	G1/4 BSPP
5412-A	15.9 in [403 mm]	6.9 in [174 mm]	13.75 in [349.3mm]	11.00 in [279.4mm]	.23 in [5.7 mm]	2.85 in [72 mm]	.53 in [14 mm]	6	G3/8 BSPP
5418-A	21.5 in [546 mm]	9.1 in [230 mm]	19.75 in [501.7mm]	17.00 in [431.8mm]	.26 in [6.5 mm]	3.51 in [89 mm]	0.66 in [17 mm]	6	G1/2 BSPP
5425-A	28.5 in [724 mm]	9.1 in [230 mm]	26.75 in [679.5mm]	24.00 in [609.6mm]	.26 in [6.5 mm]	3.51 in [89 mm]	0.66 in [17 mm]	8	G1/2 BSPP
5430-A	35.6 in [905 mm]	12.6 in [320 mm]	31.50 in [800.1mm]	27.375 in [695.3mm]	.25 in [6.4 mm]	6.00 in [152mm]	0.66 in [17 mm]	16	¼ NPT

## Model Code Key

54  -  -  -

Brake

Added Options  
 F = fan cooling  
 G = guards

Friction Code  
 (blank) = standard (0.12)  
 D = low COF (0.18)  
 E = mid COF (0.30)  
 G = high COF (0.45)

Actuator Code  
 A = air applied

Nominal Disc Size  
 09 = 9 in / 229 mm disc  
 12 = 12 in / 305 mm disc  
 18 = 18 in / 457 mm disc  
 25 = 25 in / 635 mm disc  
 30 = 30 in / 762 mm disc

54  - 0003 -

Hub

Bore Detail  
 (blank) = standard (RSB)  
 XX = custom bore & key

Nominal Disc Size

Note:  
 Hub must be ordered separately

## MAXIMUM SHAFT DIAMETER

5409	1.750 in [45 mm]
5412	2.000 in [51 mm]
5418	3.500 in [89 mm]
5425	5.000 in [127 mm]
5430	6.500 in [165 mm]