

# Demagnetizing Coils

*...Only from Eriez.*

## Model D Electromagnetic

*Custom engineered electromagnetic units for demagnetizing natural magnetite and ferro-magnetic materials in slurry flowing through vertical pipelines or dry gravity flow.*

These Electromagnetic Demagnetizing Coils have been specifically designed to give many years of maintenance-free service for demagnetizing natural magnetite flowing through pipelines following recovery by a magnetic separator.

Choose from a total of 17 units ranging in internal diameters from two to 18-inch. Standard coils are designed to operate from a 460 volt, 60 cycle, single phase AC power source. Units can be furnished for other voltages and line frequencies if required.

The circular coil has a uniformly increasing and decreasing field with respect to slurry flow and is the standard type recommended for most applications.

Standard construction of the Type DRW Demagnetizing Coils is waterproof.

### FEATURES

- Choose from 17 sizes
- No moving parts to wear
- Compact, lightweight units
- No maintenance required other than normal periodic inspection
- Outside of coil coated with epoxy resin for protection from damaging moisture



# MODEL D DEMAGNETIZING COIL

## INSTALLATION

The Demagnetizing coil should be mounted so that the pipe carrying the slurry to be demagnetized passes through the coil tube. The slurry pipe must be of a nonmetallic material; i.e., rubber, plastic, etc.

The coils can be installed with either end serving as the inlet. Due to the variety of possible mounting arrangements, appropriate installation hardware is to be furnished by the user.

Electrical connections are made to the coil through the junction box mounted on one end. The junction box has standard size conduit hubs or knockouts in order that conventional conduit or cable wiring can be used from the coil to the AC line.

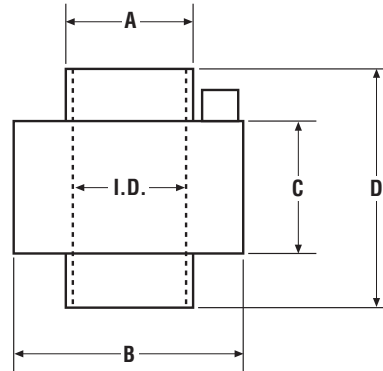
## CONTROLS

Because the Type DRW Demagnetizing Coils operate on AC current and are predominately inductive, power factor correction may be desired. This is recommended for all coils drawing over 20 amperes (8 DRW and larger).

Capacitive power factor correction units are available which have been designed specifically for the Demagnetizing Coils. The controls have protective fusing and are separately enclosed in housings designed for surface mounting.

Standard housings meet NEMA 1 specifications. To meet waterproof specifications, NEMA 4 housings are available.

## SPECIFICATIONS – Standard 600 oersted units



Model Number	I.D.		A		B		C		D		Weight		Watts	Amps
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg		
2DRW	2	51	2½	64	7½	187	4¾	111	8	203	23	11	76.7	1.47
3DRW	3	76	3½	89	9¾	241	6½	165	8	203	49	22	96.9	2.83
4DRW	4	102	4½	114	11¼	279	6¾	171	12	305	71	32	135	5.5
5DRW	5	127	5½	140	12¼	305	6¾	171	12	305	80	36	158	7.07
6DRW	6	152	6½	165	13¾	343	8¼	210	15	381	132	60	246	13.7
7DRW	7	178	7½	191	14¾	368	9¼	235	15	381	157	71	221	15.5
8DRW	8	203	8½	216	16¾	419	9¼	235	15	381	169	77	289	20.9
9DRW	9	229	9½	241	18¼	457	9¾	248	15	381	241	109	324	29.4
10DRW	10	254	10½	267	19¼	483	9¾	248	15	381	267	121	388	38.5
11DRW	11	279	11½	292	20¼	508	11¾	298	16	406	322	146	453	47.7
12DRW	12	305	12½	318	21¼	533	11¾	298	16	406	394	179	410	51.5
13DRW	13	330	13½	343	21¾	546	15¾	400	22	559	486	220	498	64.5
14DRW	14	356	14½	368	23¼	584	15¾	400	22	559	529	240	651	89.2
15DRW	15	381	15½	394	23¾	597	18¾	476	24	610	656	298	611	92.5
16DRW	16	406	16½	419	24¾	622	18¾	476	24	610	680	308	702	97.4
17DRW	17	432	17½	445	26	654	21¾	552	26¾	679	814	369	794	123.6
18DRW	18	457	18½	470	27¼	686	21¾	552	26¾	679	840	381	974	164.1

*Dimensions and specifications are subject to change without notice.*

