NDT Supply.com, Inc.

7952 Nieman Road Lenexa, KS 66214-1560 USA



Western Instruments Pipeline Pre-Weld Demagetization



https://youtu.be/AmINgwbJCHM

Western's WDV-PD Series Coils are developed for pre-weld demagnetization. If pipes are magnetized, welders will experience Arc Blow, which will lead to weld defects.

| Coil Model | Minimum OD Size | Maximum OD Size |
|------------|-----------------|-----------------|
| WDV-8-PD | 1.9" (48mm) | 7 1/2" (190mm) |
| WDV-10-PD | 2 3/8" (60mm) | 9 5/8" (244mm) |
| WDV-14-PD | 4 1/2" (114mm) | 12 3/4" (324mm) |
| WDV-16-PD | 9 5/8" (244mm) | 14" (356mm) |
| WDV-18-PD | 10 3/4" (273mm) | 16" (406mm) |
| WDV-25-PD | 16" (406mm) | 24" (610mm) |
| WDV-32-PD | 24" (610mm) | 30" (762mm) |
| WDV-38-PD | 30" (762mm) | 36" (914mm) |
| WDV-44-PD | 36" (914mm) | 42" (1067mm) |
| WDV-50-PD | 42" (1067mm) | 48" (1219mm) |
| WDV-60-PD | 48" (1219mm) | 56" (1422mm) |

The cycle time to Demag, after the Coil is placed on the end of a Pipe, is less than 30 seconds. The Reversing and Reducing DC Demag lasts for over a week, requiring a Demag Crew work ahead of the Welders, not slowing production.

Coil Models from the WDV-14-PD and below weigh less than 60 Pounds (27kg) and are intended to be handled manually by the operator. The WDV-16-PD weighs just over 100 Pounds (45kg) and is intended to be positioned with a utility crane. The WDV-60-PD weighs just over 1000 Pounds (455kg),

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requiring the use of a dual wheel truck with a bumper mount crane. The same truck will require a generator appropriately sized for the Coil. A WDV-8-PD requires 1500 watts, while the WDV-60-PD requires 15 Kilowatts, making a 1 ton truck acceptable. Most modern engine driven Welders as used on a Pipeline Right of Way, have sufficient AC Power for even the largest WDV-PD Coils.

To ensure Demagnetization has been achieved, operators need to use a gauss to check the pipes weld bevel. Generally an acceptable level of magnetization for welding (manual or automatic) is a field of +/- 3 Gauss.