



Since the acquisition by S&S Power Switchgear Limited (S&S) in 1997, Acrastyle has been involved in the design, installation and commissioning of medium voltage switchgear and medium/high voltage disconnectors manufactured at the S&S facilities in Chennai and Pondicherry in India.

The original designs for the disconnectors were acquired from Hawker Siddeley with whom S&S had an initial joint venture, following which a number of innovative and cost effective improvements were made. Today more than 25,000 disconnectors have been successfully commissioned world-wide.

## Double Break Type Disconnector – RD Range

- Rated Voltage up to 420kV
- Short time current up to 63kA
- Current rating up to 4000A

The RD range open terminal disconnector is a three column disconnector with rotating centre post drive.

The RD range of disconnectors is available for horizontal, upright and parallel arrangements. The RD range employs a special turn and twist arrangement for opening and closing of contacts. This rotation ensures adequate contact pressure is built to hold the contacts in closed position even under severe terminal loads or short circuit conditions. The turn and twist arrangement also enhances the self cleaning ability of the contacts.

## Operating Mechanism

Disconnectors can be supplied with either manual or motor operated mechanisms. Operating mechanisms, either manual or motor operated have provision for auxiliary switches, interlock and padlock.

Motor operated mechanism have additional features e-g overload protection, control switches and limit switches.

## Contacts

The main contacts are made of copper and are silver plated. Contact fingers utilise springs to ensure adequate contact pressure is maintained throughout the life of the equipment.

## Disconnector Base

The base is manufactured from welded channel section or a welded square tubular assembly and hot dip galvanised. Low friction, sealed-for-life bearings are incorporated in the base to provide a smooth rotating operation. The base is supplied with suitable mounting pads for installation onto a steel or reinforced concrete structure and is suitable for a retro-fit to all existing bases and structures.

## Earthing Switches

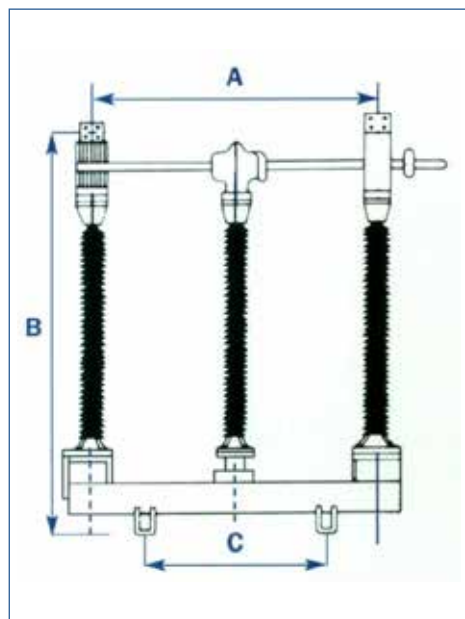
Manual or motor operated earthing switches can be mounted on either or both ends of the disconnectors, as an integral part of the disconnector or as an independent unit.

# Disconnectors

## Key Features

- Low maintenance
- Minimal installation time
- Simplified commissioning
- Suitable for use in harsh environments
- Compatible with existing structure configurations
- Supplied with porcelain insulators where required
- Optional hydrophobic & vandal-proof composite insulators also available
- Rated Voltage up to 420kV
- Short time current up to 63kA
- Current rating up to 4000A

*“...more than 25,000 disconnectors have been successfully commissioned...”*



Main dimensions			Rated voltage	Rated current	Rated short time current	Rated impulse withstand voltage	
A	B	C				To earth	Across isolating distance
			kV	A	kA	kVp	kVp
950	795	500	36	1250	25	170	195
1500	1326	1000	72.5	2000	31.5	325	375
1800	1744	1150	123	1600	40	550	630
2130	1835	1430	145	3150	40	650	750
				2000*			
2450	2417	1800	170	1600	40	750	860
3200	2980	2500	245	2000	40	1050	1200
3200	2980	2500	300	2000	40	1050	1200
							(+170)
5280	4595	3500	420	4000	63	1425	1425
							(+240)

\*NGC EA approved

**ACRASTYLE LIMITED**  
Protection & Control for Your Power Systems

**UVDB** 059854  
empowered by Achilles



North Lonsdale Road  
Ulverston  
Cumbria  
LA12 9EB. United Kingdom.

**Tel:** +44 (0) 1229 583232  
**Fax:** +44 (0) 1229 582586  
**Email:** enquiries@acrastle.co.uk  
**Web:** www.acrastle.co.uk

