# **PRODUCT SPECIFICATION FOR**

# **DIN VALVE CONNECTORS SERIES**

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### **PRODUCT SPECIFICATION**

#### 1.0 SCOPE

This specification defines the performance for all DIN valve connector series.

#### 2.0 PRODUCT DESCRIPTION

#### Field Attachable Without Circuit

Series; C28, C22, C92 C25, C29, CSP,C01, C04, C05, C08, C12, C14, C17, C18, C19, C20, C32, C40, C41, C43, C44, C47, C50, C51, C52, C59, C62, C70, C71, C81 & C82

#### Field Attachable with Circuit

Series; S28, S22, S92 S25, S29, S02, S04, S05, S11, S14, S18, S19, S20, S40, S41, S43, S44, S53, S54, S55, S56 & S62

#### Bases

Series; B04, B14, B15, B20, B21, B22, B23, B24, B26, B27, B28, B29, B30, B31, B39, B40, B41, B42, B46, B47 & B48.

#### Adaptors

A06, A07, A02, A03, A04, A05, A08, A09, A10, A11 & A01

For materials, plating & markings, see sections 11, 12 and sales drawings SD-121\*\*\*. \*\*\* related to each series.

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### **3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS**

See sales drawings SD-121<sup>\*\*\*</sup>. <sup>\*\*\*</sup> and other sections of this specification for the relevant reference documents and specifications. In cases where the specification differs from the product drawings, the product drawings take precedence.

Testing and testing sequences are according to EN 175301-803:2006,

### 4.0 RATINGS

4.1	Current	Type A & B: Nominal 10 Amps / Max 16 Amps			
4.1	Current	Type C & Micro: Nominal 6 Amps / Max 10 Amps			
4.2	Voltage	Max 250 V AC / Max 300 V DC			
4.3	Operating Temperature Range	-40°C to +90°C			
4.4	Storage Temperature Range	-40°C to +70°C			
4.5	Storage Humidity Range	+15% to +70% RH			
4.6	Operating Temperature Range at mated interface	With circuit -40°C to +80°C, NBR -40°C to +90°C, Silicone -40°C to +125°C			
4.7	Derating Curves	See Appendix 1			
4.8	Cable Range	Minimum 0.75mm <sup>2</sup> - Maximum 1.5mm <sup>2</sup>			
4.9	Over voltage category	3			

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### **PRODUCT SPECIFICATION**

### 5.0 TEST GROUP INFORMATION

Test Group	Number of Specimen				
Р	6				
AP	2				
BP	2				
СР	2				
1.1	4				

Table 1, Test Group Size

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### 6.0 GROUP P (PRELIMINARY)

Test Ref.	Item	Test Condition	Requirements
P1	General Examination IEC-60512 Test 1A	Visual examination of unmated connectors	There shall be no defects that would impair normal operation
Р2	Polarization Method IEC-60512 Test 13E	Force to be applied for 60 seconds at a rate of 25mm Min 2 + PE = 60N 3 + PE = 100N	It shall be possible to correctly align and mate the appropriate mating connectors It shall not be possible to mate the connectors in any way other than the correct manner <b>#</b>
Р3	Contact Resistance IEC-60512 Test 2B	Measure contact resistance across the interface of male and female, Test current 1A	= 15mΩ Max * See note below
P4	Insulation Resistance IEC-60512 Test 3, Method A	Mated & Unmated connector with 100±15V DC between adjacent contacts. Reading measurement when stable condition is reached or within 60s±5s of application of voltage.	100mΩ Min. * See note below
P5	Voltage Proof IEC-60512 Test 4A	Mated connectors, Standard atmospheric conditions, Contact/contact: measuring points as P4, 2kV +/- 50V for 60s +/- 5s @45-60Hz, test voltage not to exceed 500V/s, test method A	No breakdown or flashover * See note below

### # Not applicable to form B Industrial, C12, S12, C22 & S22

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### **PRODUCT SPECIFICATION**

### 7.0 GROUP AP TEST SEQUENCE

Test Ref.	Item	Test Condition	Requirements
AP1	Mechanical Operation IEC-60512 Test 9A	Max. speed: 10 mm/s Rest 30's (unmated)	50 operation cycles Contact Resistance 15 mΩ max.
AP2.1	Solderability (when applicable) IEC-60512 Test 12B	Wetting iron method, Ageing method 3, Soldering iron size B, only for solder buckets	NA
AP2.2	Screw Terminal (when applicable) EN 60999-1	See EN 60999-1 Sections 9.1, 9.2, 9.4, 9.5 & 9.6, see Appendix 6	See Appendix 6
AP3	Voltage Proof IEC-60512 Test 4A	Mated connectors, Standard atmospheric conditions, Contact/contact: measuring points as P4, 2kV +/- 50V for 60s +/- 5s @45-60Hz, test voltage not to exceed 500V/s	No breakdown or flashover * See note below
AP4	Damp Heat Steady State IEC-60512 Test 11C	Electrode Voltage: 60 V DC Recovery time 1-2 hours 40°C - 95% Relative Humidity	10 day # See note below
AP5	Contact Resistance IEC-60512 Test 2B	Measure contact resistance across the interface of male and female, test current 1A, Test Method A	15mΩ Max * See note below
AP6	Insulation Resistance IEC-60512 Test 3, Method A	Mated & Unmated connector with 100±15V DC between adjacent contacts. Reading measurement when stable condition is reached or within 60s±5s of application of voltage.	100mΩ Min. *See note below
AP7	Voltage Proof IEC-60512 Test 4A	Mated connectors, Standard atmospheric conditions, Contact/contact: measuring points as P4, 2kV +/- 50V for 60s +/- 5s @45-60Hz, test voltage not to exceed 500V/s, Test Method A	No breakdown or flashover * See note below
AP8	Insertion and Withdrawal Forces IEC-60512 Test 13B	Cross head speed: 25mm/min, Cycles: 1	$2 + PE \leq 60N 3 + PE \leq 80N$
AP9	Unmated Connectors IEC-60512 Test 1A	Visual examination	No damage due to conditioning

#Functional test to be performed before and after test to with-circuit & adaptor part numbers, See Appendix 6

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### **PRODUCT SPECIFICATION**

### **8.0 GROUP BP TEST SEQUENCE**

	Test Ref.	Item		Test Co	ondition	Requirements		
	BP1	Dry Heat IEC-60512 Test 11J		NBR	nit +80°C, +90°C, +125°C	96 Hr Contact Resista 15 mΩ max. #See note below	nnce	
	BP2 Cold IEC-60512 Test 11J		Т	emperat	ure -40°C	2 hr Contact Resistan 15 mΩ max. #See note below	nce	
	BP3	Degree of Protection EN 60529	Internal the External	hread Ma torque thread m	orque 0.4Nm, ain Nut tightening	Degree of protection IP65 acc. to EN 605 or IPX7 acc. to EN 605 for connectors that inc fixing screw with rub washer (gasket)	29 529 Flude	
	BP4	Mechanical Strength Impact IEC-60512 Test 7B	Tes	Drop I (1000 ±	10) mm un-shielded lot cable	No Damage #See note below		
	BP5	Protection against hazardous parts IEC-60512 Test 1A	against accordin	access v g to EN	Connector, Protect vith a test finger 60529 15.2, 10 N Appendix 7	Test probe shall not n contact with a live terr		
	BP6	Unmated Connectors IEC-60512 Test 1A	V	isual ex	amination	No damage due to conditioning	)	
	#Functior	nal test to be perform		nd after e Appen		t & adaptor part num	bers,	
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### 9.0 GROUP CP TEST SEQUENCE

Test Ref.	Item	Test Condition	Requirements
CP1	Resistance to Fluids IEC-60512	Test acc. to EN 2591 Test C 15, T2 = 80°C Hydraulic oil HM 22 acc. to EN ISO 6743-4	No Damage
CP2	Retreatment	Cleaning of specimen by washing in light petrol	No Damage
СР3	Voltage Proof IEC-60512 Test 4A	Mated connectors, Standard atmospheric conditions, Contact/contact: measuring points as P4, 2kV +/- 50V for 60s +/- 5s @45-60Hz, test voltage not to exceed 500V/s Test Method A	No breakdown or flashover * See note below
CP4	General Examination IEC-60512 Test 1A	Visual examination of unmated connectors	No damage due to conditioning

\*Not applicable to with-circuit part numbers

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## **PRODUCT SPECIFICATION**

### **10.0 ADDITIONAL TEST SEQUENCES**

Test Ref.	Item	Test Condition	Requirements
1.1	Glow Wire IEC 60695-2-11	Parts shall be tested at 850°C, See Test Standard and Appendix 4 for details of the test setup Only V0 part numbers to be tested please see Sales drawings for details	Parts shall extingush within 30 seconds of tip removal & any drops shall not ignite the paper below

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#### **11.0 CRITICAL PARAMETERS**

Critical features are detailed on drawings SD-121\*\*\*. \*\*\*, please see individual part numbers for specific sales drawings, where specific sales drawings are not available please see the generic sales drawing for the specific series number for details of the intelligent part number.

#### **12.0 GENERAL REQUIREMENTS**

- All materials and platings are RoHS compliant.
- IP-classification: This component will be used in a product that fulfils IP65 or IP67 classification according to IEC 60529 for non-active category products.
- Test Sample Size: See table 1 page 4 for test sample size in each test group.
- Product shall undergo UL certification where applicable.

#### 13.0 MATERIALS

All materials are specified in sales drawings SD-121\*\*\*\*\*\*, please see individual part numbers for specific sales drawings, where specific sales drawings are not available please see the generic sales drawing for the specific series number for details of the intelligent part number.

#### 14.0 MARKING

Cavity number to be moulded on housings

#### **15.0 PACKAGING & LABELLING**

See packaging specification PK-121\*\*\*.\*\*\* for packaging of assembly options and labeling requirements for cartons. Please see individual part numbers for specific packaging specifications.

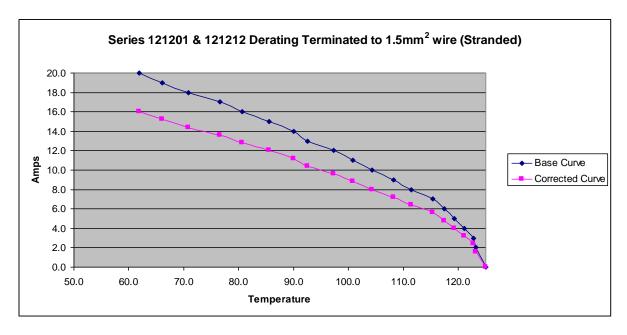
Parts shall be packaged to protect against damage during handling, transit, and storage.

No Styrofoam shall be used in any packing that comes in direct contact with the connectors.

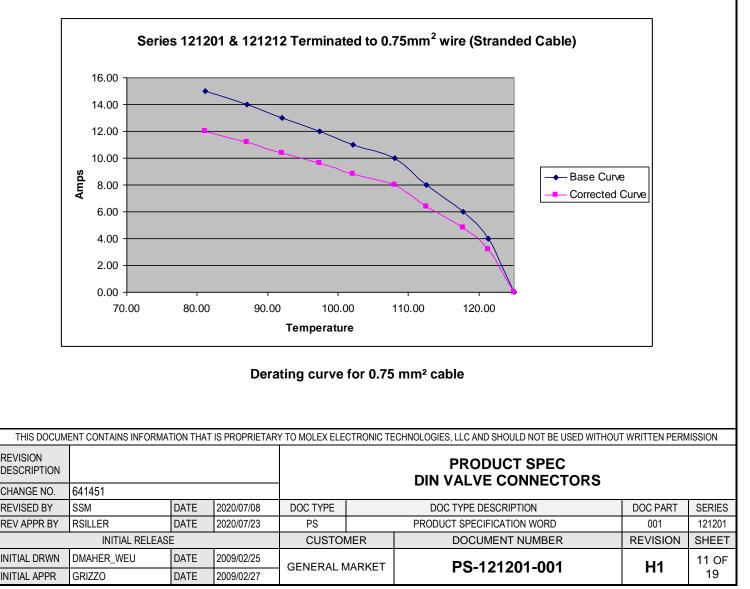
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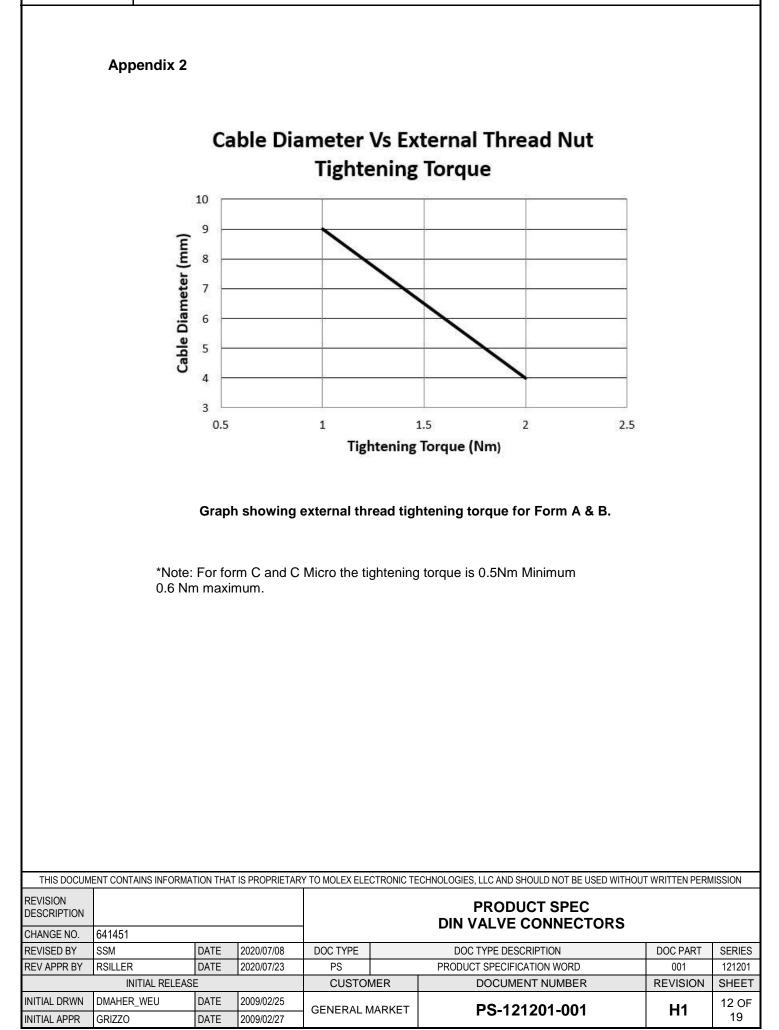
#### Appendix 1



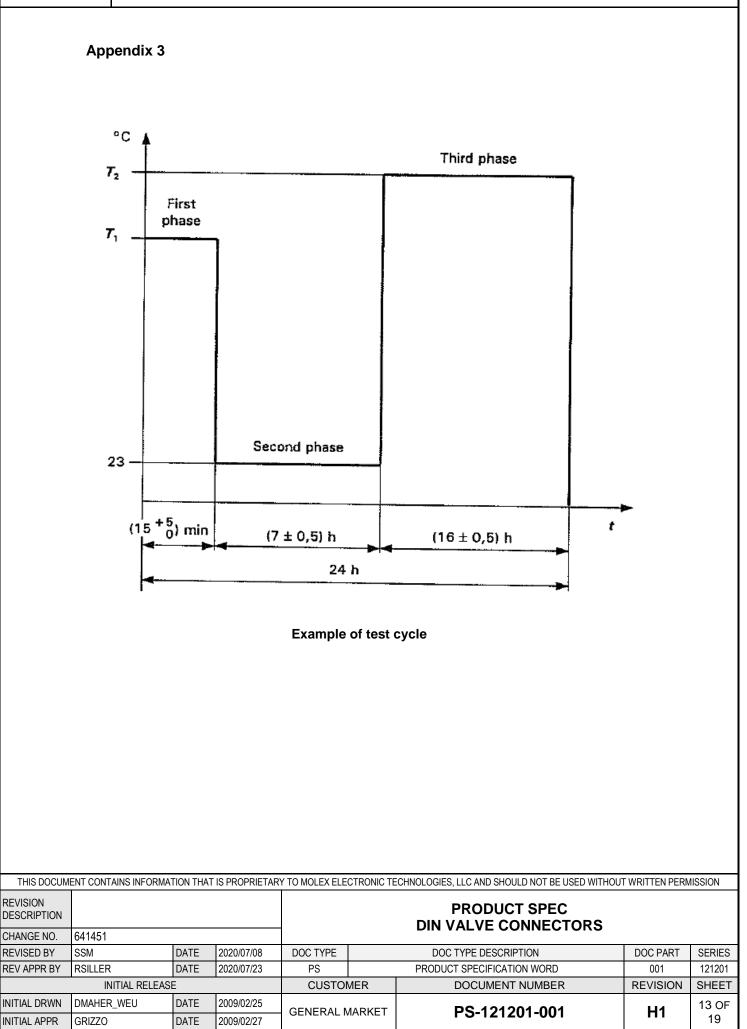


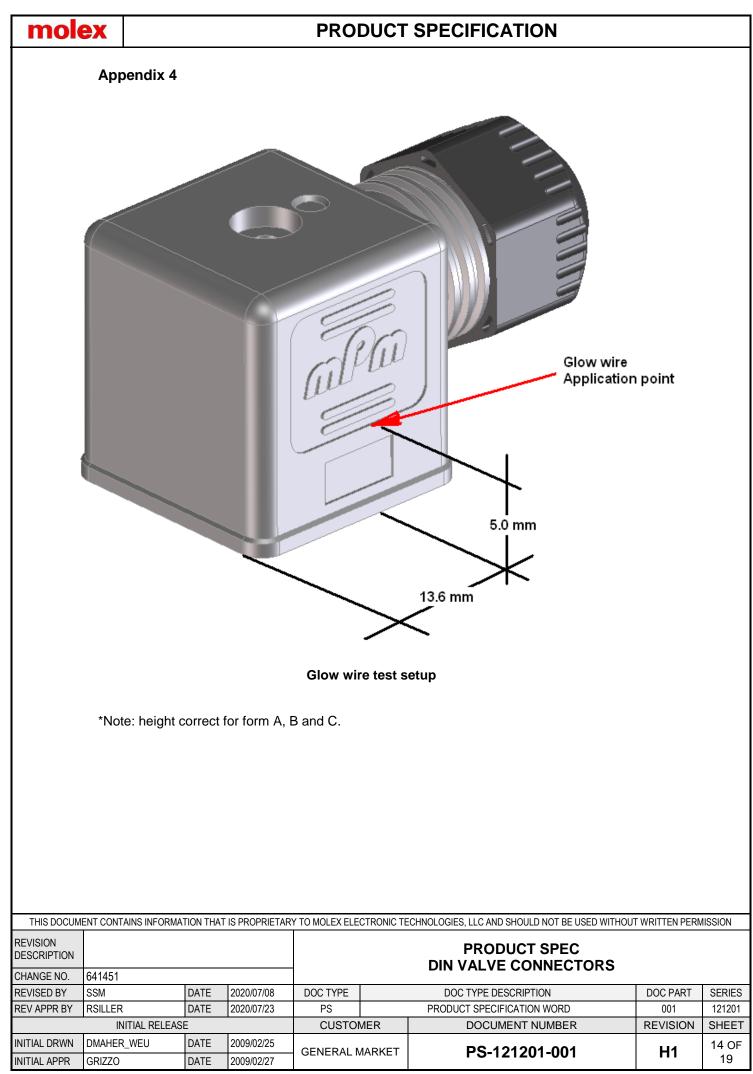


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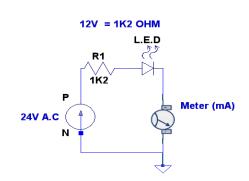


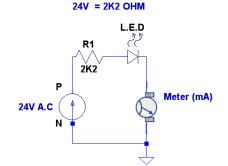


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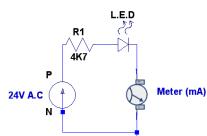
#### Appendix 5

Voltage (V)	Resistor	Test Voltage	Current Reading (mA)	Tolerance (mA)
12	1K2	24V AC	19.00	+/- 15%
24	2K2	24V AC	10.36	+/- 15%
48	4K7	48V AC	4.85	+/- 15%
115	15K	48V AC	7.58	+/- 15%
230	56K	48V AC	4.08	+/- 15%

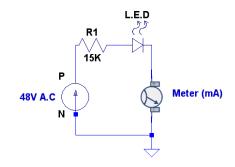






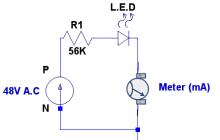


115V = 15K OHM



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230V = 56K OHM



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GRIZZO

INITIAL APPR

## **PRODUCT SPECIFICATION**

### Appendix 6.0

Test Ref.	Item	Test Condition	Requirements
AP2.2	9.1	The largest conductor size see table 1, shall be stripped re-shaped and then inserted into the terminal block	The conductor shall enter the the clamping unit completely without undue force
AP2.2	9.2	Three terminal blocks shall have new conductors fitted as per table 1 until they just protrude through the terminal block. They shall be positioned in such a way as to most likely allow wires to escape and then tightened to the specified torque	No wire of the conductor shall have escaped outside the clamping unit in such a manner as to reduce the creepage and clearance distances
AP2.2	9.4	Three clamping units of both the smallest and largest conductor size shall be terminated with a conductor of length H, + 75mm. The terminated conductor shall be suspended a distance H +/- 15mm from a platen with a hole in the bushing with a centreline which describes a circle of 75mm in diameter. The platen is rotated a 10 +/- 2 rotations a minute for 15 minutes. The conductor will have a mass suspended from its end. See table 2 for weights and dimensions and figure 1 for test apparatus setup.	During the test the conductor shall not slip from the terminal block
AP2.2	9.5	After test 9.4 a steady pulling force shall be applied to each connection as outlined in table 3 below for 1 min	During the test the conductor shall not slip from the terminal block
AP2.2	9.6	The terminal block screw is tightened and loosened five times on any conductor on the max or min conductor size. A new conductor is used each time the screw is loosened.	During the test the terminal block and screw shall not be damaged

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### **PRODUCT SPECIFICATION**

\*Note: Terminal tightening torque for all tests is 0.4Nm

Table 1, Conductor cross section Vs conductor diameter

Conductor cross	Theoretical diameter of the conductor				
section	Solid	Stranded			
mm <sup>2</sup>	mm	mm			
0.75	1.0	1.2			
1.50	1.5	1.7			

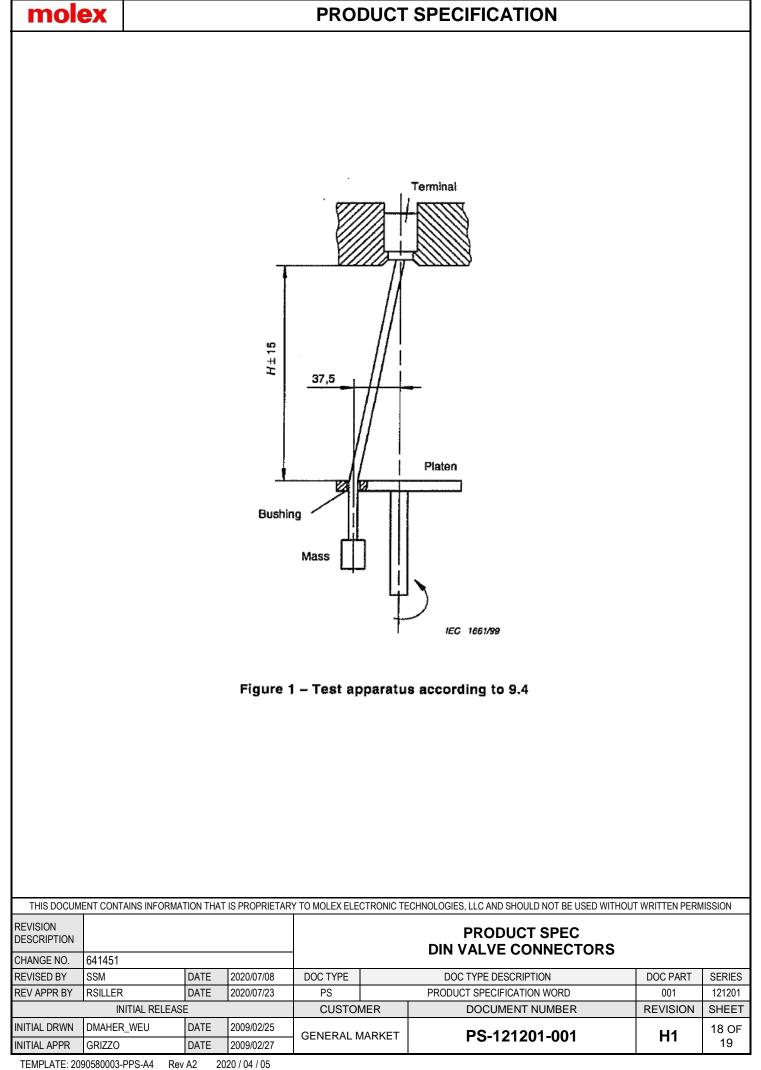
#### Table 2 Mass Vs conductor cross sectional area

Conductor Cross Section	Diameter of bushing hole	Height H	Mass attached to conductor
mm <sup>2</sup>	mm	mm	kg
0.75	6.5	260	0.4
1.55	6.5	260	0.4

#### Table 3 Pull force Vs conductor cross sectional area.

Cross Sectional Area mm <sup>2</sup>	0.75	1.55
Pull Force N	30	40

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REVISION DESCRIPTION		PRODUCT SPEC DIN VALVE CONNECTORS									
CHANGE NO.	641451										
REVISED BY	SSM	DATE	2020/07/08	DOC TYPE	DOC TYPE DESCRIPTION		DOC PART	SERIES			
REV APPR BY	RSILLER	DATE	2020/07/23	PS		PRODUCT SPECIFICATION WORD	001	121201			
	INITIAL RELEAS	E		CUSTON	MER	DOCUMENT NUMBER	REVISION	SHEET			
INITIAL DRWN	DMAHER_WEU	DATE	2009/02/25	GENERAL		PS-121201-001	H1	17 OF			
INITIAL APPR	GRIZZO	DATE	2009/02/27	OLINEIXALIN		1 3-121201-001		19			



## **PRODUCT SPECIFICATION**

### Appendix 7.0

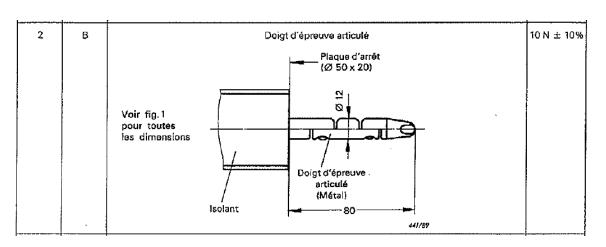


Figure 2, above shows the test probe to be used during test section BP5

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REVISION DESCRIPTION						PRODUCT SPEC DIN VALVE CONNECTORS						
CHANGE NO.	641451											
REVISED BY	SSM	DATE	2020/07/08	DOC TYPE	DOC TYPE DESCRIPTION		DOC PART	SERIES				
REV APPR BY	RSILLER	DATE	2020/07/23	PS		PRODUCT SPECIFICATION WORD	001	121201				
	INITIAL RELEAS	E		CUSTO	MER	DOCUMENT NUMBER	REVISION	SHEET				
INITIAL DRWN	DMAHER_WEU	DATE	2009/02/25	GENERAL		PS-121201-001	H1	19 OF				
INITIAL APPR	GRIZZO	DATE	2009/02/27	GENERALIN		F 3-121201-001	•••	19				