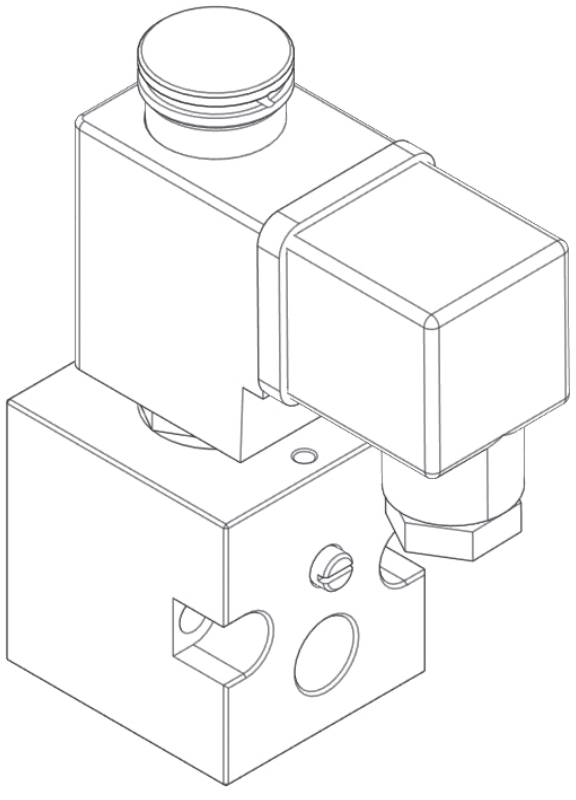
Direct Acting Namur Solenoid Valve DSN213 Series

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Installation, maintenance and operating instructions



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READ THESE INSTRUCTIONS FIRST!

These instructions provide information about safe handling and operation of the valve.

If you require additional assistance, please contact the manufacturer or manufacturer's representative.

SAVE THESE INSTRUCTIONS!

Addresses and phone numbers are printed on the back cover.

1. INTRODUCTION

Thank you for choosing Valmet product. Each product is fully inspected after the production to offer you the highest quality. In order to fully utilize the product, we strongly recommend users to read this manual carefully and understood.

This manual provides information on installation; operation and maintenance procedures and related instructions for the Neles brand DSN213 Direct Acting Solenoid Valve.

The aim of this literature is to support the use of products in correct manner, and all the technical information provided in the catalogue.

The manual should be given to the end user.

The manual can be changed or revised without any prior notice. Any changes in product's specification, structure, and/or any components may not result immediate revised version of the manual.

The manual should not be duplicated or reproduced for any purpose without any consent of Valmet Flow Control Manufacturers & Engineers Private Limited, INDIA.

MANUFACTURER WARRANTY

For the safety, it is vital to follow instructions in the manual. It is not Valmet liability for any damages which caused by users' negligence.

It is not Valmet liability for any damages or accidents which resulted by any alteration or modification of the product and parts. If alteration or modification is necessary, please contact the Valmet directly.

Valmet warrants the product from the date of original retail purchase of the product for one (1) year, except as otherwise stated.

Valmet warranty will not cover the products that the product have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; damages that occurs in shipment, failure due to power surge, and cosmetic damage. Improper or incorrectly performed maintenance or report voids this Limited Warranty.

For detailed warranty information, please contact:

VALMET MANUFACTERURS & ENGINEERS PRIVATE LIMITED, Manapada road, Dombivli (e), Maharashtra, India, Pin - 421204

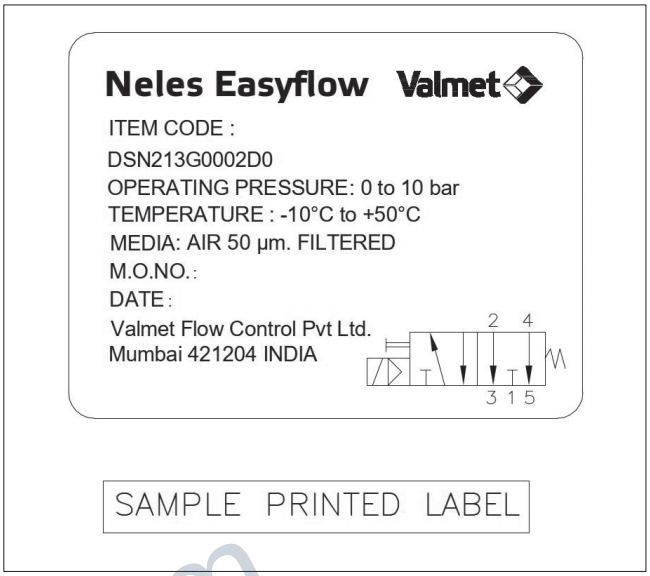
1.1 DEFINITIONS

WARNING:
IF NOT OBSERVED, USER INCURS A HIGH RISK OF SEVERE DAMAGE TO PRODUCT AND/OR FATAL INJURY TO PERSONNEL.

CAUTION: If not observed, user may incur damage to product and/or injury to personnel.

NOTE: Advisory and information comments provided to assist maintenance personnel to carry out maintenance procedures.

2. LABEL DESCRIPTION



Label of the DSN213G0002D0 defines the precise feature. This description is written below the company logo and is as follow.

Model No.:	DSN213	3/2 Way Direct Acting Namur SOV
	2	1/4"
	13	2 Position, solenoid operated spring return
Air pressure	0 to 10 bar	
Temperature	-10°C to +50°C	
S.O. NO.	Sales order number.	
DATE	Date of manufacturing.	

Dombivli – 421204 INDIA Brief address.

3. INSTALLATION PROCEDURE

CAUTION: Blow out air lines and fittings before installation. Use dry and oil free air. Do not dismantle the DSN213 while operation is in line. Do not allow dirty air or fluids to get into the DSN213. Use filter unit (filter size 40µm, 3°C) for dust and moisture removal.

NOTE: Ensure the installation meets the legal and regulatory requirements of the country and state of use. The DSN213 assembly should be left in the original packing until it is required for the use.

1. Hemp filaments, jute or even teflon ribbons are normally not required, As the part connections are accurately threaded. By chance, if any of these or any other tightening medium get into the operational area inside the DSN213, possible damage of the DSN213 could not be ruled out.
2. Clean all pipes and tube fittings thoroughly with suitable means. As even when brand new pipes are fitted, unclean interior are quite covered with dirt and dust.
3. Avoid impact on the DSN213. These may happen during transportation/ erection/ mishandling.

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4. TECHNICAL SPECIFICATION

Model	DSN213G0002D0
Operation type	
Type	3/2 Way
Port	¼" (BSP/ NPT)
Operating Pressure	0 to 10 kg/cm²

5. MAINTENANCE

NOTE: The DSN213 must be removed from installation prior to maintenance. All the connections/ports have to be disconnected prior to disassembly. All the mountings, accessories and spare parts used or replaced must be original from Valmet.

Valmet recommends "NELES M 55" grease for greasing. Apply the grease with soft brush or similar In case of any difficulty consult Valmet distributor.

1. Install, operate and maintain as per the instructions and recommendations of this manual.
2. Any deviation from the above will cease the responsibilities of Valmet.

6. DISASSEMBLY

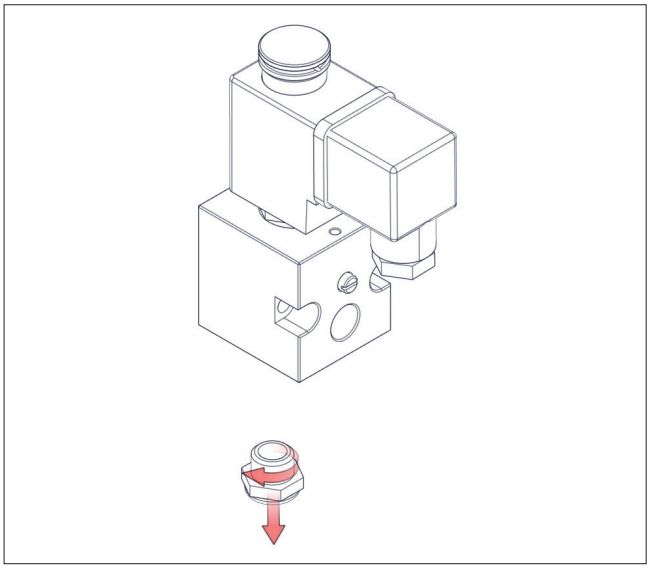
WARNING:
ALL ELECTRIC AND PNEUMATIC CONNECTIONS SHOULD BE REMOVED BEFORE STARTING DISASSEMBLY.

CAUTION: Do not place dismantled part on any diary/work bench but keep it on clean paper/cloth in same sequence as you have dismantled it.

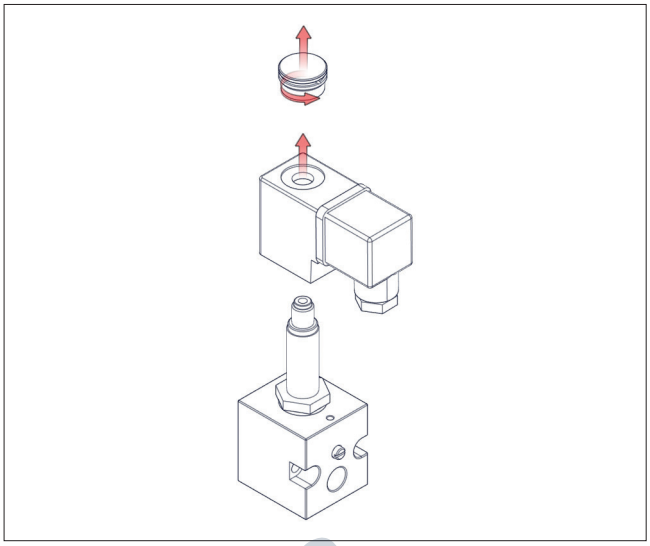
NOTE: It is advisable to replace all the rubber parts using genuine NELES spare kit. Numbers in parentheses, ( ) indicate the bubble number (reference number) used on the NELES Assembly details and Part List.

6.1 DISASSEMBLY OF DSN 213 SERIES VALVE

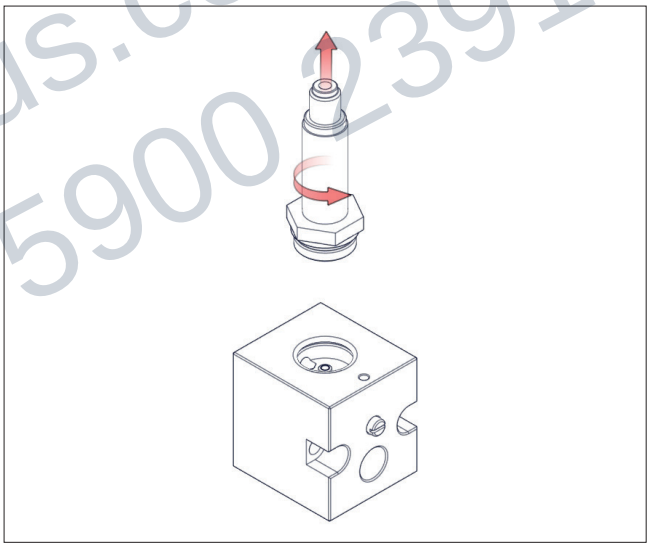
1. Remove the Flat Silencer (11) from the Body as per below Fig.



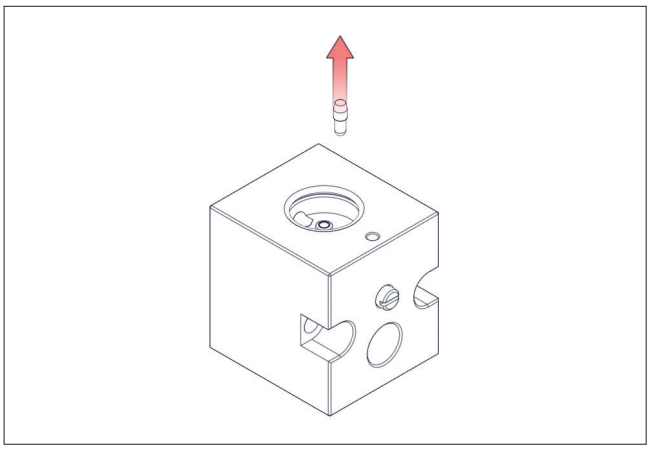
2. Remove coil nut (16), after that remove solenoid coil (14) with connector (15).



3. Unscrew the Armature Assembly from the body by using spanner of A/F22. Hold the Body in the holding fixture before unscrewing the Armature Assembly.



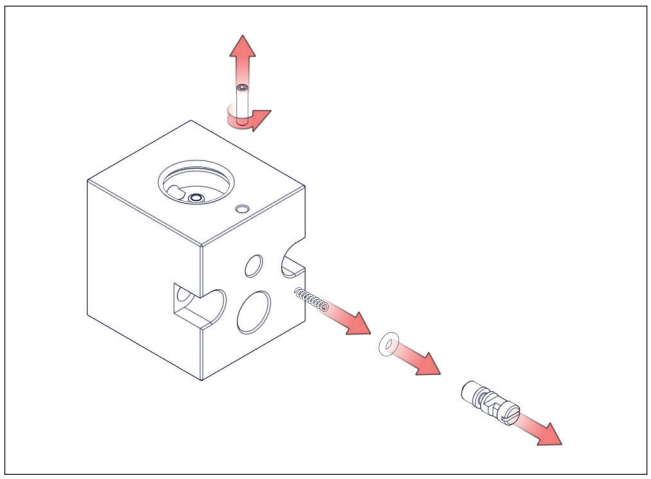
4. Then remove the Stoter from the Body with the help of Pinch Tool/ Nose Plier.



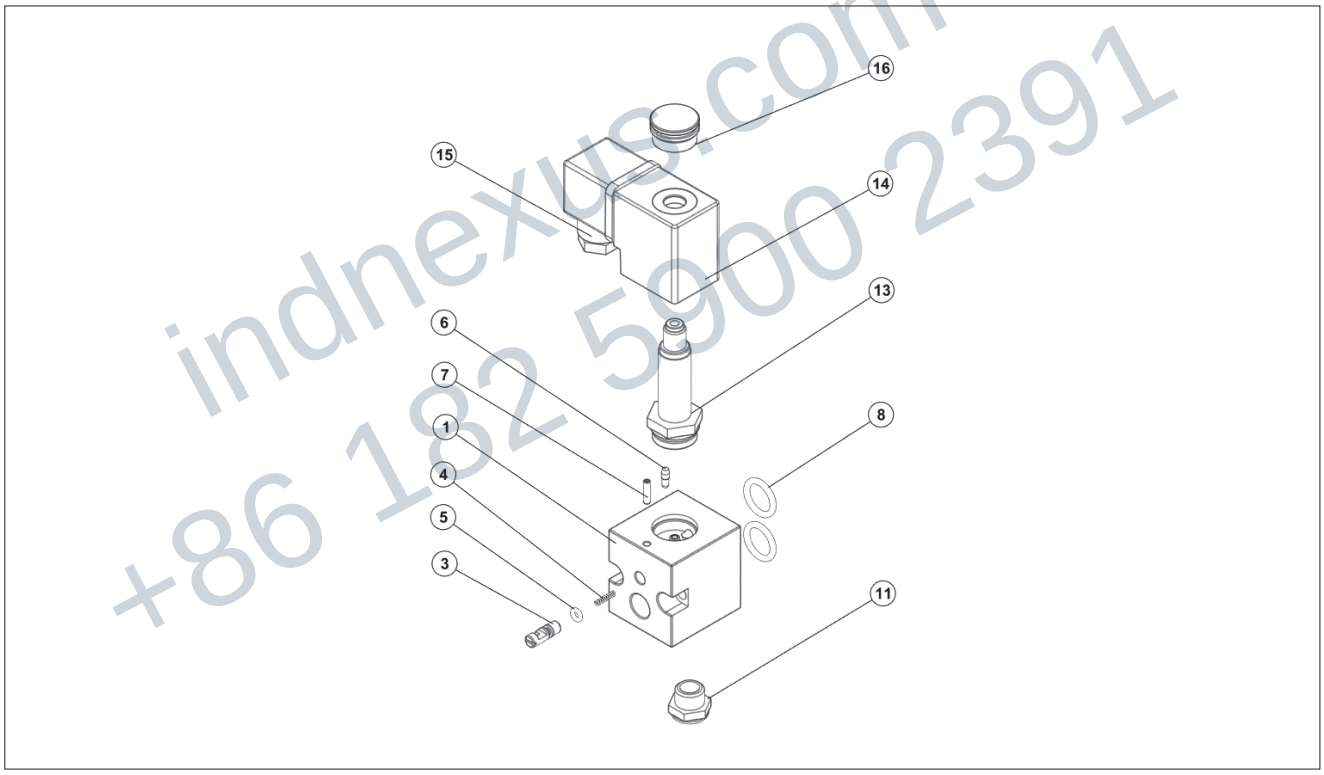
5. Remove the M3 Grub Screw by using Allen Screwdriver.

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6. Slowly remove the Manual Override Assembly with M.A. Spring from the Body.



6.2 EXPLODED VIEW

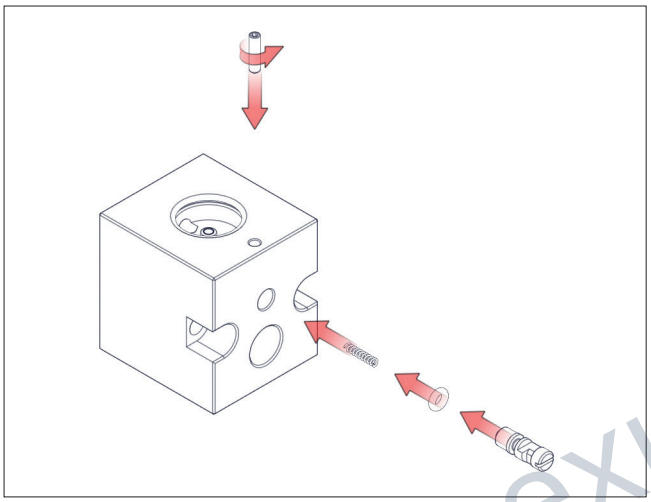


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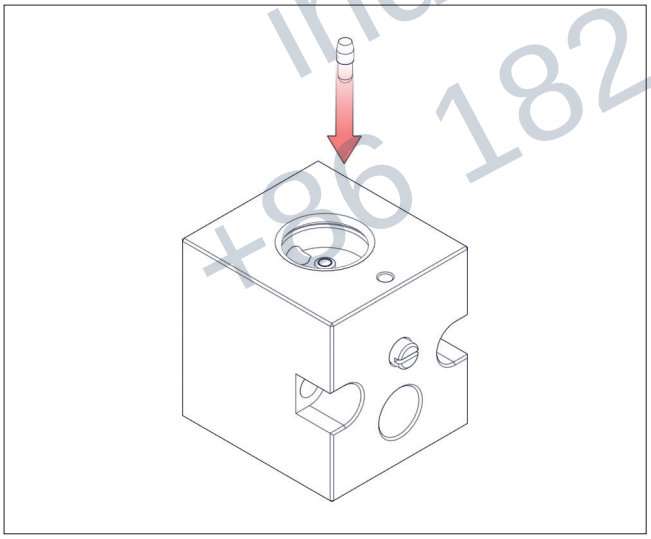
7. ASSEMBLY OF DSN 213 SERIES VALVE

NOTE: Follow the sequence as given below to ensure proper assembly.

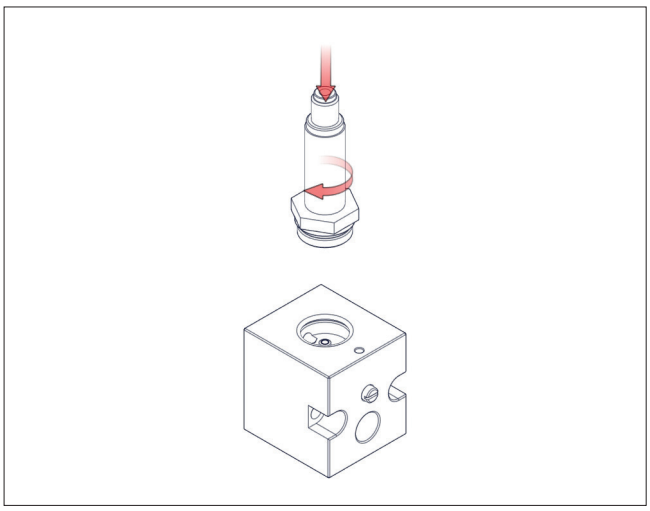
1. Clean all parts with soap water and dry.
2. Insert the Assembly of Manual Override (M.A.), M.A. O-Ring & Spring in the Body.
3. Hold the Manual Override (M.A.) Assembly in the Body with one hand and screw the M3 Grub Screw in the body with Allen Screwdriver to hold the M.A. Assembly.



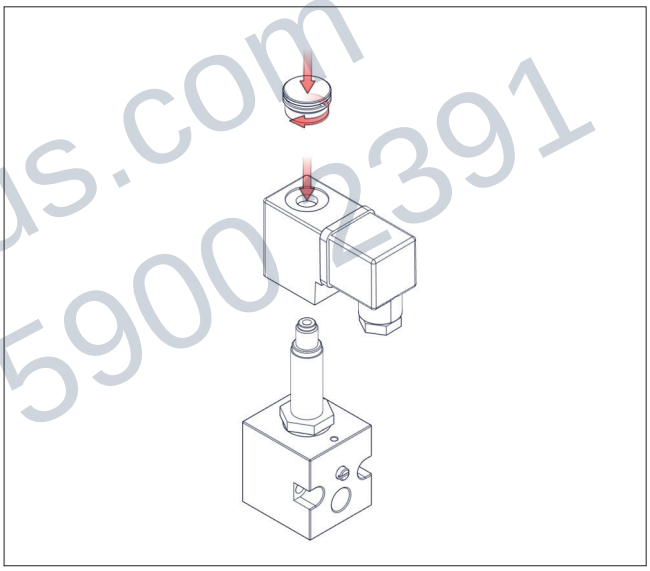
4. Insert the Stoter in the Body with the help of Pinch tool/ Nose Plier.



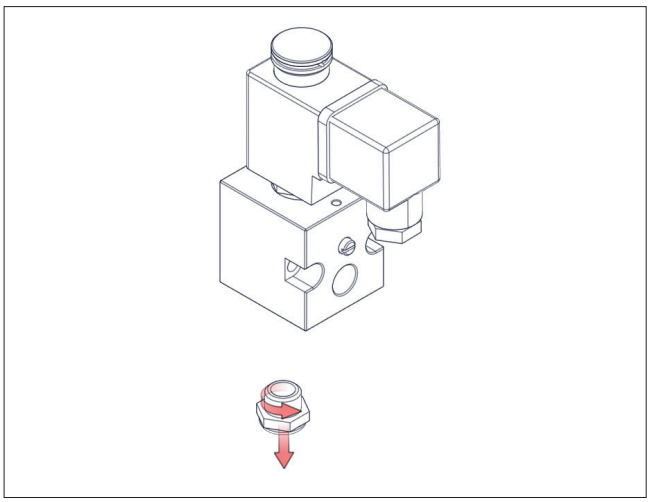
5. Screw the Armature Assembly in the Body with the help of Spanner of A/F22.



6. Insert Solenoid Coil (14) with Connector (15) and screw it with the Coil Nut (16).



7. Screw the Silencer to the Bottom of the Body.



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7.1 PART LIST

Sr.No.:	Name	Quantity
1	BODY	1
2	ORIFICE	1
3	MANUAL OVERRIDE	1
4	M.O. SPRING	1
5	O-RING (2.9 ID x 1.78 CS)	1
6	STOTER	1
7	M3 X 12 SOCKET SET SCREW	1
8	O-RING (13.95 ID x 2.62 CS)	2
9	M5 x 40 HEXAGONAL SOCKET HEAD	2
10	M5 x 8 SOCKET SET SCREW	1
11	FLATE TYPE SILENCER (1/4")	1
13	ARMATURE ASSEMBLY	1
14	COIL	1
15	SOCKET	1
16	COIL NUT	1

8. PACKAGING & STORE

1. When not in use, DSN 213 ASSEMBLYshould be kept in a sealed plastic bag in a cardboard box to prevent moisture or dust from contacting product.
2. DSN 213 should be stored in a dry place free from water and dust.
3. Store at temperature between 40°F and 120°F (4°C and 49°C).
4. Locate in an area to avoid damage by impact.

9. ASSISTANCE

For technical questions or assistance, contact any authorized distributor of Valmet Flow Control India Private limited or:

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