



THORNE &
DERRICK
INTERNATIONAL

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DXN WITH SELF-EJECTION MODE

- ▶ DECONTACTOR™ with self-ejection mode.
- ▶ Used in any explosive gas atmospheres (IIC certified) and explosive dust atmospheres (IIIC certified).
- ▶ Automatic IP66/IP67 water- and dust-tight sealing.
- ▶ High-performance GRP casing.
- ▶ Integrated load-break switch.



Innovation for hazardous areas

To provide safe electrical installations for use in hazardous areas, MARECHAL ELECTRIC has developed the explosion-proof DXN DECONTACTOR™ range of compact and watertight connectors. Rated for operation up to 63A, DXN decontactors combine a new mechanical self-ejecting mechanism with MARECHAL's unique patented DECONTACTOR™ integrated load-break switch. The new DXN decontactors are available in 3 different versions: standard plugs and connectors, self-ejecting plugs and self-ejecting coupler sockets.

■ APPLICATIONS

This unique solution is currently used on lifeboats operating from off-shore oil rigs. It can also be used for applications such as mobile containers, cranes, electrical boats, truck hook-ups or any portable equipment.



Protection from overloads

Two self-ejecting systems have been designed to protect equipment from accidental or forcible disconnection and protect equipment from being moved whilst connected.

• Self-ejecting plugs

Mounted on top of the self-ejecting explosion-proof connector, a "shark's fin" latch is used to lift the 'hook' from the base and disconnect the plug from the socket. The force required to operate this system is comparable to the force required to manually disconnect a plug from the socket of a standard DXN connection. This operation immediately releases the plug every time tension is detected on the cable.

• Self-ejecting coupler sockets

The "shark's fin" hook, mounted on the base of the plug, is connected by a tension cord to the power cable. Pulling on this cord activates the shark's fin hook to release the plug.

Permanent safety

This new ejection system for zones 1/2 (gas), and zones 21/22 (dust), is certified according to the ATEX 94/9/CE directive and IEC Ex standards, and complies with all current safety and security regulations for the protection of equipment and personnel. Connecting the DXN self-ejecting socket-outlet by direct insertion ensures users are provided with the same features as standard DXN ranges.

Whether connected or disconnected, both types of self-ejecting DXN decontactors can be operated by any authorized person, under any circumstances and often without the need for a Hot Work Permit.

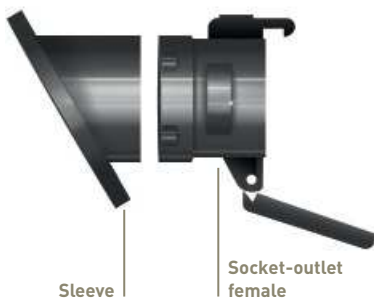
■ TECHNICAL FEATURES

	DXN1	DXN3	DXN6
Rated current (In)	20 A	32 A	63 A
Umax	550 V	750 V	750 V
Ambient temperature	-40°C ≤ Ta ≤ +60°C for all DXN		
Protection mode	«de» and «t» for all DXN		
ATEX Zones	Zones 1 & 2 (gas) Zones 21 & 22 (dust) for all DXN		

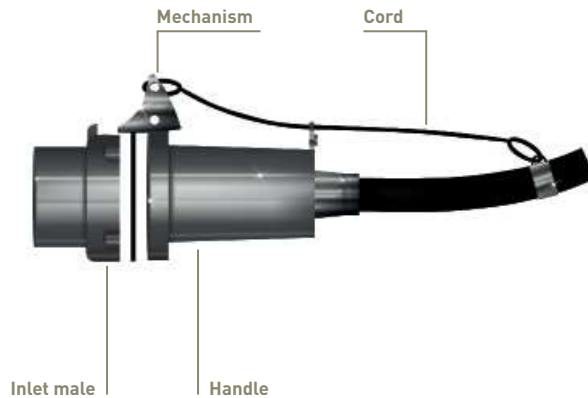
■ PART NO. (Please refer to our general catalogue for Socket-outlets, inlets and accessories part no.)

Self-ejecting plugs: handle + inlet (male)

Fixed part



Mobile part

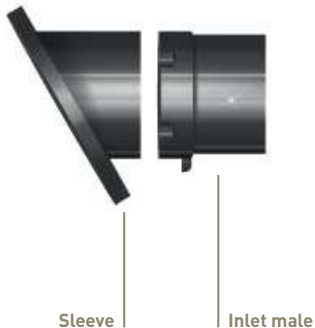


For the self-ejecting plug configuration, you need to order a standard inlet and add:

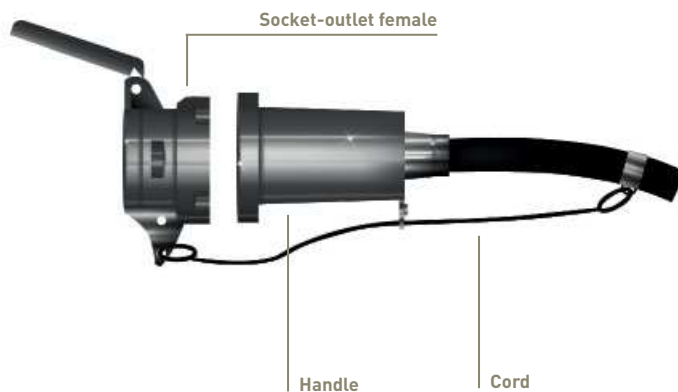
Socket-outlet:	Socket no. + 352
Shark's fin latch:	DXN1: 251A338 DXN3: 253A338 DXN6: 256A338
Handle: (gland range take in mm)	DXN1: 251A463 ø9-14 DXN3: 253A463 ø12-18 DXN6: 256A463 ø18-25
Cord:	251A336

Self-ejecting coupler sockets: handle + socket-outlet (female)

Fixed part



Mobile part



For the self-ejecting coupler socket configuration, you need to order a standard inlet or with auxiliary contacts and add:

Socket-outlet:	Socket no. + 354
Socket-outlet + 2 aux:	Socket no. + 973
Handle: (gland range take in mm)	DXN1: 251A463 ø9-14 DXN3: 253A463 ø12-18 DXN6: 256A463 ø18-25
Cord:	251A336

■ STANDARDS ASPECTS

DXN DECONTACTOR™ comply with:

- The ATEX 94/9/CE Directive,
- IEC EN 60079-0, IEC EN 60079-1, IEC EN 60079-7 and IEC EN 60079-31 international standards
- The essential safety requirements of IEC 60309-1 & IEC 60309-4 international and European standards (plugs and socket-outlets for industrial purposes),
- The switch utilization categories AC-22 and AC-23 described in IEC EN 60947-3,
- The French NF C 15-100 standard,
- The European 'Machine Directive' 2006/42/CE regarding equipment isolation,
- The French decree dated 20 December 2011 pertaining to the wiring and operating conditions of movable electrical apparatuses,
- The decrees relating to workers' protection in Belgium, Spain and Italy,

Also certified by VERITAS LCIE, KGS KOREA, EAC (GOST), INMETRO and cCSAus (French, Korean, Russian, Brazilian and American-Canadian European and international notified bodies) and by BUREAU VERITAS MARINE.

