Force Control Industries, Inc. 3660 Dixie Highway Fairfield, Ohio 45014 USA

Phone: 513-868-0900 Fax: 513-868-2105

Posidyne X Class Specifications

		Clutch	Torque (Lb	o.ln.)	Brake ⁻	Forque Lb.	ln.)		Max. KE	Avg.	Therma	I HP	Cyclic	Air Per	Oil Capacity (oz)			Overhung	
Size	Logic	Static (Lb.ln.)	Dyn. (Lb.ln.)	Air Pr. (PSI)	Static (Lb.ln.)	Dyn. (Lb.ln.)	Air Pr. (PSI)	Max RPM	per Engmt. (Ft. Lbs)	Hriz.	VIU	VID		Engmt. (cu. ln)	Horiz.	VIU	VID	Load Cap. (Lbs. Pull)	/Ft I be \
	S	99	85	70	106	90	45												
	SA	90	77	80	104	88	30						0.005						
X1	Р	110	95	60	110	95	60	1800	3765	0.4	0.4	0.4	0.005	1.52	37	54	50	167	42
	Α	90	77	80	49	42													
	С	99	85	70									0.0033						
	S	198	170	70	213	181	45												
	SA	179	154	80	208	177	40						0.006						
Х2	Р	220	189	60	220	189	60	1800	7530	0.5	0.4	0.44	0.006	1.52	37	54	50	167	42
	Α	179	154	80	98	84													
	С	198	170	70									0.0048						
	S	468	402	80	531	451	60												
	SA	359	304	80	480	408	40						0.011						
Х3	Р	512	440	70	512	440	70	1800	15600	0.41	0.4	0.34	0.011	1.61	53	59	59	464	57
	Α	359	309	80	189	163													
	С	468	402	80									0.0087						
	Р	1039	894	60	1039	894	60						0.049						
X4	Α	777	668	80	444	382		1800	21150	0.66	N/A	N/A	0.049	0.221	76	N/A	N/A	597	103
	С	1000	860	70									0.0462						

THP ratings at 100° F maximum temperature rise, and 226° F maximum oil temperature. Overhung load request based on load at midpoint of the shaft.

Posidyne X Class Size Selection Chart

Selecting a Posidyne X Class Clutch Brake is as simple as using HP and RPM in the selection chart. Find the correct RPM and over to the HP dropping down to see the size recommended.

				180	00 R	PM						12	00 RPI	М		
HP	1/2	3/4	1	1 1/2	2	3	5	1 1/2	10	1/2	3/4	1	1 1/2	2	3	5
X1	X1	X1	X1							X1	X1					
X2			X2	X2	X2						X2	X2	X2			
Х3						Х3	Х3						X3	Х3		
X4								X4	X4						X4	X4

THP ratings at 100° F maximum temperature rise, and 226° F maximum oil temperature. Overhung load request based on load at midpoint of the shaft.

NOTE:

Detailed selection procedures should be used for applications requiring higher cycle rates (+40 CPM) or other extra-ordinary application requirements.

Contact Force Control for assistance.

Posidyne X Class Mounting Options





Vertical Input Up

Not available X4

Vertical Input Down



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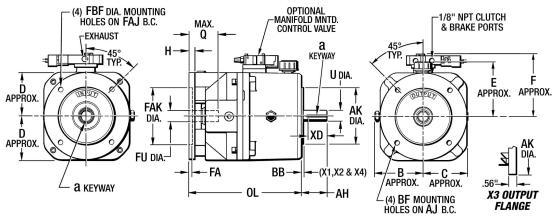
Posidyne X Class Dimensions

INPUT MODULE #2 & #3 (C Face)

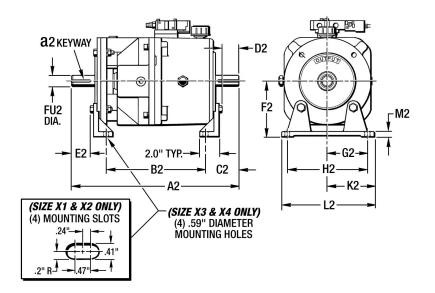
5/8" or 7/8" Dia. FU, 4.50" AK, Split Clamped Quill (56/143TC or 145TC frame)

INPUT MODULE #4 (C Face)

1 1/8" Dia. FU, 8.50" AK, Split Clamped Quill (182TC/184TC frame)



Unit	Input Dimensions (inches)							Output Dimensions (inches)								Overall Dimensions (inches)						
Size	FAK	FA	FU	Н	Ø	FBF	FAJ	Keyway a	AK	ВВ	C	АН	XD	BF	AJ	В	ပ	D	Е	F	OL	
X1	4.5	0.20	0.625	0.5	2 20	0.41	E 07E	3/16 X 3/32	4 500	0.160	0.625	2.060	1.500	2/0 V 2/4	E 07E	3.87	2 44	3.44	4.20	4.04		
X2	4.5	0.28	0.875	0.5	2.30	0.41	5.675	3/10 / 3/32	4.500	0.160	0.875	2.120	1.750	3/8 X 3/4	5.0/5	3.87	3.44	3.44	4.29	4.94	9.00	
Х3	8.5	0.19	1.125	8.0	2.75	0.53	7.25	1/4 X 1/8	8.500	-	1.125	2.630	2.120	1/2 X 1	7.250	4.44	4.44	4.50	5.09	4.94	11.00	
X4	0.5	0.19	1.375	0.63	3.13	3.13 0.53		5/16 X 5/32	0.500	0.250	1.375	3.130	2.500	1/2 / 1	1.230	5.00	4.50	4.50	5.67	6.00	11.75	



Manifold Mounted Valve

Reduced Reaction Time—By mounting the valve directly on the unit, the reaction time is reduced by as much as 15 ms (more if long hoses are used). The maximum cycle rate is also increased considerably (up to 300 CPM).

Improved Consistency—This reduction in response time also leads to a more consistent and accurate stopping position.

Reduced Cost—Using the manifold mounted valves eliminates the need to mount and connect the valve, and can add to air leaks.

Unit		Dimensions (inches)														
Size	A2	A2 B2		C2 D2		F2	G2	H2	K2	L2	L2	FU2	a2			
X1	13.69	7.40	3.16	4 50	1.83	4.50	3.19	6.38	3.75	7.50	0.15	0.265	3/16 X 3/32			
X2	13.75	7.16	3.21	1.50								0.875				
Х3	17.00	9.50	3.63 1.88		2.2	- 25	4.00	0.00	4 75	0.50	0.50	1.125	1/4 X 1/8			
X4	18.62	10.50	4.13	2.36	2.62	5.25	4.00	8.00	4.75	9.50	0.50	1.375	5/16 X 5/32			



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Posidyne X Class Accessories & Kits

To make the X Class Clutch/Brakes adaptable to many applications, several accessories are available.

Mounting Foot Kit

A foot kit is available for those applications where the Posidyne X Class clutch/brake may not be mounted on a C-Face motor or reducer. The foot kit includes two feet that bolt onto the clutch/brake. They are made of heavy gauge steel X1 and X2, or cast iron X3 and X4, and hard oat epoxy coated.

Note: The Posidyne X Class Clutch/Brake cannot be C-Faced mounted to the motor or reducer with feet installed.

Male Input Shaft Assembly

For applications where a belt drive may be required on the input, an input shaft assembly is available to convert the quill input to an extended shaft. It consists of a mounting plate with a bearing and stainless steel shaft that bolts to the C-Face mounting flange. The shaft is then locked into the Split Clamped Quill.

Manifold Mounted Valve

Add the convenience and performance of a Manifold Mounted Valve. Mounting the valve directly on the unit eliminates extra plumbing, im

Foot Mounting Kit	
X1 & X2 Foot Kit (Pair of feet)	02-X1-FT-KIT
X1 & X2 Foot Kit Washdown (Steel It Epoxy)	02-X1-FT-KITW
X3 & X4 Foot Kit (Pair of feet)	02-X4-FT-KIT
X3 & X4 Foot Kit Washdown (Steel It Epoxy)	02-X4-FT-KITW
Extended Input Shaft Assembly	
Input Shaft Ass'y. X1, 5/8" Shaft	02-X1-1A-KIT
Input Shaft Ass'y. X1, 5/8" Shaft Washdown	02-X1-1A-KITW
Input Shaft Ass'y. X2, 7/8" Shaft	02-X2-1A-KIT
Input Shaft Ass'y. X2, 7/8" Shaft, Washdown	02-X2-1A-KITW
Input Shaft Ass'y. X3, 1-1/8" Shaft	02-X3-1A-KIT
Input Shaft Ass'y. X3, 1-1/8" Shaft, Washdown	02-X3-1A-KITW
Input Shaft Ass'y. X4, 1-3/8" Shaft	02-X4-1A-KIT
Input Shaft Ass'y. X4, 1-3/8" Shaft, Washdown	02-X4-1A-KITW

Pneumatic Control Valves									
Control Valve, 434A Series, Manifold	09-056-A3NN-00								
Control Valve, 434A Series, Manifold Mounted, 24VDC, 1.0Cv	09-056-A1NN-00								
Control Valve, 35A Series, A Logic,	01-56-147-08								
Control Valve, 35A Series, A Logic, 7.3 Watt, 24VDC, .21Cv, Shipped	01-56-148-08								

NOTE:

All valves are washdown duty. Optional Hazardous Duty is available.



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