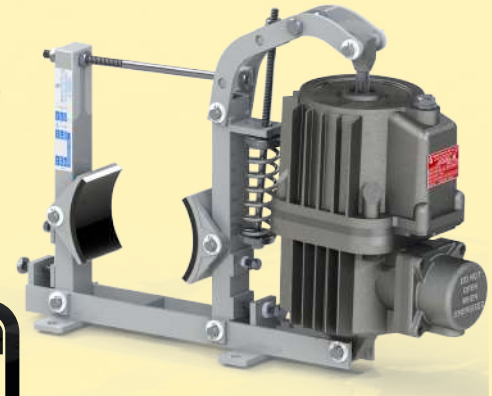




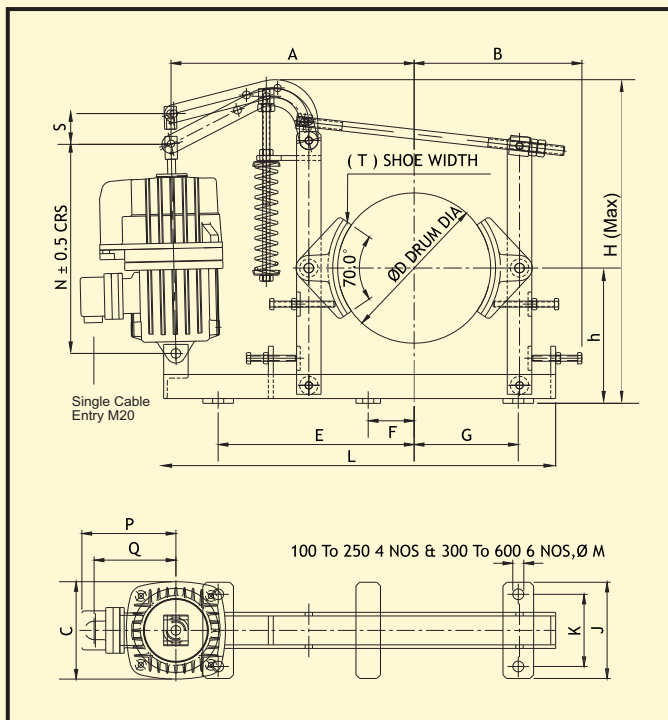
Introduction

Flame-proof Thrusters are specially designed for operation in hazardous atmospheres (Zonal areas) Gas Groups IIA & IIB, and is modified to meet the requirements as specified on IS/IEC 60079-0-2017 & IS/IEC60079-1-2014.

The brakes are suitable for use with flameproof thruster for various size from 100-300mm dia drum. Fitted with thruster of 23/5 or 30/5. The brakes are in the torque range of 6 kgm to 62 kgm.



G.A. Drawing of Brakes



Technical Data of Thruster

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Thruster, IIA & IIB
Zone	IIA & IIB
Model	FLP-23/5 IIA & IIB / FLP-30/5 IIA & IIB
Voltage	415 VAC
Phase/Frequency	3Φ, 50 c/s
Ambient Temperature	T4
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55
Cable Entry	M 20 Single
IS -	IS/IEC 600079-0-2017 IS/IEC 600079-1-2014
BIS License No.	CM/L-72000208195 20-07-2021
Certificate No.	KLPL/EX/13-001x Date:12-01-2021 Karandikar Laboratories (FLD-23/5) CIMFR/TR21/R/420 Dt :06-05-2021 CENTRAL INSTITUTE OF MINING FUEL RESEARCH (FLD-30/5)
PESO Certificate No.	P 406232/1 Date: 17.07.2017 FLD-23/5 P 455000 Date: 26.09.2019 FLD-30/5

Dimensions

Brake Model (IIC)	A	B	E	F	G	h	H	J	K	L	M	Shoe Width (T)	Mass *kg
FDT-100/23	260	165	160	-	100	125	440	130	100	405	13	70	15
FDT-150/23	295	195	160	-	125	440	130	100	465	13	70	17	17
FDT-160/23	295	195	160	-	100	125	440	130	100	465	13	70	17
FDT-200/23	355	215	360	-	90	200	500	180	125	580	15	88	27
FDT-250/23	390	240	320	-	170	225	550	160	120	640	18	100	30
FDT-300/23	435	285	480	150	250	275	540	205	145	750	20	140	50
FDT-200/30	355	215	360	-	170	200	500	180	125	580	15	88	42
FDT-250/30	390	240	320	-	170	225	550	160	120	640	18	100	45
FDT-300/30	435	285	480	150	250	275	540	205	145	750	20	140	65

Technical Data

Brake Model (IIC)	Thruster Type (IIC)	Brake Torque μ=0.4 (Nm)/(kg-m)	Thruster Detail							Mass *kg
			Force kg	Force (N)	Stroke (S)	C	N	P	Q	
FDT-100/23	FDT-23/5	60/6	23	230	50	160	349	155	135	15
FDT-150/23	FDT-23/5	90/9	23	230	50	160	349	155	135	17
FDT-160/23	FDT-23/5	90/9	23	230	50	160	349	155	135	17
FDT-200/23	FDT-23/5	200/20	23	230	50	160	349	155	135	27
FDT-250/23	FDT-23/5	350/35	23	230	50	160	349	155	135	30
FDT-300/23	FDT-23/5	420/42	23	230	50	160	349	155	135	50
FDT-200/30	FDT-30/5	320/32	30	230	50	160	444	155	135	42
FDT-250/30	FDT-30/5	420/42	30	230	50	160	444	155	135	45
FDT-300/30	FDT-30/5	620/62	30	230	50	160	444	155	135	65

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