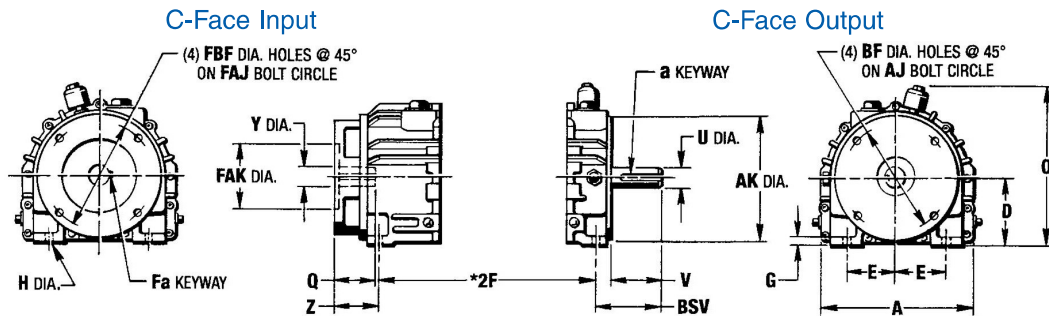


Dimensions - Posidyne Clutch/Brake (Inches)

C-Face Mounting Options

Sizes 02, 2.5 and 03

2



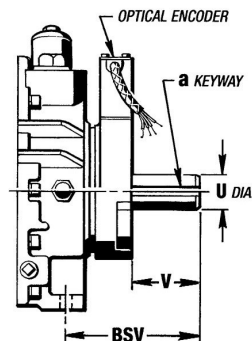
Size	Input Module	Input Dimensions							Output Module	Output Dimensions							Foot Mounting Dimensions					
		FAJ	FAK	Fa	FBF	Q	Y	Z		AJ	AK	a	BF	BSV	U	V	A	D	E	G	H	O
02	3	5.88	4.5	3/16 x 3/32	0.41	2.62	7/8	3.44	3**	5.88	4.5	3/16 x 3/32	3/8-16 x .75	2.94	7/8	2.06	9.0	4.0	3.5	.59	.44	9.25
	4	7.25	8.5	1/4 x 1/8	0.53	2.75	1-1/8	3.25	4	7.25	8.5	1/4 x 1/8	1/2-13 x 1	4.56	1-1/8	2.69						
2.5	3	5.88	4.5	3/16 x 3/32	0.41	3.50	7/8	2.56	3	5.88	4.5	3/16 x 3/32	3/8-16 x .75	4.62	7/8	2.12						
	4	7.25	8.5	1/4 x 1/8	0.53	3.50	1-1/8	2.81	4	7.25	8.5	1/4 x 1/8	1/2-13 x 1	4.13	1-1/8	2.62	9.5	4.37	3.31	.50	.44	10.0
	5	7.25	8.5	5/16 x 5/32	0.53	3.50	1-3/8	2.81	5	7.25	8.5	5/16 x 5/32	1/2-13 x 1	4.62	1-3/8	3.00						
03	4	7.25	8.5	1/4 x 1/8	0.53	3.50	1-1/8	2.91	4	7.25	8.5	1/4 x 1/8	1/2-13 x 1	4.22	1-1/8	2.62	10.2	4.5	3.31	.50	.44	10.5
	5	7.25	8.5	5/16 x 5/32	0.53	3.50	1-3/8	2.91	5	7.25	8.5	5/16 x 5/32	1/2-13 x 1	5.16	1-3/8	3.50						

* - See Basic Posidyne Dimensions on previous page.

** - Spacer may be required to keep Output Housing from interfering with mating C-Face.

Optical Encoder Dimensions

Sizes 02 to 30



Size	Output Module	U	V	BSV	a
02	C	1.125	2.17	4.57	3/16 X 3/32
2.5	C		1.79	4.62	5/16 X 5/32
03	C	1.375	2.50	5.16	
05	C	1.625	3.00	5.75	3/8 X 3/16
10	C	1.750	2.81	5.50	
11	C	2.375	3.91	6.75	5/8 X 5/16
14	C	2.375	3.34	6.75	
20	C	2.750	4.37	8.19	
30	-----	-----	-----	-----	

See Section 11 for additional information on Optical Encoders.

Dimensions - Posidyne Clutch/Brake (Inches)

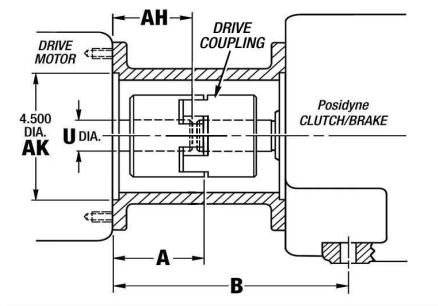
Sizes 02 to 30

2

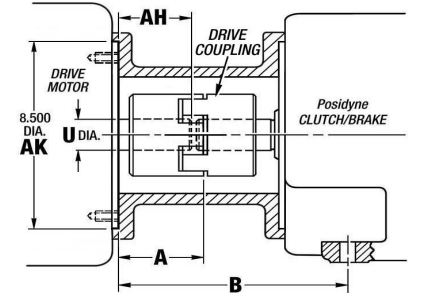
C-Face Long Coupled Input Dimensions (Inches)

Sizes 02, 2.5 and 03 Only

4.500" AK MOTOR REGISTER



8.500" AK MOTOR REGISTER



Posidyne e SIZE	MOTOR FRAME	DIMENSION (Inches)				
		AH	AK DIA.	U DIA.	A	B
02	143T, 145T	2.290	4.500	.875	2.63	6.62
	182, 184					
	182T, 184T	2.630	8.500	1.125	3.17	7.37
	213, 215	2.750			3.23	
2.5	182T, 184T	2.630	8.500	1.125	3.46	8.69
	213, 215	2.750			3.52	
	213T, 215T	3.130		1.375	3.71	
	254, 256	3.500			3.89	
	254T, 256T	3.750			4.60	
03	182T, 184T	2.630	8.500	1.125	3.50	8.78
	213, 215	2.750			3.51	
	213T, 215T	3.130		1.375	3.76	
	254, 256	3.500			4.22	9.47
	254T, 256T	3.750		1.625	4.52	

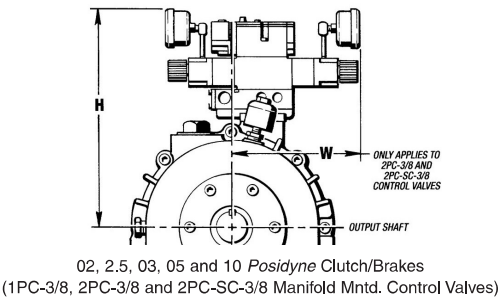
Manifold Mounted Control Valve Envelope Dimensions

Sizes 02 to 30

Size	Without Regulators		With Regulators	
	H	W	H	W
02	8.16	---	10.47	6.13
2.5	8.82	---	10.92	6.70
03	9.44	---	11.75	6.70
05	9.32	---	11.63	6.70
10	10.57	---	12.89	6.70
11	12.77	9.63	---	---
14	12.77	9.63	---	---
20	14.05	11.75	---	---
30	18.05	11.75	---	---

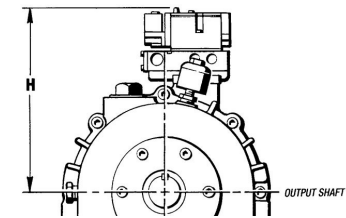
See Section 10 for additional information on Pneumatic Control Valves.

(With Regulators and Gauges)



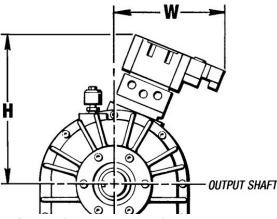
02, 2.5, 03, 05 and 10 Posidyne Clutch/Brakes
(1PC-3/8, 2PC-3/8 and 2PC-SC-3/8 Manifold Mntd. Control Valves)

(Without Regulators and Gauges)



02, 2.5, 03, 05 and 10 Posidyne Clutch/Brakes
(2 Pr. Inlet-3/8 Manifold Mounted Control Valve)

(Without Regulators and Gauges)



11 and 14 Posidyne Clutch/Brake (2PI-5/8 Manifold Mntd. Control Valve)
20 and 30 Posidyne Clutch/Brake (2PI-3/4 Manifold Mntd. Control Valve)

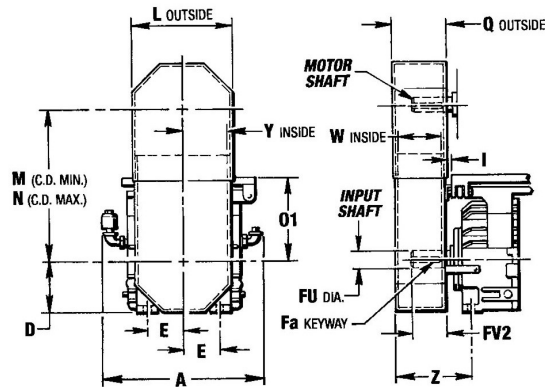
Dimensions - Posidyne Clutch/Brake (Inches)

Piggyback Mounting Options

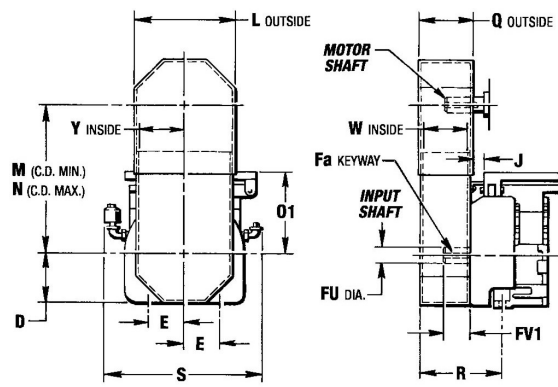
Sizes 02 to 10

2

Basic Cooled



Fan Cooled



Size	Drive Dimensions								Piggyback Dimensions											Max Pulley Size	
	A	D	E	Fa	FU	FV1	FV2	S	I	J	L	M	N	O1	Q	R	W	Y	Z	Dia.	Width
02	---	4.0	3.5	1/4 x 1/8	1-1/8	1.0	1.0	---	---	---	7.31	12.31	13.31	7.12	3.16	5.38	2.50	3.12	5.38	6.00	2.00
2.5	---	4.37	3.31	5/16 x 5/32	1-3/8	2.13	2.13	---	1.25	1.25	7.62	11.5	15.19	8.44	4.31	4.75	4.19	3.69	4.75	5.39	3.00
03	11.5	4.5	3.31	5/16 x 5/32	1-3/8	2.38	3.5	11.5	.38	1.5	9.12	12.5	16.50	7.94*	4.68	6.62	4.38	4.44	5.5	6.84	3.25
05	11.5	6.5	3.5	3/8 x 3/16	1-5/8	2.94	4.0	11.5	1.5	2.56	9.12	12.5	16.50	7.94*	4.68	8.38	4.38	4.44	7.31	6.84	3.25
10	---	6.5	3.5	3/8 x 3/16	1-3/4	2.62	3.75	---	1.56	2.94	12.12	16.12	19.12	9.62	5.18	8.88	4.88	5.94	7.5	9.00	3.75

* This dimension changes to 8.44 with 254 thru 286 Frame Motors.

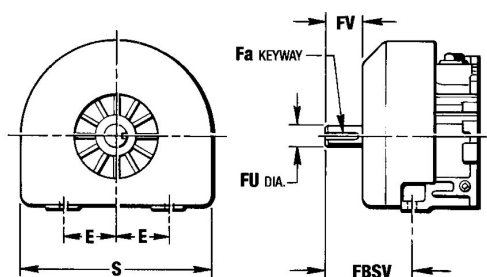
Manifold Mounted Valve not available with Piggyback Mounting.

Dimensions are subject to change without notice. Certified Installation Drawings are available upon request.

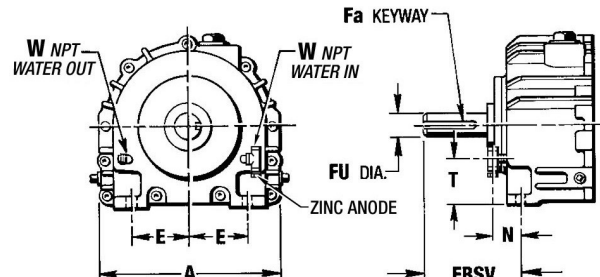
Cooling Options

Sizes 02 to 30

Fan Cooled Input



Water Cooled Input



Size	Dimensions								
	A	E	Fa	FBSV	FU	FV	N	S	T
02	9.00	3.50	1/4 x 1/8	4.12	1.125	1.38	---	9.0	---
2.5	9.50	3.31	5/16 x 5/32	4.88	1.375	2.25	2.0	10.50	.38
03	10.25	3.31	5/16 x 5/32	5.31	1.375	2.31	2.0	11.5	.38
05	10.25	3.50	3/8 x 3/16	6.75	1.625	2.72	1.5	11.5	.38
10	12.50	3.50	3/8 x 3/16	6.62	1.750	2.88	2.0	14.0	.38
11	12.63	4.75	5/8 x 5/16	9.43	2.375	5.50	---	14.0	---
14	12.63	4.75	5/8 x 5/16	9.43	2.375	5.50	---	14.0	---
20	17.50	5.75	5/8 x 5/16	8.50	2.750	3.75	4.0	19.0	.50

OVERHUNG LOAD CAPACITY (Lbs. Pull)

Size	Input Shaft			Output Shaft					
	900 RPM	1200 RPM*	1800 RPM	900 RPM		1200 RPM		1800 RPM	
				Without Encoder	With Encoder	Without Encoder	With Encoder	Without Encoder	With Encoder
02	700	600	500	765	550	680	490	595	430
2.5	900	800	700	1020	805	935	740	850	670
03	1400	1350	1150	1785	1410	1700	1340	1490	1180
05	1400	1350	1150	1785	1410	1700	1340	1490	1180
10	1800	1700	1500	2550	2140	2380	2000	1960	1650
11	2200	2000	-----	3910	3280	3570	3000	-----	-----
14	2200	2000	-----	3910	3280	3570	3000	-----	-----
20	4100	3000	1800	4500	3780	4080	3430	3530	2970
30	9400	8500	-----	11900	-----	10900	-----	-----	-----

Overhung Loads are based on:Bearing life L₁₀ 25,000 hrs. @ 20% duty.

At midpoint of shaft extension.

Standard male shaft diameters. (Not applicable to C-Face.)

CAUTION - Excessive overhung load will shorten bearing life and may exceed the capacity of the shaft to the point of failure.

Posidyne Available Options**(3) INPUT MODULE**

	02	2.5	03	05	10	11	14	20	30
1	X	X	X	X	X	X	X	X	X
3	X	X	---	---	---	---	---	---	---
4	X	X	X	---	---	---	---	---	---
5	---	X	X	---	---	---	---	---	---
7	X	X	X	X	X	---	---	---	---
9	X	X	X	---	---	---	---	---	---
A	X	X	X	---	---	---	---	---	---
B	---	X	X	---	---	---	---	---	---

(5) OUTPUT MODULE

	02	2.5	03	05	10	11	14	20	30
1	X	X	X	X	X	X	X	X	X
3	X	X	---	---	---	---	---	---	---
4	X	X	X	---	---	---	---	---	---
5	---	X	X	---	---	---	---	---	---
7	X	X	X	X	X	---	---	---	---
C	X	X	X	X	X	X	X	X	X
E	X	---	---	---	---	---	---	---	---

Posidyne Piggyback**Motor Option Availabilities**

To limit the torque delivered to a drive and the physical size of the motor mounted on our piggyback drives, please use the following chart.

U-Fr	T-Fr	02	2.5	03	05	10
56	143T	X	---	---	---	---
56	145T	X	---	---	---	---
182	182T	X	X	X	---	---
184	184T	X	X	X	---	---
213	213T	---	X	X	X	---
215	215T	---	X	X	X	---
254U	254T	---	---	X	X	---
256U	256T	---	---	X	X	---
284U	284T	---	---	---	X	X
286U	324T	---	---	---	X	X
324U	326T	---	---	---	---	X
326U	326T	---	---	---	---	X
364U	364T	---	---	---	---	X
365U	365T	---	---	---	---	X

(4) CONTROL LOGIC

	02	2.5	03	05	10	11	14	20	30
S	X	X	X	X	X	X	X	X	X
A	X	X	X	X	X	X	X	X	X
B	X	X	X	X	X	X	X	X	---
C	X	X	X	X	X	X	X	X	X
D	X	X	X	X	X	X	X	X	X
E	---	X	X	X	X	X	X	X	X
F	---	X	X	X	---	---	---	---	---
G	---	X	X	X	---	---	---	---	---
P	X	X	X	X	X	X	X	X	X
J	---	X	X	X	---	---	---	---	---

(6) MOUNTING POSITION

All options available in all sizes.

(7) COOLING*

	02	2.5	03	05	10	11	14	20	30
1	X	X	X	X	X	---	---	X	X
2	---	X	X	X	X	---	---	X	---
5	X	X	X	X	X	X	X	X	X
7	---	X	X	X	X	X	X	X	X

* Fan cooling not available with C-Face input.

How to order your Posidyne Size 02-30 Clutch/Brake

Ordering System Chart

2

1	2	3	4	5	6	7	8	9
							ENCODER	CONTROL VALVE
							See Section 11 for Ordering Number. Use <i>N</i> if no Encoder is to be ordered.	See Section 10 for Ordering Number. Use <i>N</i> if no Valve is to be ordered.
							Cooling (7)	
							1 = Basic (Radiant)	
							2 = Water Cooled	
							5 = Fan Cooled***	
							7 = Fan Cooled,*** Split Shroud	
							9 = Force Lube	
							Mounting Position (6)	
							H = Horizontal	
							D = Vertical, Input Down	
							U = Vertical, Input Up	
							L = Wall on Left (Viewing Input)	
							R = Wall on Right (Viewing Input)	
							Z = Horizontal, Marine Duty	
							W = Vertical, Input Down, Marine Duty	
							P = Vertical, Input Up, Marine Duty	
							Example:	
							To order a Size 2.5 Posidyne, 184TC C-Face Input, Type A Control Logic, Output Housing to accept an encoder, Horizontal Mounting, Basic Radiant Cooled, Manifold Mounted Control Valve and Optical Encoder located at the top. Use the following Order Number:	
							2 5-4 A C-H-1 / _____ / _____	
							NOTES:	
							* When Piggyback Mounting is required both input and output modules must be specified Piggyback. The Motor Frame Size must also be specified to predrill and tap the motor mounting base.	
							** Output Housing is machined to accept an Encoder. See Section 11 for ordering the actual Encoder.	
							*** Not available on C-Face Input.	

Size (1,2)

0	2	= 02	1	0	= 10
2	5	= 2.5	1	1	= 11
0	3	= 03	1	4	= 14
0	5	= 05	2	0	= 20
			3	0	= 30

Input Module (3)

1	= Basic	U-Fr.	T-Fr.	
3	= 4-1/2 FAK, 7/8 FU	182 184	143TC 145TC	
4	= 8-1/2 FAK, 1-1/8 FU	213UC 215UC	182TC 184TC	C-Face Quill
5	= 8-1/2 FAK, 1-3/8 FU	254UC 256UC	213TC 215TC	
7	= Piggyback & Ceiling Mount*			
9	= 4-1/2 FAK, 7/8 FU	182 184	143TC 145TC	
A	= 8-1/2 FAK, 1-1/8 FU	213UC 215UC	182TC 184TC	C-Face Coupled
B	= 8-1/2 FAK, 1-3/8 FU	254UC 256UC	213TC 215TC	
C	= 8-1/2 FAK, 1-5/8 FU		254TC 256TC	

Control Logic (4)

- S** = S - Air set clutch / light spring set brake with air assist
- A** = A - Air set clutch / medium spring set brake
- B** = B - Air set clutch / heavy spring set brake
- C** = C - Air set clutch / no brake
- D** = SA - Air set clutch / medium spring set brake with air assist
- E** = SCP - Self centered piston / air set clutch / air set brake
- F** = SA/ACP - Air centered piston/air set clutch / Medium spring set brake with air assist
- G** = B/ACP - Air centered piston / Air set clutch / Heavy spring set brake
- P** = P - Air set clutch / Air set brake (without springs)
- J** = A/ACP - Air centered piston / Air set clutch / Medium spring set brake

Output Module (5)

1	= Basic	U-Fr.	T-Fr.	
3	= 4-1/2 AK, 7/8 U	182 184	143TC 145TC	
4	= 8-1/2 AK, 1-1/8 U	213UC 215UC	182TC 184TC	C-Face
5	= 8-1/2 AK, 1-3/8 U	254UC 256UC	213TC 215TC	
7	= Piggyback and Ceiling Mount*			
C	= Optical Encoder (02 to 20 Sizes)**			(Not Available on C-Face Output)
D	= Optical Encoder, 4-1/2 AK, 5/8 U (02 Only)**			
E	= Optical Encoder, 4-1/2 AK, 7/8 U (02 Only)**			